

Global Challenges Facing Oceanography and Limnology

ASLO Conference Program Summer Meeting in Victoria **2006**

June 4-9, 2006 · Victoria, British Columbia, Canada



The painting on the cover is titled "Healing Journey". It is an original work of art by George John Jr. from Ahousaht, British Columbia for this meeting. It relates to the healing power of water. There has been a lot of pain in the local culture caused originally by residential schools and, more recently, by drug and alcohol abuse. To help heal from these events, people will canoe in the ocean for long periods of time to think, reconnect with the Earth, and forgive. Each summer there is a two-week long canoe journey that is designed as a large healing journey. This process of embracing a traditional method of traveling and re-immersing in the culture is depicted in the painting.

This meeting is also sponsored by the International Society for the Study of Harmful Algae, Aquatic Plant Management Society, American Fisheries Society and the Society of Canadian Limnologists/Société canadienne de limnologie.

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WELCOME TO THE ASLO 2006 SUMMER MEETING IN BEAUTIFUL VICTORIA, BRITISH COLUMBIA, CANADA!

The ASLO 2006 organizing committee encourages you to join us in the beauty of Victoria and invites your participation in a meeting that will provide a forum for researchers to discuss and present **Global Challenges Facing Oceanography and Limnology**.

This meeting is co-sponsored by the International Society for the Study of Harmful Algae, the Aquatic Plant Management Society, the American Fisheries Society and the Society of Canadian Limnologists/Société canadienne de limnologie.

The conference events will be held at the Victoria Conference Centre and the adjoining Fairmont Empress Hotel and informal conversations and discussions following the meeting can be continued at various meeting places throughout the city.

MESSAGE FROM THE CO-CHAIRS

On behalf of the organizing committee, we welcome you to beautiful Victoria, British Columbia, for an outstanding forum on Global Challenges in Oceanography and Limnology. ASLO has again chosen to host this meeting outside the USA as a means of *Advancing the Science of Limnology and Oceanography* internationally. Not only does the science focus on global themes, but the conference will be attended by over 1100 scientists from Europe, South America, Asia, and the Middle East, as well as North America. Together with the co-sponsoring societies, our aim is to present and discuss recent advances in research on global challenges to aquatic environments, including **climate change, ecosystem structure and function, linkages among systems, methods to achieve or maintain healthy water, improved management of aquatic resources, and emerging challenges in science, technology and communication**.

We are particularly excited about the breath of the plenary talks and the research highlights to be presented by the current ASLO award recipients. Furthermore, we have an excellent range of tutorial and contributed talks and have expanded the role of poster sessions in facilitating collegial interactions. Through these formal presentations, as well as the opportunities to interact with friends, colleagues and new acquaintances, we hope that you will be challenged, stimulated and inspired.

As co-chairs of this event, we wish to take this time to personally thank all the members of the organizing committee for their hard work, dedication and enthusiasm. We especially wish to thank the extraordinary work of the ASLO Business Office, particularly Helen Schneider Lemay, in making this event run so smoothly.

Welcome to Victoria! We hope you enjoy the conference and this beautiful city!

Pat Glibert and Peter Leavitt, Conference co-chairs

THE SCIENTIFIC PROGRAM

The scientific program for the 2006 meeting includes plenary and ASLO award recipient lectures, as well as topical and regular sessions for oral presentations and poster sessions. Posters will play an important part in this meeting and will be presented as dedicated sessions immediately following the plenary talks on Monday, Tuesday, and Thursday. Receptions will also be held in

the poster area on Tuesday and Thursday following the oral sessions. Posters have been placed to allow ample room for you to discuss the presentation with the poster presenter during their specific day and time. Diagrams of the poster area with poster designations will be provided.

The theme of the meeting is Global Challenges to Oceanography and Limnology. In recognition of this theme, topical sessions during the ASLO 2006 Summer Meeting will be organized into seven sub-themes:

A. Challenges for understanding climate change

Climate variability affects all aspects of aquatic systems, including biological, physical and chemical interactions. This theme will address such topics as the effects of changing climate, hydrologic variability, sea level rise, and impacts of UV radiation on aquatic systems, as well as feedbacks between processes. Topical sessions will include such aspects as neo-ecological or paleo-ecological studies, the relationships between major climate systems (NAO, PDO, ENSO) and ecosystem change, and the role of adaptation to climate change.

B. Challenges for understanding ecosystem function and change

Ecosystem structure and function are influenced by both anthropogenic and natural factors. Further, ecosystem functions such as energy flow, elemental cycling, and processing of matter are linked to ecosystem structure in diverse and often non-linear ways. To address this complexity, topical sessions will address interactions between ecosystem structure and function, including mechanisms of ecosystem change, roles of biodiversity, alternative states or hysteretic effects, ecosystem resilience and effects of invasive species.

C. Challenges for understanding linkages among aquatic, terrestrial and atmospheric systems

Interactions among aquatic, terrestrial and atmospheric systems occur across a range of spatial and temporal scales. Consequently, topical sessions will address land-water interactions, exchanges between the atmosphere and water bodies, interactions among aquatic systems, mechanisms of energy or mass transfer, the role of circulation in biological and chemical processes, and linkages among lakes, rivers and oceans.

D. Challenges for achieving or maintaining healthy water

Water resources around the world are under stress and it is a significant challenge to preserve healthy waters for human societies and aquatic ecosystems. In this theme topical sessions will broadly address the challenges involved with achieving or maintaining healthy water. Examples of topics pertinent to this theme include eutrophication, hypoxia, harmful algal blooms, aquatic pathogens, water pollution and water management.

E. Challenges for managing aquatic resources

Managing aquatic resources challenges scientists to understand anthropogenic stresses on carrying capacity and resiliency of living resources and the ecosystems on which they depend. Fisheries oceanographers, limnologists, and ecologists are challenged to not only understand past effects of environment and harvest on living resources, but also to forecast likely aquatic ecosystem responses to future stressors. Topical sessions that include global- and ecosystem-based resource management, and trophic responses to ecosystem change are included.

F. Challenges for communication, education and outreach

More effective communication of aquatic science is essential for improved public understanding, informed decision making and effective education. In recognition of the importance of dissemination and outreach, a topical session will be held on science education and communication, including public outreach, decision tools and models, and the role of scientists as advisors to policy makers.

G. Emerging challenges in Oceanography and Limnology

Improved understanding and management of aquatic ecosystems will require scientists to identify and address forthcoming challenges and their interactions with on-going stressors and mechanisms of ecosystem function. Overall, the goal of this theme is to identify and discuss the next wave of aquatic science research. This theme promotes topical sessions that address such future issues as research challenges for the 21st century, forthcoming ecosystem stressors, technological innovations needed to advance aquatic sciences, the role of molecular biology in limnology and oceanography, challenges in data management and networking, and the importance of integrated modeling approaches.

Table 1. The breakdown by country of the registered participants submitting an abstract to the ASLO 2006 Summer Meeting.

Country	Count	Country	Count
USA	529	Slovenia	8
Spain	293	Croatia	7
Germany	160	China	6
France	143	Czech Republic	4
United Kingdom	133	Estonia	4
Canada	110	New Zealand	4
Sweden	86	Argentina	3
Netherlands	70	Monaco	3
Denmark	51	Nigeria	3
Japan	51	Colombia	2
Portugal	49	New Caledonia	2
Norway	48	Nicaragua	2
Australia	35	Russia	2
Italy	32	South Africa	2
Finland	31	Venezuela	2
Belgium	27	Bulgaria	1
Switzerland	25	Guam	1
Austria	23	Iceland	1
Brazil	21	Latvia	1
Israel	19	Malta	1
Mexico	15	Philippines	1
Greece	14	Senegal	1
Poland	9	Taiwan ROC	1
Republic Of Korea	9	Ukraine	1
Chile	8	Uruguay	1

*The numbers listed for each country are pre-registration numbers as of May 1, 2006

PLENARY ADDRESSES AND AWARD RECIPIENT TALKS

The five days of the meeting will begin with addresses by the ASLO Award recipients and by plenary speakers. These lectures will be followed by a coffee break and by poster sessions on Monday, Tuesday, and Thursday. All plenary and award talks are in the Carson Ballroom, Level Two at the Victoria Conference Centre. The opening and award talks are 8:00-8:30am and the plenary talks, 8:30-9:15am.

ASLO Award recipient talks will be introduced by ASLO President Jonathan J. Cole, Institute of Ecosystem Studies.

Monday, June 5, 2006



Recipient of the Alfred C. Redfield Achievement Award Talk: Microbial Motile Behaviour in Marine Sediments

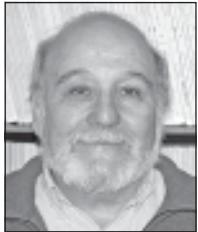
Tom Fenchel, University of Copenhagen, Copenhagen, Denmark

Presentation: Many – perhaps most – prokaryotic and eukaryotic microbes are motile and may respond to various chemical cues or to light. Chemosensory behaviour of some microbes conforms to the classical “run and tumble mechanism”, whereas others use different mechanisms for finding their way in a heterogeneous habitat. The presentation will emphasise the diverse mechanisms by which microbes find their way in steep oxygen gradients that are characteristic for sediment surface layers. Many micro-organisms seek and thrive only within a narrow range of O₂-tensions. Motile sensory behaviour may lead to complex self-organised patterns and it also greatly enhances reaction rates such as sulphide oxidation.

Biography: Tom Fenchel was born in 1940 in Copenhagen. He studied biology at the University of Copenhagen (Ph.D. 1964) and later received the degree of D.Sc. (1969). Assistant and Associate Professor at the Marine Biological Laboratory, University of Copenhagen 1965-1970 and Full Professor at the University of Aarhus 1970-1987. Since 1987, he has been Full Professor in Marine Biology and Director of the Marine Biological Laboratory, University of Copenhagen. He has been visiting scientist at the Marine Biological Station, Kristineberg, Sweden (1962-63), at the Rosenstiel School of Marine Sciences, Miami (1969), at Naval Arctic Research Laboratory, Point Barrow, Alaska (1973), and at MBL, Woods Hole (1978).

Fenchel has authored or co-authored approximately 160 original papers and five books. The most important research topics have been the ecology and ecological physiology of eukaryotic and prokaryotic microorganisms, anaerobic life, the “microbial loop”, and population biology of marine invertebrates. He is listed as a “Highly Cited Author” by ISI and is a co-editor or member of editorial boards of several international journals.

Fenchel is a member of the Danish Royal Academy of Science and Letters, the Royal Swedish Academy of Science, Norwegian Academy of Science, and Academia Europea. He is an Honorary Member of the Society of General Microbiology and has received the Ecology Institute Prize (1986) and the Huntsman Medal for Excellency in Oceanography (1986).



Plenary Address:
Homeostasis in the Oceanic Fixed Nitrogen Inventory?

Dr. Louis A. Codispoti, University of Maryland Center for Environmental Science, Horn Point Laboratory, Cambridge, MD, USA

Introduction by Patricia Glibert, University of Maryland Center for Environmental Science, Horn Point Laboratory, Cambridge, MD, USA

Presentation: Estimates of the source and sink terms for oceanic fixed-N have increased dramatically. These results have produced consensus on the need to reduce canonical estimates of the turnover time for oceanic fixed-N, but a conundrum arises because estimates of the major source term (nitrogen fixation) have increased far-less sharply than estimates for the major sink (biological conversion of fixed-N to N₂). These results suggest a large deficit in the present-day oceanic fixed nitrogen budget, but persistence of such deficits for more than a few hundred years appears to conflict with the ice-core atmospheric carbon dioxide record. Moreover, since the major source and sink terms arise from biological processes that are coupled over ocean-circulation or shorter times scales, a recurrent refrain has been that there should be a homeostasis in the oceanic fixed-N inventory. One way to resolve this conundrum is to suggest that there is large high-frequency (~ multi-decadal?) variability in the oceanic fixed-N budget that approaches a balance when averaged over several-hundred year or longer time-scales. Another possibility is that oceanic nitrogen fixation is severely underestimated. Some have suggested that the conundrum arises from overestimates of the conversion rate of fixed-N to N₂ by denitrification, anammox, etc., but this term may instead require further upwards revision.

Plausible variations in the large-scale oceanic N/P ratios and a holistic examination of the phosphate remaining when inorganic fixed-N is ~ 0 challenge arguments for homeostasis based on these data. A time-varying N/P ratio would also loosen the constraints imposed by the atmospheric CO₂ record. With respect to the ice-core record, the applicability of a past dominated by glacial inter-glacial cycles to a future dominated by anthropogenic impingement (the "Anthropocene") should be considered with caution. Additionally, a partial coupling appears to exist between increased phosphate and increased fixed-N removal from the ocean, further loosening the canonical constraints on the oceanic fixed-N inventory.

In conclusion, the possibility of significant deficits in the oceanic fixed-N budget that may persist for several decades or more are a possibility, unless we find considerably more nitrogen fixation. Such a condition might impact oceanic biology and its ability to sequester atmospheric CO₂, as we enter a period when stresses on the global ecosystem are increasing.

Biography: Codispoti began his career as an oceanographer in the U.S. Naval Oceanographic Office from 1966-1969. After leaving the Navy, he joined the University of Washington Department of Oceanography as Acting Assistant Professor, 1972-1973, Research Associate, 1973-1974, and Principal Oceanographer, 1974-1979. He then joined Bigelow Laboratory for Ocean Sciences as Research Scientist, 1979-1983, 1988, and Director of Research, 1983-1987. In 1987, Codispoti went to work at the Monterey Bay Aquarium

Research Institute as Senior Scientist. While there, he held a concurrent position as Scientific Officer, Office of Naval Research until 1994. From 1994 to 1999, he was Research Professor at Old Dominion University's Center for Coastal Physical Oceanography, at which time he joined The University of Maryland Center for Environmental Science at Horn Point. He is widely published in a variety of journals and books.

His research interests include biogeochemistry: C&N cycling and budgets, suboxic respiration, nutrients, etc.; hydrochemistry: the Arctic, Antarctic, Arabian Sea, etc., Chesapeake Bay; instrumentation: autonomous nutrient monitors, nutrient profiling, and mapping.

Some of his professional activities include serving as the Chair of the Western Arctic Shelf-Basin Interactions Advisory Committee; Co-Curator, Smithsonian Exhibit on Change in the Arctic and Director, Ocean-Atmosphere-Ice Interactions, Science Management Office.

Tuesday, June 6, 2006



Recipient of the G. Evelyn Hutchinson Award Talk:

Marine Microbes Keep Surprising Us

Jed A. Fuhrman, University of Southern California, Los Angeles, CA, USA

Presentation: The past couple of decades have seen remarkable changes in our view of biological oceanographic systems, most notably with respect to microbes. The idea that half or more of the marine primary production passes through the "microbial loop" was originally quite radical, but now universally accepted. Viruses were virtually unheard of in an oceanographic context, but now have multiple sessions at meetings, or even whole meetings, devoted to them. It used to be that only a few microbiologists cared about archaea, which were thought to be confined to "extreme environments," but now we know they are the single most common group in the deep sea (perhaps the world), and likely to be responsible for a large part of the marine nitrogen cycle. The harvesting of light to support marine ecosystems was thought to be only via chlorophyll a, but recent evidence adds more than one other potentially important microbial mechanism. I will discuss how my lab has been involved in illuminating these and a few other revelations about microorganisms in marine systems. There is no doubt that more surprises await us.

Biography: Fuhrman earned a bachelor's degree in Biology from Massachusetts Institute of Technology in 1977 and a doctorate from Scripps Institution of Oceanography in 1981. At which point, he began work as an assistant associate professor of oceanography at SUNY Stony Brook. In 1986, he began as an associate professor of biological sciences at University of Southern California. In 1992, he became a full professor and continues to teach today. He served as a department chair for biological sciences from 1994 - 1996. Currently, Fuhrman is the McCulloch-Crosby Chair of Marine Biology (1995 - present).

He is a "Highly Cited Researcher" for ISI (2002 - present) and has been named a Fellow in both the American Association for the advancement of Science (1997) and American Academy of Microbiology (2003).

Fuhrman served as an ASLO representative to the Biological Sciences Section of AAAS 1984 - 1993. Currently, he is Subject Editor of *Aquatic Microbial Ecology* (since 1995) and on the Editorial Board of *Environmental Microbiology* (2003 - present) and *Microbial Ecology* (2006). He has approximately 125 publications since 1978.



Plenary Address:
**Shallow Lakes, Stoneworts, Salt and
 Sailors: A Recipe for Conflict**

Brian Moss, B.Sc. Ph.D. D.Sc., School of Biological Science, University of Liverpool, United Kingdom

Introduction by Peter Leavitt, University of Regina, SK, Canada

Presentation: Lowland Europe lacks the relatively undisturbed ecosystems of other continents. Every piece of land or water is fought over by conflicting interests, be they conservation, agriculture, recreation or urban development. Hickling Broad, an ancient mediaeval peat excavation, now forms a shallow lake of high conservation value for its rare stoneworts, following a chequered history of guanotrophication by black-headed gulls and toxic chrysophyte blooms. The aspirations of the local sailing club are at odds with the value of the lake as a National Nature Reserve and the solution may lie with the fortunes of the local farmers, themselves pawns of European political issues. Experiments in mesocosms and a detailed ecological history combine to help solve the problem, though the area may be engulfed by rising sea levels and breaching of the flood defences in the near future.

Biography: Moss' experience of freshwater systems and their problems ranges over more than 30 years and six continents. Following initial training in botany at the University of Bristol, he continued with a Ph.D. on the algal ecology of small pools. Thereafter, he fulfilled a strong wish to work in Africa with a research post at Lake Chilwa in Malawi. This gave him experience of a closed basin lake, which was nearly dry at the time and an introduction to tropical limnology. He then accepted a post in Michigan, USA, for three years and greatly widened his experience of both pristine and impacted waters. Moss worked on a large scale experimental lake system, investigating the impacts of nutrients and fish predation on the structure of the systems, on a deep lake eutrophicated largely by lawn fertiliser from wealthy residences on the shore; and on the ecophysiology of algae from eutrophic and oligotrophic conditions in laboratory culture.

After work and much travel in the United States, Moss returned to the UK and a post in the School of Environmental Sciences at the University of East Anglia. There he widened his experience of the sociological and political aspects of environmental problems, carried out major research on the eutrophication problems of the Norfolk Broadland, a system of shallow lakes and rivers, and established the first attempts at restoration of the conservation value of such systems through biomanipulation. Some seventeen years later, Moss decided to move to maintain freshness of approach and accepted a chair at Liverpool University. Here he continued to widen his expertise with studies on a nitrogen-limited system in the North West Midland Meres, and of ecosystem function in shallow lakes in Cheshire.

He has advised various industry bodies and the advertising Standards Authority on issues relating to eutrophication and detergents. He lectures widely on freshwater issues, especially eutrophication, and has taught short courses in India, New Guinea, Kenya, Tanzania, Uganda, and South Africa on limnology or algae. His textbook on Ecology of Freshwaters is now in its third edition and is widely used. Moss has also written a Guide to the Restoration of Nutrient Enriched Shallow Lakes intended for lake managers and policy makers, and a prestigious *New Naturalist* series volume on 'The Broads'. Recently, Moss completed a two-year period of office of the British Phycological Society. He also edited for a seven-year term of office the prestigious *Journal of Ecology*. Moss is currently executive vice president of the International Society for Limnology and recently retired from a similar post with the British Ecological Society.

Wednesday, June 7, 2006



**Recipient of the Raymond L.
 Lindeman Award for the Outstanding
 Paper in Aquatic Science by a Young
 Scientist Talk:**

**In recognition for the paper:
 McCallister, S.L., J.E. Bauer, J.E.
 Cherrier and H.W. Ducklow. 2004.
 Assessing sources and ages of organic
 matter supporting river and estuarine
 bacterial production: A multiple
 isotope approach. *Limnology and Oceanography* 49: 1687-1702.**

Tracing the Flow of Carbon From Terrigenous and Aquatic Sources to Bacterial Metabolism

Leigh McCallister, Institute of Marine and Coastal Sciences, Rutgers University, New Brunswick, NJ, USA

Presentation: Radiocarbon (^{14}C) and stable isotopic (^{13}C) signatures of bacterial nucleic acids were used to estimate the sources and ages of organic matter (OM) assimilated by bacteria in the Hudson River and York River estuary. Dual isotope plots of ^{14}C and ^{13}C coupled with a three-source mixing model resolved the major OM sources supporting bacterial biomass production (BBP). In freshwater regions of the York, terrigenous material of relatively recent origin (i.e., decadal in age) accounted for the majority of OM assimilated by bacteria (49-83%). Marsh and freshwater planktonic material comprised the other major source of OM, with 5-33% and 6-25% assimilated, respectively. In the mesohaline York, BBP was supported primarily by estuarine phytoplankton-derived OM in the spring and summer (53-87%) and by marsh-derived OM in the fall (as much as 83%). Isotopic signatures from higher salinity regions of the York suggested that BBP there was fueled predominantly by either estuarine phytoplankton-derived OM (July and November) or by material advected in from the Chesapeake Bay proper (October). In contrast to the York, BBP in the Hudson River estuary was subsidized by a greater portion (up to ~25%) of old (~ 24,000 years BP) allochthonous OM, presumably derived from soils and/or petroleum-hydrocarbon-derived sources. These findings collectively suggest that bacterial metabolism and degradation in rivers and estuaries may profoundly alter the mean composition and age of OM during transport within these systems and prior to its export to the coastal ocean.

Biography: Leigh McCallister received her PhD in 2002 from the School of Marine Science, College of William & Mary in Virginia. Leigh's research addressed the sources of organic matter (OM) entering estuaries, biochemical and isotopic characterization of the OM, and the biological and photochemical processes influencing its transformation as it moves through the estuarine conduit to the coastal ocean. Following her PhD work at VIMS, Leigh was a postdoctoral fellow with Paul del Giorgio in Montreal, where she developed a new technique to identify sources and ages of the carbon respired by lake bacteria. She is currently working with Sybil Seitzinger and Lee Kerkhof at the Institute of Marine and Coastal Sciences, Rutgers University. Leigh's wide interests and mastery of geochemical and microbiological methods will continue to contribute new insights about lake, estuarine and ocean systems as her career moves forward.

Plenary Address:
Prospects for Our Oceans: Steps towards Sustainability of the Seas

Jane Lubchenco, Oregon State University, Corvallis, OR, USA
 Introduction by Asit Mazumder, University of Victoria, Victoria, BC, Canada

Introduction by Asit Mazumder, University of Victoria, Victoria, BC, Canada

Biography: Dr. Jane Lubchenco is an environmental scientist and marine ecologist who is actively engaged in teaching, research, synthesis and communication of scientific knowledge. She grew up in Colorado, received her PhD. and taught at Harvard University. Twenty-seven years ago, she moved to Oregon State University, where she is Valley Professor of Marine Biology and Distinguished Professor of Zoology. Her research interests include biodiversity, climate change, sustainability science and the state of the oceans. She has received numerous awards including a MacArthur Fellowship, a Pew Fellowship, eight honorary degrees (including one from Princeton University), the 2002 Heinz Award in the Environment, and the Nierenberg Prize for Science in the Public Interest from the Scripps Institution of Oceanography, 2003.

Thursday, June 8, 2006



**Recipient of the Ruth Patrick Award for Environmental Problem Solving Talk:
 Using Science to Persuade Public Policy:
 Examples from the Experimental Lakes**
 David W. Schindler, University of Alberta, Edmonton, AB, Canada

Presentation: The Experimental Lakes Area was formed in 1968 to deliberately test some of the alternative theories of how to control eutrophication in freshwater lakes by performing whole ecosystem experiments. Experiments using different combinations of nutrients showed clearly that phosphorus management was the key to controlling eutrophication in most lakes. The experiments had direct effects on nutrient control policies in many countries.

In 1973, the mandate of ELA was broadened beyond eutrophication. Experiments with addition of sulphuric acid showed clearly that some of the effects of acidification on fisheries were indirect, mediated via the food chain or biogeochemical cycles. Again, the experiments provided clear evidence that boosted the confidence of policy makers.

In both of the above cases, the experiments showed that many of the small-scale experiments normally employed to predict management policies were spurious, and would have led to erroneous policy decisions. Some contemporary examples will be presented briefly.

Biography: Dr. Schindler holds the Killam Memorial Chair in Ecology in the Department of Biological Sciences. His work on lakes has been widely used in formulating policy internationally. He received his doctorate from Oxford University, where he studied as a Rhodes Scholar. He has served as President of the American Society of Limnology and Oceanography, and as Canadian National Representative to the International Limnological Society. He is also the author of over 275 scientific publications.

Dr. Schindler's international awards include the G.E. Hutchinson Medal of the American Society of Limnology and Oceanography, the Naumann-Thienemann Medal of the International Limnological Society, the first Stockholm Water Prize, the Volvo Environment Prize (1998), and the Tyler Prize for Environmental Achievement (2006). In 2001 he was awarded the National Science and Engineering Research Council's Gerhard Herzberg Gold Medal for Science and Engineering, Canada's highest scientific honor. He is a Fellow of the Royal Society of Canada, the Royal Society of London, the Royal Swedish Academy of Engineering Sciences, and a member of the U. S. National Academy of Sciences. He has received ten honorary doctorates from Canadian and US universities and is an Officer in the Order of Canada.

Plenary Address:
Emerging Linkages Between Cultural Eutrophication and Harmful Algal Blooms

JoAnn M. Burkholder, Aquatic Ecology Laboratory, North Carolina State University, Raleigh, NC, USA

Introduction by Paul Harrison, Hong Kong University of Science & Technology, Hong Kong

Presentation: Cultural eutrophication historically was considered to stimulate harmful algae only if inorganic nutrient enrichment could be directly related to the development of high-biomass blooms. Within the past decade, our conceptual framework about eutrophication and harmful algae has dramatically shifted through increased appreciation of the complex responses of the species affected, and through recognition of the importance of chronic, indirect effects of nutrient over-enrichment. Many harmful algal species prefer organic nutrients; some are even obligate mixotrophs or heterotrophs. Increased occurrence or toxicity of other harmful algal species has been related to altered nutrient supply ratios over time (years). Chronic nutrient over-enrichment can indirectly stimulate harmful algae, for example by causing hypoxia/anoxia that eliminates filter-feeding shellfish and other grazers. Different strains within the same algal species also commonly show distinct responses to nutrients. Consideration for this intraspecific variation, both organic and inorganic nutrient forms, and chronic indirect effects of nutrient inputs will continue to advance understanding about when and where certain of these species will proliferate in increasingly nutrient-enriched coastal zones that are already sustaining higher incidence of harmful algal blooms.

Biography: Dr. JoAnn Burkholder is Professor of Aquatic Ecology, Director of the Center for Applied Aquatic Ecology at North Carolina State University, an Aldo Leopold Leadership Fellow, and an AAAS fellow. Her research over the past 30 years has emphasized the effects of cultural eutrophication on aquatic ecosystems. Dr. Burkholder has authored or co-authored more than 120 peer-reviewed publications. She has been invited to testify before the U.S. House and Senate as an expert on estuarine water quality, the ecology of harmful algal blooms, and aquatic resource impacts from harmful algae. She has held Governor-appointed policy positions on the North Carolina Coastal Futures Committee, and on the North Carolina Marine Fisheries Commission where she served as Chair of the Habitat and Water Quality Committee. In addition, she served as science advisor on a Governor-appointed commission in Maryland, where she received an *Admiral of the Chesapeake Award*. Dr. Burkholder has received numerous other awards such as the *Distinguished Service in Environmental Education Award* from the Environmental Educators of North Carolina, and the *Scientific Freedom and Responsibility Award* from the American Association for the Advancement of Science.

Friday, June 9, 2006



John Martin Award for a High Impact Paper in the Aquatic Sciences Talk:
In recognition for the paper Azam, F. T. Fenchel, J.G. Field, J.S. Gray, L.A. Meyer-Reil and F. Thingstad. 1983. The ecological role of water-column microbes in the sea. Marine Ecology Progress Series 10: 257-263.
The Emergence of Microbial Oceanography

Farooq Azam, Scripps Institution of Oceanography, La Jolla, CA, USA

Biography: Farooq Azam earned his M.Sc. in Chemistry from Punjab University in Pakistan in 1964, and his Ph.D. in Microbiology at the Czech Academy of Science in Prague in 1968. He did Postdoc studies at SUNY, Stony Brook (1968-1969) and, from there, went to Scripps Institution of Oceanography to continue his studies (1969-1973). He remained at Scripps as a researcher (1973-1988) and continues today as Distinguished Professor (1988-). He has received numerous awards; among them, the Rosenstiel Medal in Oceanographic Sciences in 1984, the G. Evelyn Hutchinson Medal from ASLO in 1995, and an Excellence in Research Award from UCSD in 1996. In 2004, he was elected Fellow in American Academy of Microbiology, presented Doctor of Philosophy, *honoris causa*, Kalmar University, Sweden, awarded the Tiedje Award, International Society for Microbial Ecology, and also the Outstanding Graduate Teaching Award at Scripps, UCSD.

As an ISI "Highly Cited Researcher" since 2002, Azam is widely published. His research interests include mechanisms in microbial structuring of marine ecosystems; biochemical bases of bacterial adaptations to ocean environments; ecosystem conservation; and ecology of pathogenic bacteria in the ocean.



**Plenary Address:
Challenges in Linking Aquatic,
Terrestrial and Atmospheric Systems**
Sally MacIntyre, Marine Science Institute, University of California - Santa Barbara, CA, USA

Introduction by Wayne Wurtsbaugh, Utah State University, Logan, UT, USA

Presentation: Challenges towards developing a predictive understanding of the role of atmospheric forcings on aquatic ecosystems include unraveling the dominant drivers, the scale over which they act, their effects on local weather patterns, and consequences for physical processes inducing transport. Local weather influences the persistence of warming periods and the frequency of wind and rain events that induce transfers of solutes, gases and particulates within and between systems. These events, with their differing frequency and magnitude, ultimately affect system productivity, rates of biogeochemical cycling, and diversity of organisms. Dimensional analysis, results of recent laboratory and field based process studies, and time series temperature and meteorological data enables us to discriminate dominant processes causing transport (e.g., non-linear internal waves; heat loss at the air-water interface; intrusions; currents) in water bodies with different morphometries and experiencing different climate regimes. Linking understandings of time scales and intensity of physical processes with time scales of changes in biogeochemistry will allow improved understanding of controls on ecosystem function.

Biography: Sally MacIntyre is Professor in the Department of Ecology, Evolution, and Marine Biology at University of California, Santa Barbara. She earned both her bachelor's and doctorate degrees from Duke University. She was awarded the USGS Predoctoral Fellowship (1976), the NSF National Needs Postdoctoral Fellowship (1979), the NRC Postdoctoral Fellowship (1979), and the Antarctic Service Medal (1991). She has participated in research cruises and expeditions on lakes in East and West Africa, the Sierra Nevada, Alaska, Japan, and within the Amazon floodplain, and to the Southern Ocean, Puget Sound, and coastal California waters.

MacIntyre is widely published and also serves as an associate editor for *Limnology and Oceanography: Methods* (2002-) and *JGR Biogeosciences* (2004-). In both 1999 and 2002, she was part of the site review team for NSF's NTL LTER, MCM LTER, KITES and EEGLE. From 2002-2004, she served on the ASLO Steering Committee charge by NSF to develop research initiatives for inland waters for the next decade. Beginning in 2002, and continuing through 2007, MacIntyre is an elected U.S. National Representative for the Int. Society of Limnology.

Her research interests include physical, biological and chemical coupling, in particular: effects of physical processes on ecology and physiology of aquatic organisms, nutrient fluxes and bacterial and primary productivity, formation and persistence of marine and lake snow, dispersion of pollutants, gas exchange in lakes and coastal waters.

MEETING SCHEDULE

Sunday

3:00 - 9:00 pm	Registration Opens
3:00 - 6:00 pm	Fun Run (sign up required)
4:00 - 9:00 pm	Poster Set-Up
6:30 - 9:00 pm	Welcome Mixer

Monday

8:00 - 9:15 am	Opening - Awards Talk & Plenary
9:15 - 10:45 am	Poster Session
10:45 am - 12:15 pm	Oral Sessions
12:00 - 5:00 pm	Exhibitor Set Up
12:15 - 2:00 pm	Lunch
2:00 - 3:30 pm	Oral Sessions
3:30 - 4:00 pm	Break
4:00 - 5:30 pm	Oral Sessions

Tuesday

8:00 - 9:15 am	Opening - Awards Talk & Plenary
9:15 - 10:45 am	Poster Session
10:45 am - 12:15 pm	Oral Sessions
12:15 - 2:00 pm	Lunch
2:00 - 3:30 pm	Oral Sessions
3:30 - 4:00 pm	Break
4:00 - 5:30 pm	Oral Sessions
5:30 - 7:00 pm	Reception/Mixer

Wednesday

8:00 - 9:15 am	Opening - Awards Talk & Plenary
9:15 - 9:45 am	Break
9:45 - 11:15 am	Oral Sessions
11:15 - 11:30 am	Break
11:30 am - 1:00 pm	Oral Sessions
6:00 - 9:00 pm	Volleyball Tourney (off site)

Thursday

8:00 - 9:15 am	Opening - Awards Talk & Plenary
9:15 - 10:45 am	Poster Session
10:45 am - 12:15 pm	Oral Sessions
12:15 - 2:00 pm	Lunch
2:00 - 3:30 pm	Oral Sessions
3:30 - 4:00 pm	Break
4:00 - 5:30 pm	Oral Sessions
5:30 - 7:00 pm	Reception/Mixer and Poster Session
7:00 - 9:00 pm	Poster & Exhibit Teardown

Friday

8:00 - 9:15 am	Opening - Awards Talk & Plenary
9:15 - 10:45 am	Oral Sessions
10:45 - 11:00 am	Break
11:00 am - 12:30 pm	Oral Sessions
12:30 - 2:00 pm	Lunch
2:00 - 3:30 pm	Oral Sessions

ABOUT VICTORIA

Evergreen mountains with lakes, reservoirs, and streams flowing into the Pacific Ocean make Victoria a perfect setting for the ASLO 2006 Summer Meeting.

Victoria offers a wealth of unique sights and attractions including tropical gardens under glass, a colorful undersea world, a giant telescope pointed at the stars, an Olympic-sized pool with a water slide, and places to wander along the harbor and shoreline. It's also called the Garden City because of its many brilliant and impeccably kept gardens. The most famous of these is the Butchart Gardens. Other favorites include Government House, Hatley Park, Beacon Hill Park, and Saxe Point Park.

The city's 150+ year history is carefully preserved in its many historic sites and heritage buildings. From the imposing facades of the Parliament Buildings and the newly restored St. Ann's Academy, to the gun batteries of a former military fort and the fairy-tale turrets of a century-old castle, exploring Victoria's historic treasures is a rewarding pastime at any time of the year.

Victoria has several exceptional museums rated among the very best in North America, including the Royal British Columbia Museum. Whether your interest is military, maritime, or aviation history, Native culture, pioneer stories, or marine mammals, Victoria's museums will capture your imagination with exciting exhibits that bring human and natural history to life.

While it is seasoned with history and full of gardens that bloom all year long, the real beauty of Victoria is that you can do a thousand interesting things here at any time of the year. This part of Canada is renowned for its year-round, pleasant climate. Located in the sub-Mediterranean zone, Victoria enjoys some of the most moderate weather in all of Canada. Average daily temperatures during the month of June will be around 67° F (19.3° C). Victoria has a very low humidity ratio. The average monthly rainfall during the summer is less than 2.5 cm (1 inch). Almost constant offshore breezes keep summer days from becoming too hot, yet summer evenings can cool off. Therefore, a sweater or a light jacket is recommended.

Comfortable walking shoes are a must. This resort style city is made for strolling, with downtown hotels, restaurants, shops and parks within close proximity to each other.

ABOUT THE CONFERENCE MEETING LOCATION

This meeting is carefully planned to provide an appropriate atmosphere and numerous opportunities to interact with colleagues and friends. All plenary sessions, exhibits, posters, and the topical and regular sessions will take place at the Victoria Conference Centre and the adjoining Fairmont Empress Hotel. Designated a landmark building in 1989, the Conference Centre is a truly state-of-the-art facility located right in the heart of Victoria, near the Inner Harbour and surrounded by the city's rich, turn-of-the-century architectural heritage. All of the conference hotels are within walking distance, as are more than 25 leisure attractions including the Royal B.C. Museum, the Crystal Garden, Thunderbird Park, Chinatown, Market Square, the Maritime Museum, and the Parliament Buildings. Just around the corner is the city's famous shopping area on Government Street, with turn-of-the-century stores containing items from antiques to the avant-garde, imported British and native West Coast woolens, and much more.

HOUSING INFORMATION

Housing arrangements for the 2006 Summer Meeting have been made at a variety of downtown hotels offering a range of room rates that will allow you to select the one that best fits your needs. Room rates range from \$117.00 CDN to \$206.00 CDN per night (approximately \$99.00/\$174.00 USD). Hotel reservation information is included in this brochure with complete room rate and reservation instructions listed for each hotel.

Additionally, low cost student housing-type rooms are available at the University of Victoria with rates ranging from \$38.95 CDN (single)/\$47.90 CDN (double), plus applicable taxes, to a four person housekeeping unit at a rate of \$153.85 CDN, plus taxes.

With the exception of the rooms at the University of Victoria, all hotels are within walking distance to the meeting facilities. For those who choose to stay at the university, the City of Victoria has transit service daily from the University of Victoria to downtown Victoria and back. (See the Local City Transportation section in this brochure for more information on rates, times, and routes.)

ORGANIZING COMMITTEE

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Helen Schneider Lemay, Business Manager
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MARK YOUR CALENDAR! UPCOMING MEETINGS

ASLO 2007 Aquatic Sciences Meeting
February 4-9, 2007
Santa Fe, New Mexico

2008 ASLO-AGU-TOS Ocean Sciences Meeting
March 2-7, 2008
Orlando, Florida

ASLO 2008 Summer Meeting
June 8-13, 2008
St. Johns, Newfoundland, Canada

ASLO 2009 Aquatic Sciences Meeting
January 25-30, 2009
Nice, France

COMMERCIAL AND NONPROFIT EXHIBITORS

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NOAA National Centers for Coastal Ocean Science

SSMC 4, Rm 8203 N/SCI
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 Web: <http://www.bbe.us>

University of California Press

Ramon Smith
 2120 Berkeley Way
 Berkeley, CA 94704-1012
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 Email: ramon.smith@ucpress.edu
 Web: <http://www.ucpress.edu>

Sponsorship Opportunities

Opportunities are available for sponsorship of coffee breaks, receptions, and other functions throughout the meeting, please contact the Exhibits/Sponsorship Coordinator at the ASLO Business Office, 800-929-ASLO or 254-399-9635 if you would like more information.

INFORMANTION FOR STUDENTS

Student Activities

For up-to-date information on all planned student events, housing recommendations, room sharing opportunities and the Career Link Program, please check the ASLO conference web site at <http://www.aslo.org> and click on Student Information.

Student Poster Awards

ASLO will present several awards for the most outstanding posters presented by student members. Posters in all areas of aquatic science are appropriate, including theory, modeling, and laboratory or field experimentation. To be eligible, the student must be an ASLO member and first author on research that has not been presented previously at ASLO or other scientific meetings. Presentations will be judged on the basis of innovation/scientific insight, quality of experimental design/methods, and clarity/effectiveness of presentation. All posters submitted by ASLO students will be considered for the student poster awards. There is no need to apply. Additional student awards will be given by the Southern Association of Marine Laboratories (SAML).

Career Bulletin Board

There will be a Careers Bulletin Board on the second level of the Victoria Conference Centre. Prospective employers and supervisors are invited to post job announcements free of charge at the conference. Likewise, students are invited to post one-page resumes for viewing.

Student Meeting

The Student Meeting this year will take place during the lunch break on Monday in Salon A of the Carson Ballroom, Level Two of the Victoria Conference Centre. This meeting is open to all students and we encourage you to attend. A light lunch will be served and you will have the opportunity to meet other students involved in ASLO. The format of this meeting will be an informal two-way discussion moderated by the Student Representatives, Letise Houser and Alex Poulain.

Student Forums

Several Student Forums will be taking place at the 2006 Summer Meeting. The discussion forums will act as "ice-breakers" for students who may otherwise not approach more senior/established researchers during ASLO conferences. The emphasis should be on the informal nature of the forums, and participation of all parties in the discussion is highly encouraged. The Student Forums will take place on Tuesday during the lunch break and a light lunch will be provided. More information will be given out to the students at registration. See the handout available at registration for topics and locations.

CONFERENCE EVENTS

Registration/Information Desk

Dates: Sunday, June 4, 2006: 3:00-9:00 pm
 Monday, Tuesday, & Thursday, June 5, 6, & 8, 2006:
 7:00 am-5:00 pm
 Wednesday, June 7, 2006: 7:00am-1:00pm
 Friday, June 9, 2006: 7:00am-4:00pm

Location: Registration Area, Level One,
 Victoria Conference Centre

Opening Welcome Mixer Reception

Date: Sunday, June 4, 2006
 Time: 6:30-9:00 pm
 Location: Crystal Ballroom & Palm Court,
 Fairmont Empress Hotel

An opening welcome mixer reception will be held on Sunday, June 4, 2006, at the Empress Hotel in the Empress Ballroom, Level One of the Empress Hotel, just outside the conference centre. In addition to the reception, the conference registration area will be open at the nearby Victoria Conference Centre so that you can check-in for the meeting at this time.

Plenary and Award Recipient Presentations

Dates: Monday, June 5, through Friday, June 9, 2006, 8:00-9:15am
 Location: Carson Ballroom, Level Two,
 Victoria Conference Centre

Plenary and Award Recipient lectures are planned each morning, Monday through Friday in the Carson Ballroom, Level Two of the Victoria Conference Centre. Extended coffee breaks will follow these presentations to allow attendees time to discuss the points of the address further.

ASLO Business Meeting

Date: Monday, June 5, 2006, 5:30-6:30pm
 Location: Carson Ballroom, Salon A,
 Victoria Conference Centre

ASLO's annual business meeting is scheduled for Monday evening at the Victoria Conference Centre, Salon A of the Carson Ballroom, Level Two. All ASLO members and meeting participants are encouraged to attend. Light refreshments will be served.

Presentations

Oral talks, poster sessions and receptions will take place in the Victoria Conference Centre and/or the adjoining Crystal Ballroom of the Fairmont Empress Hotel throughout the week.

Coffee Breaks

Complimentary coffee breaks will be held during various breaks in the conference sessions. Please consult the meeting schedule for the times and locations. There will not be coffee service available prior to the Award and Plenary talks.

ADDITIONAL ACTIVITIES

Two fun new activities are being organized by conference committee member Wayne Wurtsbaugh, with help from local University of Victoria students, Chris Lowe, Jennifer Chow, Anita Narwani, and Jesse Sinclair.

Fun Run/Walk

Get energized and sign up for the ASLO run or walk Sunday afternoon with fun run in downtown Victoria! Enjoy the beautiful harbour area plus part of your fee will go to a local charity, The Habitat Acquisition Trust, a local conservation group. The event begins at the Laurel Point Inn (680 Montreal Street, Victoria) at 3:00 PM, Sunday, June 4, 2006. For walkers, there will be a 3K and for the more energetic runners, a 5K along a walking path bordering the inner harbor and coast. Cost of the run is \$20.00 USD. Want to save the memory...add a t-shirt for \$15.00 USD. Or skip the run and just buy the t-shirt. Refreshments included at the end of the race.

Volleyball

Get a team of six together for an afternoon of fun playing volleyball at the Stickey Wicket (919 Douglas Street, Victoria). It's ASLO's first volleyball tournament and will take place late Wednesday afternoon! You must sign up as a team of six and pay the entry fee of \$25.00 USD per team. Cross-institutional teams are encouraged! Food and beverage are on your own. Due to logistical constraints, only the first eight teams signing up can be accepted. Students are encouraged to come by, cheer for your favorite team, and use this opportunity to get to know other students.

SCUBA

Maggie Squires (squires.maggie@gmail.com) has agreed to set up a diving trip on Saturday, June 3rd. This trip would include an overnight stay Friday night and dives off Bowen Island on Saturday. Please contact Maggie directly if you are interested.

INSTRUCTIONS FOR ORAL PRESENTERS, POSTER PRESENTERS, AND SESSION CHAIRS

Abstracts

Abstracts for this meeting will be posted and archived on the ASLO web site (<http://www.aslo.org>), and a complete book of abstracts will be distributed to registered attendees at the meeting.

Oral Presentations

Talks will be scheduled in 15-minute time slots. We strongly encourage a presentation of no more than 12 minutes to allow three minutes for discussion and to entertain questions from those in the audience. In special cases, and at the discretion of the session organizers, invited presenters may be given two consecutive slots to provide a tutorial talk at the beginning of the session. The time limit will be strictly enforced to facilitate movement between sessions.

A PowerPoint projector, computer, and a screen will be set up in each room. To minimize any compatibility problems, please assure that your presentation design does not exceed XGA (1024 x 768). Computer projection equipment for electronic presentations will be available in each oral session meeting room.

All files that are used in the PowerPoint Presentation (pictures, video clips, audio clips) should be saved in a folder, along with the PowerPoint Presentation itself. If you plan to do a PowerPoint presentation, it is highly recommended that you have a backup of your presentation on overhead transparencies.

Additional Equipment Needs

Rental of a VCR, monitor, slide projector, audio systems, provision of extra power outlets, extra tables, stands, etc. can be handled for an additional cost. Please contact the audio-visual company direct if you plan to use additional equipment so appropriate arrangements can be made. The contact information is: Sharp Audio/Visual, located at the Victoria Conference Center, phone: 250-361-1095, e-mail: bryanj@sharpsav.com. Costs for additional equipment will be billed to the abstract's presenting author.

Presentation Upload Information

Prior to the conference you may upload your presentation:

- 1) Open your web browser and enter: <http://www.sharpsav.com/pages/rentals04.htm>
- 2) Click on the 'Victoria' button at the bottom of the page, or go to http://www.loadingdock.ca/l_d_upload.asp?rec=6917&action=up&aliasid=8
- 3) Follow the online instructions:
 - a) choose how many files will be included with this form
 - b) type in your email address
 - c) give a description of your file, name, etc...
 - d) choose the location of your file
 - e) click on the box next to 'Darien Martay'
 - f) click on the send button

Depending on the size of the files, and your Internet connection, it may take a few moments to a few minutes. Please be patient.

Presentation Downloading On-Site

Please bring your document via CD/DVD/USB, or floppy disk. The presentation should have your name, the room and the time that you will be presenting, and the name of the Presentation. This way we can upload/download their presentation to the room and have all the sessions ready for the morning and afternoon. All presentations are due to the Presentation Room, Langford Room on Level Two of the Victoria Conference Centre no later than the day prior to your presentation. Hours are:

Sunday	1:00-9:00pm
Monday, Tuesday & Thursday	7:00am-7:00pm
Wednesday	7:00am-1:00pm
Friday	7:00am-3:00pm

Poster Presentations

Posters will be up all week for viewing with designated days and times for poster presentations.

Poster space will be 46 1/2 inches high by 47 1/4 inches wide, in size. Size requirements must be strictly adhered to so they fit within the space assigned to them. If your poster exceeds these specifications, it may be subject to removal by the organizing committee. Pushpins will be provided to place your poster on the poster boards.

Posters will be presented depending upon the poster session to which you are assigned. You will be expected to be available to present your poster during your designated poster session. Poster presenters are asked to adhere to designated set-up and tear-down instructions and times.

Important note regarding poster presentations: The convention decorator may discard posters if the presenting author does not dismantle them according to tear-down instructions and times.

Speaker Ready Room

A speaker ready room will be available for you to preview or practice your presentation. It will be open Sunday, June 4 from 1:00-9:00pm, Monday, Tuesday & Thursday from 7:00am-7:00pm, Wednesday from 7:00am-1:00pm and Friday from 7:00am-3:00pm in the Metchosin Room, Level Two of the Victoria Conference Centre.

E-mail Room

A limited number of email terminals will be available at the meeting. There is no charge for the use of the email room but we ask that you limit your time to 10 minutes per day. The email room is located in the View Royal Room, Level Two, Victoria Conference Centre and is open Sunday, June 4 from 1:00-9:00pm, Monday, Tuesday, Thursday and Friday, from 7:00am-7:00pm, Wednesday from 7:00am-1:00pm and Friday from 7:00am-3:00pm.

Wireless Access

There will be two "Hot Spot" areas at the Victoria Conference Centre, one on each level for complimentary wireless access. Up to ten people per location will be able to log in at any one time and you will need to obtain a code from the technician to access the Internet.

You may also purchase wireless Internet service to use at the Victoria Conference Centre. The cost for our Internet service for individuals will be \$14.95 per day, for this event. A login screen will appear when you activate your web browser. An access code will be needed to gain access to the Internet. Access Code Cards will be available at the Sharp's Audio Visual Business Centre located in the Victoria Conference Centre, main floor. Cash or Credit Cards are accepted.

Message Board

There will be a message board located on Level Two of the Victoria Conference Centre where you may post or check for messages throughout the conference.

Coat Rack

A coat rack will be available on Level Two of the Victoria Conference Centre. Please be aware that it is not secure and all materials left there are done so at your own risk.

THINGS TO DO IN VICTORIA

The activities that follow will allow you to enjoy all the wonder found in this part of the world. If you would like to take part in one of the activities listed below, we have provided the appropriate contact information so that you can sign up for these activities on your own. Reservations are on an individual basis and cannot be made by using the conference registration form or

the web site. Prices are stated in Canadian dollars. Both prices and times shown are subject to change. Therefore you must call the appropriate contact to make your reservations and to confirm rates and times.

Additional information may be gained by visiting the web site of the activity sponsor:

- **Winchester Cellars and the Barking Dog Winery** (<http://www.winchestercellars.com>) are new wineries located on Old West Saanich Road (5 minutes away from Butchart Gardens). Barking Dog Winery is Vancouver Island's only certified organic vineyard and you will truly be greeted by a barking dog - George, the yellow Labrador. They are open for tours and tastings (accommodating groups up to 12) on weekends 11-5 pm and by appointment during the week.
- **Fresh Air Tours Ltd.** (<http://www.freshairtours.com>) is a new member of Tourism Victoria offering scenic sightseeing and cycling tours. Tour options include WInery tours, Butchart Garden Tours, Salt Spring Market Tours, and the waterslides at All Fun Recreation Park. Fresh Air Tours can accommodate up to 14 people and is flexible to customize tours for groups and weddings.
- With a famous location in Toronto, owners Andre Rosenbaum and Kelly St. John, have brought their unique style and cuisine to the hip-diners of Victoria. The lunch, dinner, and Sunday brunch menus offer interesting combinations of Lao-Thai and pan-global cuisine to West Coast cutting edge. **The Queen Mother Waterside Café** (<http://www.qmwaterside.ca>) can accommodate groups up to 150 people and boasts a beautifully decorated 80 person patio right on the harbour.
- **Crush Wine Tours** (<http://www.crushwinetours.com>) offers three package wine tours, which include the Cowichan Valley Day Trip, the Peninsula Afternoon Trip, and the Supper Club Evening Trip. Groups up to 46 can also arrange private and customized tour options and transport can be arranged from the group's hotel or arranged location. Southern Vancouver Island is a great place to grow cool climate grapes and taste unusual varieties. Grape varieties grown here include Pinot Noir, Ortega, and Pinot Gris.

Networking

Along with the planned events and activities, the conference organizers encourage friends and colleagues to come together to continue conversations and networking following the sessions each day. Also, the city of Victoria lends itself to these types of informal gatherings due to the many restaurants, parks, and pubs located throughout. The ASLO booth in the exhibit area and the message boards located nearby are excellent places to leave messages for your colleagues while you are attending the meeting.

Other Activities

This spectacular city with its coastal, mountain, and park settings offers a wide variety of outdoor activities. Victoria is a safe, multi-cultural city full of charm, character, and vitality. With everything that the city has to offer, it's no surprise Victoria has been voted one of the top destinations in the world.

Although the meeting will take much of your time, we do not want you to miss out on any of the history, culture, beauty, museums, and other places of interest that make Victoria unique. Victoria is a very cosmopolitan city that provides a small town atmosphere.

We encourage you to visit Tourism Victoria's downtown Visitor Information Center on the Inner Harbour for free maps, brochures and information on attractions, restaurants, services, tours, cultural activities and more. The Information Center is a convenient outlet for transportation and sightseeing. Look for the heritage art deco tower at the northeast corner of the waterfront causeway.

If you would like details before you arrive in Victoria, consult the Tourism Victoria web site at <http://www.tourismvictoria.com> for complete and up-to-date information that will help you plan your trip. You also can contact Tourism Victoria Information Center at 812 Wharf Street, Victoria, British Columbia, Canada V8W 1T3; 250-953-2033 Phone, 250-382-6539 Fax or info@tourismvictoria.com E-mail.

Following is a listing of self-guided tours that you may want to try. The Tourism Victoria Information Center will have maps and more details.

- Walking Tours
- Museums
- Heritage Home Tours
- Afternoon Tea
- Hiking Tours
- Bird Watching Tours
- Whale Watching and Boat Tours

REGISTRATION INFORMATION

Online registration is preferred and highly recommended. You can register electronically on the conference web site (<http://www.aslo.org/victoria2006>). Electronic registrations must include complete credit card information.

Every attempt has been made to allow secure transmissions of your credit card information and transaction, but ASLO assumes no liability for your credit card information when it is released electronically. All credit card transactions will be processed through the conference web site. Transactions are protected and encrypted using a secure socket layer (SSL) certificate provided by Verisign, Inc. SSL technology is the industry-standard method for protecting web communications. The SSL security protocol provides data encryption, server authentication, message integrity, and optional client authentication for a TCP/IP (internet) connection. Credit card verification and debit services will be provided by Authorize.net, a leading provider of Internet-based transaction services with thousands of online and traditional business customers around the world.

If registration by electronic means is not possible, please complete the registration form included in this book and send to the address listed below with payment or charge card information. Please return mailed-in registrations to:

ASLO Business Office
5400 Bosque Boulevard, Suite 680
Waco, Texas 76710-4446

Please make checks payable to: ASLO (All payments must be in U.S. dollars drawn on a U.S. bank.)

Registrations complete with purchase order, or credit card information not accompanying an abstract submission, can be faxed to: 254-776-3767.

The full registration fee includes admission to all sessions, exhibits, evening sessions (unless otherwise specified), Sunday welcome reception and poster receptions (Tuesday and Thursday), coffee breaks, book of abstracts, and the program book (available to all registrants prior to the conference). Optional events such as any special organized activities are not included.

Substantial savings apply if the payment and registration form are received on or before May 5, 2006.

Substitutions and Cancellations

We understand that occasionally other responsibilities and personal obligations prevent you from attending a program for which you have registered. If you find that you will not be able to attend the ASLO meeting, we encourage you to send a substitute. Substitutions can be made at any time, even on-site at the conference.

If you find it necessary to cancel after you have already paid, we can refund your conference fee (less an \$80 USD processing fee) if we receive notice in writing on or *before May 5, 2006*. Due to the limited number of enrollments available, registrants who cancel on or after May 6, 2006, will be not be eligible for any part of a refund.

To provide cancellation notice and request a refund, please send a letter to: Helen Schneider Lemay, ASLO Business Office, 5400 Bosque Boulevard, Suite 680, Waco, Texas 76710-4446, fax your request to 254-776-3767, or via e-mail to business@aslo.org.

Registration Fees

Duplicate registrations will be charged a non-refundable processing fee of \$60 USD to cover the costs associated with processing. If submitting electronically, DO NOT submit mailed-in hard copies as well.

Fees are stated in U.S. dollars and must be paid in U.S. dollars.

- ASLO or Co-sponsoring Organization Members: \$350.00 USD on or before May 5, 2006 (\$410.00 USD after May 5, 2006)
- Non-Members: \$450.00 USD by May 5, 2006 (\$510.00 USD after May 5, 2006)
- ASLO or Co-sponsoring Organization Student Members: \$250.00 USD by May 5, 2006 (\$310.00 USD after May 5, 2006)
- Non-Member Students: \$350.00 USD by May 5, 2006 (\$410.00 USD after May 5, 2006)
- One-day registrations: \$150.00 USD by May 5, 2006 (\$210.00 USD after May 5, 2006)
- Spouse/Guest: \$100.00 USD
(Spouse and guest fees cover only the conference social events such as the Sunday welcome reception, coffee services, and the poster receptions (Tuesday and Thursday). Optional events such as any special activities are not included. However, spouses and guests are encouraged to register for the special activities. Spouses and guests cannot be admitted to the sessions without paying the appropriate full registration fee.)

A late fee of \$60 USD will be added to all registrations received after May 5, 2006.

Fees to attend ASLO's 2006 Summer Meeting must be paid in advance. Due to the limited numbers, registrations are not considered guaranteed until a check, money order, purchase order, or charge card information is received. All fax registrations must include complete credit card information, including number, expiration date, and cardholder name. VISA, MasterCard, and American Express are accepted. Organizations can be billed only if a purchase order accompanies the registration by fax or by mail.

Registration and any other fees listed on the conference registration form are payable in U.S. currency only. All fees in Victoria, such as hotel and individual activities as shown will be paid in Canadian currency.

If desired, confirmation will be sent to attendees upon receipt of each completed and paid registration.

Conference Check-In

Registration prior to the meeting is strongly encouraged. By doing so, you will greatly reduce the amount of time necessary to complete the on-site registration process and pick up your meeting materials.

Meeting materials, name badges, and registration packets can be picked up on Sunday, June 4, 2006, at the Victoria Conference Centre from 3:00-9:00pm. Registration will be opened each day at the Conference Centre, from Monday, June 10, through Friday, June 14, beginning at 7:00am each day and closing following the conclusion of the conferences sessions.

Name badges will be included in your registration packet and should be worn at throughout the meeting.

Maps showing the various session and meeting room locations will be provided in the information you will receive on-site when you check-in for the meeting.

Special Needs

If you have a disability or limitation that may require special consideration in order to fully participate, please contact the meeting planning organization to see how we can accommodate your needs. Call 800-929-3756 (USA, Canada & Caribbean) or 254-399-9635 (All other countries) or contact via e-mail at business@aslo.org.

Childcare

Arrangements for childcare can be made through "Kid's Club." Phone: 250-881-1223. A minimum of eight (8) will be required for a group function with a room assigned at either the Victoria Conference Centre or a close in hotel. Parents can sign up in advance of the meeting or on the first day, June 5, 2006. Please note that any arrangements made represent a contractual agreement between the individual and the childcare agency/provider. ASLO assumes no responsibility for the services rendered.

LOCAL INFORMATION & TRAVEL

Canadian currency is in dollars and cents. One dollar and two dollar denominations are coins, while all other dollar denominations are paper currency. U.S. currency is accepted at most shops and restaurants; exchange rates vary. Major credit cards are accepted at most locations. Traveler's checks are encouraged and are the safest and most convenient way to carry money.

Cash machines with 24-hour access to networks such as Plus, Cirrus, Interac and Visa are available at many convenient locations in Victoria. Banks generally are open from 9:30 a.m. to 4:00 p.m., Monday through Friday and often on Saturdays.

U.S. citizens and residents should carry either a birth or baptismal certificate and at least one ID card with photo or a passport. A current U.S. driver's license is NOT accepted as proof of citizenship. Naturalized citizens should be able to produce documents proving citizenship, such as a green card.

Visitors from countries other than the United States must have a valid passport and may require other documentation such as visas or alien cards permitting entry.

All persons entering Canada must fill out a declaration for Canada Customs.

Wearing apparel and personal effects are admitted free of duty. Persons aged 19 and over may bring into Canada up to 50 cigars, 200 cigarettes and 200 grams (8 oz.) of tobacco. Persons aged 19 and over may bring into Canada 1.14 litres (40 oz.) of spirits or wine or, in lieu, 8.5 litres (288 oz.) of beer or ale.

The Federal Goods and Services Tax (GST) is a value-added tax of 7%, applied to most purchased goods and services regardless of whether the buyer is a resident of Canada or a visitor to Canada. Visitors living outside of Canada can obtain a rebate on most goods taken out of Canada and for the GST on accommodation if their stay is less than 30 days. An instant GST rebate of up to \$500 can be obtained by submitting receipts and a one-page form to participating duty-free shops. Alternatively, visitors may file for a GST rebate once they return home; they will receive reimbursement by check.

Forms are available at Tourism Victoria's Visitor Information Center. A provincial sales tax (PST) of 7% applies to all retail purchases with the exception of liquor, which is taxed at 10%. For more information or assistance, call 920-432-5608 (outside Canada) or 800-668-4748 (inside Canada) or write to Visitor Rebate Program, Summerside Tax Centre, Revenue Canada, Summerside, PE, C1N 6C6, Canada.

Getting to Victoria

There are several ways to get to Victoria, B.C., with numerous inbound and outbound flights from both Vancouver and Seattle via Horizon Air, Air Canada and Pacific Coastal. Most major carriers can ticket you from anywhere in the world. Connections are also available through Toronto and Calgary, Canada.

There are also floatplanes via Kenmore Air, Harbour Air, and Westcoast Air with several flights each day.

Helijet offers service via helicopter and there is ferry service via the Victoria Clipper out of Seattle and BC Ferries out of Vancouver.

Below are websites for contact but be sure to book early. You can also get current travel information from:
<http://www.tourismvictoria.com/Content/EN/498.asp>

- Horizon Air (<http://www.horizonair.com>)
- Kenmore Air (<http://www.kenmoreair.com>)
- Victoria Clipper (<http://www.victoriaclipper.com>)
- Air Canada (<http://www.aircanada.com>)
- Pacific Coastal (<http://www.pacific-coastal.com>)

- Helijet (<http://www.helijet.com>)
- Harbour Air (<http://www.harbour-air.com>)
- Westcoast Air (<http://www.westcoastair.com>)
- B C Ferries (<http://www.bcferries.bc.ca>)

Located 30 driving minutes from downtown Victoria and five minutes from Sidney, Victoria International Airport serves daily flights from Vancouver International Airport and Seattle-Tacoma Airport, as well as flights from points throughout Canada and the U.S. Both Air Canada and United Airlines are providing special rates for ASLO meeting attendees.

- **Air Canada** has been appointed as an official airline of the ASLO 2006 Summer Meeting in Victoria. Simply contact Air Canada's North American toll-free number at 800-361-7585 or their local number at 514-393-9494. You also can call your travel agent. To take advantage of special discounted airfares, please indicate convention number CV060231 when making your reservations. By ensuring that the convention number appears on your ticket, you will be supporting ASLO.
- **United Airlines** is offering special meeting fares when attendees of American Society of Limnology and Oceanography use the special Meeting Desk to book their reservations. Book early and take advantage of the promotional fares that give you the greatest savings!

International Travelers: If you or your travel agent call United's toll-free number (800-521-4041) to book your reservations, you will receive a 10% discount off the lowest applicable discount fare, excluding First Class, or a 15% discount off full coach fares, with no advance purchase. An additional 5% discount will apply when tickets are purchased at least 60 days in advance of your travel.

Domestic Travelers: Earn a 2% discount off the lowest applicable fare. By purchasing your ticket at least 30 days in advance of your scheduled travel you will receive an additional 5% discount.

Simply call (or have your travel agent call) 800-521-4041 and refer to Meeting ID Number **538TK**. Mileage Plus members receive full credit for all miles flown to this meeting. Tickets can be mailed by United or picked up at your local travel agency or United Airlines ticket office. You or your travel agent should call early, as seats may be limited.

From the Airport

AKAL Airport Express Bus-Link Ltd. is offering special discounts to ASLO 2006 Summer Meeting participants. The Airporter provides daily ½-hour service to and from the Victoria International Airport to all hotels in Greater Victoria. Service is also available to the University of Victoria. The Airporter is available to cover all the incoming and outgoing flights from Victoria International Airport.

A round-trip shuttle rate of \$29 CDN can be secured simply by stating that you are in Victoria to attend the ASLO 2006 Summer Meeting. A one-way rate of \$15 CDN also applies.

The shuttle bus and AKAL Airporter information booth are located right outside the arrival doors by the baggage claim area.

Upon arrival, please check with the shuttle driver by the curbside, and he will guide you regarding your schedule, pick up and drop off locations. Reservations are not necessary for arrivals, but they are required for return trips to the airport from the conference hotels. Please call them no later than the night before to make your reservation for your return shuttle to the airport from your hotel.

You can book a reservation by calling 250-386-2525 or toll-free (U.S. and Canada) 877-386-2525 between the hours of 4:00 a.m. and 11:00 p.m. (Pacific)

Ferry Information

It's a beautiful journey aboard a Washington State Ferry as your car ferry sails from Anacortes through the San Juan Islands to Sidney, B.C. on Vancouver Island. Visitors can enjoy Butchart Gardens, with its hundreds of trees and masses of colorful flowers and shrubs. Take double decker buses on a sight-seeing trip right from the ferry dock. Sidney is just 17 miles from Victoria, a one-of-a-kind city, capital of British Columbia and a blend of English and Canadian architecture, flavor and charm. This 2-3 hour cruise provides beautiful scenery, picture opportunities and views of island living. Please see http://www.wsdot.wa.gov/ferries/visitors_center/index.cfm?fuseaction=travel_victoria for more information including schedule and ticket prices.

Car Rental

While all regular meeting events are within easy walking distance to the downtown area and the conference hotels, renting a car would be an excellent idea if you are planning to take some side trips while you are in Victoria.

Hertz has been appointed the official car rental company for the American Society of Limnology and Oceanography in Victoria. For reservations, call Hertz at 800-654-3001 in the U.S.: 800-263-0600 in Canada: 416-620-9620 in Toronto, or outside of these areas at 405-749-4434. Refer to CV#03NU0001. Or you may contact your travel agent or you may book online at: www.hertz.com

Public parking is available in the Conference Centre for a daily fee of \$12.00 CDN. This parking area is located beneath the Conference Centre and is accessible by Douglas Street.

HOUSING

ASLO has selected nine (9) hotels, all within walking distance of the Victoria Conference Centre, which will host the ASLO meeting delegates. Each has its own unique charm and is located close to the breath taking inner harbor, many restaurants, shops and local pubs. These hotels provide a range of sleeping room rates. (Refer to the map of downtown Victoria for the location of these hotels.) Please make your hotel reservations by contacting the hotel directly via phone, fax or e-mail and specify that you are entitled to the "**ASLO Room Block**" rate. The cut-off date for each hotel is shown on the hotel listing. It is important that you make your reservations early since June is the high season in Victoria and availability and rates will be affected after the cut-off date. We hope you will support these hotels.

Please note that room prices are stated in Canadian dollars.

The Fairmont Empress (SOLD OUT)

721 Government Street
 Victoria, BC V8W 1W5
 Phone: 250-384-8111 or 800-441-1414, Fax: 250-389-2747
 Standard Rooms: \$206.00 CDN (single/double)
 Reservation Cut-off Date: May 4, 2006

Adjoined to the Victoria Conference Centre, The Fairmont Empress provides an ambiance of old world charm and a tradition of hospitality and service dating back to 1908. With 477 beautifully appointed guestrooms, including such amenities as lush terry robes in the room, in-room coffee makers with complimentary coffee and tea, on-demand in-room movies and video games, iron and ironing board and mini-bar. Situated on the edge of Victoria's Inner Harbour, The Fairmont Empress, as been fully restored to its timeless elegance of a grand heritage hotel and reflects the stately beauty of the Victorian Era. Other features that uniquely identify The Fairmont Empress are The Empress Dining Room offering the sophistication of fine dining, world-famous afternoon tea, the Colonial setting of The Bengal Lounge, known for their famous curry and live jazz on weekends, a full European spa, as well as complimentary use of our indoor pool and fitness center facilities. For more information, please visit <http://www.fairmont.com/empress>. Use promo code: **GRASLI** when making your reservations. Parking is \$25.00 per day. Hi-speed internet service and wireless are available in the guest rooms at a cost of \$14.95 per day. Dial up is also available at the current long distance rate.

Royal Scot Suite Hotel

425 Quebec St.
 Victoria BC V8V 1W7
 Phone: 250-388-5463, Fax: 250-388-5452
 Standard Room: \$162 CDN (single/double)
 Reservation Cut-off Date: May 15, 2006

The Royal Scot Suite Hotel is located in the beautiful inner harbor, and a short walk to downtown. All suites are equipped with a full kitchen, microwave, fridge, stove, dishes/cutlery, tea/coffee. We offer free parking, free local telephone calls, free local newspaper, free parking, and shuttle service to the downtown area, including the Victoria Conference center. Jonathan's Restaurant is open for breakfast, lunch, dinner, lounge and patio dining. To make a reservation for your 2006 conference, please call toll free 800-663-7515 or email royalscot@royalscot.com, fax 250-388-5452, mail 425 Quebec St. Victoria BC V8V 1W7. Please visit our website <http://www.royalscot.com>

Chateau Victoria Hotel and Suites

740 Burdett Street
 Victoria, BC V8W 1B2
 Phone: 800-663-5891, Fax: 250-380-1950
 Standard Room: \$117.00 CDN, (single/double), Suite: \$152 CDN, (single/double)
 Reservation Cut-off Date: May 4, 2006

Affordable elegance right downtown. A short three minute walk to the conference centre and steps to the inner harbour, shops and attractions. 177 guestrooms and suites. Indoor pool, whirlpool, exercise room and in-room spa services. Vista 18 Restaurant - Martini & Wine bar on the 18th floor open daily from 6:30 am until midnight. Victoria Jane's lobby lounge open daily from 11 am until 11 pm. Complimentary parking, local calls and high speed internet access.

Laurel Point Inn

680 Montreal Street
 Victoria, BC V8V 1Z8
 Phone: 800-663-7667/250-386-8721, Fax: 250-386-9547
 Standard Rooms: \$199.00 CDN (single/double)
 Reservation Cut-off Date: May 4, 2006

The Laurel Point Inn is a downtown waterfront hotel on Victoria's Inner Harbour. Our welcome mat is within easy walking distance of the Parliament Buildings, conference center, Royal BC Museum, Beacon Hill Park, downtown shopping, and entertainment venues. The hotel features 135 harbour view rooms and 65 ultra-luxurious suites, with balconies and spectacular water views. All guestrooms contain cozy down duvets, complimentary in-room coffee and tea, a hairdryer, CD player mini stereos, free local, toll-free and calling card calls as well as complimentary internet and parking. Hotel amenities include two restaurants (one seasonal), cozy piano lounge, oceanside patio, lush Japanese garden, indoor pool, Jacuzzi, business centre, gift shop, air-conditioning and 24 hour room service. Methods of reservation: phone, fax or e-mail: reservations@laurelpoinit.com. Please quote reservation #80427.

Hotel Grand Pacific

450 Quebec Street
 Victoria, BC V8V 1W5
 Phone: 800-663-7550, Fax: 250-380-4474.
 Standard Rooms: \$189.00 CDN (single/double).
 Reservation Cut-off Date: May 15, 2006

The Hotel Grand Pacific is Victoria's only five-star luxury hotel. Located on the Inner Harbour, the hotel is two blocks from the Victoria Conference Centre. There is complimentary high-speed Internet access from all guest rooms. Fine dining at the Pacific Restaurant and The Mark dining rooms - specializing in Pacific Northwestern cuisine. Complete training and fitness centre at the Grand Pacific Athletic Club with 25-metre indoor ozonated lap pool, steam room, sauna & Jacuzzi. Underground parking is available for \$8.00 per night or \$16.00 per night for valet service. Reservations can be made by phone or fax or via e-mail at: reserve@hotelandgpacific.com.

Harbour Towers Hotel

345 Quebec Street
 Victoria, BC V8V 1W4
 Phone 250-385-2405 or 800-663-5896, Fax 250-360-2313
 Standard Rooms: \$129.00 CDN (single/double), 1-Bedroom Suite: \$149.00 CDN (single/double), and 2-Bedroom Suite: \$169.00 CDN (single/double)
 Reservation Cut-off Date: May 25, 2006

The Harbour Towers Hotel & Suites is a 12 story, 4 Star, 3 Diamond property just minutes away from the Victoria Conference Center. From our larger than average Standard rooms, to One or Two Bedroom Suites with kitchens, all the way up to our fabulous two-level Penthouse Suites (some with 2 fireplaces and jacuzzi), you are sure to be completely satisfied. Some of the finest Pacific Northwest food in Victoria can be found in Impressions Restaurant & Lounge on the lobby level and is open for breakfast, lunch and dinner. We also boast a fitness centre that is fully equipped with cardio machines, free weights, and Apex fitness machines as well as a soothing experience at Features Penthouse Day Spa. Delegates of the ASLO conference are entitled to complimentary underground parking. We have

wireless internet available in all public areas as well as ADSL in all hotel rooms at a nominal fee. Please call our toll free line at 800-663-5896 to reserve your room. www.harbourtowers.com

The Magnolia Hotel and Spa

625 Courtney Street
Victoria, BC V8W 1B8
Phone: 877-624-6654, 250-381-0999, Fax: 250-381-0988
Standard Rooms: \$169.00 CDN (single/double)
Reservation Cut-off Date: May 15, 2006

Only two blocks from the Victoria Conference Centre, The Magnolia Hotel & Spa is centrally located in Victoria's Inner Harbour. Four Diamond, AAA Rated, this 63-room boutique hotel is infused with European elegance, beauty, and charm. Welcoming small touches in your room include fresh fruit, chocolate and spring water, gourmet coffee and AVEDA products. Every morning complimentary European Buffet Breakfast is served in the restaurant. Air-conditioned guestrooms feature harbour and city views. Rooms include 27-inch color TV with enhanced movie offerings, private mini-bars, in room coffee makers, irons, hairdryer, private voicemail message service, data-ports for computer hook ups, complimentary hi-speed internet and spacious working desks. Opulent bathrooms feature walk-in glass showers, separate deep soaker tubs and lush terry bathrobes. Attentive personal service will take care of all your needs including valet parking. Full service Aveda Lifestyle Spa and two uniquely different restaurants are here to serve you. Hugo's Grill offers relaxed dining in an atmosphere richly appointed with warm textiles and wonderful woodwork. Hugo's Brewpub offers a more casual experience of a micro-brewery. Registration can be made by phone, fax, or by e-mail at: sales@magnoliahotel.com

Executive House Hotel

777 Douglas Street
Victoria, BC V8W 2B5
Phone: 250-388-5111/800-663-7001, Fax: 250-385-1323
Standard Rooms: \$125.00 CDN (single/double), Suite: \$145.00 CDN (single/double)
Reservation Cut-off Date: May 15, 2006

Family owned and operated Hotel, located one block from the Inner Harbour, shopping and attractions, 181 Rooms/Suites, complimentary high speed internet. Featuring Barkley's Steakhouse, Bartholomew's Bar & Rockefeller Grille, Doubles Oyster Bar, and Caffe d'Amore. Parking is on an availability basis at a charge of \$2.00 + taxes for a total of \$2.14. Web site address: <http://www.executivehouse.com>. Reservations can also be made via the email at reservations@executivehouse.com.

Queen Victoria Hotel & Suites (SOLD OUT)

655 Douglas Street
Victoria, BC V8V 2P9
Phone: 800-663-7007, Fax: 250-381-4312
Standard Rooms: \$130.00 CDN, (single/double), 1-Bedroom Suite: \$160.00 CDN, (single/double)
Reservation Cut-Off Date: May 15, 2006

Located one block from the Victoria Conference Centre, the Queen Victoria Hotel & Suites is steps from Beacon Hill Park, the Royal Museum and the Inner Harbour. The hotel offers standard and one-bedroom suites, beautifully appointed with balconies, coffee makers, hairdryers, iron and ironing boards. The hotel's

Mediterranean style health facilities include pool, Jacuzzi, sauna and exercise room. Enjoy West Coast cuisine in Samuel's Restaurant overlooking Thunderbird Park. Parking for hotel guests is \$3.00 CDN per day. High-speed internet service is available in each guest room for a fee of \$4.50 CDN for one hour or \$6.00 CDN flat fee per day. Reservations may be made by calling our toll free number or by sending a fax. You can also e-mail your reservation to: reservations@qvhotel.com. Please ensure that you identify yourself as being a part of the ASLO Meeting in order to qualify for the special rate.

Alternate Accommodations

Rooms also are available at the University of Victoria. Located approximately 10km from downtown Victoria, it is easily accessible by car (15 minutes), bus (30 minutes), or bicycle. If you chose to stay at the university and do not have a car or a bicycle, it will be necessary that you utilize local city or public transportation to get to the meeting and back each day. Approximate room rates range from \$38.00 to \$50.00 CDN. To make reservations, call 250-721-8395 and ask for reservations.

These rooms can be single or shared, and all have centrally located washrooms. Lounges with cable TV are on every floor. A limited number of self-contained units with four single bedrooms, kitchen, living room, two washrooms and separate shower room also are available. UVic offers a variety of licensed cafeterias and dining services.

Victoria's daily transit service includes a number of buses traveling between UVic and downtown. Buses leave from the University Exchange across from the UVic Bookstore. #4 UVic/Downtown drop off is one block before the VCC; #7 UVic Downtown drop off is across the street from the VCC; #11 Tillicum Mall/UVic West (and East) drop off is at Douglas and Yates, 5 blocks north of the VCC; and #14 UVic General/via Craigflower drop off is at Douglas and Fort, 3 blocks north of the VCC. The fare is \$2 CDN one way. A book of ten tickets is \$17.50 CDN and a day pass is \$6 CDN. Books of tickets and day passes can be purchased at the UVic Student Union Building.

For more information, including specific times, bus routes, fares, accessible services and other user tips, visit their Web site: <http://www.bctransit.com>. Bus schedules (The Riders Guide) are available at the Tourism Information Centre, 812 Wharf Street, a block behind the Victoria Conference Center.

Taxicab services are also available.

MORE INFORMATION

For more information on the ASLO 2006 Summer Meeting, address all correspondence and questions regarding registration, conference logistics, and hotel accommodations to:

Helen Schneider Lemay
ASLO Business Office
5400 Bosque Boulevard, Suite 680
Waco, Texas 76710-4446
business@aslo.org E-mail
<http://www.aslo.org/victoria2006> Web
800-929-ASLO (Within the U.S., Canada, and the Caribbean),
254-399-9635 (All other countries) Phone
254-776-3767 Fax

MONDAY, JUNE 5, 2006

TS-A06: FORECASTING BIOGEOGRAPHIC RESPONSES TO CLIMATE CHANGE IN COASTAL ECOSYSTEMS

Chair(s):	Brian Helmuth, helmuth@biol.sc.edu Gretchen Hofmann, hofmann@lifesci.ucsb.edu
Location:	
10:45 am	Helmuth, B. S.; Hofmann, G. E.: LIVING ON THE EDGE OF TWO CHANGING WORLDS: HOW, WHERE AND WHEN DO WE LOOK FOR THE IMPACTS OF CLIMATE CHANGE?~
11:15 am	Harley, C. D.: ECOLOGICAL RESPONSES TO CLIMATE CHANGE - INCORPORATING SYNERGISTIC EFFECTS AND COMMUNITY-LEVEL INTERACTIONS*
11:30 am	Okey, T. A.; Butler, A.; Hobday, A. J.; Kunz, T. J.; Matear, R. J.; Poloczanska, E. S.; Richardson, A. J.; Rothlisberg, P. C.: TOWARDS FORECASTING CLIMATE CHANGE IMPACTS ON AUSTRALIAN MARINE ECOSYSTEMS
11:45 am	Gilman, S. E.; Wethey, D. S.; Helmuth, B. S.: PREDICTING BODY TEMPERATURE SENSITIVITY TO FUTURE CLIMATE CHANGE IN THE INTERTIDAL MUSSEL <i>MYTILUS CALIFORNIANUS</i>
12:00 pm	Mieszkowska, N.; Kendall, M. A.; Wethey, D. S.; Helmuth, B.; Hawkins, S. J.: IDENTIFYING AND PREDICTING CLIMATE CHANGE EFFECTS IN THE MARINE ENVIRONMENT: THE IMPORTANCE OF PHYSIOLOGICAL MECHANISMS
2:00 pm	Sagarin, R. D.: COMPLEX BIOGEOGRAPHIC PATTERNS IN POPULATIONS AND HEAT-SHOCK PROTEINS IN INTERTIDAL INVERTEBRATES: IMPLICATIONS FOR CLIMATE CHANGE
2:15 pm	Fielman, K. T.; Hofmann, G. H.: A FUNCTIONAL GENOMICS APPROACH TO INTERPRETING BIOGEOGRAPHIC PATTERNS OF LARVAL THERMOTOLERANCE AMONG WESTERN STRONGYLOCENTROTID URCHIN CONGENERS
2:30 pm	Iansen, I. M.; Pronker, A. E.; Kube, S.; Sokolowski, A.; Sola Eslava, J. C.; Aitor Marquigui, M.; Hummel, H.: GEOGRAPHIC AND SEASONAL PATTERNS AND LIMITS IN THE ADAPTIVE RESPONSE TO TEMPERATURE OF EUROPEAN MACOMA BALTICA AND <i>MYTILUS SSP.</i> POPULATIONS
2:45 pm	Petes, L. E.; Webb, M. A.; Menge, B. A.: DIFFERENTIAL ACCUMULATION OF CARBOXYLIC ACIDS IN MUSSEL GONADAL TISSUE ACROSS AN INTERTIDAL STRESS GRADIENT: A POTENTIAL RESPONSE TO OXIDATIVE STRESS
3:00 pm	Whitney, F. A.; Freeland, H. J.: OXYGEN VARIABILITY IN THE INTERIOR OF THE NE PACIFIC OCEAN, WITH POSSIBLE IMPACTS ON FISH

TS-A07: INTERACTIONS OF UV RADIATION WITH BIOTIC AND ABIOTIC COMPONENTS IN A CHANGING ENVIRONMENT

Chair(s):	Ruben Sommaruga, ruben.sommaruga@uibk.ac.at Howard I. Brownman, howard.brownman@imr.no E. Walter Helbling, whelbling@efpu.org.ar
Location:	
10:45 am	Demers, S.; Ferreyra, G. A.; Roy, S.: INTERACTIONS OF UV RADIATION WITH BIOTIC AND ABIOTIC COMPONENTS IN A CHANGING ENVIRONMENT: OVERVIEW FOR THE MARINE ECOSYSTEM.~
11:15 am	Williamson, C. E.: INTERACTIONS OF UV RADIATION WITH BIOTIC AND ABIOTIC COMPONENTS IN A CHANGING ENVIRONMENT: OVERVIEW FOR FRESHWATER ECOSYSTEMS*
11:30 am	Morris, D. P.; Zagarese, H. E.; Hargreaves, B. R.: VARIABILITY IN THE RATE OF CDOM PHOTOBLEACHING AND ITS CONTROL
11:45 am	Leech, D. M.; Chow, A. T.: PHOTOREACTIVITY OF DOM ALONG A LAND USE GRADIENT THROUGH THE SACRAMENTO-SAN JOAQUIN DELTA, CALIFORNIA, USA
12:00 pm	Biddanda, B. A.; Meece, C.; Barnhardt, S.; Kroll, D.: PHOTOCHEMICAL AND BIOLOGICAL DEGRADATION OF CARBON IN A TEMPERATE WATERSHED
2:00 pm	Moeller, R. E.; Hargreaves, B. R.; Morris, D. P.; Williamson, C. E.: CORRELATIONS OF RAINFALL, DOC, AND PH WITH DECREASING TRENDS OF UV TRANSPARENCY IN TWO SLIGHTLY ACIDIC LAKES
2:15 pm	Gareis, J. A.; Lesack, L. F.; Bothwell, M. L.: ATTENUATION OF UNDERWATER IRRADIANCE IN A SERIES OF INTERCONNECTED SHALLOW ARCTIC LAKES IN THE MACKENZIE DELTA, NORTHWEST TERRITORIES.
2:30 pm	Hargreaves, B. R.; Moeller, R. E.; Sopka, C.; Morris, D. P.: DOC & CDOM DYNAMICS IN SURFACE AND BOTTOM WATERS OF TWO SMALL MID-LATITUDE LAKES INFLUENCE UV TRANSPARENCY
2:45 pm	Kragh, T.; Tranvik, L.; Sondergaard, M.: EFFECT OF UV EXPOSURE AND P-LIMITATIONS ON BACTERIAL DEGRADATION OF HUMIC DOM
3:00 pm	Yuan, X. C.; Yin, K. D.; Harrison, P. J.; Zhang, J. T.: COMPARISON OF UVR EFFECTS ON PRODUCTION OF PHYTOPLANKTON, AND BACTERIA AND VIRAL DECAY RATES IN THE NORTHERN SOUTH CHINA SEA
3:15 pm	Sommaruga, R.: UV RADIATION AND TROPHIC INTERACTIONS

4:00 pm	Scott, C. E.; Saros, J. E.; Williamson, C. E.: SEASONAL VARIATION IN THE EFFECTS OF NUTRIENTS AND DISSOLVED ORGANIC MATERIAL ON THE RESPONSE OF PHYTOPLANKTON COMMUNITY STRUCTURE TO ULTRAVIOLET RADIATION
4:15 pm	Shelly, K.; Beardall, J.; Roberts, S.; Heraud, P.: EFFECTS OF PHOSPHATE DEPLETION ON THE UV SENSITIVITY OF PHOTOSYNTHESIS IN THE GREEN MARINE MICROALGA <i>DUNALIELLA TERTIOLECTA</i>
4:30 pm	Stojkovic, S.; Beardall, J.: INTERACTIVE EFFECTS BETWEEN UV AND CO ₂ ON PHOTOSYNTHESIS AND PHYSIOLOGICAL PERFORMANCE OF THE OCEANIC DIATOM <i>THALASSIOSIRA PSEUDONANA</i>
4:45 pm	Cooke, S. L.; Williamson, C. E.; Saros, J. E.; Salm, C. R.; Keseley, S. A.: HOW DO TEMPERATURE, DISSOLVED ORGANIC MATTER, AND NUTRIENTS INFLUENCE THE RESPONSE OF LEPTODIAPATOMUS ASHLANDII TO ULTRAVIOLET RADIATION IN A SUBALPINE LAKE?
5:00 pm	Hylander, S.; Hansson, L.: BUFFERING OF PREDATOR AND UV THREATS BY INDUCED PLASTIC RESPONSE IN PIGMENTATION
5:15 pm	Jokinen, E. I.; Salo, H. M.; Brownman, H. I.; Kuhn, P.; Arts, M. T.: EXPOSURE TO ULTRAVIOLET-B RADIATION AND INCREASED AMBIENT TEMPERATURE ALTERS GROWTH, CONDITION AND IMMUNE FUNCTION OF JUVENILE ATLANTIC SALMON, <i>SMOLO SALAR</i>

TS-A11: EXPERIMENTAL AND THEORETICAL APPROACHES TO CLIMATE CHANGE

Chair(s):	Morten Søndergaard, msondergaard@bi.ku.dk Erik Jeppesen, ej@dmu.dk Anthony Verschoor, A.verschoor@nioo.knaw.nl Lisette de Senerpont Domis, l.desenerpontdomis@nioo.knaw.nl
Location:	
4:00 pm	Mooij, W. M.: IMPACTS OF CLIMATE CHANGE ON THE FOOD WEB OF TEMPERATE SHALLOW LAKES*
4:15 pm	de Senerpont Domis, L. N.; Mooij, W. M.: CLIMATE INDUCED SHIFTS IN PHENOLOGY OF ALGAE AND ZOOPLANKTON IN FRESHWATER SYSTEMS
4:30 pm	Richter, Q.; Suhling, F.: IMPACT OF CLIMATE CHANGE ON POPULATION DYNAMICS AND TEMPORAL PATTERNS OF BENTHIC COMMUNITIES
4:45 pm	Hall, E. K.; Neuhauser, C.; Cotner, J. B.: A THEORETICAL APPROACH TO UNDERSTANDING THE METABOLIC RESPONSE OF BACTERIAL COMMUNITIES TO TEMPERATURE FORCING
5:00 pm	Lengfellner, K.; Aberle, N.; Sandow, M.; Hansen, T.; Sommer, U.: THE IMPACT OF CLIMATE CHANGE ON PLANKTON SPRING SUCCESSION: A MESOCOSM STUDY
5:15 pm	Wiltshire, K. H.; Boersma, M.; Engelke, C.; LÜK, A.; Freund, J.: THE HISTORIC HELGOLAND ROADS DATA: NEW INFORMATION FROM EXPERIMENTS AND MODELLING ON CHANGES RELATED TO TEMPERATURE RISE IN THE NORTH SEA.

TS-B03: ECOSYSTEM FUNCTIONS OF LARGE LOWLAND RIVERS - NATURAL POTENTIAL AND ANTHROPOGENIC IMPACTS

Chair(s):	Martin T. Pusch, pusch@igb-berlin.de Helmut Fischer, helmut.fischer@bafg.de
Location:	
2:00 pm	Bukaveckas, P. A.: ECOSYSTEM PROCESSES IN LARGE RIVERS: HYDROGEOMORPHIC CONTROL OF ECOSYSTEM METABOLISM AND FOOD WEB ENERGETICS ~
2:30 pm	Costa, M.; Telmer, K.; Novo, E. M.; Rossin, R.; Pereira Filho, W.; Rudorff, C. M.: SOLVING THE OPTICAL PUZZLE OF AMAZONIAN WATERS: SEEING PRODUCTIVITY, DEFORESTATION AND MINING
2:45 pm	Melack, J. M.; Novo, E. M.; Barbosa, C.; Forsberg, B.; Silva, T. S.; Costa, M.: MULTI-SCALE ANALYSES OF INUNDATION, WETLAND VEGETATION AND CARBON DYNAMICS IN THE FLOODPLAINS OF THE AMAZON BASIN
3:00 pm	Preiner, S.; Hein, T.; Schieler, F.: THE SIGNIFICANCE OF HYDROLOGICAL CONNECTIVITY ON PRIMARY PRODUCTION PATTERNS OF LARGE RIVERS
3:15 pm	Hein, T.; Hohenninger, S.; Peduzzi, P.; Preiner, S.; Reckendorfer, W.; Schieler, F.: RESTORING HYDROLOGIC CONNECTIVITY IN COMPLEX RIVER LANDSCAPES: EFFECTS ON ECOSYSTEM FUNCTIONS
3:30 pm	Schieler, F.; Hein, T.; Peduzzi, P.: HYDROLOGICAL CONTROL OF SYSTEM CHARACTERISTICS IN STORAGE ZONES OF LARGE RIVERS
4:00 pm	Maranger, R.; Tall, L.; Blanchet, C.: BACTERIAL TRANSFORMATIONS OF CARBON AND NITROGEN IN LAKE ST PIERRE A LARGE FLUVIAL LAKE OF THE ST LAWRENCE RIVER
4:15 pm	Houser, J. N.; Gray, B. R.; Rogala, J. T.: NUTRIENTS, CHLOROPHYLL, AND SUSPENDED SEDIMENT IN THE UPPER MISSISSIPPI RIVER: PATTERNS IN TIME AND SPACE.
4:30 pm	Fischer, H.; Schoel, A.; Kirchesch, V.: DYNAMICS OF NUTRIENTS AND ORGANIC MATTER IN A LOWLAND RIVER CONTINUUM

(*) represents Invited presentations

MONDAY

4:45 pm	Delong, M. D.; Thorp, J. H.: TRANSPORTED ORGANIC MATTER IN A FLOODPLAIN RIVER: EVIDENCE OF HYDROLOGICAL CONTROLS*
5:00 pm	Pusch, M. T.; Fischer, H.; Wilczek, S.: HOT SPOTS AND SEASONAL PATTERN OF HETEROTROPHIC METABOLISM IN A LARGE RIVER (ELBE, GERMANY)
5:15 pm	Thorp, J. H.; Thoms, M. C.; Delong, M. D.: A SCALED MODEL OF BIOCOMPLEXITY IN RIVER NETWORKS, WITH #65279; APPLICATIONS TO RIVER MONITORING AND MANAGEMENT*

TS-B06: PATHWAYS THROUGH THE PLANKTON: AN INTEGRATION OF PLANKTON ECOLOGY

Chair(s):	Marie Perga, mperga@uvic.ca Blake Matthews, bmatthew@uvic.ca
Location:	Carson Hall B
10:45 am	Kainz, M.; Mazumder, A.; Arts, M. T.: DIETARY COMPOUND PATHWAYS IN PLANKTONIC FOOD WEBS - RECENT ADVANCES, CONSTRAINTS AND PERSPECTIVES-
11:00 am	El-Sabaawi, R.; Kainz, M.; Mazumder, A.; Dower, J. F.: THE TROPHIC POSITION OF NEOCALANUS PLUMCHRUS IN THE STRAIT OF GEORGIA, BRITISH COLUMBIA, CANADA
11:15 am	Peters, J.; Hagen, W.; Dutz, J.; van Beusekom, J.; Boersma, M.: TROPHODYNAMICS OF THE COPEPOD TEMORA LONGICORNIS IN THE BALTIMORE AND THE NORTH SEA – A FATTY ACID MARKER PERSPECTIVE
11:30 am	Burns, C. W.; Schallenberg, M.; Brett, M. T.: TROPHIC TRANSFER OF ESSENTIAL FATTY ACIDS IN PLANKTON OF NEW ZEALAND LAKES
11:45 am	Kankaala, P.; Taipale, S.; Jones, R. I.: WHOLE-LAKE ADDITIONS OF INORGANIC I3C REVEAL SEASONAL VARIATIONS IN CARBON FLUX THROUGH THE PELAGIC FOOD-WEB OF A POLYHUMIC LAKE
2:00 pm	Wacker, A.; Weithoff, G.: THE ROLE OF MIXOTROPHY IN TROPHIC INTERACTIONS
2:15 pm	Matthews, B.; Lampert, W.; Mazumder, A.: TROPHIC ENRICHMENT IN ZOOPLANKTON: EFFECTS OF TEMPERATURE, AGE, SPECIES, AND FOOD CONCENTRATION
2:30 pm	Hambright, K. D.: RELATIVE ROLES OF MICROBIAL AND CRUSTACEAN GRAZERS IN CARBON AND NUTRIENT FLUXES IN FRESHWATER FOOD WEBS*
2:45 pm	Mohamed, M. N.; Taylor, W. D.: THE IMPORTANCE OF AQUATIC VERSUS TERRESTRIAL CARBON FIXATION TO PLANKTONIC FOOD WEBS IN LAKES: DO ZOOPLANKTON EAT PHYTOPLANKTON OR TERRESTRIAL PLANTS?
3:00 pm	Aberle, N.; Malzahn, A. M.: INTER- AND INTRASPECIFIC VARIATIONS IN STABLE ISOTOPE FRACTIONATION - EXPERIMENTAL STUDIES SIMULATING PELAGIC MULTI-TROPHIC SYSTEMS
3:15 pm	Hoffman, J. C.; Bronk, D. A.; Olney, J. E.: TERRESTRIAL MATTER FUELS A COASTAL TRIBUTARY FOOD WEB
4:00 pm	Taipale, S. J.; Kankaala, P.; Jones, R. I.: PLFA PROFILES FROM THE WHOLE WATER COLUMN REVEAL POSSIBLE FOOD SOURCES FOR DAPHNIA IN A SMALL POLYHUMIC LAKE
4:15 pm	Connelly, T. L.; Deibel, D.: FOOD RESOURCES FOR ZOOPLANKTON IN NEAR-BOTTOM WATERS OF THE BEAUFORT SEA SHELF
4:30 pm	Malej, A.; Cermelj, B.; Lojen, S.; Milos, C.: ELEMENTAL AND STABLE ISOTOPE COMPOSITION OF BLOOM-FORMING SCYPHOMEDUSAE FROM THE ADRIATIC SEA
4:45 pm	Businski, T. N.; Deibel, D.; Parrish, C. C.: ZOOPLANKTON FOOD SOURCES THROUGH AN ANNUAL CYCLE IN FRANKLIN BAY (WESTERN CANADIAN ARCTIC)
5:00 pm	Boersma, M.; Gerecht, A.; Dittami, S.; Wichard, T.; Pohnert, G.; Wiltshire, K. H.: DIATOM-COPEPOD INTERACTIONS: LINKING NUTRITIONAL QUALITY WITH POSSIBLE TOXICITY
5:15 pm	Martin-Creuzburg, D.; Bec, A.; Von Elert, E.: FOOD QUALITY OF CILIATES FOR DAPHNIA: THE ROLE OF STEROLS

TS-B20: TRANSIENT DIAGENESIS: RECONSTRUCTING THE PAST AND PREDICTING THE FUTURE

Chair(s):	Caroline P. Slomp, slomp@geo.uu.nl Sergei Katsev, sergei@eps.mcgill.ca
Location:	Sidney
10:45 am	Burdige, D. J.: NON-STEADY STATE DIAGENESIS IN AQUATIC SEDIMENTS - Rodriguez Aguilera, D.; Dale, A. W.; Fossing, H.; Knab, N.; Borowski, C.; Regnier, P.; Van Cappellen, P.; Joergensen, B. B.: SEASONAL CONTROLS ON THE SULFATE AND METHANE FLUXES IN NEARSHORE SEDIMENTS OF AARHUS BAY (DENMARK)
11:15 am	Koretsky, C. M.: HOW DO SEASONAL CHANGES IN SHALLOW SALTMARSH AND PEATLAND SEDIMENTS INFLUENCE MICROBIAL COMMUNITY STRUCTURE AND METAL SPECIATION?*
11:30 am	Katsev, S.; Sundby, B.; Mucci, A.: REDOX BOUNDARY EXCURSIONS IN ORGANIC-POOR AND ORGANIC-RICH SEDIMENTS

12:00 pm	Slomp, C. P.; Canavan, R. W.; Van Cappellen, P.: PHOSPHORUS CYCLING IN COASTAL FRESHWATER SEDIMENTS AND RESPONSE TO SALINIZATION
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TS-B21: PHYSICAL PROCESSES AND INTERACTIONS

Chair(s):	Franciscus Colijn, colijn@gkss.de Henning Wehde, wehde@gkss.de Friedhelm Schroeder, friedhelm.schroeder@gkss.de
Location:	Colwood
2:00 pm	Wehde, H.; Schroeder, F.: PHYSICAL PROCESSES AND THEIR IMPACT ON THE MARINE ECOSYSTEM: COMBINING MEASUREMENTS AND MODELS-
2:30 pm	Anis, A.; Dupuis, K.; Gaurav, S.: MIXED, NOT STIRRED: SMALL-SCALE PHYSICAL PROCESSES IN A SHALLOW ESTUARY
2:45 pm	Singhal, G.; Anis, A.: TURBULENT MIXING AND BREAKING INTERNAL WAVES IN THE BENTHIC BOUNDARY LAYER OF A FRESH WATER LAKE
3:00 pm	Hartford, J. R.; Crimaldi, J. P.: BROADCAST SPAWNING: EFFECTS OF VORTEX STIRRING ON FERTILIZATION EFFICIENCY
3:15 pm	Dudas, S. E.; Rilov, G.; Tyburczy, J. A.; Menge, B. A.; Lubchenco, J.: QUANTIFYING LARVAL SUPPLY TO EXPOSED ROCKY INTERTIDAL SHORES
4:00 pm	Kromkamp, J. C.; Perkins, R.; Reid, P. M.: THE EFFECT OF BURIAL ON PHOTOSYNTHETIC ACTIVITY OF STROMATOLITES
4:15 pm	Xu, J.; North, E. W.; Hood, R. R.; Newell, R. I.: QUANTIFYING THE ROLE OF OYSTERS IN RESTORING WATER QUALITY IN CHESAPEAKE BAY: TOWARD A POTENTIAL MANAGEMENT TOOL FOR OYSTER RESTORATION
4:30 pm	Tesi, T.; Langone, L.; Gorii, M. A.; Misericocchi, S.: DEVELOPMENT AND REWORKING OF A FLOOD DEPOSIT ON THE NORTH ADRIATIC CONTINENTAL SHELF, ITALY: IMPACTS ON THE SUPPLY AND CYCLING OF ALLOCHTHONOUS ORGANIC MATTER
4:45 pm	Estrada, M.; Felipe, J.; Marrasé, C.; Sala, M. M.; Vidal, M.: GROWTH OF PHYTOPLANKTON COLLECTED FROM AN ICE-COVERED WATER COLUMN IN THE CANADIAN ARCTIC
5:00 pm	Granskog, M. A.; Mundy, C. J.; Macdonald, R. W.; Barber, D. G.: DISTRIBUTION, CHARACTERISTICS AND POTENTIAL IMPACTS OF COLORED DISSOLVED ORGANIC MATTER (CDOM) IN THE HUDSON STRAIT AND BAY, CANADIAN ARCTIC
5:15 pm	Hamilton, A. K.; Lovejoy, C.; Ingram, R. G.: BIOHYDROGRAPHY OF EUKARYOTIC MICROORGANISMS IN THE NORTH WATER POLYNYA

TS-B23: CHEMICAL INTERACTIONS

Chair(s):	Andrew Ridgwell, aridgwell@eos.ubc.ca Roger Francois, rfrancois@eos.ubc.ca
Location:	Colwood
10:45 am	Feeley, R. A.; Sabine, C. L.; Orr, J. C.; Fabry, V. J.; Kleypas, J. A.; Langdon, C.: PRESENT AND FUTURE CHANGES IN SEAWATER CHEMISTRY DUE TO OCEAN ACIDIFICATION
11:00 am	Fabry, V. J.; Faber, D. N.; Dickson, A. G.: RESPONSE OF THE COCCOLITHOPHORE EMILIANIA HUXLEYI TO Elevated PARTIAL PRESSURE OF CO2 AND PHOSPHATE LIMITATION
11:15 am	Levitin, Q.; Prasik, O.; Setlik, I.; Setlikova, E.; Kupper, H.; Berman-Frank, I.: THE INFLUENCE OF Elevated ATMOSPHERIC CARBON DIOXIDE ON NITROGEN FIXATION AND PHOTOSYNTHESIS IN THE MARINE CYANOBACTERIA TRICHODESIUM ERYTHRHAEUM
11:30 am	Yamashita, Y.; Tanoue, E.: BASIN SCALE DISTRIBUTION OF CHROMOPHORIC DISSOLVED ORGANIC MATTER IN THE PACIFIC
11:45 am	Yokota, K.; Sternier, R. W.: LONG-TERM EFFECT OF DAPHNIA KAIROMONES ON COLONY SIZE AND POPULATION DYNAMICS OF SCENEDESMUS
12:00 pm	Skog, A. C.; Arias Esquivel, V. A.: GETTING RADICAL - HYDROXYL RADICALS IN MARINE SEDIMENTS.

TS-B24: NUTRIENT CYCLING

Chair(s):	Sue Newman, snewman@sfwmd.gov Barbara Cade-Menun, bjcm@pangea.stanford.edu
Location:	Empress Hotel
10:45 am	Sternier, R. W.: STOICHIOMETRY ACROSS BOUNDARIES: CONTRASTING STOICHIOMETRICALLY BALANCED AND IMBALANCED ECOSYSTEMS-
11:15 am	Cooper, W. T.; Tremblay, L. B.; Dittmar, T.; Huettel, M.; Kostka, J.; Cooper, W. J.: MOLECULAR CHARACTERIZATION OF TERRESTRIALLY-DERIVED DOM IN ESTUARIES USING ULTRAHIGH RESOLUTION MASS SPECTROMETRY AND 3-D FLOURESCENCE SPECTROSCOPY
11:30 am	Lyon, D. R.; Kopecky, A. L.; Ziegler, S. E.: CARBON CYCLING IN OZARK STREAM MESOCOSMS UNDER VARYING NUTRIENT CONCENTRATIONS AS DETERMINED BY I3C LABELING

(*) represents Tutorial presentations

11:45 am	Baldock, J. A.: MOLECULAR AND ELEMENTAL CHARACTERISATION OF NATURAL ORGANIC MATTER IN TERRESTRIAL AND AQUATIC ECOSYSTEMS USING ^{13}C NMR
12:00 pm	Cade-Menun, B. L.; Paytan, A.: C AND P FORMS VERSUS C:P RATIOS: AN EVALUATION USING ALGAE AND NMR SPECTROSCOPY
2:00 pm	Hendrixson, H. A.; Sterner, R. W.; Kay, A. D.: ELEMENTAL STOICHIOMETRY OF FRESHWATER FISH IN RELATION TO PHYLOGENY, ALLOMETRY, AND ECOLOGY
2:15 pm	Ngirchechol, M. K.; Matson, E. A.: NUTRIENT FLUX ACROSS GUAM'S REEF FLATS
2:30 pm	Reynolds, S. E.; Wolff, G.; Williams, R.: DETERMINING THE SUPPLY OF NITROGEN AND PHOSPHORUS TO THE SURFACE ATLANTIC OCEAN
2:45 pm	Rebreanu, L.; De Bodt, C.; Carbonnel, V.; Clip, G.; Chou, L.: BIOGENIC SILICA FLUXES AND REGENERATION IN THE SEDIMENTS OF THE SCHELDT CONTINUUM
3:00 pm	Evrard, V.; Cook, P. L.; Veuger, B.; Middelburg, J. J.: CARBON AND NITROGEN FLOWS THROUGH MARINE SANDY SEDIMENTS: STABLE ISOTOPES AS DELIBERATE TRACERS
3:15 pm	Holl, C. M.; Tallamy, C. J.; Moss, S. M.: STABLE ISOTOPES AND MICROBIAL REMINERALIZATION PROCESSES IN RECIRCULATING SHRIMP AQUACULTURE
4:00 pm	Hgaerthey, S. E.; Inglett, P. W.; Sharma, K.; Newman, S.; Trexler, J. C.; Reddy, K. R.: A ^{13}C AND ^{15}N PULSE-CHASE EXPERIMENT TO ELUCIDATE THE EVERGLADES FOOD WEB: SEPARATING THE IMPORTANCE OF AUTOTROPHIC AND HETEROCHROPHIC PRODUCTION
4:15 pm	Kumar, S.; Sterner, R. W.; Finlay, J.: NITROGEN UPTAKE IN LAKE SUPERIOR
4:30 pm	O'Connor, B. L.; Hondzo, M.: SCALING DENITRIFICATION HOT SPOTS TO STREAM ENVIRONMENT AND BACTERIA
4:45 pm	Solomon, C. M.; Gilbert, P. M.; Collier, J. L.: POTENTIAL REGULATION OF UREA UTILIZATION BY NITROGEN SOURCES: A SYNTHESIS FROM LABORATORY AND FIELD EXPERIMENTS
5:00 pm	Brown, K. A.; Cullen, J. T.: INCREASED SOLUBILITY OF METAL-SULPHIDE COMPLEXES AT HIGH pH: IMPLICATIONS FOR PROTOCOLS USED TO MONITOR TOTAL FREE SULPHIDES IN MARINE SEDIMENTS

TS-C04: LANDSCAPE LIMNOLOGY: INTERACTIONS AMONG LAND, WATER, AND HUMANS AT MULTIPLE SPATIAL SCALES

Chair(s):	Mary Bremigan, bremigan@msu.edu
	Kendra Spence Cheruvelli, spencek1@msu.edu
	Katherine Webster, katherine.webster@umit.maine.edu
	Patricia Soranno, soranno@msu.edu

Location: Oak Bay

10:45 am	Tonn, W. M.: LANDSCAPE LIMNOLOGY: MULTI-SCALE APPROACHES TO UNDERSTANDING THE ORGANISATION OF LAKE DISTRICTS-
11:15 am	Higgins, I. V.: USING LANDSCAPE PERSPECTIVES FOR FRESHWATER BIODIVERSITY CONSERVATION PLANNING*
11:30 am	Lauridsen, T. L.; Sondergaard, M.; Amsinck, S. L.; Jeppesen, E.: THE USE OF BIOLOGICAL VARIABLES IN THE SETTING UP NUTRIENT CRITERIA FOR FRESHWATER LAKES IN A CULTURAL LANDSCAPE *
11:45 am	Patoine, A.; Leavitt, P. R.: INTER-ANNUAL VARIATION IN NITROGEN FIXATION AND UTILIZATION BY AQUATIC FOOD WEBS: A LANDSCAPE PERSPECTIVE
12:00 pm	Savage, C.: USING STABLE ISOTOPES TO SHOW LINKAGES BETWEEN WATERSHED LAND-USE AND ASSIMILATION OF TERRESTRIAL INPUTS IN COASTAL ECOSYSTEMS
2:00 pm	Mallin, M. A.; Corbett, C. A.: INFLUENCE OF STORMS AND THE HUMAN LANDSCAPE ACROSS MULTIPLE BIOMES
2:15 pm	Williams, N. B.; Nelson, S.; Gregory, J. D.; Bullock, B.; Pyrtle, A.: RELATIONSHIP BETWEEN FLOW REGIME AND AQUATIC MACROINVERTEBRATE ABUNDANCE IN HEADWATER STREAMS IN THE PIEDMONT REGION OF NORTH CAROLINA, USA
2:30 pm	Schladow, S. G.; Sahoo, G. B.; Reuter, J. E.; Cahill, T. A.; Goldman, C. R.: THE COMPETING INFLUENCES OF ATMOSPHERIC DEPOSITION AND WATERSHED RUNOFF ON THE CLARITY AND ECOLOGY OF LAKE TAHOE, CA-NV, USA
2:45 pm	Vanni, M. L.; Renwick, W. H.; Gonzalez, M. J.: IMPROVEMENTS IN AGRICULTURAL LAND USE PRACTICES LEAD TO INCREASED PHYTOPLANKTON BIOMASS IN A EUTROPHIC RESERVOIR
3:00 pm	Martin, S. L.; Soranno, P. A.; Cheruvelli, K. S.; Bremigan, M. M.: A COMPARISON OF LANDSCAPE-BASED LAKE CLASSIFICATIONS FOR UNDERSTANDING VARIATION IN LAKE WATER CHEMISTRY AND CLARITY
3:15 pm	Spence Cheruvelli, K.; Soranno, P. A.; Bremigan, M. T.; Webster, K. E.: THE ROLES OF REGIONALIZATION AND SPATIAL SCALE FOR NATIONAL LAKE CLASSIFICATION AND ASSESSMENT
4:00 pm	Webster, K. E.; Soranno, P. A.; Bremigan, M. T.; Cheruvelli, K. S.; Asplund, T.; Bacon, L. C.; Bell, K. P.; Connor, J.; Downing, J. A.; Renwick, W. H.; Vaux, P. D.: LANDSCAPE PATTERNS IN THE TROPHIC STATUS OF NORTH-TEMPERATE LAKES (USA): RELATIONSHIPS WITH ANTHROPOGENIC AND HYDROGEOMORPHIC FEATURES

4:15 pm	Wurtsbaugh, W. A.; Tonolla, D.: LANDSCAPE LIMNOLOGY OF STREAMS AND LAKES IN THE SWISS ALPS
4:30 pm	Rusak, J. A.; Hanson, P. C.; Carpenter, S. R.; Kasian, S. E.; Paterson, A. M.; Somers, K. M.: REGIONAL DIFFERENCES IN LONG-TERM INTERACTIONS AMONG CHEMICAL AND PHYSICAL VARIABLES IN NORTH-TEMPERATE LAKES
4:45 pm	Cardille, J. A.; Prairie, Y. T.; del Giorgio, P. p.: LANDSCAPE LIMNOLOGICAL TECHNIQUES TO ASSESS LAKE ORGANIC CARBON CONTENT ACROSS LARGE AREAS OF SOUTHERN QUEBEC
5:00 pm	Roehm, C. L.; Prairie, Y. T.; del Giorgio, P. A.: LAKE-WATERSHED INTERACTIONS: AN INSIGHT INTO SPATIAL VARIABILITY
5:15 pm	Kortelainen, P.; Myllys, M.; Pajunen, H.: INTEGRATING THE AQUATIC WITH THE TERRESTRIAL CARBON POOLS IN BOREAL CATCHMENTS

TS-D06: ASSESSING THE ENVIRONMENTAL QUALITY STATUS IN ESTUARINE AND COASTAL SYSTEMS: COMPARING METHODOLOGIES AND INDICES

Chair(s):	Daniel Dauer, ddauer@odu.edu Angel Borja, aborja@pas.azti.es
Location:	Saanich 1 & 2
10:45 am	Diaz, R. J.: SIMPLICITY/COMPLEXITY IN ASSESSING ENVIRONMENTAL QUALITY USING AN INDEX APPROACH.-
11:15 am	Reincke, T.; Meyer, T.; Fürhaupter, K.: ASSESSING THE ECOLOGICAL STATUS OF BALTIK COASTAL WATERS - A MODULAR MULTIMETRIC APPROACH FOR THE EUROPEAN WATER FRAMEWORK DIRECTIVE
11:30 am	Germano, J. D.; Solan, M.; Valente, R. M.; Carey, D. A.; Diaz, R. J.: ASSESSING ENVIRONMENTAL QUALITY WITH BENTHIC INDICES: PAY NO ATTENTION TO THE MAN BEHIND THE CURTAIN
11:45 am	Blanchet, H.; Dauvin, J. C.; Bessineton, C.; De Montaudouin, X.; Bachelet, G.; Desclaux, C.; Lavesque, N.; Sauriau, P. G.; Desroy, N.; Mayot, S.; Ruellet, T.; Simon, S.; Duhamel, S.; Jourde, J.: DEVELOPMENT OF BENTHIC INDICATORS APPROACHES IN MUDDY SOFT-BOTTOM COMMUNITIES WITHIN THE EUROPEAN WATER FRAMEWORK DIRECTIVE (WFD) ALONG THE FRENCH COAST
12:00 pm	Hale, S. S.: A BENTHIC INDEX FOR THE NEAR-SHORE GULF OF MAINE
2:00 pm	Quintino, V.; Elliott, M.; Rodrigues, A. M.; Sampao, L.; Allen, J.: THE DERIVATION, PERFORMANCE AND ROLE OF UNIV AND MULTIVARIATE INDICATORS OF BENTHIC CHANGNE FOR COARSE SUBSTRATA IN NAVIGATION AND AGGREGATE DREDGING AREAS
2:15 pm	Basset, A.; Sabetta, L.: A METABOLIC THEORY APPROACH TO ECOSYSTEM HEALTH ASSESSMENT IN TRANSITIONAL WATERS: CONCEPTS AND PRACTICE
2:30 pm	Puente, A.; Carranza, I.; Juanes, J. A.; Garcia, A.; Alvarez, C.; Garcia, A.; Revilla, J. A.: INTEGRATED ECOLOGICAL ASSESSMENT OF SOFT BOTTOM BENTHIC COMMUNITIES IN NE ATLANTIC ESTUARINE WATER BODIES
2:45 pm	Ysebaert, T.; Escaravage, V.; Herman, P. M.; Heip, C. H.: THE ASSESSMENT OF THE ECOLOGICAL STATUS OF TRANSITIONAL WATERS BASED ON BENTHIC MACROINVERTEBRATES: THE NEED FOR A HIERARCHICAL, SCALE-DEPENDENT APPROACH
3:00 pm	Juanes, J. A.; Guinda, X.; Puente, A.; Ondivela, B.; Revilla, J. A.; Alvarez, C.; Garcia, A.: MACROALGAE, A SUITABLE INDICATOR OF THE ECOLOGICAL STATUS OF COASTAL ROCKY COMMUNITIES IN THE NE ATLANTIC
3:15 pm	Sabetta, L.; Galuppo, N.; Basset, A.; Casazza, G.; Silvestri, C.: TAXONOMIC AND NON-TAXONOMIC APPROACHES TO TRANSITIONAL WATERS BIO-INDICATION WITH BENTHIC INVERTEBRATES: A STUDY CASE ON ITALIAN LAGOONS
4:00 pm	Salas, F.; Patricio, J.; Marques, J. C.: ECOLOGICAL INDICATORS IN COASTAL AND ESTUARINE ENVIRONMENTAL QUALITY ASSESSMENT. A USER FRIENDLY GUIDE FOR PRACTITIONERS.*
4:15 pm	Reiss, H.; Kröncke, I.: SEASONAL VARIABILITY OF BENTHIC INDICES: AN APPROACH TO TEST THE APPLICABILITY OF DIFFERENT INDICES FOR ECOSYSTEM QUALITY ASSESSMENT
4:30 pm	Schaffner, L. C.; Metcalfe, W. J.; Gillett, D. J.; Stanhope, J. W.; Smith, T.; Anderson, I. C.: IDENTIFYING THE EFFECTS OF MULTIPLE STRESSORS IN CHESAPEAKE BAY USING THE BENTHIC INDEX OF BIOTIC INTEGRITY (B-IBI) AND MEIOFAUNA COMMUNITY STRUCTURE
4:45 pm	Borja, A.; Dauer, D.; Diaz, R.; Llansó, R. J.; Muxika, I.; Rodriguez, J. G.; Schaffner, L.: COMPARISON BETWEEN B-IBI AND AMBI INDICES IN CHESAPEAKE BAY: ASSESSING BENTHIC QUALITY CONDITION USING DIFFERENT TOOLS
5:00 pm	Chainho, P.; Costa, J. L.; Chaves, M. L.; Costa, M. J.; Dauer, D. M.: THE USE OF MULTIMETRIC INDICES TO CLASSIFY PORTUGUESE ESTUARIES WITH DIFFERENT HYDROMORFOLOGICAL CHARACTERISTICS
5:15 pm	Dauer, D. M.; Lane, M. F.; Llansó, R. J.: THE CHESAPEAKE BAY BENTHIC INDEX OF BIOTIC INTEGRITY, DESIGNATED USE AND WATER DEPTH EFFECTS.

(*) represents Invited presentations

**TS-E03:
DETECTION AND FORECASTING OF HARMFUL ALGAL BLOOMS**

Chair(s):	Robert Magnien, rob.magnien@noaa.gov Gregory Boyer, gboyer@esf.edu Vera Trainer, Vera.L.Trainer@noaa.gov
Location:	Lecture Theatre
10:45 am	Magnien, R. E.; Trainer, V. L.; Boyer, G. L.: THE NEED FOR HARMFUL ALGAL BLOOM FORECASTING*
11:00 am	Caron, D. A.; Sukhatme, G.; Estrin, D. L.: NEW TECHNOLOGIES AND APPROACHES FOR DETECTING, STUDYING AND FORECASTING HARMFUL ALGAL BLOOMS ~
11:30 am	Kirkpatrick, G. J.; Moline, M. A.; Weisberg, R. H.; Wilhelm, R. S.; Heil, C. A.; Lorenz, S. E.; Stumpf, R. P.; Schofield, O. M.: EASTERN GULF OF MEXICO OPTICAL-DETECTION HAB OBSERVATORY STATUS: INSTRUMENTS, PLATFORMS, OPERATIONS AND PERFORMANCE
11:45 am	Tester, P. A.: WIDELY HELD AND STRONGLY BELIEVED ASSUMPTIONS ABOUT KARENIA BREVIS BLOOMS: ARE THEY TRUE?
12:00 pm	Paul, J. H.; Smith, M. C.; Fries, D. P.; Casper, E. T.; Patterson, S. S.; Farmer, A. S.: HANDHELD AND AUTONOMOUS NASBA-BASED SENSORS FOR RED TIDE DETECTION
2:00 pm	Richardson, T. L.; Pinckney, J. L.: PIGMENT-BASED DETECTION OF THE TOXIC DINOFLAGELLATE, KARENIA BREVIS: LINKING SCIENCE TO MANAGEMENT
2:15 pm	Carder, K. L.; Cannizzaro, J. P.; Chen, F. R.: DETECTION OF KARENIA BREVIS BLOOMS ON THE WEST FLORIDA SHELF IN 2005 USING REMOTE-SENSING REFLECTANCE DATA
2:30 pm	Heil, C. A.: THE PERFECT BLOOM: A REVIEW OF THE 2005 KARENIA BREVIS BLOOM IN THE GULF OF MEXICO
2:45 pm	Wood, A. M.; Strutton, P.: PREDICTING AND TRACKING OREGON HARMFUL ALGAL BLOOMS WITH BIOLOGICAL AND PHYSICAL SATELLITE DATA.
3:00 pm	Moorthy, S. D.; Jones, A. C.; Caron, D. A.: TROPHIC DYNAMICS OF THE RED TIDE DINOFLAGELLATE LINGULODINIUM POLYEDRUM IN SOUTHERN CALIFORNIA
3:15 pm	Van Alstyne, K. L.: TOXINS PRODUCED BY MACROALGAL BLOOMS
4:00 pm	Bryant, E.; Dacanay, A.; Ryan, C. M.; Normandeau, C.; Cembella, A. D.; Cullen, J. J.: CHANGES IN THE TOXICITY OF HETEROSIGMA AKASHIWO (RAPHIDIOPHYCEAE) UNDER DIFFERENT PHOSPHATE STRESS AS DETERMINED BY THE USE OF CHEMOSTAT CULTURES
4:15 pm	Boyer, G. L.; Gilbert, H.; Konopko, E. A.; Makarewicz, J.: RAPID FIELD-BASED MONITORING SYSTEMS FOR THE DETECTION OF TOXIC CYANOBACTERIA BLOOMS: MICROCYSTIN IMMUNOSTrips AND FLUORESCENCE-BASED MONITORING SYSTEMS
4:30 pm	Rinta-Kanto, J. M.; Li, R.; Wilhelm, S. W.: THE USE OF CONSERVED GENES FROM THE MICROCYSTIN SYNTHETASE PATHWAY TO FORECAST TOXIN PRODUCTION POTENTIAL OF A CYANOBACTERIAL COMMUNITY IN LAKE ERIE
4:45 pm	Thomas, A. C.; Xue, H.; Weatherbee, R.: OCEANOGRAPHIC LINKAGES TO INTERANNUAL VARIABILITY IN SHELLFISH TOXICITY IN THE GULF OF MAINE
5:00 pm	Stock, C. A.; McGillicuddy, D. J.; Anderson, D. M.; He, R.; Lynch, D. R.; Manning, J. P.; Smith, K. W.; Solow, A. R.; Signell, R. P.: MODELING BLOOMS OF ALEXANDRIUM FUNDYENSE IN THE GULF OF MAINE: FROM HINDCASTING TO FORECASTING
5:15 pm	Kelly, V.; Codispoti, L. A.; Glibert, P. M.; Alexander, J.: WHY NOT LET GEORGE DO IT? PROGRESS ON AUTOMATED NUTRIENT MONITORING AND APPLICATION

**TS-E05:
FRESHWATER AND MARINE PROCESSES REGULATING SALMON PRODUCTIVITY**

Chair(s):	Asit Mazumder, mazumder@uvic.ca Marc Trudel, trudelm@pac.dfo-mpo.gc.ca
Location:	Carson Hall C
10:45 am	Ruggerone, G. T.; Nielsen, J. L.: GROWTH AND SURVIVAL OF SALMON IN RESPONSE TO CLIMATE CHANGE, COMPETITION, AND A DYNAMIC OCEAN CARRYING CAPACITY
11:00 am	Hruska, K. A.; Hinch, S. G.; Healey, M. C.; Farrell, A. P.: RELATIONSHIPS BETWEEN PHYSIOLOGICAL STATUS AND BEHAVIORAL REPRODUCTIVE SUCCESS IN SPAWNING SOCKEYE SALMON (ONCORHYNCHUS NERKA)
11:15 am	Brock, C. S.; Leavitt, P. R.; Schindler, D. E.; Quay, P. D.: REGULATION OF ALGAL AND SALMON PRODUCTION IN COASTAL ALASKAN LAKES BY MARINE DERIVED NUTRIENTS AND CLIMATE
11:30 am	Hill, A. C.; Stanford, J. A.; Leavitt, P. R.; Bahls, L. L.: SEDIMENTARY LEGACY OF SOCKEYE SALMON RETURNS TO AN ULTRA-OLIGOTROPHIC LAKE IN COASTAL B.C.: COHERENCE WITH CONVENTIONAL AND TRADITIONAL ECOLOGICAL KNOWLEDGE
11:45 am	Kline, T. C.: SALMON-DERIVED NUTRIENTS ENTER ALASKAN COASTAL SALMON FRESHWATER FOOD WEBS PRIMARILY THROUGH RE-MINERALIZATION

12:00 pm	Sanderson, B. L.; Tran, C. D.; Macneale, K.; Coe, H.; Kiffney, P.: IMPORTANCE OF NUTRIENTS IN IDAHO STREAM FOOD WEBS: IMPLICATIONS FOR JUVENILE SALMON GROWTH AND SURVIVAL
2:00 pm	Chow, J. K.; Johannes, M.; Mazumder, A.: DO SPAWNING ANADROMOUS SALMON PROVIDE IMPORTANT NUTRIENT SUBSIDY TO ESTUARINE ECOSYSTEMS?
2:15 pm	Bartz, K. K.; Imaki, H.; Davies, J. R.; Sanderson, B. L.; Beechie, T. J.; Ruckelshaus, M. H.: ESTIMATING CHANGES IN JUVENILE CHINOOK SALMON REARING HABITAT THROUGHOUT THE PUGET SOUND REGION
2:30 pm	Sweeting, R. M.; Neville, C. E.; Gordon, E. K.; Beamish, R. J.: REGIME SHIFT IMPACTS ON THE ECOLOGY OF JUVENILE SALMON IN THE STRAIT OF GEORGIA, BRITISH COLUMBIA
2:45 pm	Trudel, M.; Morris, I.; Thiess, M.; Sweeting, R.; Fisher, J.; Orsi, J.; Beacham, T.: SALMON MIGRATION: A KEY FACTOR TO UNDERSTAND THE EFFECTS OF OCEAN CONDITIONS ON SALMON PRODUCTION
3:00 pm	Welch, D. W.; Greene, C. H.; Jackson, G. D.; Tsang, P.: RESULTS FROM THE PACIFIC OCEAN SHELF TRACKING (POST) ARRAY: A CONTINENTAL-SCALE ACOUSTIC TRACKING ARRAY FOR MARINE FISHERIES RESEARCH AND OCEAN OBSERVATION
3:15 pm	Haldorson, L. J.; Boldt, J. L.; Armstrong, J.: PREY SELECTIVITY AND THE FOOD WEB OF JUVENILE PINK SALMON (ONCORHYNCHUS GORBUSCHA) IN THE NORTHERN GULF OF ALASKA
4:00 pm	Mazumder, A.; Trudel, M.; Farley, E. V.: FOODWEB DYNAMICS AND TROPHIC INTERACTIONS OF JUVENILE PACIFIC SALMON IN THE BEARING SEA ECOSYSTEM
4:15 pm	Duffy, E. J.; Beauchamp, D. A.: EFFECTS OF DISTRIBUTION AND TROPHIC INTERACTIONS ON THE POTENTIAL FOR GROWTH OF JUVENILE CHINOOK SALMON IN PUGET SOUND
4:30 pm	Beauchamp, D. A.; Cross, A. D.; Moss, J. H.: INTER-ANNUAL PATTERNS IN STAGE-SPECIFIC FEEDING, GROWTH, AND SURVIVAL OF PINK SALMON IN THE GULF OF ALASKA
4:45 pm	Beckman, B. R.; Morgan, C. A.; Fisher, J.: VARIATION IN OCEAN GROWTH AND SUBSEQUENT SURVIVAL OF POST-SMOLT COHO SALMON OFF THE OREGON/WASHINGTON COAST.
5:00 pm	Emmett, R. L.; Sampson, D.: THE RELATIONSHIP BETWEEN A PREDATORY FISH, FORAGE FISHES, AND JUVENILE SALMONID MARINE SURVIVAL OFF THE COLUMBIA RIVER: A SIMPLE TROPHIC MODEL ANALYSIS

**TS-A06:
FORECASTING BIOGEOGRAPHIC RESPONSES TO CLIMATE CHANGE IN COASTAL ECOSYSTEMS**

Chair(s):	Brian Helmuth, helmuth@biol.sc.edu Gretchen Hofmann, hofmann@lifesci.ucsb.edu
Location:	Victoria Conference Centre
3A.	Chang, H.; Sullivan, B. K.: EFFECTS OF TEMPERATURE AND PREY TYPE ON DIGESTION OF THE CTENOPHORE MNEMIOPSIS LEIDYI.
4A.	Jones, S. L.; Wethey, D. S.: TOO HOT TO HANDLE: EXPERIMENTS AND MODELS COMPARING THE HISTORIC AND PRESENT OCCURRENCE OF SPECIES AT THEIR SOUTHERN LIMITS.
5A.	O'Donnell, M. J.; Hofmann, G. H.: WHAT'S IT LIKE OUT THERE? TEMPERATURES DURING PLANKTONIC DEVELOPMENT.

**TS-A07:
INTERACTIONS OF UV RADIATION WITH BIOTIC AND ABIOTIC COMPONENTS IN A CHANGING ENVIRONMENT**

Chair(s):	Ruben Sommaruga, ruben.sommaruga@uibk.ac.at Howard I. Browman, howard.browman@imr.no E. Walter Helbling, whelbling@efpu.org.ar
Location:	Victoria Conference Centre
7A.	Guida, T. A.; Porter, J. A.; Williamson, C. E.; Jeffrey, W. H.: EXPOSURE OF BACTERIA TO UV-B RADIATION OVER CHRONIC AND ACUTE TIME SCALES: EVIDENCE FOR DOSE-RATE DEPENDENCE
8A.	Hare, A.; Macdonald, R.; Stern, G.; Wang, F.; Lean, D.; Papakyriakou, T.: THE EFFECT OF SNOW, ICE AND OPEN WATER ON METHYL MERCURY DISTRIBUTION IN THE ARCTIC OCEAN
9A.	Lee, R. E.; Hanelt, D.: EFFECTS OF SOLAR UV ON DNA AND EMBRYO DEVELOPMENT OF THE PRAWN, PALAEMON LONGIROSTRIS, FROM A NORTH SEA ESTUARY
10A.	Macaluso, A. L.; Sanders, R. W.: THE IMPORTANCE OF PHOTOENZYMIC DNA REPAIR IN TWO FRESHWATER PROTOZOA FOLLOWING ACUTE ULTRAVIOLET EXPOSURE
11A.	Porter, J. A.; Morris, D. P.: THE ROLE OF ULTRAVIOLET RADIATION IN THE ASSIMILATION AND FATE OF ALLOCHTHONOUS DISSOLVED ORGANIC CARBON
12A.	Ziegler, S. E.; Lyon, D. R.; Kopecky, A. L.: THE IMPACT OF SOLAR RADIATION ON HEADWATER STREAM DISSOLVED ORGANIC MATTER CYCLING

(→) represents Tutorial presentations

**TS-A11:
EXPERIMENTAL AND THEORETICAL APPROACHES TO CLIMATE
CHANGE**

- Chair(s): Morten Søndergaard, msondergaard@bi.ku.dk
 Erik Jeppesen, ej@dmu.dk
 Anthony Verschoor, A.verschoor@nioo.knaw.nl
 Lisette de Senerpont Domis, l.desenerpontdomis@nioo.knaw.nl
- Location: Victoria Conference Centre
- 14A. Kunz, T.J.; Hobday, A. J.; Richardson, A. J.: PROPAGATION OF CLIMATE-WARMING INDUCED CHANGES IN PHYSICAL PARAMETERS OF THE PELAGIC TO MID-TROPHIC LEVELS IN THE TASMAN SEA
- 15A. Ojala, A. K.; Tulonen, T. K.; Søndergaard, M.; Münster, U.; Saarinen, T.; Kairesalo, T.: DECOMPOSITION OF EMERGENT LITTORAL MACROPHYTES GROWN IN ELEVATED CO₂
- 16A. Speckmann, C. L.; Sanders, R. W.: THE EFFECT OF COLORED DISSOLVED ORGANIC MATTER (CDOM) ON GRAZING RATES OF ZOOPLANKTON ON NANOPLANKTON

**TS-B03:
ECOSYSTEM FUNCTIONS OF LARGE LOWLAND RIVERS – NATURAL
POTENTIAL AND ANTHROPOGENIC IMPACTS**

- Chair(s): Martin T. Pusch, pusch@igb-berlin.de
 Helmut Fischer, helmut.fischer@bafg.de
- Location: Victoria Conference Centre
- 18A. Woods, L. M.; Pick, F. R.; Holsworth, J.; Robin, M. J.: BENTHIC AND SUSPENDED ALgal BIOMASS VARIATIONS IN AN AGRICULTURALLY DOMINATED WATERSHED, RAISIN RIVER, CANADA

**TS-B06:
PATHWAYS THROUGH THE PLANKTON: AN INTEGRATION OF
PLANKTON ECOLOGY**

- Chair(s): Marie Perga, mperga@uvic.ca
 Blake Matthews, bmatthew@uvic.ca
- Location: Victoria Conference Centre
- 19A. Nakajima, R.; Toda, T.; Yoshida, T.; Othman, H. R.: SIZE COMPOSITION OF PARTICULATE ORGANIC MATTER IN A CORAL REEF PELAGIC ECOSYSTEM OF TIOMAN ISLAND, MALAYSIA
- 23A. Sandow, M.; Sommer, U.; Oschlies, A.: ALLOMETRIC SCALING OF PHYTOPLANKTON METABOLIC TURNOVER RATES FROM THE BALTIC SEA
- 24A. Shaber-Nelson, K. L.; Sulkin, S. D.: CRAB LARVAL TROPHIC ECOLOGY: FEEDING ON DINOFLAGELLATES BY LATE STAGE LARVAL CRABS RAISED IN THE LABORATORY AND COLLECTED FROM THE FIELD
- 25A. Uppaballung, A.; Kamermans, P.; Moodley, L.; Dijkman, N. A.; Houtekamer, M. J.; Herman, P.: FOOD SELECTIVITY OF ESTUARINE BIVALVES (MYTILUS EDULIS AND CRASSOSTREA GIGAS): INSIGHTS FROM FATTY ACID TROPHIC MARKERS

**TS-B20:
TRANSIENT DIAGENESIS: RECONSTRUCTING THE PAST AND
PREDICTING THE FUTURE**

- Chair(s): Caroline P. Slomp, slomp@geo.uu.nl
 Sergei Katsev, sergei@eps.mcgill.ca
- Location: Victoria Conference Centre
- 38A. Cobb, M.; Keen, T. R.; Furukawa, Y.: INVESTIGATING THE TEMPORAL AND DEPTH DEPENDENT BEHAVIOR OF BENTHIC LAYER BIOGEOCHEMISTRY USING A 1-D COUPLED HYDRODYNAMIC-BIOGEOCHEMISTRY MODEL
- 39A. Dale, A. W.; Van Cappellen, P.; Vlaming, G. A.; Regnier, P.: COMPETING BIOENERGETIC AND KINETIC CONTROLS ON BIOMASS GROWTH IN THE SULFATE-METHANE TRANSITION ZONE OF MARINE SEDIMENTS
- 40A. Davies, M. H.; Nittrouer, C. A.: CONTINUITY OF SEDIMENTATION ON THE WASHINGTON CONTINENTAL SHELF: STILL STEADY STATE AFTER 30 YEARS
- 41A. Reimers, C. E.; Wheatcroft, R. A.; D'Andrea, A. F.: BIOTURBATION AND THE DIAGENETIC STATE OF OREGON SHELF AND SLOPE SEDIMENTS, USA

**TS-B21:
PHYSICAL PROCESSES AND INTERACTIONS**

- Chair(s): Franciscus Colijn, colijn@gkss.de
 Henning Wehde, wehde@gkss.de
 Friedhelm Schroeder, friedhelm.schroeder@gkss.de
- Location: Victoria Conference Centre
- 42A. Brand, A.; Mueller, B.; Wueest, A.; Wehrli, B.: MEASURING HIGH RESOLUTION PROFILES OF FLOW AND DISSOLVED SPECIES IN A PREALPINE LAKE
- 43A. Crawford, W. R.; Pena, M. A.; Whitney, F. A.; Thomas, A. C.; Brickley, P. J.; Kachel, N. B.; Stabeno, P. J.: MESOSCALE DISTRIBUTION AND COMPOSITION OF PHYTOPLANKTON IN THE GULF OF ALASKA BASED ON SATELLITE AND SHIP-BOARD STUDIES
- 44A. Fernandez de Puelles Martinez, M. L.; Alou Font, E. A.; Jansa Clar, J.; Morillas, A.; Vicente, L.; Amengual, B.; Aparicio, A.; Lopez-Iurado, J. L.: ZOOPLANKTON DISTRIBUTION IN THE OPEN BALEARIC SEA FRONT DURING A COOL SPRING: 2005
- 45A. Lee, J. J.; Ryan, J. P.; Hamner, W. M.; Matsumoto, G.; Robison, B.: EUPHAUSIID SWARMS IN THE MONTEREY SUBMARINE CANYON AS SAMPLED WITH A REMOTELY OPERATED VEHICLE
- 46A. März, I.; Feudel, U.; Wirtz, K. W.: HOW DO PHYSICS AND BIOLOGY CONTROL THE DYNAMICS OF SUSPENDED AGGREGATES IN COASTAL WATERS?
- 47A. Niemistö, I. P.; Horppila, J.: THE CONTRIBUTION OF ICE COVER TO SEDIMENT RESUSPENSION IN A SHALLOW LAKE – POSSIBLE EFFECTS OF CLIMATE CHANGE ON INTERNAL NUTRIENT LOADING
- 48A. Rubash, L. L.; Kilanowski, E. M.: CONSISTENT AND ACCURATE CALCULATION OF ESTUARINE FLUSHING IN BELLINGHAM BAY USING AN OCEAN CIRCULATION NUMERICAL MODEL

**TS-B23:
CHEMICAL INTERACTIONS**

- Chair(s): Andrew Ridgwell, aridgwell@eos.ubc.ca
 Roger Francois, rfrancois@eos.ubc.ca
- Location: Victoria Conference Centre
- 28A. Inoue, Y.; Sasaki, T.; Furuno, M.; Fujiwara, K.: METAL EFFECT ON PHOTO-DECOMPOSITION OF POLYCYCLIC AROMATIC HYDROCARBONS IN AQUATIC MEDIA
- 29A. Peters, J. S.; Koch, M. S.: EXAMINING SULFUR BIOCHEMISTRY IN THE SEAGRASS THALASSIA TESTUDINUM USING A RADIOISOTOPE TRACER TECHNIQUE

**TS-B24:
NUTRIENT CYCLING**

- Chair(s): Sue Newman, snewman@sfwmd.gov
 Barbara Cade-Menun, bjcm@pangea.stanford.edu
- Location: Victoria Conference Centre
- 49A. Andrieux-Loyer, E.; Philippon, X.; Bally, G.; Kerouel, R.; Younen, A.; Le Grand, J.: PHOSPHORUS DYNAMICS AND BIOAVAILABILITY IN SEDIMENTS OF THE PENZE ESTUARY (NW FRANCE): RELATION TO ANNUAL P-FLUXES AND OCCURRENCES OF ALEXANDRINIUM MINUTUM.
- 50A. Golinski, A. L.; Smalley, G. W.: THE USE OF A SINGLE-CELL ALKALINE PHOSPHATASE ASSAY (ELF 97) TO DETERMINE PHOSPHORUS LIMITATION IN MIXOTROPHIC DINOFLAGELLATES
- 51A. Hahn, L. R.; Hill, A.; Anholt, B. R.; Mazumder, A.; Volpe, J.: SALMON FARM WASTES AS A POTENTIAL SOURCE OF NUTRIENTS TO ADJACENT INTERTIDAL COMMUNITIES IN CLAYOOQUOT SOUND, BRITISH COLUMBIA
- 52A. Hashihama, F.; Kanda, J.; Takeda, S.; Furuya, K.: PHOSPHATE DEPLETION IN THE SURFACE WATER OF THE WESTERN NORTH PACIFIC SUBTROPICAL BASIN
- 53A. Kim, C.; Nishimura, Y.; Nagata, T.: HIGH POTENTIAL ACTIVITY OF ALKALINE PHOSPHATASE IN THE BENTHIC NEPHELOID LAYER OF LAKE BIWA: IMPLICATIONS FOR P REGENERATION IN OXIC HYPOLIMNION
- 54A. Kostrzewski, I. M.; Brooks, P. D.: SOLUTE FLUX IN PAIRED WATERSHEDS, VALLES CALDERA NATIONAL PRESERVE, NM
- 55A. Saccone, L.; Conley, D. J.; Koning, E.; Sauer, D.; Sommer, M.: METHODOLOGIES FOR BIogenic AND AMORPHOUS SILICA IN AQUATIC SEDIMENTS AND SOILS
- 56A. Suzumura, M.: DISTRIBUTION OF PARTICULATE PHOSPHORUS IN A HEAVILY EUTROPHIC ESTUARY
- 57A. Weber, L.; Oschlies, A.; Voelker, C.; Burchard, H.: IMPORT AND EXPORT OF IRON IN THE UPPER WATER COLUMN OF THE OPEN OCEAN: A ONE-DIMENSIONAL MODEL APPROACH
- 58A. Wilcox, E. M.; Saros, J. E.: CATION INTERACTIONS WITH ALKALINE PHOSPHATASE ACTIVITY IN SALINE LAKES OF THE NORTHERN GREAT PLAINS, USA

(*) represents Invited presentations

**TS-C04:
LANDSCAPE LIMNOLOGY: INTERACTIONS AMONG LAND, WATER,
AND HUMANS AT MULTIPLE SPATIAL SCALES**

- Chair(s): Mary Bremigan, bremigan@msu.edu
 Kendra Spence Cheruvellil, spencek1@msu.edu
 Katherine Webster, katherine.webster@umit.maine.edu
 Patricia Soranno, soranno@msu.edu
- Location: Victoria Conference Centre
- 59A. Anderson, M. R.; Lucotte, M. M.; Roux, M. J.; Surette, C.; Teisserenc, R.; Lavigne, M.; The Lakes of the Boreal Forest Team, .. MERCURY IN LAKES OF THE BOREAL FOREST - FROM LANDSCAPE TO FISH
- 60A. Bremigan, M.; Beier, U.; Holmgren, K.; Pakkasmaa, S.; Cheruvellil, K. S.; Soranno, P.; Wagner, T.: QUANTIFYING LAKE - LANDSCAPE LINKAGES: COMPARING LANDSCAPE REGIONALIZATIONS FOR CAPTURING WATER CHEMISTRY AND FISH ASSEMBLAGE VARIATION AMONG SWEDISH LAKES
- 61A. Knoll, L. B.; Renwick, W. H.; Vanni, M. J.; Horgan, M. J.: BURIAL OF CARBON, NITROGEN AND PHOSPHORUS IN RESERVOIR SEDIMENTS ALONG A WATERSHED LAND USE GRADIENT
- 62A. Mazzucchi, D.; Hebd, R. J.: PRECIPITATION AND HIGH ELEVATION LANDSCAPES ON VANCOUVER ISLAND, BRITISH COLUMBIA, CANADA
- 63A. Schiff, S. L.; Venkiteswaran, J. J.; Wassenaar, L. I.: DYNAMICS OF DISSOLVED OXYGEN ISOTOPIC RATIOS: A TRANSIENT MODEL TO QUANTIFY PRIMARY PRODUCTION, RESPIRATION, AND AIR-WATER GAS EXCHANGE IN AQUATIC ECOSYSTEMS
- 64A. Nakayama, T.; Masataka Watanabe, M.: EFFECT OF UNDERGROUND URBAN STRUCTURES ON HYDROLOGIC BUDGET IN TOKYO METROPOLITAN AREA, JAPAN
- 65A. Wilson, H. F.; Xenopoulos, M. A.: LANDSCAPE INFLUENCES OF STREAM WATER QUALITY IN AGRICULTURAL CATCHMENTS

**TS-D06:
ASSESSING THE ENVIRONMENTAL QUALITY STATUS IN ESTUARINE
AND COASTAL SYSTEMS: COMPARING METHODOLOGIES AND
INDICES**

- Chair(s): Daniel Dauer, ddauer@odu.edu
 Angel Borja, aborja@pas.azti.es
- Location: Victoria Conference Centre
- 66A. Eyding, N. R.; deBruyn, A. M.; McNally, H.; Mazumder, A.: CHANGES IN CONTAMINANT CONCENTRATION IN MANILA CLAMS VENERUPIS PHILIPPINARUM AS A FUNCTION OF SPAWNING, SIZE AND PROXIMITY TO FINFISH AQUACULTURE SITES
- 67A. Wissel, B.; Quiñones-Rivera, Z. I.; Fry, B.; Justic, D.: STABLE ISOTOPE ANALYSES OF ORGANIC MATTER AND METABOLIC GASES (O₂ / CO₂) TO IMPROVE CARBON AND OXYGEN BUDGETS IN THE NORTHERN GULF OF MEXICO

**TS-E05:
FRESHWATER AND MARINE PROCESSES REGULATING SALMON
PRODUCTIVITY**

- Chair(s): Asit Mazumder, mazumder@uvic.ca
 Marc Trudel, trudelm@pac.dfo-mpo.gc.ca
- Location: Victoria Conference Centre
- 31A. Godbout, L.; Irvine, J. R.; Wood, C. C.; Hume, J.; Cameron, J.: RECOVERY OF SOCKEYE SALMON IN SAKINAW LAKE - AN ENDANGERED POPULATION: THE IMPORTANCE OF FRESHWATER HABITATS.
- 32A. Macneale, K. H.; Kiffney, P.; Scholz, N.; Sproxberg, I.; Baldwin, D.: EFFECTS OF PESTICIDES ON SALMONID FOOD WEBS: CURRENT KNOWLEDGE AND UNCERTAINTIES, AND IMPLICATIONS FOR ENDANGERED SALMON
- 33A. Stanford, J. A.; Hauer, R. F.; Lorang, M. S.; Ellis, B. K.; Kimball, J. S.: SALMONID RIVERS OBSERVATORY NETWORK (SARON)

**MULTI-CULTURAL INITIATIVE IN THE MARINE SCIENCES:
UNDERGRADUATE PARTICIPATION (MIMSUP)**

- Chair(s): Brian Bingham, Brian.Bingham@wwu.edu
- Location: Victoria Conference Centre
- 1MIMSUP. Flores, S.; Purcell, J. E.: AURELIA LABIATA BUDDING UNDER VARYING CONDITIONS OF TEMPERATURE AND LIGHT.
- 2MIMSUP. Garcia, C. C.; Menden-Deuer, S.: DO PHYTOPLANKTON CONCENTRATIONS INFLUENCE ZOOPLANKTON FEEDING?
- 3MIMSUP. Goris Rios, L.; Puglisi, M. P.; Van Alstyne, K.: BIOASSAY-GUIDED FRACTIONATION OF ECOLOGICALLY ACTIVE METABOLITES FROM MARINE ALGAE
- 4MIMSUP. Montanez, C.; Dinnel, P.A.: THE EFFECTS OF TEST CHAMBER SIZE, FOOD RATION AND PHOTOPERIOD ON PACIFIC HERRING SURVIVAL, FEEDING SUCCESS AND GROWTH
- 5MIMSUP. Rames, A. E.; Strom, S.: ALLELOPATHIC INTERACTIONS OF DIATOMS AND OTHER PHYTOPLANKTON
- 6MIMSUP. Rodriguez, G.; Sulkin, S.: MANIPULATING NUTRITIONAL VALUE OF THE ROTIFER BRACHIONUS PPLICATILIS AS PREY FOR THE FIRST ZOEAL STAGE OF THE DUNGENESS CRAB (CANCER MAGISTER)

(*) represents Tutorial presentations

TUESDAY, JUNE 6, 2006

RS03: ZOOPLANKTON

Chair(s):	Howard Riessen, riessehp@buffalostate.edu Dietmar Straile, dietmar.straile@uni-konstanz.de
Location:	Carson Hall C
2:00 pm	Avery, D. E.; Dam, H. G.: EVIDENCE FOR A POSITIVE EFFECT OF THE TOXIC ALGA ALEXANDRIUM FUNDYENSE ON THE COPEPOD ACARTIA HUDSONICA
2:15 pm	Persson, J.; Brett, M. T.; Vrede, T.: REGULATION OF DAPHNIA GROWTH EFFICIENCY BY FOOD QUANTITY AND FOOD QUALITY ACROSS A TROPHIC GRADIENT
2:30 pm	Ravet, J. L.; Persson, J.; Brett, M. T.: A CLOSER LOOK AT THE THRESHOLD CONCENTRATIONS OF DIETARY PUFA LIMITATION FOR DAPHNIA SOMATIC GROWTH AND REPRODUCTION
2:45 pm	Fink, P.; Arbaciauskas, K.; Lampert, W.: BIOCHEMICAL QUALITY OF DIAPAUSING AND PARTHENOGENETIC EGGS OF DAPHNIA SP. DEPENDING ON MATERNAL FEEDING CONDITIONS
3:00 pm	Reichwaldt, E. S.; Abrusán, G.: SIZE DEPENDENT DEPTH SELECTION OF DAPHNIA PULICARIA IN THE PRESENCE OF FILAMENTOUS BLUE GREENS
3:15 pm	Reichwaldt, E. S.; Abrusán, G.: ENVIRONMENTALLY INDUCED POPULATION COLLAPSE IN DAPHNIA
4:00 pm	Straile, D.: INTERANNUAL VARIABILITY IN FISH PREDATION AND RELATIVE SUCCESS OF A VERTICALLY MIGRATING AND A NON-MIGRATING DAPHNIA SPECIES - RESULTS FROM LONG-TERM DATA
4:15 pm	Trevett, J. B.; Riessen, H. P.: EFFECTIVENESS OF DAPHNIA NECK SPINES IN REDUCING CHAOBORUS PREDATION
4:30 pm	Riessen, H. P.: ADAPTIVE PATTERNS OF NECK SPINE FORMATION IN DAPHNIA
4:45 pm	Koch, U.; Straile, D.: CLONAL DIFFERENCES IN POPULATION GROWTH AND RESTING EGG PRODUCTION IN DAPHNIA GALEATA: SHORT-TERM AND LONG-TERM APPROACHES
5:00 pm	Bi, H.; Benfield, M. C.; Rose, K. A.: ASSESSING DIFFERENT TECHNIQUES FOR ESTIMATION OF COPEPOD STAGE-SPECIFIC MORTALITY RATES IN OPEN WATERS
5:15 pm	Andersen, C. M.; Svensson, S.; Gorokhova, E.: DOES FISH PREDATION AFFECT GROWTH AND REPRODUCTION OF THE INVASIVE PREDATORY CLADOCERAN CERCOPAGIS PENGUIN IN THE NORTHERN BALTIMORE PROPER?

TS-A11: EXPERIMENTAL AND THEORETICAL APPROACHES TO CLIMATE CHANGE

Chair(s):	Morten Sondergaard, msondergaard@bi.ku.dk Erik Jeppesen, ej@dmu.dk Anthony Verschoor, A.verschoor@nioo.knaw.nl Lisette de Senerpont Domis, l.desenerpontdomis@nioo.knaw.nl
Location:	Esquimalt
10:45 am	Vinebrooke, R. D.: CONTEXT DEPENDENCY OF EXPERIMENTAL CLIMATE IMPACTS ON AQUATIC ECOSYSTEMS-
11:15 am	Crossin, G. T.; Hinch, S. G.; Cooke, S. J.; Welch, D. W.; Patterson, D. A.; Farrell, A. P.: BEHAVIOUR, PHYSIOLOGY, AND SURVIVAL OF HOMING SOCKEYE SALMON EXPOSED TO TEMPERATURES REFLECTIVE OF RECENT CLIMATE CHANGE IN THE FRASER RIVER, BRITISH COLUMBIA
11:30 am	Kilmister, K. L.: CHANGES IN GROWTH, INTERNODE-DISTANCE AND NUTRIENT CONCENTRATIONS OF THE SEAGRASS HALOPHILA OVALIS WITH EXPOSURE TO SEDIMENT SULPHIDE
11:45 am	Hammrich, A.; Flury, S.; Steiner, D.; Gessner, M. O.: EFFECTS OF WARMING AND NITRATE ENRICHMENT ON LITTER MINERALIZATION IN A FRESHWATER MARSH
12:00 pm	Søndergaard, M.: CLIMATE CHANGE AND AUTOCHTHONOUS DOC PRODUCTION IN EXPERIMENTAL FRESHWATER PONDS
2:00 pm	Evans, D. O.; Mazumder, A.: SIZE-SELECTIVE REGULATION OF SPORT FISHING AND FOODWEB DYNAMICS OF LAKE TROUT
2:15 pm	Feuchtmayr, H.; Atkinson, D.; Harvey, I.; McKee, D.; Moss, B.: ON THE IMPACT OF CLIMATE CHANGE ON SHALLOW LAKES - TWO LARGE-SCALE EXPERIMENTAL APPROACHES
2:30 pm	Rose, J. M.; Caron, D. A.; Gast, R. J.: TEMPERATURE EFFECTS ON AQUATIC MICROBIAL FOOD WEB DYNAMICS
2:45 pm	Watts, J. M.; Elser, J. J.: RESPONSE OF A BENTHIC INVERTEBRATE TO ENVIRONMENTAL VARIANCE: A STOICHIOMETRIC PROSPECTIVE
3:00 pm	Litchman, E.: THE ROLE OF PHYTOPLANKTON TRAITS AND TRADE-OFFS IN DETERMINING COMMUNITY STRUCTURE UNDER CHANGING CLIMATE
3:15 pm	Verschoor, A. M.; Van Dijk, M.; Van Donk, E.; Huisman, J.: EFFECTS OF RISING CO ₂ LEVELS ON PHYTOPLANKTON STOICHIOMETRY AND COMMUNITY COMPOSITION

4:00 pm	Fu, F.; Zhang, Y.; Feng, Y.; Warner, M.; Hutchins, D. A.: EFFECTS OF INCREASED TEMPERATURE AND CARBON DIOXIDE ON PHOTOSYNTHESIS, GROWTH AND ELEMENTAL RATIOS IN MARINE CYANOBACTERIA SYNECHOCOCCUS AND PROCHLOROCOCCUS
4:15 pm	Blenckner, T.; Hillebrand, H.: CLIMATE VARIABILITY EFFECTS ON SPECIES DIVERSITY
4:30 pm	Burgmer, T.; Hillebrand, H.; Pfenninger, M.: THE EFFECTS OF GLOBAL WARMING ON AQUATIC COMMUNITIES: SIGNALS OF CLIMATE CHANGE IN TIME SERIES
4:45 pm	Kraberg, A. C.; Helling, D.; Grayek, S.; Wilshire, K. H.: HETEROTROPHIC DINOFLAGELLATE BIODIVERSITY AND ECOLOGY AT THE HELGOLAND ROADS LONG-TERM MONITORING STATION IN RELATION TO CHANGING PREY AVAILABILITY
5:00 pm	Wagner, A.; Benndorf, J.: CLIMATE-DRIVEN WARMING DURING SPRING DESTABILIZES A KEYSTONE POPULATION IN A TEMPERATE LAKE
5:15 pm	Graham, M. D.; Vinebrooke, R. D.: EXTREME CLIMATIC EVENTS DECOUPLE PLANKTONIC CONSUMERS AND PRODUCERS

TS-B06: PATHWAYS THROUGH THE PLANKTON: AN INTEGRATION OF PLANKTON ECOLOGY

Chair(s):	Marie Perga, mperga@uvic.ca Blake Matthews, bmatthew@uvic.ca
Location:	Carson Hall C
10:45 am	Dupuy, C.; Hartmann, H. J.; Marquis, E.; Nejstgaard, J.: OMNIVORY BY NATURAL COMMUNITY OF COPEPODS AND FISH LARVAE IN THE BAY OF BISCAY DURING A POST-BLOOM PERIOD
11:00 am	Troedsson, C.; Frischer, M. E.; Nejstgaard, J. C.; Thompson, E. M.: MOLECULAR QUANTIFICATION OF DIFFERENTIAL INGESTION AND PARTICLE TRAPPING RATES BY THE APPENDICULARIAN OIKopleura dioica, AS A FUNCTION OF PREY SIZE AND SHAPE.
11:15 am	Acharya, K.; Bukaevkas, P. A.; Jack, J. D.; Kyle, M.; Elser, J. J.: BOSMINA GROWTH LINKED TO DIET AND RNA: PHOSPHORUS STOICHIOMETRY AND RESPONSE TO VARIATION IN RIVERINE FOOD RESOURCES
11:30 am	Brett, M. T.; Ravet, J. L.: LAKE FERTILIZATION REGIMES TO ENHANCE WATER QUALITY AND FISHERIES PRODUCTION
11:45 am	Malzahn, A. M.; Aberle-Malzahn, N.; Clemmesen, C.; Boersma, M.: PRIMARY PRODUCTION UNDER NUTRIENT LIMITATION INDIRECTLY AFFECTS LARVAL FISH CONDITION
12:00 pm	Perga, M. E.; Kainz, M.; Mazumder, A.: ZOOPLANKTON FEEDING SELECTIVITY ON ISOTOPICALLY HETEROGENEOUS PHYTOPLANKTON CHALLENGES CLASSIC STABLE ISOTOPE ANALYSES OF ORIGINS OF ZOOPLANKTON CARBON.

TS-B10: APPLICATION OF NEW SENSORS FOR THE STUDY OF CHEMICAL BIOLOGICAL PROCESSES IN MARINE WATERS

Chair(s):	Franciscus Colijn, colijn@gkss.de Henning Wehde, wehde@gkss.de Friedhelm Schroeder, friedhelm.schroeder@gkss.de
Location:	Lecture Theatre
2:00 pm	Schroeder, F.; Petersen, W.: TUTORIAL: OPTICAL AND CHEMICAL SENSORS FOR OCEAN OBSERVING - HOW USEFUL ARE THEY AND WHAT INFORMATION CAN THEY DELIVER?
2:30 pm	Petersen, W.; Wehde, H.; Gehring, M.; Schroeder, F.: HIGH FREQUENT OBSERVATIONS OF CHLOROPHYLL, NUTRIENTS, OXYGEN AND PH BY FERRYBOXES FOR ASSESSMENT OF THE EUTROPHICATION IN THE NORTH SEA
2:45 pm	Qurban, M. A.; Hydes, D. J.; Holligan, P.; Kelly-Gerrey, B. A.; Walne, A.: VARIATIONS IN PHYTOPLANKTON SPECIATION & GROWTH DUE TO HYDRODYNAMIC & CHEMICAL DRIVERS BETWEEN COASTAL & OPEN WATERS: ACROSS THE NORTH WEST EUROPEAN SHELFBREAK
3:00 pm	Heuermann, R.; Kroeger, K.; Gehring, M.: ADVANTAGES OF REAGENT FREE CONTINUOUS NITRATE MEASUREMENT TECHNOLOGY USING UV ABSORPTION
3:15 pm	Kroeger, K.; Frank, C.; Kramer, R.; Lehmann, H.; Weigelt-Krenz, S.; Schwotzer, G.: DEVELOPMENT OF A FAST MINIATURISED NUTRIENT ANALYSER FOR APPLICATIONS ON FERRIES AND IN TOWFISHES
4:00 pm	Dubelaar, G. B.; Gerritsen, P. L.: ONLINE FLOW CYTOMETRY
4:15 pm	Attridge, J. W.; Dunning, T. J.: FASTTRACK II A SECOND GENERATION FAST REPETITION RATE FLUORIMETER
4:30 pm	Corno, G.; Letelier, R. M.; Abbott, M. R.; Karl, D. M.: IN SITU FAST REPETITION RATE FLUOROMETRY AT STATION ALOHA: METHODOLOGICAL AND THEORETICAL CONSIDERATIONS
4:45 pm	Cembella, A. D.; Ibarra, D. A.; Cullen, J. J.; Lewis, N. I.; Rafuse, C.; Diogene, J.; Fernandez, M.; Elandaloussi, L.; Blasco, D.: IN SITU DETECTION OF HARMFUL ALGAL BLOOMS AND THEIR TOXINS IN COASTAL EMBAINTMENTS

(*) represents Invited presentations

TUESDAY

5:00 pm	MacIntyre, H. L.; Richardson, T. L.; Stutes, A. L.; Cox, R.: TAXONOMIC DISCRIMINATION BETWEEN MICROALGAE USING SPECTRAL FLUORESCENCE EXCITATION AND LASER-INDUCED HYPERSPECTRAL FLUORESCENCE EMISSION AND SCATTERING
5:15 pm	Trela, P.; Deibel, D.: FINE-SCALE VERTICAL DISTRIBUTION OF ZOOPLANKTON IN THE BEAUFORT SEA RECORDED USING A VIDEO PLANKTON RECORDER

**TS-B17:
ECOLOGY, PHYSIOLOGY AND MOLECULAR BIOLOGY OF CYANOBACTERIA ALONG THE FRESHWATER-MARINE CONTINUUM**

Chair(s):	Hans Paerl, hans_pael@unc.edu Juli Dyble, juli.dyble@noaa.gov
Location:	Oak Bay
2:00 pm	Pael, H. W.; Moisander, P. H.; Dyble, J.; Joyner, J.; Piehler, M. F.: LETTING THE CYANOHABS TELL US: USING ECOPHYSIOLOGICAL AND ENVIRONMENTAL CUES FOR BLOOM MANAGEMENT
2:15 pm	Graneli, E.: WILL A REDUCED PHOSPHORUS INPUT TO THE BALTIMORE SEA DECREASE THE SIZE AND TOXICITY OF CYANOBACTERIA BLOOMS?
2:30 pm	Vahtera, E.; Laamanen, M.; Laanemets, J.; Pavelson, J.: PHOSPHORUS DYNAMICS OF CYANOBACTERIA BLOOM COMMUNITIES IN THE BALTIMORE SEA
2:45 pm	Lips, J.; Lips, U.: CYANOBACTERIAL BLOOMS IN THE GULF OF FINLAND (BALTIMORE SEA) - THE INFLUENCE OF NUTRIENT CONDITIONS AND METEOROLOGICAL FACTORS
3:00 pm	Gons, H. J.; Hoogveld, H. L.; Kromkamp, J. C.; Simis, S. G.: HORIZONTAL DIVERSIFICATION OF PLANKTONIC CYANOBACTERIA IN A LARGE, SHALLOW AND EUTROPHIC FRESHWATER LAGOON
3:15 pm	Klug, J. L.; Osier, T. L.; Boyle, S.; Worth, C.; Sedlack, E.: IMPACTS OF EXPERIMENTAL REDUCTION OF THE TN:TP RATIO ON HETEROCYST PRODUCTION IN AND RELATIVE ABUNDANCE OF CYANOBACTERIA
4:00 pm	Glibert, P. M.; Heil, C. A.; Alexander, J.; Revilla, M.; Murasko, S.: UREA UPTAKE IS POSITIVELY CORRELATED WITH THE FRACTION OF CYANOBACTERIA IN FLORIDA COASTAL WATERS
4:15 pm	Dyble, J.; Fahnstiel, G. L.; Tester, P. A.; Litaker, R. W.; Millie, D. F.: DETECTION OF TOXIC MICROCYSTIS STRAINS IN THE LOWER GREAT LAKES
4:30 pm	Davalos-Lind, L. O.; Lind, O. T.: CYLINDROSPERMOPSIS: SEASONAL AND SPATIAL ABUNDANCE AND ECOLOGY IN A TROPICAL MEXICAN LAKE
4:45 pm	Burns, J. W.; Stewart, I.; Shaw, G.; Joyner, J.; Paerl, H.: ECOLOGY AND ENVIRONMENTAL TOXICOLOGY OF LYNGBYA IN FLORIDA'S FRESHWATER SPRINGS AND MARINE ENVIRONMENTS
5:00 pm	Capper, A.; Paul, V. J.: GRAZER INTERACTIONS WITH THREE SPECIES OF LYNGBYA IN SOUTHEAST FLORIDA
5:15 pm	Ross, C.; Paul, V. J.: SIGNAL TRANSDUCTION IN THE CYANOBACTERIA LYNGBYA CONFEROIDES AND L. POLYCHROA: ECOLOGICAL IMPLICATIONS OF REACTIVE OXYGEN AND REACTIVE NITROGEN SPECIES

**TS-B19:
DO VIRUSES CONTROL MICROBIAL ECOSYSTEMS?**

Chair(s):	Eric Wommack Corina Brussaard, corina.brussaard@nioz.nl
Location:	Carson Hall A
10:45 am	Wilson, W. H.: FROM PCR TO MICROARRAYS: WHAT CAN A MOLECULAR TOOLBOX TELL US ABOUT THE ECOLOGY OF COCCOLITHOVIRUSES?
11:15 am	Young, L. M.; Pollard, P. C.: IDENTIFICATION OF A VIRULENT CYANOPHAGE SPECIFIC FOR THE CYANOBACTERIUM CYLINDROSPERMOPSIS RACIBORSKII
11:30 am	Argo, J. A.; Pollard, P. C.: VIRAL IMPACT ON THE CYANOBACTERIUM MICROCYSTIS AERUGINOSA IN A SUBTROPICAL AUSTRALIAN LAKE
11:45 am	Sahlsten, E.; Eissler, Y.: VIRUSES AND MICROALGAE IN THE BALTIMORE SEA
12:00 pm	Martinez Martinez, L.; Brussaard, C.: MICROMONAS PUSILLA-SPECIFIC VIRUSES: CHARACTERISTICS IN RELATION TO GEOGRAPHICAL ORIGIN
2:00 pm	Lawrence, J. E.; Simmonds, A.; Nemcek, N.; Short, C.; Suttle, C. A.: ABUNDANCE, DISTRIBUTION AND CHARACTERIZATION OF VIRUSES INFECTING MICROMONAS PUSILLA FROM COASTAL MARINE SEDIMENTS
2:15 pm	Nagasaki, K.; Mizumoto, H.; Shirai, Y.; Takao, Y.; Tomaru, Y.: HOST RANGE-CONTROLLING MECHANISM OF A DINOFLAGELATE-INFECTING RNA VIRUS
2:30 pm	Brussaard, C.: VIRAL LYSIS RATES OF P. GLOBOSA INFECTED BY VIRUS ABUNDANCE
2:45 pm	Paesani, V. L.; Lawrence, J. E.: EXAMINING ALGAL VIRUS RECEPTORS USING CONFOCAL LASER MICROSCOPY
3:00 pm	Hendrix, R. W.: BACTERIOPHAGES: THE DOMINANT LIFE FORM*
3:15 pm	Chen, F.; Wang, K.; Stewart, J.; Belas, R.: INDUCTION OF MULTIPLE PROPHAGES FROM A MARINE ROSEOBACTERIUM, A GENOMIC APPROACH

4:00 pm	Chénard, C.; McDaniel, L.; Paul, J. H.; Suttle, C. A.: PHYLOGENETIC COMPARISON OF PHOTOSYNTHETIC GENES IN CYANOPHAGES AND THEIR HOSTS
4:15 pm	O'Mara, K. L.; Wang, K.; Kan, J.; Bench, S.; Hanson, T. E.; Wommack, K. E.; Chen, F.: GENETIC DIVERSITY AND SEASONAL PATTERNS OF CYANOPHAGE PSBA GENE IN THE ESTUARINE ENVIRONMENT REVEALED BY A NEWLY DESIGNED PCR PRIMER SET
4:30 pm	Wang, K.; Chen, F.: SEASONAL SUCCESSIONS AND GENETIC DIVERSITIES OF ESTUARINE SYNECHOCOCCUS AND THEIR CO-OCCURRING PHAGES: A THREE-YEAR SURVEY IN CHESAPEAKE BAY.
4:45 pm	Culley, A. L.; Suttle, C. A.: ANALYSES OF TWO MARINE RNA VIRUS SHOTGUN LIBRARIES REVEAL A RESERVOIR OF NOVEL PATHOGENS
5:00 pm	Rohwer, F.; Edwards, R.; Breitbart, M.; Kelley, S.; Salamon, P.; Nulton, J.; Felts, B.; Mahaffy, J.; Mueller, J.; Carlson, C.; Parsons, R.; Chan, A. M.; Haynes, M.; Angly, F.; Suttle, C. A.: METAGENOMIC ANALYSIS REVEALS BIOGEOGRAPHY WITHIN MARINE VIRUS COMMUNITIES AND THAT SEQUENCES FROM CYANOPHAGES AND SSDNA VIRUSES ARE COMMON
5:15 pm	Clasen, J. L.; Suttle, C. A.: TEMPORAL VARIATION IN THE VIRIOPLANKTON COMMUNITIES OF TWO NORTH TEMPERATE LAKES: EVIDENCE THAT VIRUSES INFLUENCE PHYTOPLANKTON COMMUNITY COMPOSITION.

**TS-B24:
NUTRIENT CYCLING**

Chair(s):	Sue Newman, snewman@sfwmd.gov Barbara Cade-Menun, bjcm@pangea.stanford.edu
Location:	Empress Hotel
10:45 am	Hill, J. E.; Elimelech, M.; Cade-Menun, B.: 31P NMR TRANSECT STUDY OF POULTRY OPERATIONS ON THE DELMARVA PENINSULA
11:00 am	Monbet, P.; Saefumillah, A.; McKelvie, I. D.; Worsfold, P.: CHARACTERIZATION OF DISSOLVED ORGANIC P IN EUTROPHIC SEDIMENT POREWATER OF GIPPSLAND LAKES (AUSTRALIA) WITH SEQUENTIAL ENZYMIC HYDROLYSIS EXTRACTION
11:15 am	Cotter, J. B.; Hall, E. K.; Heldal, M.: FRESHWATER PROKARYOTIC HETEROTROPHS ARE MORE P-DEPLETED THAN MARINE BACTERIA: IMPLICATIONS FOR BIOGEOCHEMICAL DYNAMICS
11:30 am	Cyr, H.; Nurnberg, G. K.: DOES SEDIMENT RESUSPENSION CONTRIBUTE TO PHOSPHORUS LOADING IN LITTORAL AREAS OF AN OLIGOTROPHIC LAKE?
11:45 am	Lake, B. A.; Amirbahman, A.; Norton, S. A.: FACTORS CONTRIBUTING TO THE INTERNAL LOADING OF PHOSPHORUS FROM ANOXIC SEDIMENTS IN NINE MAINE LAKES WITH HIGH DOC CONCENTRATION
12:00 pm	McDonald, C. P.; Urban, N. R.: MODELING THE ROLES OF PHYTOPLANKTON AND BACTERIA IN NUTRIENT CYCLING IN LAKE SUPERIOR, USA
2:00 pm	Turner, B. L.; Newman, S.; Reddy, K. R.: OVERESTIMATION OF ORGANIC PHOSPHORUS IN WETLAND SEDIMENTS BY ALKALINE EXTRACTION AND MOLYBDATE COLORIMETRY
2:15 pm	Bally, G.; Andrieux-Loyer, F.; Verney, R.; Kerouel, R.; Philippon, X.; Youennou, A.: DO MACROTIDAL HYDRODYNAMIC CONDITIONS INFLUENCE NUTRIENT RELEASE AT THE SEDIMENT WATER-INTERFACE: EXAMPLE OF THE PENZE ESTUARY (BRITTANY, FRANCE)?
2:30 pm	Childers, D. L.: SIX YEARS OF RESEARCH IN THE OLIGOTROPHIC "UPSIDE-DOWN" ESTUARIES OF THE FLORIDA COASTAL EVERGLADES LTER PROGRAM
2:45 pm	Hartzell, L. L.; Jordan, T. E.: THE ROLE OF IRON MINERALS IN SEQUESTERING PHOSPHORUS ALONG AN ESTUARINE SALINITY GRADIENT
3:00 pm	Nielsen, O. L.; Koch, M. S.; Jensen, H. S.; Madden, C. J.: INORGANIC PHOSPHATE UPTAKE KINETICS FROM SEAGRASS ECOSYSTEM COMPONENTS OF FINE GRAINED CARBONATE ENVIRONMENTS
3:15 pm	Duhamel, S.; Moutin, T.; Van Wambeke, F.; Rimmelin, P.; Ulloa, O.; Clastre, H.: DISTRIBUTION, DYNAMICS AND AVAILABILITY OF VARIOUS POOL OF PHOSPHATE IN THE SE PACIFIC OCEAN (BIOSCOPE CRUISE)
4:00 pm	Orchard, E. D.; Haley, S. T.; Dyhrman, S. T.: USING MOLECULAR TECHNIQUES TO EXAMINE THE PHOSPHORUS PHYSIOLOGY OF THE MARINE DIAZOTROPH TRICHODESMIUM ERYTHRHAEUM
4:15 pm	Ranhofer, M. L.; Benitez-Nelson, C.; Thunell, R.; Styles, R.: DISTRIBUTION, FLUXES AND POTENTIAL SOURCES OF SINKING PARTICULATE PHOSPHORUS IN THE CARIACO BASIN, VENEZUELA
4:30 pm	Xu, J.; Ho, A.; Yuan, X. C.; Yin, K. D.; Harrison, P. J.: INORGANIC PHOSPHORUS UPTAKE BY BACTERIA AND PHYTOPLANTON IN THE SOUTH CHINA SEA
4:45 pm	Jensen, H. S.; Nielsen, O. L.; Koch, M. S.; de Vicente, I.: THE ROLE OF SULFIDE OXIDATION IN MOBILIZING PHOSPHORUS IN CARBONATE-DOMINATED SEAGRASS SEDIMENTS OF FLORIDA BAY
5:00 pm	Flaum, J. A.; Sageman, B. B.; Hurtgen, M.; Dejtrakulwong, P.: CONTROLS ON PHOSPHORUS CYCLING DURING CREACEOUS OCEANIC ANOXIC EVENTS

(*) represents Tutorial presentations

**TS-C10:
CARBON IN LAKES AND RESERVOIRS**

Chair(s): Marco Aurélio dos Santos, aurelio@ppe.ufrj.br
 André Cimberlis, andrec@furnas.com.br
 Yves Prairie, prairie.yves@uqam.ca

Location: Saanich I & 2

- 10:45 am Cole, J. L.: DO RESERVOIRS MATTER IN THE REGIONAL OR GLOBAL CARBON BALANCE: A TUTORIAL AND REVIEW~
 Prairie, Y. T.; Cole, J. J.; Duarte, C. M.; Downing, J. A.; Sobek, S.; Tranvik, L. J.; Melack, J.: TOOLS FOR THE UPSCALING OF CARBON DIOXIDE FLUX FROM LAKES TO A GLOBAL SCALE
- II:15 am Downing, J. A.; Middelburg, J.; Cole, J. J.; Duarte, C. M.; Kortelainen, P.; Prairie, Y. T.; Laube, K. A.: GLOBAL CARBON BURIAL IN AGRICULTURAL IMPOUNDMENTS
- II:30 am Venkiteswaran, J. J.; Schiff, S. L.; St. Louis, V. L.; Beaty, K. G.; Bodaly, R. A.: IS FLOODING WETLANDS DIFFERENT THAN FLOODING UPLANDS?
- II:45 am Asada, T.; Schiff, S. L.; Warner, B. G.; Kelly, C. A.; St. Louis, V. L.; Rudd, J. W.; Saquet, M. A.; Mackenzie, C. D.; Hesslein, R. H.; Venkiteswaran, J. J.; Elgood, R.: EXPERIMENTAL FLOODING OF A BOREAL PEATLAND-POND COMPLEX: CHANGES IN CARBON POOLS AND BALANCES
- 2:00 pm Emmerton, C. A.; Lesack, L. F.; Vincent, W. F.: CHANGES IN RIVER-BORNE NUTRIENTS DOWNSTREAM THROUGH THE MACKENZIE DELTA
- 2:15 pm Lesack, L.: Emmerton, C.; Marsh, P.: RECONCILIATION OF WATER STORAGE IN THE MACKENZIE DELTA WITH MACKENZIE RIVER DISCHARGE: IMPLICATIONS FOR NUTRIENT FLUXES TO THE BEAUFORT SHELF
- 2:30 pm Tremblay, A.; Prairie, Y. T.; Del Giorgio, P.; Garneau, M.; Roehm, C.; Pelletier, L.: EASTMAIN-I PROJECT, NET GHG EMISSIONS AND THE CARBON BUDGET
- 2:45 pm Varfalvy, L.; Roy, D.; Hélia, J. F.: ADVANTAGES AND LIMITATIONS OF ALTERNATE MEASUREMENT TECHNIQUES TO FLOATING CHAMBERS FOR ASSESSING GREENHOUSE GAS FLUXES FROM HYDRO RESERVOIRS
- 3:00 pm Lima, I. B.; Ramos, F. M.; Mazzi, E. A.; Ometto, J. P.; Rasera, M. F.; Assireu, A. T.; Rosa, R. R.; Novo, E. M.; Stech, J. L.: MANAGEMENT STRATEGIES TO MINIMIZE BACTERIAL METHANE EMISSION FROM TROPICAL HYDRORESERVOIRS
- 3:15 pm Ramos, F. M.; Lima, I. B.; Mazzi, E. A.; Ometto, J. P.; Rasera, M. F.; Assireu, A. T.; Rosa, R. R.; Stech, J. L.: EXTREME EVENT DYNAMICS IN METHANE BUBBLING FROM TROPICAL RESERVOIRS
- 4:00 pm Lorenzetti, J. A.; Lima, I. B.; Assireu, A. T.; Stech, J. L.: THE EFFECT OF COLD FRONTS OVER THE EMISSION PATTERNS OF CO₂ AND CH₄ IN BRAZILIAN TROPICAL RESERVOIRS
- 4:15 pm Stech, J. L.; Assireu, A. T.; Lorenzetti, J. L.; Novo, E. M.; Lima, I. B.; Ramos, F.: THE FITTING OF WEIBULL PDF FOR SURFACE WINDS OBSERVED IN LOW LATITUDE BRAZILIAN LAKES AND HYDROELECTRIC RESERVOIRS
- 4:30 pm Dos Santos, M. A.; Matvienko, B.; Rosa, L. P.; Silva, C.; Costa, R. S.; Sikar, E.; Rocha, C. H.; Silva, M. B.; Junior, A. P.: LAND USE-STREAM CARBON FLUXES RELATIONSHIP IN A SMALL WATERSHED OF A TROPICAL HYDRO RESERVOIR, BRAZIL
- 4:45 pm Abe, D. S.; Sidagis-Galli, C.; Adams, D. D.; Tundisi, J. G.; Matsumura-Tundisi, T.; Tundisi, J. E.; Cimberlis, A. P.; Barros, P. B.: GREENHOUSE GAS CONCENTRATIONS AND DIFFUSIVE FLUX AT THE SEDIMENT-WATER INTERFACE FROM 5 TROPICAL RESERVOIRS IN BRAZIL: TROPHIC STATUS CONSIDERATION
- 5:00 pm Roland, F.; Vidal, L.; Cole, J. J.; Cimberlis, A. P.: HETEROTROPHIC PATHWAYS ON CARBON BALANCE IN TROPICAL RESERVOIRS
- 5:15 pm Cimberlis, A. P.; Brum, P. R.; Soares, C. B.; Roland, F.; Cesar, D. E.; Rosa, L. P.; Santos, M. A.; Sikar, B. M.; Tundisi, J. G.; Abe, D. S.; Stech, J. L.; Novo, E.: CARBON BUDGET IN TWO NEOTROPICAL RESERVOIRS

**TS-D06:
ASSESSING THE ENVIRONMENTAL QUALITY STATUS IN ESTUARINE AND COASTAL SYSTEMS: COMPARING METHODOLOGIES AND INDICES**

Chair(s): Daniel Dauer, ddauer@odu.edu
 Angel Borja, aborja@pas.azti.es

Location: Oak Bay

- 10:45 am Patrício, J.; Salas, F.; Neto, J. M.; Teixeira, H. L.; Marques, J. C.: DIFFERENT ECOLOGICAL INDICATORS PERFORMANCE IN ASSESSING ENVIRONMENTAL STATUS: A CASE STUDY ON ESTUARINE EUTROPHICATION
- II:00 am Anderson, I. C.; Schaffner, L. C.; Stanhope, J. W.: RELATIONSHIPS BETWEEN B-IBI SCORES AND ECOSYSTEM FUNCTION ALONG GRADIENTS OF DISTURBANCE AND SALINITY IN CHESAPEAKE BAY, USA
- II:15 am Teixeira, H. L.; Salas, F.; Borja, A.; Marques, J. C.: ESTUARINE ECOSYSTEMS: CONTROVERSIAL ENVIRONMENTS WHEN DEALING WITH ECOLOGICAL STATUS ASSESSMENT TOOLS. THE CASE OF MONDEGO ESTUARY (PORTUGAL)

- II:30 am Llanso, R. J.; Volstad, J. H.; Dauer, D. M.: COMPARISON OF BENTHIC CONDITION INDICES AND ASSESSMENTS IN CHESAPEAKE BAY, USA
- II:45 am Gallahger, E. D.; Maciolek, N. J.; Blake, J. A.; Diaz, R. J.; Kropp, R.; Keay, K. E.: DID THE MASSACHUSETTS SEWAGE EFFLUENT OUTFALL AFFECT THE SOFT-BOTTOM BENTHOS? NO.
- 12:00 pm Flo, E.; Camp, I.: PHYSICAL-CHEMICAL HETEROGENEITY OF COASTAL SEAWATER AND ITS IMPLICATIONS IN QUALITY EVALUATION

**TS-E03:
DETECTION AND FORECASTING OF HARMFUL ALGAL BLOOMS**

Chair(s): Robert Magnien, rob.magnien@noaa.gov
 Gregory Boyer, gboyer@esf.edu
 Vera Trainer, Vera.L.Trainer@noaa.gov

Location: Lecture Theatre

- 10:45 am Brown, C. W.; Gross, T. F.; Hood, R. R.; Ramers, D. L.; Tango, P. J.; Michael, B. D.: IMPLEMENTATION OF AN OPERATIONAL HARMFUL ALGAL BLOOM PREDICTION SYSTEM IN CHESAPEAKE BAY
- II:00 am Stumpf, R. P.; Tomlinson, M. C.; Wynne, T. T.: TOWARDS THE DEVELOPMENT OF A NATIONAL HAB FORECAST SYSTEM
- II:15 am Gower, J.; King, S.; Borstad, G.; Willis, P.; Iapalo, M.; D'Elia, S.; Datcu, M.: A GLOBAL SEARCH FOR PLANKTON BLOOMS USING MERIS
- II:30 am Frischer, M. E.; Lee, R. F.: EVIDENCE FOR A FREE-LIVING LIFE STAGE OF THE BLUE CRAB PARASITIC DINOFLAGELLATE, HEMATODINIUM SP.
- II:45 am Connell, L. B.; Smith, R.: FUNCTIONALIZED NANOPARTICLES AND DIELECTROPHORETIC DETECTION OF HARMFUL ALGAE
- 12:00 pm Litaker, R. W.; Vandersea, M. W.; Kibler, S. R.; Tester, P. A.: MOLECULAR RECOGNITION OF HARMFUL DINOFLAGELLATE SPECIES

**TS-E10:
FISH AND FISHERIES ECOLOGY**

Chair(s): Vladlena Gertseva, vladlena.gertseva@oregonstate.edu

Location: Carson Hall B

- 10:45 am Olson, R. J.; Graham, B. S.; Popp, B. N.; Allain, V.; Galván-Magaña, F.; Fry, B.: INSIGHTS INTO THE TROPHIC ECOLOGY OF PELAGIC ECOSYSTEMS IN THE TROPICAL PACIFIC OCEAN USING STABLE ISOTOPE ANALYSIS
- II:00 am O'Brien, W. J.; Hershey, A. E.; Holland, V. B.; Luecke, C.; Whalen, S.: FISH IN ARCTIC LAKES:STRONG BENTHIC-PELAGIC INTEGRATORS
- II:15 am Karimi, R.; Chen, C. Y.; Folt, C. L.: EVIDENCE THAT BENTHIVORY REDUCES MERCURY ACCUMULATION IN FRESHWATER FISH
- II:30 am Paszkowski, C. A.; Earle, S. N.: THE ROLE OF THE DOUBLE-CRESTED CORMORANT IN THE FOOD WEBS OF BOREAL LAKES
- II:45 am Azzara, A. L.; Aaron, T.; Biggs, D. C.; DiMarco, S.: COMPARISON OF DEEP SCATTERING LAYER DEPTH VARIATION TO SPERM WHALE FORAGING BEHAVIOR IN THE GULF OF MEXICO
- 12:00 pm Richert, J. E.; Cervantes-Duarte, R.; Gonzalez-Armas, R.; Galvan-Magana, F.; Klimley, A. P.: SPATIO-TEMPORAL VARIABILITY IN THE TROPHIC ECOLOGY OF LARGE PELAGIC FISHES OF THE SOUTHERN GULF OF CALIFORNIA
- 2:00 pm Karlson, A. M.; Almgvist, G.; Skora, K. E.; Appelberg, M.: DIET OVERLAP AND PREFERENCES OF NON-INDIGENOUS ROUND GOBY AND NATIVE FLOUNDER IN THE BALTIK SEA INDICATE COMPETITION
- 2:15 pm Eklöv, P.; Svanbäck, R.: INTRA-SPECIFIC COMPETITION DRIVES MULTIPLE TROPHIC POLYMORPHISM IN FISH COMMUNITIES
- 2:30 pm Harrod, C.; Kahilainen, K.: AN EXAMINATION OF TROPHIC POLYMORPHISM IN EUROPEAN WHITEFISH (COREGONUS LAVARETUS (L.)): SHAPE, DIET AND STABLE ISOTOPE ANALYSES
- 2:45 pm Nurminen, L.; Horppila, J.; Pekkan-Hekim, Z.; Repka, S.: PREDATION RISK OF PLANT-ATTACHED VERSUS FREE-SWIMMING ZOOPLANKTON - EFFECTS OF INORGANIC TURBIDITY
- 3:00 pm Nilsson, P.; Byström, P.; Persson, L.: RESOURCE USE IN SUBARCTIC TOP CONSUMERS: EFFECTS OF VARIATION IN BENTHIC/PELAGIC ENERGY MOBILIZATION
- 3:15 pm Pyron, M.; Lauer, T. E.: ANALYSES OF FISH ASSEMBLAGES IN STREAMS: USE OF A MULTIMETRIC INDEX VS. MULTIVARIATE ANALYSES
- 4:00 pm Mueller, Jr., R. E.; Pyron, M.: RELATING FISH ASSEMBLAGE AND ABUNDANCE VARIATION WITH SUBSTRATE COMPOSITION IN THE MIDDLE WABASH RIVER
- 4:15 pm Murray, S. L.; Innes, J. L.; Hinch, S. G.: FACTORS AFFECTING FISH ASSEMBLAGE STRUCTURE AND ASSOCIATED RISKS FROM OIL AND GAS DEVELOPMENT IN NORTHEAST BRITISH COLUMBIA
- 4:30 pm Tonn, D. L.; Cowles, D. L.: SIGNIFICANCE OF INDIVIDUAL METRICS IN HABITAT UTILIZATION BY BULL TROUT (SALVELINUS CONFLUENTUS) IN THE UPPER TOUCHET RIVER SYSTEM OF EASTERN WASHINGTON
- 4:45 pm Doka, S. E.; Mortsch, L. D.; Hebb, A. J.; Ingram, J.; Bouvier, L. D.; Bakelaar, C. N.; Mandrak, N. E.: CLIMATE CHANGE IMPACTS ON COASTAL HABITAT AND FRESHWATER FISHES

(*) represents Invited presentations

TUESDAY

- 5:00 pm Devine, J. A.: TRENDS IN REDFISH SEBASTES spp. ABUNDANCE IN THE NORTHWEST ATLANTIC: THE RELATIVE IMPORTANCE OF FISHERIES AND ENVIRONMENT
- 5:15 pm Kleiber, P.; Sibert, J.: EXAMINING THE IMPACTS OF DIFFERENT SECTORS OF THE PELAGIC TUNA FISHERIES IN THE PACIFIC

TS-F06: COMMUNICATIONS CHALLENGES FOR AQUATIC SCIENCES

- Chair(s): Juanita Urban-Rich, juanita.urban-rich@umb.edu
Robert F. Chen, bob.chen@umb.edu
- Location: Sidney
- 10:45 am Solomon, C. M.; Campbell, L. M.: BREAKING COMMUNICATION BARRIERS: DEAF LIMNOLOGISTS AND OCEANOGRAPHERS IN THE FIELD
- 11:00 am Kirkpatrick, B. A.; Reich, A.; Backer, L. C.; Fleming, L. E.; Stephan, W. B.; Kirkpatrick, G. J.; Baden, D. G.: COMMUNICATING HARMFUL ALGAL BLOOM (HAB) RESEARCH TO THE PUBLIC: WHAT WORKS AND WHAT DOESN'T
- II:15 am Sevian, H.; Gonsalves, I.: AN INSTRUMENT FOR EVALUATING HOW EFFECTIVELY SCIENTISTS EXPLAIN THEIR RESEARCH~
- II:45 am McElroy, M. K.: USING YOUR STORY TO HELP TEACHERS ACCESS AND INTEGRATE OCEAN RESEARCH RESOURCES INTO EFFECTIVE AND EXCITING CURRICULA
- 12:00 pm McWilliams, H. A.; Haddad, N. F.; Cramer, C. B.: TELLING YOUR STORY: A PROGRAM OF COSEE-NEW ENGLAND TO PREPARE OCEAN SCIENTISTS FOR SUCCESSFUL VISITS TO K-12 CLASSROOMS*
- 2:00 pm Salinas, J. T.; Salinas, K. A.: INVOLVING K-12 EDUCATORS AND STUDENTS IN THE SCIENTIFIC EFFORTS AT CRATER LAKE, OREGON: A SCIENCE, MATH, ENGINEERING AND COMMUNICATION CROSSROAD
- 2:15 pm Squires, M.: Meeting the challenge of poor marks for both university & student with ecology we can all relate to: our own course!
- 2:30 pm Chen, R. F.; Decker, M.: DOING SCIENCE
- 3:00 pm Muller-Parker, G. T.; Cook, S.; Ganter, S.: THE CENTERS FOR OCEAN SCIENCES EDUCATION EXCELLENCE: BUILDING A NATIONAL NETWORK OF SUPPORT FOR OCEAN EDUCATION
- 3:15 pm Matsumoto, G. I.: OCEAN RESEARCH INTERACTIVE OBSERVATORIES NETWORK (ORION) EDUCATION AND PUBLIC AWARENESS
- 4:00 pm Cobb, D. M.; Chen, R. F.; Plonski, B.: JUMP START ENVIRONMENTAL SCIENCE CURRICULUM WITH LOCAL ENVIRONMENTAL ISSUES
- 4:15 pm Urban-Rich, J.: ARCTIC EDUCATION: MAKING THE REMOTE ACCESSIBLE
- 4:30 pm Hanegan, N. L.; Villareal, T. A.: SOUTHWEST TEACHERS' EDUCATION AND MARINE EXPEDITION FOR RESEARCH (STEAMER): LINKING SEA-BASED AND SHORE-BASED MARINE EDUCATION.
- 4:45 pm Salinas, K. A.: A MONTH ON A RESEARCH VESSEL ALLOWS A TEACHER TO DEVELOP A NEW APPROACH TO TEACHING MATH AND SCIENCE TO ADULTS AND TEENS
- 5:00 pm Hertler, H.; Ramirez-Toro, G. I.; Minnigh, H. A.: ENGAGING SMALL COASTAL COMMUNITIES IN DEVELOPING AND SUSTAINING MONITORING PROGRAMS, PUERTO RICO
- 5:15 pm Larsen, S.: PUBLIC UNDERSTANDING OF THE MARINE ENVIRONMENT....IN DENMARK.

TS-G03: EMERGING CHALLENGES IN CROSS-BOUNDARY AQUATIC RESEARCH

- Chair(s): Stuart E. G. Findlay, findlayS@ecostudies.org
Klement Tockner, klement.tockner@eawag.ch
Barbara Sulzberger, sulzberger@eawag.ch
- Location: Colwood
- 10:45 am Sunda, W. G.: DIMETHYLSULFIDE, PHYTOPLANKTON, AND BIOLOGICAL/CLIMATE FEEDBACK INTERACTIONS IN THE OCEAN~
- II:15 am Ruttenberg, K. C.; Dyhrman, S. T.: RECONCILING THE GEOCHEMISTS VERSUS THE BIOLGISTS VIEW OF NUTRIENT LIMITATION IN THE OCEAN
- II:30 am Tockner, K.; Judd, K.; Bade, D. L.; Findlay, S.: PULSED EVENTS AS CONTROLLERS OF AQUATIC-TERRESTRIAL LINKAGES
- II:45 am Iohannsson, O. E.; Bowen, K. L.; Nordin, L. J.; Schlechtriem, C.; Arts, M. T.; Smith, R.; Chu, C.; Taylor, W. D.; Rudstam, L. G.: THE USE OF PHYSIOLOGY (NUCLEIC ACIDS) TO ASSESS THE INDIRECT IMPACTS OF AQUATIC INVASIVE SPECIES (AIS) ON MYSIS RELICTA
- 2:00 pm Ackerman, J. D.: PHYSICAL ECOLOGY AND THE BENTHOS - CROSSING DISCIPLINARY AND ENVIRONMENTAL BOUNDARIES
- 2:15 pm Rott, E. G.; Pfister, P.: SEASONALITY OF ECO-HYDRAULIC CHARACTERS REGULATING BENTHIC MACROALGAE MICROHABITATS IN A GRAVELSTREAM (ISAR, AUSTRIA)

- 2:30 pm Montserrat, F.; van Colen, C.; Ysebaert, T.; Herman, P.: CHANGING SEDIMENT PROPERTIES WITH THE (DIS)APPEARANCE OF A BENTHIC COMMUNITY IN THE WESTERSCHELDE ESTUARY, SW NETHERLANDS
- 2:45 pm Alben, K. T.; Bridoux, M.; Sobiechowska, M.: USE OF ALGAL CAROTENOID AS BIOMARKERS TO ASSESS DIET, NUTRITION AND HEALTH OF AQUATIC ORGANISMS
- 3:00 pm Tranvik, L. I.: LAKES AT THE BORDER BETWEEN LAND, OCEAN, AND ATMOSPHERE - NOW AND IN A FUTURE CLIMATE*
- 4:00 pm Eichinger, M.; Poggiale, J. C.; Sempéré, R.; Van Wambeke, F.; Lefèvre, D.: MODELING DISSOLVED ORGANIC CARBON ASSIMILATION AND BACTERIAL GROWTH EFFICIENCY IN BIODEGRADATION EXPERIMENTS: A CASE STUDY IN THE NORTHEAST ATLANTIC OCEAN
- 4:15 pm Sulzberger, B.; Borer, P. M.; Hug, S. J.: WHY DO WE NEED TO SPAN THE RANGE FROM MOLECULAR-LEVEL TO WHOLE ECOSYSTEM SCALE STUDIES IN CROSS-BOUNDARY AQUATIC RESEARCH?
- 4:30 pm Chin, Y. P.; Hakala, J. A.; Agrawal, S.: TRANSFORMATION OF CONTAMINANTS BY BIOGENICALLY DERIVED CHEMICALS: MICROBIAL METABOLIC PRODUCTS BEING PUT TO GOOD USE
- 4:45 pm Langford, C. H.; Melton, J. R.; Mendritzki, S.: HUMIC SUBSTANCES AS DYNAMIC COMBINATORIAL SYSTEMS
- 5:00 pm Monperrus, M.; Dias, M.; Guyonneaud, R.; Tessier, E.; Stoichev, T.; Rodriguez Martin-Doimeadios, R. C.; Salvado, J. C.; Duran, R.; Amouroux, D.: ROLE OF MICROBIAL COMMUNITIES IN CONTROLLING MERCURY METHYLATION IN SEDIMENT:EVIDENCE FROM FIELD STUDIES.MICROSCOMS EXPERIMENTS AND ISOLATED STRAIN CULTURES
- 5:15 pm Laudon, H.; Buffam, I.; Serrano, I.: NATURAL BOUNDARIES FOR AQUATIC ORGANISMS: THE CASE FOR WATER QUALITY IN DETERMINING SPECIES DISTRIBUTION IN THE BOREAL LANDSCAPE

RS03: ZOOPLANKTON

- Chair(s): Howard Riessen, riessehp@buffalostate.edu
Dietmar Straile, dietmar.straile@uni-konstanz.de
- Location: Victoria Conference Centre
- 59B. Beveridge, J. A.; Tunnicliffe, V.: ACOUSTIC OBSERVATIONS OF PREDATOR-PREY INTERACTIONS NEAR AN ANOXIC BOUNDARY IN SAANICH INLET, BRITISH COLUMBIA, CANADA
- 60B. Cieciel, K.; Eisner, L.: SIZE STRUCTURE AND DISTRIBUTION CHARACTERISTICS OF DOMINANT JELLYFISH IN SURFACE TRAWLS OF THE EASTERN BERING SEA
- 61B. Hemme, S. R.; Green, S. A.: METALLOTHIONINEIN IN ZOOPLANKTON AS A BIOMARKER OF COPPER STRESS ON AN ECOSYSTEM
- 62B. Seo, I. H.; Choi, J. K.: IN SITU GRAZING PRESSURE OF ACARTIA HONGI FEMALE(COPEPODA: CALANOIDA) ON PHYTOPLANKTON IN INCHEON COASTAL WATERS, KOREA
- 63B. Smith, A. S.; Acharya, K.; Jack, J. J.: STOICHIOMETRY OF DAPHNIA LUMHOLTZI AND THEIR INVASION SUCCESS: ARE THEY LINKED?
- 64B. Tse, P.; Wong, C. K.: SPECIES COMPOSITION AND ABUNDANCE OF CHAETOGNATHA IN AND AROUND A SEMI-ENCLOSED BAY IN NORTHEASTERN HONG KONG
- 65B. Wallace, R. L.; Walsh, E. J.; Schröder, T.: ROTIFERA: ISSUES WITH EXPEDITIONARY SAMPLING IN DETERMINING WHETHER EVERYTHING IS EVERYWHERE
- 66B. Williams, J. J.; Schulz, K. L.: SWARMING-RELATED CHEMOTAXIS IN A PREDATORY CLADOCERAN?
- 67B. Wong, C. K.; Li, C. Y.: DIEL REPRODUCTIVE CYCLE IN MARINE CLADOCERANS

TS-A08: RAPID ENVIRONMENTAL CHANGES AT HIGH LATITUDES – EVIDENCE FROM LIMNOLOGY, OCEANOGRAPHY, AND HISTORICAL SEDIMENT RECORDS

- Chair(s): John P. Smol, Smolj@BIOLOGY.QueensU.Ca
Dominic A. Hodgson, daho@pcmail.nerc-bas.ac.uk
- Location: Victoria Conference Centre
- 2B. Card, V. M.; Gilbertson, K. M.; Shube, A.: SPATIAL AND TEMPORAL PATTERNS IN LAKE ICE-COVER TRENDS IN MINNESOTA AND IOWA 1951-2000
- 3B. Esposito, R. M.; McKnight, D. M.; Horn, S. L.; Cox, M. J.; Grant, M. C.; Spaulding, S. A.; Doran, P. T.; Cozzetto, K. D.: ANTARCTIC CLIMATE COOLING AND RESPONSE OF DIATOMS IN GLACIAL MELTWATER STREAMS

(*) represents Tutorial presentations

**TS-B10:
APPLICATION OF NEW SENSORS FOR THE STUDY OF CHEMICAL
BIOLOGICAL PROCESSES IN MARINE WATERS**

- Chair(s): Franciscus Colijn, colijn@gkss.de
 Henning Wehde, wehde@gkss.de
 Friedhelm Schroeder, friedhelm.schroeder@gkss.de
- Location: Victoria Conference Centre
- 4B. [Donovan, C.](#): NEW SOLID-STATE FLUORESCENCE SENSOR USED TO MONITOR PHOTOSYNTHETIC PARAMETERS AND ALGAL BIOMASS
- 5B. [Loos, E. A.](#); Costa, M.: HORIZONTAL AND VERTICAL VARIABILITY OF OCEAN OPTICAL PROPERTIES IN THE STRAIT OF GEORGIA, BRITISH COLUMBIA, CANADA
- 6B. [Toler, S. K.](#); Short, R. T.; van Amerom, F. H.; Bell, R. J.; Wenner, P. G.; Byrne, R. H.: IN-SITU QUANTIFICATION OF DISSOLVED GASES USING AN UNDERWATER MEMBRANE INTRODUCTION MASS SPECTROMETER.

**TS-B11:
IMPORTANCE OF TERRESTRIAL AND OCEANIC NUTRIENT
SOURCES IN COASTAL OCEANS: BOTTOM-UP ENERGY FLOW**

- Chair(s): Frank Whitney, whitneyf@dfo-mpo.gc.ca
 Paul J. Harrison, harrison@ust.hk
- Location: Victoria Conference Centre
- 7B. [Costa, Ir., O. S.](#): NUTRIENT AND BIOMASS EXCHANGE BETWEEN THE ANTIGONISH HARBOUR ESTUARY (NOVA SCOTIA, CANADA) AND THE COASTAL OCEAN - A RESEARCH PLAN
- 8B. [Grundle, D. S.](#); Varela, D. E.: TEMPORAL VARIATIONS IN PRIMARY PRODUCTIVITY AND PHYTOPLANKTON ASSEMBLAGES IN SAANICH INLET, A BRITISH COLUMBIA FJORD
- 9B. [Jensen, B.](#); Strom, S. L.: SPATIO-TEMPORAL VARIABILITY OF MICROALgal PRODUCTIVITY WITHIN A SHALLOW FJORD OF THE SAN JUAN ARCHIPELAGO, WASHINGTON, USA
- 10B. [Kuzyk, Z. A.](#); Granskog, M. A.; Macdonald, R. W.; Scharien, R. K.; Stern, G.; Barber, D. G.: RIVER INFLUENCE ON THE COASTAL WATERS OF WESTERN HUDSON BAY DURING THE WINTER-SPRING TRANSITION

**TS-B13:
NON-INDIGENOUS AQUATIC SPECIES – AN INTEGRATED AP-
PROACH**

- Chair(s): Goran Bengtsson, Goran.Bengtsson@ekol.lu.se
 Inger Wallentinus, Inger.Wallentinus@marbot.gu.se
- Location: Victoria Conference Centre
- II B. [Berglund, H.](#): ECOSYSTEM RESILIENCE TO NON-INDIGENOUS SPECIES (NIS)
- I2B. [Humphrey, D. B.](#); DiBacco, C.: BALLAST WATER AS A VECTOR FOR AQUATIC INVASIVE SPECIES INTRODUCTIONS INTO THE STRAIT OF GEORGIA, CANADA
- I3B. [Larson, D.](#); Hallstan, S.; Willén, E.: GLOBAL WARMING OPENS THE DOOR FOR INVASIVE FRESHWATER PLANTS IN EUROPE
- I4B. [Pasko, S. R.](#); Carlson, R. E.: COMMUNITY RESISTANCE OF INLAND LAKES AND THE INVASION OF AN EXOTIC CLADOCERAN, DAPHNIA LUMHOLTZI
- I5B. [Sahlén, U.](#); [Nyberg, C. D.](#); Larson, D.: IMPACT ASSESSMENTS OF AQUATIC NON-INDIGENOUS SPECIES
- I6B. [Simkanin, C.](#); Noble, M.; Sytsma, M.; Ruiz, G. M.; Miller, A. W.: IMPROVING BALLAST WATER DATA TO REDUCE INVASIONS: A PILOT PROJECT ON THE LOWER COLUMBIA RIVER
- I7B. [Werner, M.](#): AQUALIENS, A PRESENTATION OF A RESEARCH PROGRAM ON INTRODUCED AQUATIC SPECIES

**TS-B19:
DO VIRUSES CONTROL MICROBIAL ECOSYSTEMS?**

- Chair(s): Eric Wommack
 Corina Brussaard, corina.brussaard@nioz.nl
- Location: Victoria Conference Centre
- 38B. [Eissler, Y.](#); Wang, K.; Chen, F.; Coats, D. W.: MOLECULAR CHARACTERIZATION OF CHAETOCEROS CF GRACILIS VIRUS ISOLATED FROM CHESAPEAKE BAY, USA
- 39B. [Filippini, M.](#); Middelboe, M.: VIRAL GENOME SIZE DISTRIBUTION IN PELAGIC AND BENTHIC ECOSYSTEMS
- 40B. [Rowe, J. M.](#); Saxton, M. A.; Hutchins, D. A.; DiTullio, G. R.; Wilhelm, S. W.: CHARACTERIZATION OF VIRUS DYNAMICS IN THE SARGASSO SEA AND DURING THE NORTH ATLANTIC SPRING BLOOM (NASB 2005)

**TS-B24:
NUTRIENT CYCLING**

- Chair(s): Sue Newman, snewman@sfwmd.gov
 Barbara Cade-Menun, bjcm@pangea.stanford.edu
- Location: Victoria Conference Centre
- 23B. [Blackmore, S. R.](#); Giesbrecht, T.; Cullen, J. T.: VARIABILITY IN THE VERTICAL DISTRIBUTION OF DISSOLVED COPPER AND IRON IN RESPONSE TO A BOTTOM WATER RENEWAL EVENT IN A SEASONALLY ANOXIC FJORD
- 24B. [Cai, Y. H.](#); Guo, L. D.; Whitedge, T. E.; Douglas, T. A.: SEASONAL VARIATIONS IN NUTRIENT CONCENTRATIONS AND SPECIATION IN THE CHENA RIVER, INTERIOR ALASKA
- 25B. [Duff, J. H.](#); Tesoriero, A. J.; Richardson, W. B.; Strauss, E. A.; Munn, M. D.: WHOLE STREAM RESPONSE TO NITRATE LOADING IN THREE STREAMS DRAINING AGRICULTURAL LANDSCAPES IN YAKIMA, WASHINGTON, CHESTERTOWN, MARYLAND, AND FREMONT, NEBRASKA
- 26B. [Hicks, C. E.](#); Osborne, T. Z.; Reddy, K. R.: ACCUMULATION OF ORGANIC CARBON IN SOILS OF RECENTLY CONSTRUCTED MANGROVE AND SEAGRASS HABITATS IN THE INDIAN RIVER LAGOON, FLORIDA
- 27B. [Holmer, M.](#); Carta, C.; [Andersen, F. O.](#): BIOGEOCHEMICAL IMPLICATIONS FOR PHOSPHORUS CYCLING IN SANDY AND MUDDY RHIZOSPHERE SEDIMENTS OF THE SEAGRASS ZOSTERA MARINA (DENMARK)
- 28B. [Hosokawa, S.](#); Nakamura, Y.: SEASONAL VARIATIONS OF NET PRODUCTION RATE AND DEFUXION RATE ON BLADE OF EELGRASS
- 29B. [Huang, B.](#); Ou, L.; Lin, L.; Hong, H.; Zhang, F.; Chen, Z.: PHOSPHORUS STRESS OF PHYTOPLANKTON IN TAIWAN STRAIT USING BULK AND SINGLE-CELL ALKALINE PHOSPHATASE ACTIVITY ASSAY
- 30B. [Inoue, T.](#); Nakamura, Y.: EFFECT OF RESUSPENSION ON PHOSPHATE RELEASE RATE FROM THE SEDIMENT
- 31B. [Richardson, W. B.](#); Schubauer-Berigan, J. P.; Bartsch, L. A.; Cavanaugh, J.; Hughes, P. E.: NITROGEN CYCLING PROCESSES IN A WETLAND COMPLEX ALONG A RESTORATION GRADIENT
- 32B. [Young, E. B.](#); Bootsma, H. A.; Roth, T.; von Korff, B.; Berges, J. A.: ROLE OF MACROALGA/EPIPHYTE ASSEMBLAGES IN NUTRIENT CYCLING IN NEARSHORE LAKE MICHIGAN

**TS-C02:
DOC INCREASES IN SURFACE WATERS - MULTIPLE MECHANISMS
FOR A MAJOR PERTURBATION?**

- Chair(s): Robert Sinsabaugh, rlsinsab@unm.edu
 Stuart Findlay, findlays@ecostudies.org
- Location: Victoria Conference Centre
- 33B. [Huotari, J. T.](#); Ojala, A. K.; Peltomaa, E. T.; Vesala, T.: CO₂ FLUXES FROM A BOREAL LAKE OVER TWO OPEN-WATER PERIODS WITH CONTRASTING DOC LOADS

**TS-C10:
CARBON IN LAKES AND RESERVOIRS**

- Chair(s): Marco Aurélio dos Santos, aurelio@ppc.ufrj.br
 André Cimberlis, andrec@furnas.com.br
 Yves Prairie, prairie.yves@uqam.ca
- Location: Victoria Conference Centre
- 18B. [Hesslein, R. H.](#); Holoka, M.; Joyce, E.; Dwilow, R. A.; Azevedo, P. A.; Ramlal, P. S.; Buat, P.: CONTINUOUS MEASUREMENT AND FLUX CALCULATIONS FOR DISSOLVED CO₂, O₂, AND CH₄ IN RESERVOIRS AND NATURAL LAKES IN THE NELSON RIVER BASIN, CANADA
- 19B. Schiff, S. L.; Saquet, M. A.; Mackenzie, C. D.; Venkiteswaran, J. J.; [Asada, T.](#); Warner, B. G.; Kelly, C. A.; St. Louis, V. L.; Rudd, J. W.; Aravena, R.; Elgood, R.; Thuss, S.J.: EXPERIMENTAL FLOODING OF A BOREAL PEATLAND-POND COMPLEX: CHANGES IN CO₂ FLUXES, CH₄ FLUXES AND CARBON BALANCE
- 20B. [Silva, T. S.](#); Costa, M.; Melack, J. M.: RADAR REMOTE SENSING AS A TOOL TO ASSESS THE SEASONAL DYNAMICS OF MACROPHYTE COMMUNITIES IN THE AMAZON RIVER FLOODPLAIN
- 21B. [von Wachenfeldt, E.](#); Tranvik, L. J.: SEDIMENTATION IN BOREAL LAKES - DOMINATED BY ALLOCHTHONOUS MATTER BUT REGULATED BY AUTOTROPHS

(*) represents Invited presentations

TUESDAY

**TS-D04:
LAND-USE IMPACTS ON WATER QUALITY: SEARCH FOR SCIENCE
SUPPORTING BENEFICIAL MANAGEMENT PRACTICES FOR
SUSTAINABLE CLEAN AND HEALTHY WATER**

- Chair(s): Asit Mazumder, mazumder@uvic.ca
Klaas Broersma, BroersmaK@AGR.GC.CA
- Location: Victoria Conference Centre
- 41B. Cobb, D. M.; Chen, R. F.: PINE TREE BROOK BACTERIA IMPLEMENTATION PROJECT, A SUCCESS OR FAILURE?
- 42B. Di Leonardo, S. S.; Wehr, J. D.; Perrone, A. A.: SUBMERGED AQUATIC VEGETATION DENSITY AS INFLUENCED BY STOCKED TRIPLOID GRASS CARP AND INCREASING NUTRIENT LEVELS IN A TEMPERATE, MESOTROPHIC LAKE
- 43B. Perrone, A. A.; Wehr, J. D.; Gaylord, B.; Hudson, D.; Francois, S.; Truhn, K. M.: CHEMICAL AND BIOLOGICAL PROPERTIES OF A LAKE WITH A PERSISTANT AND DEEP HYPOXIC HYPOLIMNETIC LAYER
- 44B. Torres-Alvarado, M. R.; Zúñiga-Centeno, B.; Gutiérrez, M. F.; Varona-Cordero, F.: MICROBIOLOGICAL QUALITY: SEASONAL CHANGES IN A TROPICAL COASTAL LAGOON ECOSYSTEM

**TS-E03:
DETECTION AND FORECASTING OF HARMFUL ALGAL BLOOMS**

- Chair(s): Robert Magnien, rob.magnien@noaa.gov
Gregory Boyer, gboyer@esf.edu
Vera Trainer, Vera.L.Trainer@noaa.gov
- Location: Victoria Conference Centre
- 45B. Dupont, J. M.; Hallock, P.; Beaver, C.; Jaap, W. C.: EFFECTS OF THE 2005 RED TIDE ON EPIBENTHIC MACROINVERTEBRATE AND FISH COMMUNITIES IN THE EASTERN GULF OF MEXICO
- 46B. Fisher, K. M.; Keller, H. M.; Stoltz, A. L.; Brondum, Z. E.; Fenstermacher, L. E.; Vincent, M. S.; Stumpf, R. P.; Tonlinson, M. C.; Culver, M.; Meredith, A.: SUCCESS & USABILITY OF AN OPERATIONAL HARMFUL ALGAL BLOOM FORECAST SYSTEM FOR THE GULF OF MEXICO
- 47B. Greengrove, C. L.; Frost, B. W.; Horner, R. A.; Postel, J. R.; Gawel, J. E.; Davies-Vollum, K. S.; Cox, A.; Hoffer, S.; Sorensen, K.; Hubert, J.: SURVEY OF ALEXANDRIUM CYSTS IN THE SURFACE SEDIMENTS OF PUGET SOUND WASHINGTON
- 48B. Hotto, A. M.; Satchwell, M. F.; Boyer, G. L.: MICROCYSTIN PRODUCTION IN LAKE ONTARIO
- 49B. Prezelin, B. B.; Keltner, K.; Mengelt, C.; McKagan, S.: COHERENCE IN THE TEMPORAL DYNAMICS OF TOXIC PSEUDO-NITZSCHIA AUSTRALIS ON THE NORTHERN AND SOUTHERN SIDES OF POINT CONCEPTION, CALIFORNIA 2003-2005

- 50B. Ramers, D. L.; Brown, C. W.; Gross, T. F.; Hood, R. R.; Tango, P. J.; Michael, B. D.: PREDICTING THE ABUNDANCE OF THE DINOFAGELLATE KARLODINIUM MICRUM IN CHESAPEAKE BAY USING AN ARTIFICIAL NEURAL NETWORK
- 51B. Satchwell, M. F.; Hotto, A. M.; Boyer, G. L.: METHOD COMPARISON FOR THE DETECTION OF MICROCYSTINS
- 52B. Scott, B. A.; Strutton, P.; Everroad, R. C.; Cannon, D.; Wood, A. M.: OCEANOGRAPHIC FACTORS ASSOCIATED WITH THE OCCURRENCE OF HARMFUL ALGAL BLOOMS IN OREGON
- 53B. Stauffer, B. A.; Caron, D. A.; Sukhatme, G. S.; Zhang, B.; Dhariwal, A.; Oberg, C.: OBSERVATION OF PHYTOPLANKTON BLOOM DYNAMICS IN A SMALL LAKE USING A WIRELESS SENSOR NETWORK
- 54B. Yang, X.; Boyer, G. L.: DOES THE CYANOBACTERIAL NEUROTOXIN ANATOXIN-A POSE A POTENTIAL HEALTH RISK FOR THE LOWER GREAT LAKES OF THE US AND CANADA? - A SIX-YEAR REVIEW

**TS-E10:
FISH AND FISHERIES ECOLOGY**

- Chair(s): Vladlena Gertseva, vladlena.gertseva@oregonstate.edu
- Location: Victoria Conference Centre
- 55B. Fernandez, L.; Verisimo, P.; Bernardez, C.; Carabel, S.: EFFECT OF THE PRESTIGE OIL SPILL ON THE CONSECUTIVE SPAWNS IN THE SPIDER CRAB MAJA BRACHYDACTyla FROM GALICIAN COAST (NW SPAIN)
- 56B. Korsgaard, B.; Brander-Lavridsen, N.: XENOBIOTIC DISTURBANCE DURING LARVAL DEVELOPMENT IN A TELEOST.
- 57B. Uchii, K.; Okuda, N.; Karube, Z.; Yonekura, R.; Matsui, K.; Kawabata, Z.: TROPHIC POLYMORPHISM IN LAKE BIWA BLUEGILL, AN INTRODUCED FISH SPECIES IN JAPAN: STABLE ISOTOPIC EVIDENCE
- 58B. Verant, M. L.; Zimmer, K. D.; Konsti, M. K.; Deans, C. A.; Call, T. E.: SPECIES-SPECIFIC ESTIMATES OF NITROGEN AND PHOSPHORUS EXCRETION BY FISH IN A SHALLOW LAKE.

**TS-F06:
COMMUNICATIONS CHALLENGES FOR AQUATIC SCIENCES**

- Chair(s): Juanita Urban-Rich, juanita.urban-rich@umb.edu
Robert F. Chen, bob.chen@umb.edu
- Location: Victoria Conference Centre
- 35B. Cowles, D. L.: A WEB-BASED SYSTEM FOR IDENTIFYING MARINE INVERTEBRATES OF THE PACIFIC NORTHWEST: A TOOL FOR ADVANCED STUDENTS AND THE PUBLIC
- 36B. Souder, H. L.; Greely, T.; Finger, A.; Pyrtle, A.: TOYS: AN EXCELLENT TOOL FOR TEACHING OCEANS SCIENCES

(*) represents Tutorial presentations

WEDNESDAY, JUNE 7, 2006**RS03:
ZOOPLANKTON**

Chair(s): Howard Riessen, riessehp@buffalostate.edu
 Dietmar Straile, dietmar.straile@uni-konstanz.de

Location: Carson Hall C

- 9:45 am Guo, L.; Foy, R. J.: SEASONAL VARIABILITY IN PLANKTIVOROUS FISH FOOD QUALITY: MESOZOOPLANKTON BIOMASS, LIPID CONTENT AND ENERGY DENSITY IN UGANIK BAY, KODIAK, ALASKA, US
- 10:00 am Liu, H.; Hopcroft, R. R.: GROWTH AND DEVELOPMENT RATES OF CALANUS MARSHALLAE AND C. PACIFICUS IN THE NORTHERN GULF OF ALASKA
- 10:15 am Sastrí, A. R.; Dower, J. F.: COPEPOD COMMUNITY MOLTING, GROWTH AND PRODUCTION RATES IN THE NE SUBARCTIC PACIFIC
- 10:30 am Owen, E. F.; Wanamaker, A. D.; DiBacco, C.; Feindel, S. C.; Rawson, P. D.: PUTATIVE GROWTH-RELATED EFFECT ON SEA SCALLOP PLACOPECTEN MAGELLANICUS LARVAL SHELL GEOCHEMISTRY: IMPLICATIONS FOR RECONSTRUCTING ENVIRONMENTAL HISTORY
- 10:45 am Cheng, L.; Kline, T. C.: ISOTOPIC EVIDENCE FOR CANNIBALISM AMONG SEA-SKATERS
- 11:00 am Wilhelm, S.; Adrian, R.: RESPONSE OF DREISSENA POLYMORPHA LARVAE TO CLIMATE AND NUTRIENT FORCING
- 11:30 am Taub, F. B.: DAYTIME-NIGHTTIME OXYGEN AND PH DYNAMICS IN PHYTOPLANKTON-MICROBE-GRAZER COMMUNITIES
- 11:45 am Gélinas, M.; Pinel-Alloul, B.: INFLUENCE OF WATERSHED ANTHROPISTATION ON CRUSTACEAN ZOOPLANKTON BIOMASS IN 13 OLIGOTROPHIC LAKES IN THE LAURENTIAN REGION, QUÉBEC, CANADA.
- 12:00 pm Finlay, K.; Beisner, B. E.: THE USE OF BIOMASS SIZE SPECTRA TO CHARACTERIZE LAKE ZOOPLANKTON COMMUNITIES
- 12:15 pm Ramcharan, C. W.; Keller, W.; Yan, N. D.: ZOOPLANKTON COMMUNITY CLEARANCE RATES ARE REMARKABLY LOW IN TEMPERATE LAKES
- 12:30 pm Sheard, J. A.; Arnott, S. A.: ASSESSING THE RECOVERY OF LAKES IN KILLARNEY PARK, ONTARIO, CANADA, FROM THE EFFECTS OF HISTORICAL ACID DEPOSITION: 1971-2005.
- 12:45 pm Linley, R. D.; Ramcharan, C. W.: CONSEQUENCES OF FISH AND MACROINVERTEBRATE PREDATION ON ZOOPLANKTON COMMUNITIES IN RELATION TO BIOLOGICAL RECOVERY FROM ACIDIFICATION: A MESOCOSM STUDY

**TS-A03:
INTEGRATED APPROACHES TO ASSESSING THE EFFECTS OF GLOBAL CHANGE AND OTHER DRIVERS OF CHANGE ON FRESHWATER ECOSYSTEMS**

Chair(s): Peter Dillon, pdillon@trentu.ca
 Martin Kernan, mkernan@geog.ucl.ac.uk

Location: Empress Hotel

- 9:45 am Schindler, D. W.: THE CUMULATIVE EFFECTS OF CLIMATE WARMING AND OTHER DRIVERS OF GLOBAL CHANGE ON FRESHWATERS: A BRIEF REVIEW-
- 10:15 am Turner, M. A.; Paterson, M. J.; Findlay, D. L.; Hesslein, R. H.; Vinebrooke, R. D.; McNicol, D. M.; Armstrong, L. M.: MULTIPLE STRESSORS IMPAIRED RESILIENCE IN AN EXPERIMENTALLY PERTURBED LAKE ECOSYSTEM
- 10:30 am Kernan, M.: REGIONAL IMPACTS OF CLIMATE CHANGE ON FRESHWATER ECOSYSTEMS ACROSS EUROPE
- 10:45 am Dietrich, S. V.; Leavitt, P. R.; McGowan, S.; Wissel, B.: SPATIAL AND TEMPORAL VARIABILITY OF LAKE RESPONSE TO CLIMATE: NEW APPROACHES USING STABLE ISOTOPES OF H AND O
- 11:00 am Leavitt, P. R.; Wunsam, S.; Rusak, J. A.; Fritz, S. C.; Cumming, B. F.; Laird, K. R.; Michels, A.: REGULATION OF LAKE STRUCTURE AND FUNCTION BY JET-STREAM MOVEMENT OVER THE NORTHERN GREAT PLAINS
- 11:30 am Arhonditsis, G. B.; Stow, C. A.; Reckhow, K. H.: BAYESIAN STRUCTURAL EQUATION MODELING: A NEW METHODOLOGICAL TOOL FOR UNRAVELING ECOLOGICAL PATTERNS
- 11:45 am Cheng, R. T.; Josberger, E. G.: MODELING TIDAL MIXING AND THE FORMATION OF FRESHWATER LENS IN HOOD CANAL, WASHINGTON
- 12:00 pm Whitehead, P. G.; Wade, A. J.; Butterfield, D.; Lawrence, D. S.; Jackson, B. M.; Futter, M. N.; Dillon, P. J.; Cosby, B. J.: INCA: A BIOGEOCHEMICAL MODELING FRAMEWORK FOR SURFACE WATERS
- 12:15 pm Simpson, G. L.; Monteith, D. T.; Hanmer, D.; Chandler, R. E.: THE INFLUENCE OF DECLINING SULPHUR DEPOSITION AND CLIMATE CHANGE ON THE RECOVERY OF ACIDIFIED SCOTTISH LOCHS
- 12:30 pm Bouskill, N. L.; Ford, T. E.: DEVELOPMENT AND APPLICATION OF MICROBIAL MOLECULAR BIOMARKERS FOR ASSESSING TRACE METAL CONTAMINATION IN THE METAL-POLLUTED CLARK FORK RIVER, MONTANA.

- 12:45 pm Anderson, N. J.; Appleby, P. G.; Bindler, R.; Conley, D. J.; Perren, B. B.: WHOLE BASIN ACCUMULATION OF ORGANIC MATTER AND BIOGENIC SILICA IN AN ARCTIC LAKE: IMPLICATIONS FOR PRODUCTION RESPONSES TO FORCING BY GLOBAL CHANGE PROCESSES

**TS-A08:
RAPID ENVIRONMENTAL CHANGES AT HIGH LATITUDES – EVIDENCE FROM LIMNOLOGY, OCEANOGRAPHY, AND HISTORICAL SEDIMENT RECORDS**

Chair(s): John P. Smol, Smol@BIOLOGY.QueensU.Ca
 Dominic A. Hodgson, daho@pcmail.nerc-bas.ac.uk

Location: Colwood

- 9:45 am Hodgson, D. A.; Smol, J. P.: RAPID ENVIRONMENTAL CHANGES AT HIGH LATITUDES – EVIDENCE FROM LIMNOLOGY, OCEANOGRAPHY, AND HISTORICAL SEDIMENT RECORDS-
- 10:15 am Thompson, M. S.; Prowse, T. D.; Wrona, F. J.; Kokelj, S. V.: THE INFLUENCE OF PERMAFROST DEGRADATION ON THE WATER CHEMISTRY AND PRODUCTIVITY OF SMALL TUNDRA LAKES, MACKENZIE DELTA REGION, CANADA
- 10:30 am Hampton, S. E.; Moore, M. V.; Izmost'eva, L. R.; Dennis, B.; Silow, E. A.: LONG-TERM CHANGES IN THE PELAGIC ZONE OF LAKE BAIKAL
- 10:45 am Keatley, B. E.; Douglas, M.; Smol, J. P.: INFLUENCE OF ICE COVER ON FOSSIL DIATOM-INFERRRED ENVIRONMENTAL CHANGES IN TWO HIGH ARCTIC LAKES
- 11:00 am Wolfe, A. P.; Michelutti, A.; Vinebrooke, R. D.; Rivard, B.: INFERRING PRIMARY PRODUCTION CHANGES IN ARCTIC LAKES WITH SEDIMENT SPECTROSCOPY*
- 11:30 am Perren, B. B.; Anderson, N. J.; Douglas, M.: DIATOMS REVEAL COMPLEX SPATIAL AND TEMPORAL PATTERNS OF RECENT LIMNOLOGICAL CHANGE IN WEST GREENLAND
- 11:45 am Doran, P. T.; McKnight, D. M.; McKay, C. P.: LAKE LEVEL RESPONSE TO EXTREME SUMMER CONDITIONS IN THE MCMURDO DRY VALLEYS, AND PALEOCLIMATIC SIGNIFICANCE*
- 12:00 pm Cromer, L.; Gibson, J. A.; Swadling, K. M.; Hodgson, D. A.; Barmuta, L. A.: THE PALAOECOLOGY OF ANTARCTIC FRESHWATER LAKE FAUNA AND IMPLICATIONS FOR ANTARCTIC BIOGEOGRAPHY
- 12:15 pm Sweetman, J. N.; Rühland, K.; Smol, J. P.: EVALUATING THE EFFECTS OF RECENT CLIMATE CHANGE ON CLADOCERAN COMMUNITIES FROM 50 LAKES SPANNING ARCTIC TREELINE IN THE CENTRAL NORTHWEST TERRITORIES, CANADA
- 12:30 pm Christoffersen, K. S.: THE INFLUENCE OF RESTING GESE ON THE WATER CHEMISTRY IN ARCTIC LAKES
- 12:45 pm Smol, J. P.; Douglas, M. S.; Hadley, K.; Blais, J. M.: ARCTIC ECOSYSTEM CHANGES INDUCED BY 13TH CENTURY INUIT WHALERS: A PALEOLIMNOLOGICAL PERSPECTIVE ON CLIMATIC AND ANTHROPOGENIC CHANGE IN THE HIGH ARCTIC

**TS-B11:
IMPORTANCE OF TERRESTRIAL AND OCEANIC NUTRIENT SOURCES IN COASTAL OCEANS: BOTTOM-UP ENERGY FLOW**

Chair(s): Frank Whitney, whitney@dfo-mpo.gc.ca
 Paul J. Harrison, harrison@ust.hk

Location: Oak Bay

- 9:45 am Thomson, R. E.: Nutrient Flux to Eastern Boundary Current Regions: A case for Bottom-up Ecosystems Trophic Dynamics.-
- 10:15 am Bruland, K.; Agular-Islas, A.; Lohan, M.: THE COLUMBIA RIVER PLUME: SOURCES OF NITRATE, PHOSPHATE, SILICIC ACID, IRON AND MANGANESE INVOLVED IN PLUME FORMATION*
- 10:30 am Berger, C.; Smith, G.; Bruland, K.: THE COLUMBIA RIVER PLUME AS A POTENTIAL SOURCE OF BIOLOGICALLY AVAILABLE PARTICULATE TRACE METALS TO THE COASTAL WATERS OFF OREGON AND WASHINGTON
- 10:45 am Chong, M.; Giesbrecht, T.; Ianson, D.; Cullen, J. T.: THE DISTRIBUTION OF DISSOLVED IRON AND COPPER IN COASTAL SHELF AND SLOPE WATERS IN THE NORTHEAST PACIFIC
- 11:00 am Gargett, A. E.; Zimmerman, R. C.; Burdige, D. J.: BIOLOGICAL IMPLICATIONS OF LANGMUIR SUPERCELLS
- 11:30 am Ho, A.; Xu, J.; Yuan, X. C.; Yin, K. D.; Harrison, P. J.: LONG TERM TRENDS IN NUTRIENTS AND PHYTOPLANKTON BIOMASS ALONG A EUTROPHIC GRADIENT IN HONG KONG WATERS AND RESPONSE TO RECENT SEWAGE TREATMENT
- 11:45 am Kaldy, J. E.; Brown, C. A.: QUANTIFYING SEASONAL SHIFTS IN NITROGEN SOURCES TO OREGON ESTUARIES. PART I: EMPIRICAL 15N MACROALGAE DATA.
- 12:00 pm Brown, C. A.; Kaldy, J. E.: QUANTIFYING SEASONAL SHIFTS IN NITROGEN SOURCES TO OREGON ESTUARIES. PART II: TRANSPORT MODELING
- 12:15 pm Yahel, R.; Katz, T.; Yahel, G.; Lazar, B.; Herut, B.; Tunnicliffe, V.: SEDIMENT RESUSPENSION BY FISH - AN OVERLOOKED PATHWAY IN THE NUTRIENT CYCLE OF COASTAL ECOSYSTEMS: I. FISH ACTIVITY

(*) represents Invited presentations

WEDNESDAY

- 12:30 pm Katz, T.; Yahel, R.; Yahel, G.; Lazar, B.; Herut, B.; Tunnicliffe, V.: SEDIMENT RESUSPENSION BY FISH - AN OVERLOOKED PATHWAY IN THE NUTRIENT CYCLE OF COASTAL ECOSYSTEMS: 2. FLUX ESTIMATES
- 12:45 pm Billerbeck, M.; Werner, U.; Polerecky, L.; Walpersdorf, E.; Bosselmann, K.; de Beer, D.; Huettel, M.: SURFICIAL AND DEEP PORE WATER CIRCULATION GOVERNS SPATIAL AND TEMPORAL SCALES OF NUTRIENT RECYCLING IN INTERTIDAL SAND FLAT SEDIMENT

TS-B13: NON-INDIGENOUS AQUATIC SPECIES - AN INTEGRATED APPROACH

- Chair(s): Goran Bengtsson, Goran.Bengtsson@ekol.lu.se
Inger Wallentinus, Inger.Wallentinus@marbot.gu.se
- Location: Sidney
- 9:45 am Herborg, L. M.; Jerde, C. L.; Lodge, D. M.; Ruiz, G. M.; MacIsaac, H. J.: A RISK ASSESSMENT FOR THE DISTRIBUTION OF THE CHINESE MITTEN CRAB IN NORTH AMERICA BASED ON PROPAGULE PRESSURE AND ENVIRONMENTAL NICHE MODELS.
- 10:00 am Hanson, E.; Sytsma, M.: THE POTENTIAL FOR MITTEN CRAB COLONIZATION OF ESTUARIES ON THE WEST COAST OF NORTH AMERICA
- 10:15 am Gren, I.; Bohman, P.; Edsman, L.: SOCIAL NORMS, ECONOMICS, AND INVASIVE SPECIES: AN APPLICATION TO SIGNAL CRAYFISH IN SWEDEN
- 10:30 am Spindler, G.; Wahl, M.: DOES DIVERSITY AFFECT INVASIVENESS?
- 10:45 am Wallentinus, I.; Nyberg, C. D.: INTRODUCED MARINE ORGANISMS AS HABITAT MODIFIERS
- 11:00 am Järemo, L.: INVASIBILITY OF PLANT-HERBIVORE COMMUNITIES
- 11:30 am Bravo, M. A.; Cameron, B.; Metaxas, A.: SALINITY TOLERANCE IN THE EARLY LARVAL STAGES OF CARCINUS MAENAS, A RECENT INVADER OF THE BRAS D'OR LAKES, CANADA
- 11:45 am deRivera, C. E.; Ruiz, G. M.: SPATIAL PATTERNS OF NONINDIGENOUS INVERTEBRATES IN WEST COAST RESERVES AND SANCTUARIES
- 12:00 pm Clarke, C. L.; Therriault, T. W.; Jamieson, G. S.; Daniel, K.; Paltzat, D.; DiBacco, C.: SPATIAL DISTRIBUTION OF INVASIVE TUNICLES IN BRITISH COLUMBIA, CANADA
- 12:15 pm Jamieson, G. S.; Therriault, T. W.; Bravo, M. A.; Clarke, C. L.; DiBacco, C.: INTERTIDAL INVASIVE SPECIES IN THE STRAIT OF GEORGIA, BRITISH COLUMBIA, CANADA
- 12:30 pm Storch, A. J.; Schulz, K. L.; Caceres, C. E.; Smyntek, P.; Dettmers, J. M.; Teece, M. A.: ENERGETIC AND BIOCHEMICAL CONSEQUENCES OF SPECIES INVASIONS: EFFECTS OF EXOTIC ZOOPLANKTON ON FISH GROWTH AND ESSENTIAL FATTY ACID BALANCE
- 12:45 pm Schulz, K. L.; Mayer, C. M.; Ji, X.; Qin, P.: STOICHIOMETRIC AND ECOSYSTEM EFFECTS OF PHOSPHORUS ABATEMENT AND BIVALVE FILTRATION

TS-B19: DO VIRUSES CONTROL MICROBIAL ECOSYSTEMS?

- Chair(s): Eric Wommack
Corina Brussaard, corina.brussaard@nioz.nl
- Location: Carson Hall A
- 9:45 am Órnólfssdóttir, E. B.; Tester, P. A.; Litaker, R. W.: RICHNESS OF dsDNA PHYTOPLANKTON VIRUSES DURING AN ESTUARINE WINTER BLOOM OF AN ALGAE COMMUNITY
- 10:00 am Helton, R. R.; Wommack, K. E.: EXAMINATION OF VIRAL DIVERSITY IN CHESAPEAKE BAY SEDIMENTS
- 10:15 am Middelboe, M.; Holmfeldt, K.; Riemann, L.: VIRUSES ARE DRIVING FORCES FOR THE CLONAL DIVERSITY IN MARINE BACTERIAL POPULATIONS*
- 10:30 am Wommack, K. E.; Simon, M.; Bench, S. R.: SYNECOLOGICAL OBSERVATIONS OF VIRIOPLANKTON IN THE CHESAPEAKE BAY
- 10:45 am Boras, J. A.; Sala, M. M.; Vaqué, D.: VIRAL LYSIS AND BACTERIVORY AS PROKARYOTIC LOSS FACTORS OVER A SEASONAL CYCLE IN AN OLIGOTROPHIC COASTAL MARINE SYSTEM
- 11:00 am Personnic, S.; Domazon, I.; Jacquet, S.: FIRST ESTIMATES OF VIRAL IMPACT ON MICROBIAL COMMUNITIES IN LARGE FRENCH ALPINE LAKES
- 11:30 am Jerome, Payet, J. P.; Suttle, C. A.: TEMPORAL AND SPATIAL VARIABILITY OF VIRAL ABUNDANCE AND ACTIVITY IN THE CANADIAN BEAUFORT SEA
- 11:45 am Winget, D. M.; Wommack, K. E.: INTER-ANNUAL TRENDS OF VIRAL PRODUCTION IN THE CHESAPEAKE BAY
- 12:00 pm Pollard, P. C.: VIRUSES SHORT-CIRCUIT MICROBIAL LOOP IN A FRESHWATER SUBTROPICAL AUSTRALIAN RIVER
- 12:15 pm Mari, X.; Weinbauer, M. G.: ATTACHMENT OF VIRUSES TO TRANSPARENT EXOPOLYMERIC PARTICLES AS FUNCTION OF WATER RESIDENCE TIME
- 12:30 pm Tijdens, M.; Simis, S. G.; Hoogveld, H. L.; Kamst-van Agterveld, M. P.; Gons, H. J.: THE IMPACT OF VIRUSES ON MICROBIAL COMMUNITY COMPOSITION IN EUTROPHIC LAKE WATER
- 12:45 pm Lymer, E. D.; Brussaard, C.; Vrede, K.; Baudoux, A. C.; Lindström, E. S.: TEMPORAL CHANGES IN VIRAL COMMUNITY STRUCTURE IN A MESOTROPHIC LAKE

TS-C02: DOC INCREASES IN SURFACE WATERS - MULTIPLE MECHANISMS FOR A MAJOR PERTURBATION?

- Chair(s): Robert Sinsabaugh, rlsinsab@unm.edu
Stuart Findlay, findlays@ecostudies.org
- Location: Lecture Theatre
- 9:45 am Neff, J. C.: DISSOLVED ORGANIC CARBON FLUXES THROUGH SOILS: PROCESSES CONTROLLING THE PRODUCTION, STABILIZATION AND FLUX OF DOC IN TERRESTRIAL ECOSYSTEMS
- 10:00 am Monteith, D. T.; Stoddard, J. S.; Evans, C. D.; De Wit, H.; Forsius, M.; Högåsen, T.; Jeffries, D. S.; Kopáček, J.; Skjelkvåle, B. L.; Vesely, I.; Wiliander, A.: AN INTERNATIONAL ASSESSMENT OF TEMPORAL TRENDS IN DISSOLVED ORGANIC CARBON AND LIKELY DRIVERS
- 10:15 am Worrall, F.; Burt, T. P.: CURRENT TRENDS IN DOC CONCENTRATION AND FLUX IN UK RIVERS, LAKES AND RESERVOIRS
- 10:30 am Striegl, R. G.; Walvoord, M. A.: CLIMATE WARMING, CHANGING HYDROLOGY AND CARBON EXPORT FROM THE YUKON RIVER BASIN
- 10:45 am Clair, T. A.: HYDROLOGY CONTROLS DOC CONCENTRATIONS IN NOVA SCOTIAN LAKES AND RIVERS
- 11:00 am Granelli, W.; Romare, P.: THE BROWNIFICATION OF SOUTH SWEDISH LAKES
- 11:30 am Demarty, M.; Prairie, Y. T.: DOC RELEASED BY SUBMERGED MACROPHYTES IN SOUTHEASTERN QUEBEC LAKES, CANADA
- 11:45 am Guo, L. D.; Gueguen, C.; Wang, D.; Macdonald, R. W.: PHASE PARTITIONING AND DYNAMIC CYCLING OF ORGANIC CARBON AND NITROGEN IN THE UPPER YUKON RIVER
- 12:00 pm Chen, R. E.; Bandla, V.; Gardner, G. B.; Peri, F.; Tian, Y.; Huang, W.: CHROMOPHORIC DISSOLVED ORGANIC MATTER (CDOM) IN THE NEPONSET RIVER WATERSHED
- 12:15 pm Boyer, J. N.; Briceno, H.: WHAT IS DRIVING LONG-TERM DECLINES IN ORGANIC MATTER EXPORT FROM THE EVERGLADES MANGROVE FORESTS?
- 12:30 pm Sobczak, W. V.; Collins, B. M.; Etter, J. D.; Levenick, C. E.; Schwab, M. R.: ROLE OF FOREST PATHOGENS IN ALTERING CARBON DYNAMICS IN STREAM ECOSYSTEMS: WILL LOSS OF NEW ENGLAND'S EASTERN HEMLOCK CHANGE REGIONAL ORGANIC CARBON RETENTION?
- 12:45 pm Findley, S. E.; Sinsabaugh, R. L.; Zak, D. R.; Lovett, G. M.; Smemo, K. A.; Dail, B.: INCREASED CARBON LEACHING FROM SOILS: CAUSES AND CONSEQUENCES FOR AQUATIC ECOSYSTEMS

TS-C09: TRACE ELEMENTS AND ISOTOPES IN THE MARINE ENVIRONMENT

- Chair(s): Jay Cullen, jcullen@uvic.ca
Mak Saito, msaito@whoi.edu
- Location: Esquimalt
- 9:45 am Hutchins, D. A.: TRACE METAL INTERACTIONS WITH THE MARINE CARBON CYCLE: A CHANGING PERSPECTIVE~
- 10:00 am John, S. G.; Bergquist, B. A.; Saito, M. A.; Boyle, E. A.: THE MARINE BIOLOGICAL CYCLING OF ZN ISOTOPES
- 10:15 am Saito, M. A.; Noble, A. E.; Westley, M. B.; Popp, B. N.: EVIDENCE OF REDOX CYCLING OF COBALT IN THE COSTA RICA DOME AND CENTRAL PACIFIC: SIMILARITIES TO NITRITE AND NITROUS OXIDE DISTRIBUTIONS
- 10:30 am Shaked, Y.; Xu, Y.; Leblanc, K.; Morel, F. M.: ZINC AVAILABILITY AND ALKALINE PHOSPHATASE ACTIVITY IN EMILIANIA HUXLEYI: IMPLICATIONS FOR ZN-P CO-LIMITATION IN THE OCEAN
- 10:45 am Xu, Y.; Shaked, Y.; Tang, D.; Morel, F. M.: INTER-REPLACEMENT OF ZN, CD AND CO IN THE COCCOLITHOPHORE EMILIANIA HUXLEYI
- 11:00 am Alsaid, T. F.; Schroeder, D.; Taylor, A.; Millward, G.; Achterberg, E.: LIFE CYCLE AND VIRUS INFECTION OF EMILIANIA HUXLEYI; THE INFLUENCE ON TRACE METAL SPECIATION
- 11:30 am Orians, K. J.; Lekhi, P.; Pearce, C.: CADMIUM IN PACIFIC OYSTERS: A COMPARISON OF SEASONAL VARIATIONS OF CADMIUM CONCENTRATIONS IN SEAWATER AND IN BC CULTURED OYSTERS
- 11:45 am Thompson, A. W.; Saito, M. A.; Chisholm, S. W.: PROCHLOROCOCCUS IRON REQUIREMENTS AND WHOLE GENOME RESPONSE TO IRON STARVATION
- 12:00 pm Wiramanaden, C. I.; Ross, A. R.; Orians, K. J.: STRUCTURAL CHARACTERIZATION OF COPPER BINDING LIGANDS PRODUCED BY CYANOBACTERIA
- 12:15 pm Barats, A.; Amouroux, D.; Péchéryan, C.; Chauvaud, L.; Donard, O.: DAILY SCALE RECORDS OF TRACE ELEMENT CONCENTRATIONS IN THE CALCITE OF GREAT SCALLOP SHELLS "PECTEN MAXIMUS": POTENTIAL ARCHIVES OF BLOOMS AND UPWELLING EVENTS?
- 12:30 pm Edwards, A.; Trudel, M.; Mazumder, A.: HEAVY METALS IN PACIFIC OCEAN PERCH FROM BRITISH COLUMBIA: CONCERNS FOR PUBLIC HEALTH?
- 12:45 pm Epps, D. N.; Verenitch, S. S.; Lowe, C. J.; Mazumder, A.: AN INTEGRATED APPROACH TO ENVIRONMENTAL IMPACT ASSESSMENT OF HUMAN WASTE IN THE MARINE ENVIRONMENT

(*) represents Tutorial presentations

**TS-D04:
LAND-USE IMPACTS ON WATER QUALITY: SEARCH FOR SCIENCE
SUPPORTING BENEFICIAL MANAGEMENT PRACTICES FOR
SUSTAINABLE CLEAN AND HEALTHY WATER**

Chair(s):	Asit Mazumder, mazumder@uvic.ca Klaas Broersma, BroersmaK@AGR.GC.CA
Location:	Saanich I & 2
9:45 am	Schreier, H. : INNOVATIVE APPROACHES TO REDUCE THE IMPACT OF URBAN AND AGRICULTURAL LAND USE ON WATER QUALITY-
10:15 am	Meays, C. L. ; Broersma, K.; Nordin, R.; Samadpour, M.; Mazumder, A.: SPATIAL AND ANNUAL VARIABILITY IN CONCENTRATIONS AND SOURCES OF ESCHERICHIA COLI IN FOUR WATERSHEDS IN BRITISH COLUMBIA, CANADA
10:30 am	Bostan, V. ; Lissina, E.: THE IMPACT OF TWO FLUOROQUINOLONES ON AQUATIC MICROBIAL COMMUNITIES
10:45 am	Bunting, L. ; Leavitt, P. R.; Gibson, C. E.; McGee, E. J.; Hall, V. A.; Engstrom, D. R.: EFFECTS OF DIFFUSE SOURCES OF NITROGEN ON WATER QUALITY AND CYANOBACTERIAL ABUNDANCE
11:00 am	Chandra, S. ; Saito, L. ; Redd, C. F.; Fritsen, C. H.; Rosen, M. R.: STABLE-ISOTOPE-BASED FOOD WEB MODELS ON THE TRUCKEE RIVER, USA
11:30 am	Das, B. ; Nordin, R.; Mazumder, A.: ALTERATIONS IN HISTORICAL ORGANIC MATTER ACCUMULATION: A SOURCE DETECTION APPROACH USING STABLE ISOTOPES
11:45 am	Broersma, K. ; Roddan, B. H.; Wallis, M.; Mazumder, A.: WATERSHED EVALUATION OF BMPs IN THE SALMON RIVER WATERSHED IN SOUTH-CENTRAL BC
12:00 pm	Kowalenko, C. G. ; Schmidt, O.: ARE AGRICULTURAL SOILS IN THE LOWER FRASER VALLEY OF BRITISH COLUMBIA ACCUMULATING PHOSPHORUS TO CONTENTS THAT POSE A WATER CONTAMINATION RISK?
12:15 pm	Jiang, T. ; Devito, K. J.; Silins, U.; Wagner, M.: SOIL pH DRIVEN NUTRIENT EXPORT FROM THE BURNED CATCHMENTS OF SUBALPINE FOREST OF SOUTHERN ALBERTA, CANADA
12:30 pm	Gouze, E. ; Raimbault, P.; Garcia, N.; Picon, P.; Bernard, G.: IS IT POSSIBLE TO REDUCE IMPACT OF LARGE FRESHWATER INPUTS IN THE BERRE LAGOON (SOUTH OF FRANCE)?
12:45 pm	Warrick, J. A. ; Gelfenbaum, G.; Cochrane, G.; Beirne, M.; Winter, B.: DAM REMOVAL AS NEARSHORE RESTORATION - INVESTIGATIONS OF THE ELWHA RIVER COASTAL SYSTEM

**TS-E10:
FISH AND FISHERIES ECOLOGY**

Chair(s):	Vladlena Gertseva, vladlena.gertseva@oregonstate.edu
Location:	Carson Hall B
9:45 am	Sibert, J. ; Hampton, J.; Kleiber, P.; Maunder, M.: FISHERY INDUCED CHANGES IN BIOMASS OF TOP PREDATORS IN THE PACIFIC OCEAN
10:00 am	Azevedo, J. N. ; Valente, A.; Vieira, N.; Costa, R.; Couto, A.; Goncalves, V.: EFFECT OF COMMON CARP ON THE WATER QUALITY OF A VOLCANIC LAKE- A BIOMANIPULATION EXPERIMENT IN THE AZORES, PORTUGAL
10:15 am	Walther, B. D. ; Thorrold, S. R.: A CONTINENTAL-SCALE ASSESSMENT OF CHEMICAL SIGNATURES IN OTOLITHS: NEW APPROACHES TO ESTIMATE MIGRATION AND CONNECTIVITY PATTERNS IN ANADROMOUS FISHES
10:30 am	Elsdon, T. S. ; Thorrold, S. R.; Houghton, L. A.: COMPOUND SPECIFIC TRACERS IN FISH OTOLITHS, SCALES, AND SPINES AS STOCK DISCRIMINATION TOOLS
10:45 am	Richardson, D. E. ; Cowen, R. K.: ANNUAL EGG PRODUCTION OF SAILFISH AND BLUE MARLIN IN THE STRAITS OF FLORIDA
11:00 am	Guan, L. ; Snelgrove, P. V.: ONTOGENETIC CHANGES IN CRITICAL SWIM SPEEDS OF FISH
11:30 am	Appeldoorn, R. S. ; Bouwmeester, B. L.: MECHANISMS OF HABITAT CONNECTIVITY: FACTORS AFFECTING FISH ONTOGENETIC MIGRATION FROM BACKREEF NURSERY AREAS
11:45 am	Hsieh, H. Y. ; Lo, W. T.; Liu, D. C.; Su, W. C.: SEASONAL AND SPATIAL PATTERNS OF FISH LARVAE ASSEMBLAGES IN THE WATERS SURROUNDING TAIWAN, WESTERN NORTH PACIFIC
12:00 pm	Sponaugle, S. ; Grorud-Colvert, K.: TEMPERATURE-MEDIATED VARIATION IN EARLY LIFE HISTORY TRAITS AND CONSEQUENCES FOR RECRUITMENT AND EARLY SURVIVAL IN A CORAL REEF FISH
12:15 pm	Petereit, C. ; Haslob, H.; Kraus, G.; Clemmesen, C.: SIMULATING THE EFFECT OF CLIMATE WARMING ON THE DEVELOPMENTAL SUCCESS OF SPRAT EARLY LIFE HISTORY STAGES: ARE BALTIC AND NORTH SEA SPRAT DIFFERENTLY AFFECTED?
12:30 pm	Llopiz, J. K. ; Cowen, R. K.: FEEDING ECOLOGY OF LARVAL BILLFISHES AND THEIR DYNAMIC ROLE IN THE OCEANIC PLANKTONIC FOOD WEB

WEDNESDAY

(*) represents Invited presentations

THURSDAY, JUNE 8, 2006

RS05: ECOSYSTEMS

Chair(s): Laurel Saito, lsaito@cabnr.unr.edu
 Jan Newton, newton@apl.washington.edu

Location: Carson Hall C

10:45 am	Peters, D. L.; Baird, D. J.: INSTREAM FLOW NEEDS IN CANADA: A REVIEW
11:00 am	Kilham, S. S.; Hunte-Brown, M. E.: FRACTIONATION OF STABLE ISOTOPES OF NITROGEN AND CARBON IN NEOTROPICAL STREAM ECOSYSTEMS
11:15 am	Hauxwell, J.; Knight, S.; Mikulyuk, A.; Wagner, K.; Rasmussen, P.: TESTING AND IMPLEMENTATION OF A STATEWIDE PROTOCOL FOR ASSESSING AQUATIC PLANT COMMUNITIES IN WISCONSIN
11:30 am	Zhang, J. P.; Hudson, J. J.: LONG-TERM PATTERNS IN DISSOLVED ORGANIC CARBON AFFECTED BY REGIONAL FACTORS: REGRESSION MODEL COMPARISONS IN FOUR DISTRICTS ACROSS EASTERN CANADA
11:45 am	Saito, L.; Segale, H. M.: OUTCOMES OF THE INTERDISCIPLINARY MODELING FOR AQUATIC ECOSYSTEMS CURRICULUM DEVELOPMENT WORKSHOP
12:00 pm	Williams, B. J.; Kuczera, G. A.: BAYESIAN TOTAL ERROR ANALYSIS APPLIED TO AN ECOSYSTEM MODEL OF LAKE WASHINGTON
2:00 pm	Helps, D. M.; Bogard, M. J.; Hudson, J. J.; Neal, B. R.: URANIUM MINING IMPACTS ON BIODIVERSITY AND ECOSYSTEM FUNCTION: STABILITY IN THE PLANKTONIC COMMUNITY
2:15 pm	Rippey, B.; McSorley, C.: HIGH OXYGEN DEPLETION RATES IN THE HYPOLIMNIA OF SMALL, EUTROPHIC LAKES CAUSED BY MINERALIZATION OF SEDIMENTING PHYTOPLANKTON
2:30 pm	Ostrovsky, I.; Baumert, H. Z.: TEMPORAL AND SPATIAL VARIATIONS OF BIOGEOCHEMICAL PARAMETERS IN THE METALIMNION OF LAKE KINNERET (ISRAEL)
2:45 pm	Ask, J.; Karlsson, J.; Jansson, M.: MOBILIZATION AND TRANSFER OF ENERGY IN HIGH LATITUDE LAKE ECOSYSTEMS IN NORTHERN SWEDEN
3:00 pm	Vadeboncoeur, Y.; Devlin, S. P.; Vander Zanden, M. J.: SPATIO-TEMPORAL VARIATION IN BENTHIC ALgal BIOMASS, C:N:P, AND PRIMARY PRODUCTIVITY IN NORTH TEMPERATE LAKES
3:15 pm	Losic, S.; Schindler, D. W.: USING SEDIMENT CORES TO EXAMINE THE IMPACTS OF NUTRIENT IMPORT BY DOUBLE-CRESTED CORMORANTS NESTING ON SMALL BOREAL LAKES
4:00 pm	Ahmed, S. I.; Al-Hashmi, K. A.; Al-Azri, A. R.; Al-Shelli, S.: TROPHIC INTERACTIONS AND FOODWEB DYNAMICS BETWEEN PRIMARY PRODUCERS AND CONSUMERS IN MANGROVE ECOSYSTEMS OF OMAN
4:15 pm	Fry, B.; Rose, K. A.; Roth, B.; Salmon, A.: OPEN BAYS AND MARSHES AS NURSERY AREAS FOR LOUISIANA BROWN SHRIMP
4:30 pm	Riedel, A. L.; Michel, C.; Gosselin, M.; LeBlanc, B.: EFFECTS OF EPS AND NUTRIENT REGENERATION ON COMMUNITY ENRICHMENT IN NEWLY FORMED SEA ICE ON THE MACKENZIE SHELF
4:45 pm	Juul-Pedersen, T.; Michel, C.; Gosselin, M.; LeBlanc, B.: SEASONAL TRENDS IN SEDIMENTATION UNDER FIRST-YEAR ICE OF THE SOUTHEASTERN BEAUFORT SEA, FROM MID-WINTER TO THE END OF SPRING
5:00 pm	Riedel, A.; Michel, C.; Gosselin, M.; LeBlanc, B.: CARBON FLOW IN THE SEA ICE OF THE MACKENZIE SHELF: THE DOC PATHWAY
5:15 pm	Kelly, D. J.; Grey, J.; Hartley, I. R.; Bearhop, S.: ACROSS ECOSYSTEM BOUNDARIES: FROM LACUSTRAL BENTHIC METHANE TO AERIAL VERTEBRATES

TS-A03: INTEGRATED APPROACHES TO ASSESSING THE EFFECTS OF GLOBAL CHANGE AND OTHER DRIVERS OF CHANGE ON FRESHWATER ECOSYSTEMS

Chair(s): Peter Dillon, pdillon@trentu.ca
 Martin Kieran, mkieran@geog.ucl.ac.uk

Location: Empress Hotel

10:45 am	Crowe, A. M.; Schindler, D. W.; Vinebrooke, R. D.; Wolfe, A. P.: USE OF PALEOLIMNOLOGY TO REVEAL CULTURAL AND CLIMATE INDUCED EUTROPHICATION TRENDS IN A LARGE BOREAL LAKE
11:00 am	Ivanochko, T. S.; Pedersen, T. F.; Calvert, S. E.; Thomson, R. E.; Dallimore, A.: A HIGH-RESOLUTION, HOLOCENE, GEOCHEMICAL RECONSTRUCTION OF CHANGES IN THE STRENGTH OF WIND-GENERATED COASTAL UPWELLING IN THE EASTERN NORTH PACIFIC
11:15 am	Moore, K.; Naden, P. S.; Pierson, D. C.; Weyhenmeyer, G. A.; Pettersson, K.; Samuelsson, P.: MONITORING AND MODELING FLUCTUATIONS IN DISSOLVED ORGANIC MATTER IN A SWEDISH RIVER
11:30 am	Naden, P. S.; Jennings, E.; Järvinen, M.; Moore, K.; Nic Aonghusa, C.; Pierson, D.; Samuelsson, P.; Schneiderman, E.: PROJECTED CLIMATE IMPACTS ON DISSOLVED ORGANIC CARBON: EXAMPLES FROM NORTH-WEST EUROPE
11:45 am	Evans, M. A.; Kling, G. W.: INTERACTING EFFECTS OF LAKE MORPHOLOGY, NUTRIENT ENRICHMENT, AND STORM EVENT FREQUENCY ON PHYTOPLANKTON PRODUCTION

2:00 pm	Kamenir, Y. G.; Dubinsky, Z.; Zohary, T.: FREQUENCY-WEIGHTED TAXONOMIC SIZE SPECTRA OF LAKE KINNERET PHYTOPLANKTON UNDER STABLE AND PERTURBED CONDITIONS
2:15 pm	Paterson, A. M.; Winter, J. G.; Nicholls, K. H.; Yan, N. D.; Chueng, C. S.; Smol, J. P.: LONG-TERM IMPACTS OF ACID DEPOSITION AND CLIMATE CHANGE ON THE PHYTOPLANKTON COMPOSITION OF NUTRIENT-POOR LAKES ON THE SOUTHERN CANADIAN SHIELD
2:30 pm	Rolinski, S.; Paul, L.; Horn, H.; Horn, W.; Petzoldt, T.: INFLUENCE OF CLIMATIC CONDITIONS ON THE SUCCESSION OF PHYTOPLANKTON, ZOOPLANKTON AND FISH: ANALYSIS OF LONG-TERM DATA FROM SAIDENBACH RESERVOIR (GERMANY)
2:45 pm	Lorenz, A.; Graf, W.; Hering, D.; Schmidt-Kloiber, A.: ASSESSING CLIMATE CHANGE IMPACTS ON FRESHWATER ECOSYSTEMS USING A DATABASE OF AUTECOLOGICAL INFORMATION FOR EUROPEAN MACRO-INVERTEBRATES AND FISH
3:00 pm	Kefford, B. J.; Dunlop, J.; Metzeling, L.; Nugegoda, D.; Palmer, C. G.; Choy, S.: THE EFFECTS OF INCREASED SALINITY ON FRESHWATER MACROINVERTEBRATES IN AUSTRALIA AND SOUTH AFRICA
3:15 pm	Scheuerell, M. D.; Hilborn, R.; Ruckelshaus, M. H.; Bartz, K. K.; Battin, J.; Haas, A. D.; Rawson, K.: INCORPORATING ANTHROPOGENIC EFFECTS AND FISH-HABITAT RELATIONSHIPS IN CONSERVATION PLANNING
4:00 pm	Staehr, P. A.; Closter, R. M.; Dahl-Madsen, K. I.: IMPACT OF CLIMATE CHANGES ON ECOSYSTEM METABOLISM OF A SHALLOW EUTROPHIC LAKE
4:15 pm	Yan, N. D.; Ashforth, D.; Paterson, A. M.; Dillon, P. J.; McNicol, D.; Jeziorski, A.: INTERACTIVE THREAT OF CLIMATE WARMING, AND NUTRIENT AND CALCIUM DECLINE ON CA-RICH TAXA, PARTICULARLY CRUSTACEAN ZOOPLANKTON, IN CANADIAN SHIELD LAKES
4:30 pm	Malkin, S. Y.; Hecky, R. E.; Guildford, S. J.: CARBON ACQUISITION BY THE MACROALGA CLADOPHORA GLomerata IN LAKE ONTARIO
4:45 pm	Stuparu, A.; Glémot, H.; Frenette, J.: SPATIO-TEMPORAL VARIATIONS OF PERIPHYTON NUTRITIONAL QUALITY AND THE EFFECTS ON THE GROWTH RATE OF AN HERBIVORE IN A FLUVIAL LAKE (LAKE SAINT-PIERRE, QUÉBEC)
5:00 pm	Kelly, E. N.; Demers, M. J.; Schindler, D. W.; St. Louis, V. L.; Donald, D. B.; Blais, J. M.; Pick, F. R.: EFFECTS OF FOREST FIRE ON MERCURY AND PERISTENT ORGANIC POLLUTANT ACCUMULATION BY FISHES
5:15 pm	Hassler, C. S.; Bullerjahn, G. S.; McKay, R. M.; Havens, S. M.; Twiss, R. M.: INVESTIGATION OF IRON BIOAVAILABILITY IN NATURAL WATERS USING A SYNECHOCOCCUS IRON-BIREPORTER RELATED TO BIOLOGICAL AND CHEMICAL FRACTIONS

TS-B01: ZOOPLANKTON BEHAVIOR AND SENSORY PERCEPTION

Chair(s): Rebecca J. Waggett, waggett@gso.uri.edu
 Nancy M. Butler, butler@kutztown.edu

Location: Carson Hall A

10:45 am	Buskey, E. J.; Strickler, J. R.; Lenz, P. H.: ESCAPE BEHAVIOR OF EARLY DEVELOPMENTAL STAGES OF THE CALANOID COPEPOD ACARTIA TONSA: 3-D HIGH SPEED VIDEO ANALYSIS*
11:00 am	Fields, D. M.: DOES ORIENTATION MATTER FOR DETECTING FLUID SIGNALS?
11:15 am	Robinson, H. E.; Buskey, E. J.: THE EFFECT OF TURBULENCE ON COPEPOD DETECTION OF A FLOW-GENERATING PREDATOR
11:30 am	Waggett, R. J.; Gifford, D. J.; Costello, J. H.; Colin, S.; Sullivan, I. J.: FEEDING ECOLOGY OF THE HYDROMEDUSA RATHKEA OCTOPUNCTATA
11:45 am	Colin, S. P.; Kordula, H.; Regula, C.; Costello, J. H.: MECHANISMS OF PREY SELECTION IN AMBUSHING HYDROMEDUSAE
12:00 pm	Taylor, I. C.; Odom, D. C.; Moss, A. G.: BENTHIC INTERACTIONS IN MNEMIOPSIS
2:00 pm	Paffenhofer, G. A.; Gelder, A. R.: ON THE ECOLOGY OF OITHONA. I. INTERACTIONS OF OITHONA WITH ITS PREY
2:15 pm	Jiang, H.; Paffenhofer, G. A.: ON THE ECOLOGY OF OITHONA. II. AN ANALYSIS OF THE TEMPORAL-SPATIAL SIGNAL PERCEPTION BY OITHONA PLUMIFERA
2:30 pm	Yen, J.: DESIGNING A COPEPOD LURE: COME HITHER, LITTLE COPEPOD...
2:45 pm	McNaught, A. S.; Weber, A. M.: CHANGES TO THE ZOOPLANKTON COMMUNITY FOLLOWING THE APPEARANCE AND DISAPPEARANCE OF LEPTODORA KINDTI
3:00 pm	Weber, A. M.; McNaught, A. S.: MORPHOLOGICAL RESPONSE OF BOSMINA TO THE CLADOCERAN PREDATOR LEPTODORA KINDTI.
3:15 pm	Young, J. D.; Yan, N. D.: DIEL VERTICAL MIGRATION OF BYTHOTREPES: IS THE DAYTIME DISTRIBUTION IN THE METALIMNION A REFUGE FROM THEIR COLD-WATER PREDATOR?
4:00 pm	Dutz, J.; Peters, J.; Hansen, F.: THE IMPORTANCE AND QUALITY OF 'LARGE' MICROZOOPLANKTON FOR THE REPRODUCTION OF ACARTIA CLAUSI IN THE NORTH SEA, GERMANY
4:15 pm	Wohlford, T. D.; Strom, S. L.: MICROZOOPLANKTON GRAZING AND GROWTH RATE RESPONSES TO PHYTOPLANKTON GROWN ON DIFFERENT NUTRIENT REGIMES

(*) represents Tutorial presentations

4:30 pm	<u>Waters, R. L.</u> ; Grunbaum, D.; Lessard, E. J.: QUANTIFYING THE BEHAVIOURAL RESPONSE OF HETEROTROPHIC PROTISTS TO RESOURCE PATCHES
4:45 pm	<u>Grunbaum, D.</u> ; Menden-Deuer, S.; Waters, R. L.: ECOLOGICAL EFFECTS OF BIOMECHANICAL AND BEHAVIORAL CONSTRAINTS ON ZOOPLANKTON THAT CONSUME PATCHY RESOURCES
5:00 pm	<u>Sederstrom, A. L.</u> ; Grunbaum, D.: THE INFLUENCE OF CELL CYCLE PHYSIOLOGY ON OXYRRHIS MARINA SWIMMING BEHAVIOR, VERTICAL SPATIAL DISTRIBUTION AND POPULATION DYNAMICS
5:15 pm	<u>Tarling, G. A.</u> : BEHAVIOURAL ECOLOGY OF NORTHERN AND ANTARCTIC KRILL: THE ROLE OF ENVIRONMENTAL FACTORS AND INTERNAL STATE

TS-B02: THE ROLE OF GENETIC DIVERSITY IN CHANGING ENVIRONMENTS

Chair(s):	Gregor Fussmann, gregor.fussmann@mcgill.ca Thorsten Reusch, treusch@uni-muenster.de
Location:	Esquimalt
10:45 am	<u>Vellend, M.</u> : THE ECOLOGICAL CONSEQUENCES OF GENETIC DIVERSITY-van Oppen, M. J.; Willis, B. L.; Abrego, D.; Mieog, J. C.; Uslerup, K. E.: FLEXIBILITY OF THE CORAL-ALGAL SYMBIOSIS AS A MECHANISM TO COPE WITH CLIMATE CHANGE?
11:00 am	<u>Reusch, T. B.</u> ; Ransbotten, V.; Oetjen, K.; Ehlers, A.: MARINE SEAGRASSES AS MODELS FOR ADAPTIVE EVOLUTION IN THE FACE OF CLIMATE CHANGE
II:15 am	<u>Yannarell, A. C.</u> ; Steppe, T. F.; Paerl, H. W.: REDUNDANT MICROBIAL DIVERSITY PROMOTES RECOVERY OF ECOSYSTEM FUNCTION FOLLOWING HURRICANE FRANCES
II:30 am	<u>Ahlgren, N. A.</u> ; Rocap, G.: MULTILocus GENOTYPING OF MARINE SYNECHOCOCUS: DO SELECTIVE SWEEPS CONTRIBUTE TO ECOTYPIC DIFFERENTIATION?
II:45 am	<u>Jiao, N. Z.</u> : A GLOBAL VIEW OF AEROBIC ANOXYGENIC PHOTOTROPHIC BACTERIA IN THE OCEAN: FROM GENETIC DIVERSITY TO ECOLOGICAL SIGNIFICANCE
12:00 pm	<u>Lin, X.</u> ; Chistoserdov, A. Y.; Scranton, M.; Varela, R.; Taylor, G.: SPATIOTEMPORAL DYNAMICS OF MICROBIAL COMMUNITIES IN THE ANOXIC CARIACO BASIN (VENEZUELA): CONTROLLED BY EPISODIC EVENTS OR CONSTANT ENVIRONMENTAL VARIABLES?
2:00 pm	<u>Fussmann, G. F.</u> : GENETIC DIVERSITY AND PLANKTON DYNAMICS - A THEORETICAL PERSPECTIVE
2:30 pm	<u>Ibelings, B. W.</u> ; De Bruin, A.; Kagami, M.; Van Donk, E.: IT TAKES ALL THE SWIMMING YOU CAN DO...
2:45 pm	<u>Lakeman, M. B.</u> ; Cattolico, R. A.: ADAPTATION IN CHANGING ENVIRONMENTS: THE ROLE OF SPONTANEOUS MUTATION
3:00 pm	<u>Huber, V.</u> ; Gaedke, U.: THE ROLE OF PREDATION FOR SEASONAL VARIABILITY PATTERNS AMONG PHYTOPLANKTON AND CILIATES
3:15 pm	<u>Mitchell, S. E.</u> ; <u>Lampert, W.</u> : GENETIC VARIABILITY AND TEMPERATURE ADAPTATION IN SEASONALLY AND GEOGRAPHICALLY SEPARATED POPULATIONS OF DAPHNIA MAGNA: SIMILARITY OF REACTION NORMS
4:00 pm	<u>Ortells, R.</u> ; Louette, G.; Vanoverbeke, J.; De Meester, L.: THE ROLE OF GENETIC DIVERSITY IN RECENTLY FOUNDED POPULATIONS
4:15 pm	<u>De Meester, L.</u> ; Louette, G.; Duvinier, C.: FROM POPULATION GENETICS TO COMMUNITY ECOLOGY: GENETIC COMPOSITION OF RESIDENT POPULATIONS INFLUENCES ESTABLISHMENT SUCCESS OF IMMIGRANT SPECIES
4:30 pm	<u>Wolinska, J.</u> ; Bittner, K.; <u>Spaak, P.</u> : THE COEXISTENCE OF HYBRID AND PARENTAL DAPHNIA - THE ROLE OF PARASITES
4:45 pm	<u>Hargrave, C. W.</u> ; Hambright, K. D.; Weider, L. J.: GENETIC DIVERSITY EFFECTS ON ECOSYSTEM FUNCTION: GRAZING RATES IN CLONAL VERSUS NON-CLONAL DAPHNIA ASSEMBLAGES
5:00 pm	<u>Weider, L. J.</u> ; Ieyasingh, P. D.; Looper, K. G.: BIO(GENETIC) DIVERSITY IMPACTED BY FOOD QUALITY AND QUANTITY: COMPETITION AND COEXISTENCE IN A DAPHNIA CLONAL ASSEMBLAGE
5:15 pm	<u>Nelson, W. A.</u> ; McCauley, E.: THE MAINTENANCE OF GENETIC DIVERSITY THROUGH FLUCTUATING SELECTION: A META-ANALYSIS IN ZOOPLANKTON

TS-B04: THE CHANGING STRAIT OF GEORGIA

Chair(s):	Sandy McFarlane, Mcfarlanes@pac.dfo-mpo.gc.ca Dick Beamish, Beamishr@pac.dfo-mpo.gc.ca
Location:	Coolwood
10:45 am	<u>Beamish, R. J.</u> ; Sweeting, R. M.; Neville, C. M.; Lange, K. T.: DECLINING MARINE SURVIVAL OF COHO AND ASSOCIATED BEHAVIORAL CHANGES
II:00 am	<u>Dower, J. F.</u> ; Sastrri, A. R.; El-Sabaawi, R.; Bird, T. J.: RECENT CHANGES IN THE BIOMASS AND COMPOSITION OF THE MESOZOOPLANKTON COMMUNITY IN THE STRAIT OF GEORGIA
II:15 am	<u>Greene, C. H.</u> ; Welch, D. W.; Jackson, G. D.; Tsang, P.: COMPARING FRESHWATER AND MARINE SURVIVAL OF BRITISH COLUMBIA SALMON USING THE PACIFIC OCEAN SHELF TRACKING (POST) ARRAY

II:30 am	<u>Schweigert, J. F.</u> : LONGTERM VARIATION IN THE STRAIT OF GEORGIA PACIFIC HERRING POPULATION
II:45 am	<u>Neville, C. M.</u> ; Sweeting, R. M.; Beamish, R. J.: A DECREASE IN THE OCCURRENCE OF RIVER LAMPREY IN THE SURFACE WATERS OF THE STRAIT OF GEORGIA
12:00 pm	<u>Masson, D.</u> ; Romaine, S.; Beauchemin, L.: OBSERVED VARIABILITY AND TRENDS OF OCEAN PROPERTIES IN THE STRAIT OF GEORGIA
2:00 pm	<u>Johannessen, S. C.</u> ; Macdonald, R. W.: GEOCHEMICAL SENSITIVITIES TO CLIMATE CHANGE IN THE STRAIT OF GEORGIA
2:15 pm	<u>Grout, A. K.</u> ; Georgianna, T. D.: CLIMATE CHANGE EFFECTS ON PUGET SOUND WATER QUALITY
2:30 pm	<u>Grossman, E. E.</u> ; Rosenbauer, R. J.; Takesue, R. K.; Wyllie-Echeverria, S.; Beamer, E. M.; Hood, W. G.: PROXIMAL AND DISTAL SEDIMENTATION IMPACTS TO NEARSHORE HABITATS IN THE SKAGIT DELTA AND SAN JUAN ISLANDS
2:45 pm	<u>Nelson, T. C.</u> ; Gazey, W. J.; English, K. K.; Rosenau, M. L.; Hansen, R.: USING THE POPULATION OF WHITE STURGEON (<i>ACIPENSER TRANSMONTANUS</i>) IN THE LOWER FRASER RIVER AS AN INDICATOR OF ECO-CHANGE IN THE GREATER STRAIT OF GEORGIA

TS-B05: DYNAMICS AND INTERCHANGE BETWEEN RIVERS AND MARINE ENVIRONMENT IN ARID ZONES

Chair(s):	Adnan Al-Azri, aalazri@yahoo.com Faiza Al-Yamani, fyamani@kisr.edu.kw
Location:	Coolwood
3:00 pm	<u>Webster, I. T.</u> ; Radke, L. C.; Robson, B. J.; Ford, P. W.: MATERIAL FLUXES AND STORAGE IN THE FITZROY ESTUARY AND KEPPEL BAY - A HIGHLY EPISODIC SYSTEM IN DRY TROPICAL AUSTRALIA
3:15 pm	<u>Ford, P. W.</u> ; Webster, I. T.; Radke, L. C.: NUTRIENT DYNAMICS IN LARGE TIDAL CREEKS IN THE DRY TROPICS: FITZROY ESTUARY, AUSTRALIA.
3:30 pm	<u>Blondeau, J.</u> ; Carr, L.; <u>Idrisi, N.</u> ; Smith, T.: Spatio-temporal Variations of Terrestrial Sedimentation Rates on US Virgin Island Reefs
4:00 pm	<u>Furnans, J.</u> ; <u>Guthrie, C. G.</u> ; Hodges, B.: SALINITY INDUCED HYPoxIA IN A SOUTH TEXAS BAY MIMICS POTENTIAL IMPACTS OF DESALINATION ACTIVITIES IN COASTAL WATERS
4:15 pm	<u>Douabul, A.</u> ; Abayachi, J. K.; Alwash, A.; Warner, B. G.: ARE THE MESOPOTAMIAN WETLANDS IN IRAQ A SINK OR SOURCE FOR POLLUTANTS IN THE ARABIAN GULF?*
4:30 pm	<u>Salman, N. A.</u> : STATUS OF POLLUTION AND WATER QUALITY IN SHATT AL-ARAB RIVER AND IRAQI COASTS N/W ARABIAN GULF
4:45 pm	<u>Alwan, A. A.</u> ; Al-Essa, S. A.; Al-Sabonji, A. A.: THE AQUATIC PLANTS OF THE SHATT AL-ARAB ESTUARY AND THEIR IMPACT ON THE ECOLOGY OF THE NORTHERN ARABIAN GULF.
5:00 pm	<u>Krupp, F.</u> ; Zajonz, U.: INTERCHANGE OF FISH POPULATIONS BETWEEN FRESHWATER, BRACKISH AND MARINE ENVIRONMENTS IN SOCOTRA ISLAND, YEMEN
5:15 pm	<u>Al Rifai, K. S.</u> ; Al Yamani, F. Y.: IMPACT OF SHATT AL ARAB RIVER DISCHARGE ON KUWAIT'S BACTERIOPLANKTON DENSITIES

TS-B08: LINKING THE NUTRIENT PHYSIOLOGY OF MARINE PHYTOPLANKTON TO REGIONAL AND GLOBAL BIOGEOCHEMISTRY

Chair(s):	Diana Varela, dvarale@uvic.ca Rebecca Shipe, rshipre@ucla.edu
Location:	Saanich 1 & 2
10:45 am	<u>Montoya, J. P.</u> ; Holl, C. M.; Voss, M.; Capone, D. G.; Zehr, J. P.: NITROGEN FIXATION IN THE OPEN OCEAN: WHO, WHERE, AND WHY?*
II:15 am	<u>Rabouille, S. A.</u> ; Agawin, N. S.; Van Overzee, H.; Huisman, J.: COMPETITION FOR NITROGEN AND LIGHT BETWEEN NITROGEN-FIXING PICOCYANOBACTERIA AND OTHER PHYTOPLANKTON SPECIES
II:30 am	<u>Berges, J. A.</u> : PHYTOPLANKTON CELL DEATH: A CRITICAL LINK BETWEEN PHYSIOLOGY AND BIOGEOCHEMISTRY*
II:45 am	<u>Behrenfeld, M. J.</u> : NUTRIENT STRESS DIAGNOSTICS REVEAL CONSTRAINTS ON RESIDENT PHYTOPLANKTON OF THE TROPICAL PACIFIC OCEAN
12:00 pm	<u>Ragueneau, O.</u> ; Schultes, S.; Bidle, K.; Clauquin, P.; Pondaven, P.: Si:C RATIOS FROM CELLULAR TO GLOBAL SCALES : WHAT ROLE FOR DIATOMS IN THE BIOLOGICAL PUMP?
2:00 pm	<u>Krause, J. W.</u> ; Nelson, D. M.: MEASURING RATES OF BIOGENIC SILICA DISSOLUTION USING ³² Si IN OCEANIC AREAS WITH HIGH RATIOS OF DISSOLVED SILICATE TO BIOGENIC PARTICULATE SILICA
2:15 pm	<u>Lane, E. S.</u> ; Tortell, P. D.; Cullen, J. T.; Maldonado, M. T.: IRON AND CADMIUM UPTAKE KINETICS OF THE MARINE DIATOM <i>THALASSIOSIRA OCEANICA</i>
2:30 pm	<u>Trimborn, S.</u> ; Richter, K. U.; Langer, G.; Rost, B.: EFFECTS OF [Ca ²⁺] AND IRRADIANCE ON CALCIFICATION AND PHOTOSYNTHESIS IN THE COCCOLITHOPHORE <i>EMILIANIA HUXLEYI</i> (HAZOPHYCEAE)

(*) represents Invited presentations

2:45 pm	Pena, A.; Foreman, M.; Morrison, J.: MODELING SUMMER NUTRIENT AND PHYTOPLANKTON DYNAMICS OFF THE ENTRANCE OF JUAN DE FUCA STRAIT
3:00 pm	Granger, L.; Sigman, D. M.; Difiore, P.: N BIOGEOCHEMICAL TRANSFORMATIONS INFERRED FROM NITRATE N AND O ISOTOPE FRACTIONATION
3:15 pm	Capone, D. G.: SPANNING SCALES IN BIOLOGICAL OCEANOGRAPHY- CAN WE GAIN GLOBAL INFERENCES FROM PHYSIOLOGICAL EXPERIMENTS?

TS-B15: CONSEQUENCES OF MULTIPLE TROPHIC LEVELS IN PLANKTON COMMUNITIES

Chair(s):	Jennifer E. Purcell, purcelj@cc.wwu.edu
Location:	Saanich I & 2
4:00 pm	Arnett, S. E.; Hasek, D.: BIOLOGICAL RESISTANCE TO RECOVERY FOLLOWING CHEMICAL RECOVERY FROM ACIDIFICATION
4:15 pm	Cobbaert, D.; Bayley, S. E.: TROPHIC CASCADE STRENGTH OF PREDACEOUS WATER BEETLES ALONG A PHOSPHORUS GRADIENT IN SHALLOW WATER WETLANDS
4:30 pm	Bobson, J. M.; Dickman, E. M.; Gonzalez, M. J.; Vanni, M. J.: THE EFFECTS OF LIGHT, NUTRIENTS, AND PLANKTIVOROUS FISH ON ZOOPLANKTON COMMUNITIES
4:45 pm	Dickman, E. M.; Bobson, J. M.; Vanni, M. J.; Gonzalez, M. J.: EFFECTS OF LIGHT, NUTRIENTS, AND PLANKTIVOROUS FISH ON SESTON STOICHIOMETRY, PHYTOPLANKTON COMMUNITIES, AND TROPHIC EFFICIENCY
5:00 pm	Miki, T.; Kagami, M.; Takimoto, G.: DIRECT AND INDIRECT EFFECTS OF PARASITIC FUNGI OF PHYTOPLANKTON ON MATERIAL CYCLING, AND THEIR SHIFTS INDUCED BY ENVIRONMENTAL CHANGES: A MATHEMATICAL MODEL
5:15 pm	Parker, B. R.; Schindler, D. W.: STRONG CASCADING TROPHIC INTERACTIONS IN AN OLIGOTROPHIC, SPECIES-POOR ALPINE LAKE

TS-B22: CRABS, BENTHOS AND BENTHIC PROCESSES

Chair(s):	Erin Lindquist, erin@ots.ac.cr Ken Krauss, kkrauss@usgs.gov
Location:	Carson Hall B
10:45 am	Lindquist, E. S.; Krauss, K. W.; O'Dowd, D. J.: GETTING THE CRAB WALK STRAIGHT: CRABS AS ECOLOGICAL FILTERS IN COASTAL AND FRESHWATER ECOSYSTEMS*
11:15 am	Sousa, W. P.: PREDATION BY ARTHROPODS ON MANGROVE PROPAGULES: CONTRASTING IMPACTS OF CRABS AND INSECTS ON FOREST STRUCTURE*
11:30 am	Minchinton, T. E.: POSITIVE AND NEGATIVE EFFECTS OF CRABS ON THE EARLY REGENERATION OF MANGROVES
11:45 am	Krauss, K. W.: SEED PREDATION BY CRABS ON TWO MICRONESIAN MANGROVE SPECIES: EVALUATING THE DOMINANCE-PREDATION HYPOTHESIS
12:00 pm	Sherman, P. M.: INFLUENCE OF LAND CRABS (GECARCINIDAE) ON SEEDLING SURVIVORSHIP, FOREST COMPOSITION, LEAF LITTER ACCUMULATION, NUTRIENT CYCLING DYNAMICS AND ROOT DISTRIBUTIONS
2:00 pm	Gutiérrez, J. L.; Jones, C. G.; Findlay, S. E.; Groffman, P. M.; Iribarne, O. O.; Ribeiro, P. D.: LITTER RETENTION IN SOUTHWESTERN ATLANTIC SALT MARSHES: THE CONTRIBUTION OF BURROWING CRABS
2:15 pm	Fraiola, K. M.; Covich, A. P.: ONTOGENETIC TROPHIC SHIFTS AND EFFECTS OF FOOD QUALITY ON GROWTH OF AN OMNIVOROUS FRESHWATER CRAB, EPILOBOCERA SINUATIFRONS
2:30 pm	Kreutzweiser, D. P.; Devries, B. J.; Nicholson, C.: INFLUENCES ON WITHIN-STREAM VARIABILITY IN LEAF PACK BREAKDOWN IN A FOREST HEADWATER STREAM
2:45 pm	Voelker, J.; Borchardt, D.; Banning, M.: RELATIONS BETWEEN HYDROMORPHOLOGICAL FEATURES AND BENTHIC INVERTEBRATE COMMUNITIES IN RIVERS: A TEST OF THE HABITAT DIVERSITY HYPOTHESIS
3:00 pm	Nogaro, G.; Mermilliod-Blondin, F.; François-Carcaillet, F.; Gaudet, J. P.; Gibert, J.: INFLUENCE OF INVERTEBRATE BIOTURBATION ON PHYSICAL AND BIOGEOCHEMICAL FUNCTIONING OF WATER-SEDIMENT INTERFACE CLOGGED BY FINE SEDIMENT.
3:15 pm	Sokal, M. A.; Hall, R. I.; Wolfe, B. B.: AN EXAMINATION OF FACTORS REGULATING EPIPHYTIC DIATOM COMMUNITIES IN PONDS OF A FLOOD-PRONE DELTA
4:00 pm	Grey, L.; Deines, P.; Stott, A. W.: DOES THE COST OF LIVING AT DEPTH FORCE DIETARY SWITCH IN LAKE-DWELLING CHIRONOMIDS?
4:15 pm	Deines, P.; Grey, J.; Bodelier, P.; Eller, G.: THE METHANOTROPHIC DIET: CHIRONOMIDS LIKE IT LIGHT

4:30 pm	Middelboe, A. L.; Hansen, P. J.: IMPORTANCE OF PH AND INORGANIC CARBON FOR PRIMARY PRODUCTION IN COASTAL MACROALGAL HABITATS
4:45 pm	Pirchio, M. L.; Burd, A. B.: A SPATIAL MODEL OF THE GROWTH OF TURTLEGRASS (THALASSIA TESTUDINUM)
5:00 pm	Gribsholt, B.; Rossi, F.: DOES SPECIES COMPOSITION DETERMINE BENTHIC ECOSYSTEM FUNCTIONING?*
5:15 pm	Pascal, P. Y.; Niquil, N.; Dupuy, C.; Richard, P.; Mallet, C.; Debenay, J. P.: BACTERIVORY OF FORAMINIFERA (AMMONIA TEPIDA) IN INTERTIDAL MUDFLAT ACCORDING TO VARIOUS BIOTIC AND ABIOTIC FACTORS.

TS-D02: THE CHALLENGE OF CYANOBACTERIAL BLOOMS

Chair(s):	Alessandra Giani, agiani@icb.ufmg.br Frances Pick, frpick@science.uottawa.ca David Bird, bird.david@uqam.ca
Location:	Oak Bay
2:00 pm	Neilan, B. A.: THE MOLECULAR EVOLUTION AND ECOLOGY OF CYANOBACTERIAL TOXICITY-
2:30 pm	Kurmayer, R.; Christiansen, G.; Schober, E.; Fastner, J.; Hemscheidt, T.: GENETIC DIVERSITY IN THE PRODUCTION OF SMALL BIOACTIVE PEPTIDES IN CYANOBACTERIA*
2:45 pm	Wilhelm, S. W.; Boyer, G. L.; Rinta-Kanto, J. M.; Ouellette, A. J.; Li, R.; Bourbonniere, R. A.: AN OVERVIEW OF CYANOBACTERIAL BLOOMS IN LAKE ERIE, 2000 - 2005.*
3:00 pm	Kardinaal, W. E.; Visser, P. M.; Janse, I.; Zwart, G.: SUCCESSION OF TOXIC AND NON-TOXIC MICROCYSTIS GENOTYPES IN DUTCH LAKES REVEALED BY MOLECULAR TECHNIQUES
3:15 pm	Tonk, L.; Visser, P. M.; Welker, M.; Huisman, J.: THE CYANOTOXIN PRODUCTION OF MICROCYSTIS AND ANABAENA SHOW A SIMILAR RESPONSE TO ENVIRONMENTAL FACTORS
3:30 pm	Watson, S. B.; Charlton, M.; Howell, T.; Ridal, J.: CYANOBACTERIA TASTE AND ODOUR - WITH OR WITHOUT BLOOMS?*
4:00 pm	Giani, A.; Figueredo, C. C.; Duarte, L. P.; Figueiredo, R. C.; Bird, D. F.; Silva, G. D.: EVIDENCE OF ALLELOPATHIC GROWTH INHIBITION BY CYLINDROSPERMOPSIS RACIBORSKII ON PLANKTONIC ALGAE
4:15 pm	Burford, M. A.: CAN INTER-RESERVOIR COMPARISONS PROVIDE INSIGHTS INTO FACTORS PROMOTING CYANOBACTERIAL BLOOMS?
4:30 pm	Tillmanns, A. R.; Pick, F. R.; Aranda-Rodriguez, R.: SEASONAL CHANGES IN MICROCYSTINS IN A SHALLOW, MESOTROPHIC LAKE: CAN PAST CONDITIONS PREDICT TOXICITY?
4:45 pm	Davies, J. M.; Nowlin, W.; Matthews, B.; Mazumder, A.: TEMPORAL DISCONTINUITY OF NUTRIENT DEFICIENCY AND LIMITATION, THE ROLE OF DEFICIENCY IN CYANOBACTERIAL BLOOM FORMATION
5:00 pm	Simis, S. G.; Tijdsen, M.; Hoogveld, H. L.; Peters, S. W.; Gons, H. J.: A BLUE-GREEN CATASTROPHE: REMOTE SENSING OF CYANOBACTERIAL BLOOM TERMINATION
5:15 pm	Bird, D. F.; Giani, A.: EXCESS DOMINANCE BY BLOOM-FORMING CYANOBACTERIA: A COMMUNITY-LEVEL ANALYSIS

TS-D03: CYANOBACTERIAL BLOOMS AND CYANOTOXINS: SCALING UP FROM INDIVIDUAL TO ECOSYSTEM LEVEL EFFECTS

Chair(s):	Geoffry A. Codd, g.a.codd@dundee.ac.uk Karl Havens, khavens@ifas.ufl.edu Bas W. Ibelings, b.ibelings@nioo.knaw.nl
Location:	Oak Bay
10:45 am	Rohrlack, T.; Utkilen, H.; Blikstad-Halstvedt, C.; Edvardsen, B.: USE OF OLIGOPEPTIDES FOR STUDYING THE STRAIN COMPOSITION OF FIELD POPULATIONS OF TOXIC CYANOBACTERIA - LAKE STEINSFJORDEN AS EXAMPLE*
11:15 am	Wiegand, C.; Behrend, A.; Jarosch, A.; Krause, E.: PHYSIOLOGICAL STRESS RESPONSE OF DAPHNIA MAGNA TO CYANOBACTERIAL TOXINS
11:30 am	Wilde, S. B.; Williams, S. K.; Alexander, J. L.; Murphy, T.; Hope, C. P.; Wiley, F.; Van Dolah, F. M.; Smith, R.; Bowerman, W. W.: MORTALITY OF BALD EAGLES AND AMERICAN COOTS IN SOUTHEASTERN RESERVOIRS LINKED TO NOVEL EPIPHYTIC CYANOBACTERIAL COLONIES ON INVASIVE AQUATIC PLANTS
11:45 am	Ghadouani, A.: CYANOBACTERIAL EFFECTS ON AQUATIC SYSTEMS: THE NEED FOR A MULTISCALE APPROACH RANGING FROM THE ORGANISM TO THE ECOSYSTEM
12:00 pm	Vanderloeg, H. A.; Dionisio-Pires, M.; Wilson, A. E.; Sarnelle, O.; Liebig, J. R.; Robinson, S.; Morehead, N. R.: DREISSENID MUSSELS AND TOXIC MICROCYSTIS BLOOMS: THEORY AND PROGRESS
12:15 pm	Wilson, A. E.; Hay, M. E.: MICROCYSTIN-LR IS AND IS NOT TOXIC TO DAPHNIA: A DIRECT TEST OF THE TOXIN EFFECT

(*) represents Tutorial presentations

TS-D07: ENVIRONMENTAL REACTIVITY OF DISSOLVED ORGANIC MATTER

Chair(s): Diane McKnight, diane.mcknight@colorado.edu
 Yu-Ping Chin, yo@geology.ohio-state.edu
 Penney L. Miller, millerl@rose-hulman.edu

Location: Lecture Theatre

- 10:45 am Hatcher, P.G.; Hockaday, W. C.; Caccamise, S. A.; Ruhl, I.: RECOGNIZING THE MOLECULAR COMPONENTS AND REACTIVITY OF DOM BY THE COMBINED USE OF HIGH-RESOLUTION 2D NMR AND ULTRAHIGH-RESOLUTION MASS SPECTROMETRY*
- 11:00 am Kaplan, L.A.; Newbold, J. D.; Wiegner, T. N.; Ostrom, P. H.; Gandhi, H.; Aufdenkampe, A. K.: BIOLOGICAL LABILITY PROFILING OF DISSOLVED ORGANIC MATTER WITH BIOREACTORS – SCALING UP LABORATORY RESULTS TO THE ENVIRONMENT
- II:15 am Slaveykova, V.I.; Lamelas, C.: DISSOLVED ORGANIC MATTER - ALGAE INTERACTIONS: CONSEQUENCES FOR METAL BIOAVAILABILITY
- II:30 am Fimmen, R.L.; Cory, R. M.; Chin, Y.; McKnight, D.: CONTRASTING REDOX AND CHEMICAL PROPERTIES OF MICROBIALLY AND TERRESTRIALLY DERIVED FULVIC ACIDS
- II:45 am Maie, N.; Pisani, O.; Jaffé, R.: FATE OF MANGROVE TANNINS IN AQUATIC ENVIRONMENTS
- 12:00 pm McNally, A.M.; Latch, D. E.; McNeill, K.; Cotner, J. B.: SINGLET OXYGEN PRODUCTION BY DISSOLVED ORGANIC MATTER: LABORATORY AND FIELD STUDIES*
- 2:00 pm Martin, C.; Frenette, J. J.: SPATIAL GRADIENTS IN DOM CHARACTERISTICS ALONG THE ST. LAWRENCE RIVER USING A PARAFAC APPROACH
- 2:15 pm Caplanne, S.; Laurion, I.: INFLUENCE OF DOM ON THE HEAT BUDGET OF SURFACE LAKE WATERS: CONSEQUENCES FOR EPILIMNETIC STRATIFICATION
- 2:30 pm Amado, A.M.; Cotner, J. B.; Esteves, F. A.: PHOTOCHEMICAL ORGANIC CARBON DEGRADATION FACILITATES THE CO₂ PUMP IN NORTH-TEMPERATE LAKES
- 2:45 pm Breton, J.; Laurion, I.; Vincent, W. F.: DEGRADATION OF DISSOLVED ORGANIC MATTER BY MICROBIAL AND PHOTOCHEMICAL PROCESSES IN PERMAFROST LAKES AND PONDS
- 3:00 pm Cawley, K.; McKnight, D. M.; Fimmen, R.; Cory, R.; Miller, P.; Chin, Y. P.; Foreman, C.: CHEMICAL PROPERTIES OF A MICROBIALLY-DERIVED FULVIC ACID FROM A HYPEREUTROPHIC COASTAL POND IN ANTARCTICA
- 3:15 pm Hopkinson, C.S.; Weston, N.; Vallino, J. V.; Garrett, R. H.: ESTUARINE ECOSYSTEM METABOLISM AS DRIVEN BY GRADIENTS IN DOM SOURCES AND BIOAVAILABILITY, AND RESIDENCE TIME
- 4:00 pm Lapierre, J.F.; Frenette, J. J.; Daoust, B.: HIGH HYDROLOGICAL CONNECTIVITY IN FLUVIAL LAKE SAINT-PIERRE AS REVEALED BY FLUORESCENCE SIGNATURES OF DISSOLVED ORGANIC MATTER
- 4:15 pm Lenborg, C.; Søndergaard, M.: SEASONAL DYNAMICS IN THE AVAILABILITY OF DISSOLVED ORGANIC CARBON (DOC) AND DISSOLVED ORGANIC NITROGEN (DON), AT TWO COASTAL AREAS IN DENMARK
- 4:30 pm Trudel, G.; Frenette, J. J.: CHANGES IN SOURCES AND BIOAVAILABILITY OF DISSOLVED ORGANIC MATTER (DOM) IN A FLUVIAL LAKE
- 4:45 pm Wiegner, T.N.; Tubal, R. L.; Mackenzie, R. A.; Manuel, M. E.: DISSOLVED ORGANIC MATTER CONCENTRATIONS AND BIOAVAILABILITY DURING BASE AND STORM FLOW CONDITIONS IN A HAWAIIAN RIVER
- 5:00 pm Tubal, R.L.; Wiegner, T. N.: COMPARISON OF DISSOLVED ORGANIC CARBON BIOAVAILABILITY FROM NATIVE AND INVASIVE RIPARIAN VEGETATION IN A HAWAIIAN RIVER
- 5:15 pm Guérard, J.J.; Fimmen, R.; Miller, P. L.; Chin, Y. P.; Cory, R. M.; McKnight, D.; Foreman, C.: CHANGES IN CHEMICAL PROPERTIES AND BIOAVAILABILITY DURING PHOTOLYSIS OF PONY LAKE DISSOLVED ORGANIC MATTER

TS-E11: EMERGING CHALLENGES IN AQUATIC SCIENCES

Chair(s): Rick Nordin, nordin@uvic.ca
 Sasha Tozzi, stozzi@vims.edu
 Nicole Poultou, npoultou@bigelow.org
 John-Mark Davies, john-mark.davies@swa.ca

Location: Sidney

- 10:45 am Griffith, J.F.: DIFFERENTIAL SELECTION OF ENTEROCOCCUS SPECIES BY MEMBRANE FILTRATION AND DEFINED SUBSTRATE METHODS
- 11:00 am Lowe, C.L.; Verenich, S. S.; Epps, D.; Mazumder, A.: A NEW GC-MS/MS METHOD FOR THE ANALYSIS OF ACIDIC PHARMACEUTICALS AND CAFFEINE TO BE USED AS MARKERS OF ANTHROPOGENIC IMPACT
- II:15 am Viers, J.H.: A CASE STUDY OF OBJECTIVE SALMONID HABITAT CLASSIFICATION
- II:30 am Prepas, E.E.; Smith, D. W.; Putz, G.; Russell, J. S.; Burke, J. M.: LINKING SCIENCE AND MANAGEMENT IN THE CANADIAN BOREAL FOREST USING NOVEL MAPPING AND MODELLING TOOLS: THE FORWARD PROJECT

11:45 am Thomas, C.R.; Hart, B. T.; Nicholson, A.; Grace, M.; Brodie, J.: NEW TOOLS FOR OLD PROBLEMS: BAYESIAN NETWORKS ASSIST SEAGRASS MANAGEMENT IN THE GREAT BARRIER REEF, AUSTRALIA

12:00 pm Carter, A.; Purkis, S. J.; Goodman, J.; Tuell, G.: A SPECTRAL MODELING STRATEGY FOR THE ANALYSIS OF MIXED PIXELS, BROWARD COUNTY (FLORIDA)

2:00 pm Sieracki, M.E.: AQUATIC CYTOMETRY: THE CURRENT STATE AND FUTURE OF IMAGING AND FLOW CYTOMETRY FOR MICROPLANKTON ANALYSIS-

Gruden, C. L.; Mileyeva-Biebesheimer, O.; Bonner, J.S.; Sieracki, C.; Fuller, C. B.; Page, C. A.: DESIGN CRITERIA FOR IN-SITU DETECTION OF MICROORGANISMS USING FLOW CYTOMETRY IN COASTAL MARGINS *

Harrison, C. B.; Petersen, T. W.; Swalwell, J. E.; van den Engh, G.: IMPROVED FORWARD SCATTER DETECTOR FOR FLOW CYTOMETRIC ENUMERATION OF PICOPLANKTON

Farrell, J.L.; Wimbush, J.; Guilbeault, V.; Nierwicki-Bauer, S. A.: IDENTIFICATION AND ENUMERATION OF ZEBRA MUSSEL LARVAE: COMPARISON OF TRADITIONAL AND NOVEL METHODS.

Poulton, N.J.; Sieracki, M. E.: USING FLOW CYTOMETRY AND IMAGING AS A PLANKTON TEACHING TOOL

Lavrentyev, P.J.; Moats, K. M.; Jochem, F. J.: UNDERWAY MAPPING OF PHYTOPLANKTON DISTRIBUTION AND SIZE-STRUCTURE USING FLOW-CYTOMETRY

Tozzi, R.; Peloquin, J. A.; Dreyer, J. C.: DEVELOPMENT OF A NEW FLOWCAM FLOW CYTOMETER PROTOCOL FOR PROCESSING SAMPLES WITH A WIDE RANGE OF DIFFERENT SIZED PHYTOPLANKTON FROM THE ROSS SEA ANTARCTICA

Casey, J. R.; Mandecki, J.; Walker, D. E.; Lomas, M.W.: NITROGEN AND CARBON UPTAKE IN NATURAL POPULATIONS OF PROCHLOROCOCCUS AND SYNECHOCOCCUS: EMPLOYING STABLE ISOTOPE TRACERS AND FLOW CYTOMETRIC SORTING.

Errera, R.M.; Roelke, D. L.; Kiesling, R. L.; Brooks, B. W.; Grover, J. P.; Urena-Boeck, F.; Pinckney, J. L.: THE ROLE OF INORGANIC NUTRIENTS AND BARLEY STRAW EXTRACT IN THE INVASION AND INHIBITION OF PRYMNESIUM PARVUM

Brooks, B.W.; Urena-Boeck, F.; Roelke, D. L.; Errera, R.; Kiesling, R. L.; Grover, J. P.: PRYMNESIUM PARVUM IMPACTS ON FRESHWATER ZOOPLANKTON: LABORATORY AND FIELD STUDIES

5:15 pm Rincon, B.; Hassler, C.S.; Simon, D. F.; Wilkinson, K. J.: PREDICTION OF CADMIUM AND LEAD BIOAVAILABILITY IN A GREEN ALGA - RELATIONSHIP BETWEEN CHEMICAL SPECIATION, BIOACCUMULATION AND SUBLETHAL BIOLOGICAL EFFECTS

RS05: ECOSYSTEMS (Morning Posters)

Chair(s): Laurel Saito, lsaito@cabnr.unr.edu
 Jan Newton, newton@apl.washington.edu

Location: Victoria Conference Centre

59C. Djakovac, T.; Degobbi, D.; Precali, R.; Supic, N.: OCCURRENCE OF SEASONAL HYPOXIA AND ANOXIA IN THE NORTHERN ADRIATIC SEA UNDER DIFFERENT ENVIRONMENTAL CONDITIONS

60C. Gorman, M.W.; Zimmer, K. D.; Herwig, B. R.; Hanson, M. A.; Wright, R. W.; Younk, J. A.: THE INFLUENCE OF FISH, AGRICULTURE, AND BIOME ON ALgal ABUNDANCE IN SHALLOW LAKES

61C. Haberyan, K.A.: ONTOGENY OF MOZINGO LAKE: IMPACTS OF REACHING OVERFLOW

62C. Haustein, M.D.; Zimmer, K. D.; Herwig, B. R.; Hanson, M. A.; Wright, R. W.; Younk, J. A.: INFLUENCE OF AGRICULTURE AND FISH BIOMASS ON THE NITROGEN:PHOSPHORUS RELATIONSHIP IN SHALLOW LAKES

63C. Holtermann, K.E.; Horner-Devine, M. C.; Silver, J.; Williams, C.; Rocap, G.; Newton, J.; Von Dassow, P.; Marohl, R. L.; Ostlund Lin, E.; Durkin, C.; Russo, B.; Parker, M. S.; Johnson, B.; Armbrust, E. V.: MICROBIAL COMMUNITY SHIFTS IN RESPONSE TO NUTRIENT AMENDMENTS IN A HYPOXIC FIORD (HOOD CANAL, WA)

64C. Konst, M.L.; Zimmer, K. D.; Herwig, B. R.; Hanson, M. A.; Younk, J. A.; Butler, M. G.: EFFECTS OF MACROPHYTEs, NUTRIENTS, AND FISH ON PERIPHYTON ABUNDANCE IN SHALLOW LAKES

65C. Leonov, D.A.; Kawase, M.: SENSITIVITY OF FIORD EXCHANGE CIRCULATION TO RIVER DISCHARGE AND OCEANIC CONDITIONS: IDEALIZED NUMERICAL EXPERIMENT AND APPLICATION TO PUGET SOUND

66C. Lessmann, D.; Joehnk, K. D.; Boehrer, B.; Dietz, S.; Ruecker, J.; Nixdorf, B.: MEROMICTIC MINING LAKES: IMPORTANCE OF HYDROGEOCHEMICAL AND BIOLOGICAL PROCESSES IN LAKE STRATIFICATION

67C. Parker, M.S.; Newton, J.; Holtermann, K. E.; von Dassow, P.; Marohl, R. L.; Hubbard, K.; Berthiaume, C.; Williams, C. M.; Rocap, G. L.; Gilmore, B. M.; Iverson, V. S.; Wrabel, M. L.; Armbrust, E. V.: PHYTOPLANKTON COMMUNITY RESPONSES TO NUTRIENT AMENDMENTS IN HOOD CANAL, WA

Wehr, J. D.; Truhn, K.M.; Torres-Ruiz, M.; Perrone, A. A.: ALgal BIODIVERSITY - ECOSYSTEM FUNCTION RELATIONSHIPS IN STREAMS OF SOUTHERN NEW YORK

(*) represents Invited presentations

THURSDAY

**TS-A03:
INTEGRATED APPROACHES TO ASSESSING THE EFFECTS
OF GLOBAL CHANGE AND OTHER DRIVERS OF CHANGE ON
FRESHWATER ECOSYSTEMS** (Morning Posters)

- Chair(s): Peter Dillon, pdillon@trentu.ca
Martin Kernal, mkernal@geog.ucl.ac.uk
- Location: Victoria Conference Centre
- 1C. Horvath, T. G.; Healy, A. J.; Hayes, B. S.: AUTECOLOGY OF CANTHOCAMPTUS STAPHYLINOIDES (HARPACTICOIDA) IN NEARSHORE SEDIMENTS OF OTSEGO LAKE, NEW YORK
- 2C. Palmer, M. E.; Yan, N. D.; Girard, R.: WIDESPREAD CHANGES IN PRE-CAMBRIAN SHIELD LAKES: NEW REFERENCE SETS AND AN OPPORTUNITY TO DETAIL PLANKTONIC RESPONSES TO MULTIPLE ENVIRONMENTAL STRESSORS

**TS-B01:
ZOOPLANKTON BEHAVIOR AND SENSORY PERCEPTION** (Morning Posters)

- Chair(s): Rebecca J. Waggett, waggett@gso.uri.edu
Nancy M. Butler, butler@kutztown.edu
- Location: Victoria Conference Centre
- 4C. Chrzanowski, T. H.; Shannon, S. P.; Grover, J. P.: PREDATION UPON BACTERIA BY MICROZOOPLANKTON IS DETERMINED BY FOOD QUALITY
- 5C. Lasley, R. S.; Yen, J.: CHEMICAL SIGNALLING IN COPEPOD REPRODUCTION: EXPLORING CHEMICAL NATURE AND SPECIES-SPECIFICITY OF PHEROMONES
- 6C. Olson, M. B.; Lessard, E. J.: COPEPOD FEEDING SELECTIVITY ON NATURAL PREY COMMUNITIES CONTAINING THE TOXIGENIC DIATOM, PSEUDONITZSCHIA spp., IN THE COASTAL PACIFIC NORTHWEST
- 7C. Saage, A.; Vadstein, O.; Sommer, U.: FEEDING BEHAVIOUR OF TWO MARINE CALANOID COPEPODS: CALANUS FINMARCHICUS AND CENTROPAGES HAMATUS

**TS-B02:
THE ROLE OF GENETIC DIVERSITY IN CHANGING ENVIRONMENTS** (Morning Posters)

- Chair(s): Gregor Fussmann, gregor.fussmann@mcgill.ca
Thorsten Reusch, treusch@uni-muenster.de
- Location: Victoria Conference Centre
- 8C. Chen, J. X.; Huang, B. Q.; Bao, L.; Hong, H. S.: BIODIVERSITY OF EUKARYOTIC ULTRAPLANKTON IN SUBTROPICAL WATERS OF CHINA USING MOLECULAR AND DIAGNOSTIC PIGMENT TECHNIQUES
- 9C. McMath, L. M.; Trout, A. L.; Dillon, J. G.: SEASONAL SHIFTS IN BACTERIOPLANKTON COMMUNITY DIVERSITY IN THE SALTON SEA
- 10C. Roy, M. A.; Chanut, J. P.; Sévigny, J. M.; Tremblay, R.: GENETIC CHARACTERISATION OF DIFFERENT AGE-CLASSES OF GIANT SCALLOP, PLACOPECTEN MAGELLANICUS, IN THE GULF OF ST. LAWRENCE

**TS-B05:
DYNAMICS AND INTERCHANGE BETWEEN RIVERS AND MARINE
ENVIRONMENT IN ARID ZONES** (Morning Posters)

- Chair(s): Adnan Al-Azri, alazri@yahoo.com
Faiza Al-Yamani, fyamani@kisr.edu.kw
- Location: Victoria Conference Centre
- 11C. Al Mansouri, H. A.; Al Yamani, F. Y.; Al Rifaei, K. S.: THE SPATIAL VARIABILITY IN NUTRIENT CONCENTRATION IN THE WATERS OF THE NW ARABIAN GULF IN RELEVANCE TO SHATT AL-ARAB RIVER DISCHARGE
- 12C. Ghani, A. A.; Salman, S. D.: ACUTE TOXICITY OF BASRAH REGULAR CRUDE OIL TO TOW SPECIES
- 13C. Lamkin, J. T.; Brinn, R.; Richards, W.; Brown, C.; Jones, D.: PRELIMINARY EVALUATION OF LARVAE FISH ABUNDANCE AND DISTRIBUTION IN THE WATERS OF KUWAIT

**TS-B08:
LINKING THE NUTRIENT PHYSIOLOGY OF MARINE
PHYTOPLANKTON TO REGIONAL AND GLOBAL BIOGEOCHEMISTRY** (Morning Posters)

- Chair(s): Diana Varela, dvarela@uvic.ca
Rebecca Shipe, rshipe@ucla.edu
- Location: Victoria Conference Centre
- 14C. Chance, R. J.; Malin, G.; Jickells, T.; Baker, A. R.; Weston, K.; Mann, P.: HOW DO MARINE ALGAE CONTROL IODINE SPECIATION IN THE ANTARCTIC?

- 15C. Corcoran, A. A.; Shipe, R. F.: EFFECTS OF STORMWATER ON PHYTOPLANKTON DYNAMICS IN SANTA MONICA BAY, CALIFORNIA
- 16C. Eldridge, P. M.; Roelke, D. L.: SIMULATIONS OF THE DEVELOPMENT OF HYPOXIA ON THE LOUISIANA SHELF: A COMPARISON BETWEEN A MIXED LAYER DOMINATED BY EDIBLE VERSUS INEDIBLE PHYTOPLANKTON
- 17C. Kraus, R.; Djakovac, T.: SKELTONEMA COSTATUM - EUTROPHICATION INDICATOR? A DIATOM STUDY IN THE NORTHERN ADRIATIC SEA
- 18C. Rost, B.; Richter, K. U.; Riebesell, U.; Hansen, P. J.: INORGANIC CARBON ACQUISITION IN THREE RED-TIDE DINOFLAGELLATES
- 19C. Villareal, T. A.; McKay, R. M.; Al-Rshaidat, M. M.; Boyanapalli, R.; Sherrell, R. M.: VARIATION IN PARTICULATE RATIOS AND PHYSIOLOGICAL STATE OF THE GIANT DIATOM ETHMODISCUS ACROSS THE EASTERN NORTH PACIFIC OCEAN

**TS-B15:
CONSEQUENCES OF MULTIPLE TROPHIC LEVELS IN PLANKTON
COMMUNITIES** (Morning Posters)

- Chair(s): Jennifer E. Purcell, purcelj@cc.wwu.edu
- Location: Victoria Conference Centre
- 20C. Wallace, M. A.; Kiesling, R. L.: NUTRIENT-DEPENDENT ALGAL RESPONSES AND LOSS ESTIMATES BY SEASONAL ZOOPLANKTON GRAZING IN A SUBTROPICAL RESERVOIR, USA
- 21C. Woelfl, S.; Garcia, P.: DISTRIBUTION OF LARGE MIXOTROPHIC CILIATES (STENTOR) IN DEEP NORTH-PATAGONIAN LAKES (CHILE)
- 22C. Yu, S. F.; Lo, W. T.; Su, W. C.; Liu, D. C.: SEASONAL AND SPATIAL DISTRIBUTION OF SIPHONOPHORES IN RELATION TO HYDROGRAPHY IN THE WATER SURROUNDING TAIWAN

**TS-B17:
ECOLOGY, PHYSIOLOGY AND MOLECULAR BIOLOGY
OF CYANOBACTERIA ALONG THE FRESHWATER-MARINE
CONTINUUM** (Morning Posters)

- Chair(s): Hans Paerl, hans_pael@unc.edu
Juli Dyble, juli.dyble@noaa.gov
- Location: Victoria Conference Centre
- 23C. Mann, E. L.; Gallant, J. M.: CYANOBACTERIA POPULATION DYNAMICS FROM THE SAVANNAH RIVER TO THE SARGASSO SEA

**TS-B22:
CRABS, BENTHOS AND BENTHIC PROCESSES** (Morning Posters)

- Chair(s): Erin Lindquist, erin@ots.ac.cr
Ken Krauss, kkrauss@usgs.gov
- Location: Victoria Conference Centre
- 24C. Bridoux, M.; Sobiechowska, M.; Alben, K. T.: USE OF ALGAL PIGMENTS AS BIOMARKERS TO ASSESS THE DIET AND METABOLISM OF FRESHWATER AND MARINE MUSSELS
- 25C. Marin, S. L.; Leal, C.; Irarate, J. L.: FISH-FARMING EFFECTS ON WATER COLUMN AND SEDIMENTS IN COASTAL WATERS OF SOUTHERN CHILE
- 26C. Soliman, Y. S.; Wade, T. L.; Rowe, G. T.: ESTIMATES OF SECONDARY PRODUCTION AND BURDENS OF PAHS FOR A POPULATION OF AMPELISCID AMPHIPODS CARPETING THE HEAD OF THE MISSISSIPPI CANYON (N. GULF OF MEXICO)
- 27C. Stoeckle, M. A.; Tunnicliffe, V.: PHYLOGENETIC RELATIONSHIPS AMONG DEEP-SEA WOOD-BORING CLAMS FROM THE NE-PACIFIC (XYLOPHAGAINEA, BIVALVIA, MOLLUSCA)
- 28C. Torres-Ruiz, M.; Wehr, J. D.; Perrone, A. A.: HOW DO STREAM-DWELLING HYDROPSYCHID CADDISFLIES RESPOND TO CHANGES IN THE ESSENTIAL FATTY ACID CONTENT OF THEIR FOOD?

**TS-C09:
TRACE ELEMENTS AND ISOTOPES IN THE MARINE ENVIRONMENT** (Morning Posters)

- Chair(s): Jay Cullen, jcullen@uvic.ca
Mak Saito, msaito@whoi.edu
- Location: Victoria Conference Centre
- 29C. Bertram, M. A.; Chang, A. S.; Calvert, S. E.; Thomson, R. E.; Dallimore, A.; Feely, R. A.: SINKING DIATOMS AND DETRITUS AS PROXIES FOR PROCESSES IN EFFINGHAM INLET
- 30C. Bertrand, E. M.; Noble, A. E.; Repeta, D. J.; Webb, E. A.; Saito, M. A.: CONTRASTING VITAMIN B12 AND COBALT UPTAKE IN PHYTOPLANKTON POPULATIONS IN THE COSTA RICA UPWELLING DOME
- 31C. Carrie, J. D.; Leitch, D. R.; Wang, E.; Stern, G. A.; Macdonald, R.: THE MACKENZIE RIVER BASIN AS A SOURCE OF MERCURY TO THE BEAUFORT SEA

(*) represents Tutorial presentations

- 32C. Cox, A. D.; Noble, A. E.; Saito, M. A.: Cadmium Stable Isotope Uptake by Phytoplankton, Speciation, and Toxicity Experiments in the Costa Rica Upwelling Dome
- 33C. Crispo, S. M.; Orians, K. J.: THE STUDY OF DISSOLVED IRON DYNAMICS IN MESOSCALE EDDIES USING TRACE METAL PROFILES
- 34C. Gelado, M.; Rodríguez, M.; Hernández, J.; Collado, C.; Dorta, P.; Brito de Azevedo, E.; López, P.: METAL DEPOSITION FLUXES TO THE CANARY BASIN FROM AFRICAN DUST.
- 35C. Goepfert, T. I.; Saito, M. A.: COBALT SUBSTITUTION OF THE ZINC REQUIREMENT IN PHAEOCYSTIS ANTARCTICA
- 36C. Leitch, D. L.; Stern, G. A.; Wang, F.; Couture, N.; Pollard, W. H.: PERMAFROST MELTING AS A POTENTIAL SOURCE OF MERCURY TO THE ARCTIC OCEAN
- 37C. Noble, A. E.; Maita, K.; Benitez-Nelson, C.; Saito, M. A.: COBALT, MANGANESE, CADMIUM, AND IRON AMONG THE HAWAIIAN ISLANDS: THE INFLUENCE OF CYCLONIC EDDIES AND HYDROTHERMAL SIGNALS
- 38C. Ramlal, P. S.; Kling, H. J.; Buat, P.; Hesslein, R. H.: FOOD WEB STRUCTURE OF LOWER TROPHIC LEVELS IN THE NEAR-SHORE AREA OF THE BEAUFORT SEA
- 39C. Rohde, M. M.; Granger, J.; Sigman, D. M.; Tortell, P. D.: THE EFFECTS OF LIGHT ON NITRATE N-ISOTOPIC FRACTIONATION BY MARINE DIATOMS
- 40C. Sanders, R. D.; Coale, K. H.; Andrews, A. H.; Foe, C.: HISTORIC ATMOSPHERIC HG DEPOSITION IN CALIFORNIA: AN ASSESSMENT OF PRE-ANTHROPOGENIC FLUX
- 41C. Sukola, K.; Li, L.; Wallace, G. T.; Del Castillo, E.; Robinson, W.: USE OF LA-ICP-MS TO DETECT AND ANALYZE METAL-BINDING PROTEINS FROM THE MARINE MUSSELS, *MYTILUS EDULIS*
- 42C. Taillez, A.; Petit, J.; Chou, L.; Verheyden, S.; De Jong, J.; Mattielli, N.: SPATIAL VARIATIONS IN LEAD ISOTOPES IN SUSPENDED PARTICULATE MATTER AND SEDIMENTS OF THE SCHELDT ESTUARY (BELGIUM/THE NETHERLANDS) AND THE BELGIAN COASTAL ZONE
- 43C. Takesue, R. K.; Grossman, E. E.; Wyllie-Echeverria, S.; Elliott, J. K.: HIGH CADMIUM MAY CONTRIBUTE TO EELGRASS (*ZOSTERA MARINA*) HABITAT LOSS IN WESTCOTT BAY, SAN JUAN ISLAND

TS-D02: THE CHALLENGE OF CYANOBACTERIAL BLOOMS (Morning Posters)

Chair(s): Alessandra Giani, agiani@icb.ufmg.br
 Frances Pick, frpick@science.uottawa.ca
 David Bird, bird.david@uqam.ca

Location: Victoria Conference Centre

- 44C. Boyanapalli, R. K.; Bullerjahn, G. S.; Croot, P. L.; Pohl, C.; McKay, R. M.: DEVELOPMENT OF A LUMINESCENT WHOLE-CELL SYNECHOCOCCUS SP. STRAIN PCC 7002 CYANOBACTERIAL BIOREPORTER FOR MEASURING FE AVAILABILITY IN MARINE ENVIRONMENTS
- 45C. Bradt, S. R.; Wurtsbaugh, W. A.; Naftz, D. L.; Marcarelli, A.; Moore, T.: CAN WE USE REMOTE SENSING TO ASSESS THE EXTENT OF CYANOBACTERIAL BLOOMS IN THE GREAT SALT LAKE, UTAH, USA?
- 46C. Hannach, G. ...; Bouchard, D.; Frodge, J. ...: MONITORING TOXIC CYANOBACTERIA IN THREE URBAN LAKES IN WESTERN WASHINGTON, USA
- 47C. McCarthy, M. L.; James, III, R. T.; Chen, Y. W.; East, T. E.; Gardner, W. S.: NUTRIENT RATIOS AND PHYTOPLANKTON COMMUNITY STRUCTURE IN LARGE, SHALLOW, SUBTROPICAL LAKES OKEECHOBEE (FLORIDA, USA) AND TAIHU (CHINA)

TS-D03: CYANOBACTERIAL BLOOMS AND CYANOTOXINS: SCALING UP FROM INDIVIDUAL TO ECOSYSTEM LEVEL EFFECTS (Morning Posters)

Chair(s): Geoffrey A. Codd, g.a.codd@dundee.ac.uk
 Karl Havens, khavens@ifas.ufl.edu
 Bas W. Ibelings, b.ibelings@nioo.knaw.nl

Location: Victoria Conference Centre

- 48C. Lehman, P. W.; Boyer, G.; Waller, S.: SEASONAL VARIATION OF MICROCYSTIS AERUGINOSA BIOMASS AND TOXICITY IN THE UPPER SAN FRANCISCO ESTUARY
- 49C. Smith, J. L.; Boyer, G. L.; Schulz, K. L.: IMPACTS OF MICROCYSTINS, A CYANOBACTERIAL TOXIN, ON THE RECRUITMENT AND SURVIVAL OF ΔHEXAGENIA</math>, THE BURROWING MAYFLY

TS-D07: ENVIRONMENTAL REACTIVITY OF DISSOLVED ORGANIC MATTER (Morning Posters)

Chair(s): Diane McKnight, diane.mcknight@colorado.edu
 Yu-Ping Chin, yo@geology.ohio-state.edu
 Penney L. Miller, millerl@rose-hulman.edu

Location: Victoria Conference Centre

- 50C. Kendig, C. A.; Porter, J. A.; Peters, S. C.; Hargreaves, B. R.; Morris, D. P.: LABORATORY MANIPULATION OF LAKE WATER CHEMISTRY TO EXAMINE CHANGES IN THE SPECTRAL PROPERTIES OF CHROMOPHORIC DISSOLVED ORGANIC MATTER
- 51C. Maruo, M.; Ohta, K.; Obata, H.: VARIATION IN COPPER COMPLEXING CAPACITY IN LAKE BIWA (JAPAN) AND INFLOWING RIVERS
- 52C. Vallières, C.; Osburn, C.; Retamal, L.; Vincent, W. F.: MICROBIAL COMMUNITY GRADIENTS IN THE MACKENZIE RIVER AND COASTAL ARCTIC OCEAN

TS-E11: EMERGING CHALLENGES IN AQUATIC SCIENCES (Morning Posters)

Chair(s): Rick Nordin, nordin@uvic.ca
 Sasha Tozzi, stozzi@vims.edu
 Nicole Poulton, npoulton@bigelow.org
 John-Mark Davies, john-mark.davies@swa.ca

Location: Victoria Conference Centre

- 53C. Dean, S. C.; DiBacco, C.; McKinley, R. S.: TRACKING SEA LICE, *LEPEOPHTHEIRUS SALMONIS*, BETWEEN HOSTS USING NITROGEN AND CARBON STABLE ISOTOPE SIGNATURES
- 54C. Edgington, D. R.: DETECTING, TRACKING AND CLASSIFYING ANIMALS IN UNDERWATER VIDEO
- 55C. Kasahara, T.; Hill, A. R.: USE OF GROUNDWATER MODELING TO IDENTIFY STREAM RESTORATION DESIGNS THAT MAXIMIZE HYDROHEIC EXCHANGE
- 56C. Kovach, C. W.; Kirk, R.; Brown, L. N.; Kerr, R. C.; Borstad, G. A.: REMOTE ASSESSMENT OF SURFACE WATER QUALITY IN FLORIDA USING MULTISPECTRAL INDICES
- 57C. Veldhuis, M. J.; Dubelaar, G. B.; Gerritsen, P. L.: SILICO-IMAGING; A NEW APPLICATION IN FLOW CYTOMETRY
- 58C. Waetjen, D. P.; Viers, J. H.; Hollander, A. D.; Quinn, J. F.; Goldman, C. R.: BUILDING A GLOBAL DATA REPOSITORY FOR FRESHWATER LAKES: OPEN SOURCE STANDARDS AND SEMANTIC METHODS ENRICH SCIENTIFIC RESULTS

RS02: PHYTOPLANKTON (Afternoon Posters)

Chair(s): Margaret Squires, msquires@scimail.uwaterloo.ca

Location: Victoria Conference Centre

- 2D. Gerds, G.; Sapp, M.; Michel, M.; Wichels, A.: OPPORTUNISTS OR SPECIALISTS? BACTERIA IN THE PHYCOSPHERE OF MARINE DIATOMS
- 3D. Grob, M. C.; Ulloa, O.; Alarcón, G.; Marie, D.; Claustre, H.: PICOPLANKTON BIOMASS IN THE SOUTH PACIFIC SUBTROPICAL GYRE
- 4D. Iriarte, J. L.; Sobarzo, M.; Gonzalez, H.; Sanchez, N.; Mardones, J.; Cuevas, L.: PRIMARY PRODUCTION AND DOWNWARD FLUX OF ORGANIC MATERIAL IN A HIGHLY STRATIFIED FIORD IN SOUTHERN CHILE
- 5D. Jochem, F. J.; Alves-Brinn, M.: POLYKETIDE SYNTHASE GENE EXPRESSION IN THE FLORIDA RED TIDE DINOFLAGELLATE *KARENIA BREVIS*
- 7D. McGinn, P. L.; Morel, F. M.: CARBONIC ANHYDRASES IN MARINE DIATOMS
- 8D. Millard, J. P.; Klausmeier, C.: NUTRIENT, LIGHT, AND CO-LIMITATION OF PHYTOPLANKTON IN THE MIXED LAYER
- 9D. Nagai, T.; Imai, A.; Matsushige, K.; Komatsu, K.; Fukushima, T.: EFFECTS OF DISSOLVED ORGANIC MATTER AND IRON AVAILABILITY ON GROWTH OF CYANOBACTERIA IN A EUTROPHIC LAKE
- 10D. Peltomaa, E. T.; Ojala, A. K.; Autio, M.: UPTAKE OF INORGANIC CARBON BY DIFFERENT SIZE FRACTIONS OF PHYTOPLANKTON IN A POLYHUMIC BOREAL LAKE
- 11D. Pigg, R. J.; Heil, C.; Weisberg, B.; Walsh, J.; Haywood, A.; Kirkpatrick, G. J.; Steidinger, K.; Lembeke, C.; Scholin, C.; Millie, D.: MERHAB 2002: EASTERN GOMX SENTINEL PROGRAM: EARLY DETECTION OF *KARENIA BREVIS* IN THE EASTERN GULF OF MEXICO
- 12D. Skinner, C. L.; Butler, N. M.: EFFECTS OF NUTRIENT ADDITIONS AND LIGHT LIMITATION ON PHYTOPLANKTON COMMUNITY STRUCTURE
- 14D. Sobiechowska, M.; Bridoux, M.; Alben, K. T.: ASSESSMENT OF HPLC METHODS TO TRACE PHYTOPLANKTON PIGMENTS IN THE FOOD WEB OF LAKE ERIE AND LAKE ONTARIO
- 15D. Varona-Cordero, F.; Gutiérrez, M. F.; Torres-Alvarado, R.: STRUCTURE OF PHYTOPLANKTON ASSEMBLAGES IN TWO TROPICAL COASTAL LAGOONS OF MEXICAN PACIFIC

(*) represents Invited presentations

THURSDAY

- 16D. Wichels, A.; Siegel, C.; Sapp, M.; Gerds, G.: CHARACTERISATION OF ACTIVE BACTERIAL POPULATIONS IN THE NORTH SEA

TS-A10: TROPICAL PACIFIC OCEAN (Afternoon Posters)

- Chair(s): Cynthia Venn, cvenn@bloomu.edu
Jaime Farber Lorda, jfarber@cicese.mx
- Location: Victoria Conference Centre
- 54D. Vilchis, L. I.; Ballance, L. T.; Watson, W.: LARVAL FISH DOMINANCE-DIVERSITY MAINTENANCE IN AN OCEANIC COMMUNITY OF THE EASTERN TROPICAL PACIFIC
- 55D. White, A. E.; Letelier, R. M.; Spitz, Y. H.: QUANTIFYING ECOLOGICAL DETERMINANTS OF SUMMER BLOOM FORMATION IN THE NPSG USING REMOTELY SENSED, MOORED AND VESSEL BASED TIME-SERIES

TS-A12: CLIMATE AND PLANKTON INTERACTIONS (Afternoon Posters)

- Chair(s): James Christian, jim.christian@ec.gc.ca
Monika Winder, mwinder@ucdavis.edu
- Location: Victoria Conference Centre
- 38D. Al-Azri, A. R.; Ahmed, S.; Al-Hashmi, K.; Al-Habsi, H.; Al-Khusaibi, S.: SEASONAL AND SPATIAL DISTRIBUTION OF CHLOROPHYLL-A AND NUTRIENT DYNAMICS IN THE COASTAL REGION OF THE GULF OF OMAN
- 39D. Andersen, K. K.; Lassen, M. F.; Richardson, K.: ECOPHYSIOLOGICAL RESPONSE OF COLD AND WARM ADAPTED SKELETONEMA SP. ON SMALL TEMPERATURE INCREASES
- 40D. Flanagan, C. M.; McKnight, D. M.; Roche, A.; Hull, R.; Gardner, E. M.: CLIMATE VARIABILITY AND PHYTOPLANKTON LINKAGES IN AN ALPINE CATCHMENT, COLORADO, USA
- 41D. Heinze, A. W.; Sanders, R. W.: THE SEASONAL DISTRIBUTION OF THE MIXOTROPH DINOBRYON IN A MESOTROPHIC LAKE
- 42D. Iankowski, T.; Livingstone, D. M.; Richard, F.: CLIMATE-INDUCED INCREASE IN CYANOBACTERIAL BIOMASS IN A DEEP SWISS PERIALPINE LAKE
- 43D. Iearanaikoon, S.; Richardson, K.; Moestrup, Ø.: MORPHOLOGICAL AND SIZE CHANGES IN SKELETONEMA SP. INFLUENCED BY TEMPERATURE
- 44D. Kerfoot, W. C.; Budd, J. R.; Green, S. A.; Julius, M. L.; Schwab, D. J.: DOUGHNUT IN THE DESERT: VERTICAL STRUCTURE OF A WINTER PRODUCTION PULSE
- 45D. Kuwae, N. T.; Urabe, J.; Ishida, S.; Oda, H.; Nakanishi, M.: CLIMATE WARMING MAKES DAPHNIA UNREST
- 46D. Lassen, M. F.; Nielsen, K. D.; Richardson, K.; Garde, K.; Schlüter, L.: THE EFFECTS OF SMALL TEMPERATURE INCREASES ON A TEMPERATE WINTER PHYTOPLANKTON COMMUNITY - A MESOCOSM STUDY
- 47D. Lee, S. H.; Whitedge, T. E.: CURRENT CARBON AND NITROGEN PRODUCTION RATES OF PHYTOPLANKTON IN BERING STRAIT AND THE CHUKCHI SEA
- 48D. Oda, H.; Hashimoto, S.; Hayatsu, M.: PRODUCTION OF VOLATILE ORGANIC COMPOUNDS (VOCs) BY MARINE BACTERIA
- 49D. Rivkin, R. B.; Evans, H.; Hale, M.; Keats, K.; Levasseur, M.; Murphy, R.; Merzouk, A.; Scarratt, M.; Michaud, S.; Lizotte, M.: MICROBIAL CONTROL ON BIOGAS CYCLING. A PHYSIOLOGICAL AND COMMUNITY STRUCTURE APPROACH.
- 50D. Story, S. A.; Gradinger, R.: IDENTIFYING PHOTOSYNTHETIC EFFICIENCY IN ARCTIC PHYTOPLANKTON AND SEA ICE ALGAE UNDER ENVIRONMENTAL STRESS USING PAM FLUOROMETRY
- 51D. Timothy, D. A.; Wong, C. S.; Nojiri, Y.; Ianson, D. C.; Whitney, F. A.; Wong, S. K.; Page, J. S.; Law, C.: CO₂ FUGACITY DURING SERIES: OBSERVATIONS AND RESULTS FROM A PATCH-EXPANSION MODEL
- 52D. Torres, J. C.; Reddy, K. R.: HETEROTROPHIC MICROBIAL ACTIVITIES IN SEDIMENTS OF LAKES WITH DIFFERENT TROPHIC CONDITIONS: EFFECT OF ELECTRON DONORS
- 53D. Zhang, Y.; Fu, F.; Feng, Y.; Warner, M.; Hutchins, D. A.: EFFECTS OF RISING CO₂ AND TEMPERATURE ON THE GROWTH AND PHOTOSYNTHESIS OF THE MARINE RAPHIDOPHYCEAEN HETEROSIGMA AKASHIWO

TS-B18: ALTERNATE STATES IN SHALLOW LAKES: THE ROLE OF CLIMATE, WATER LEVEL, FISH AND NITROGEN (Afternoon Posters)

- Chair(s): Suzanne Bayley, sbayley@ualberta.ca
Erik Jeppesen, ej@dmu.dk
- Location: Victoria Conference Centre
- 24D. Couto, A. J.; Costa, R. S.; Rocha, F. S.; Valente, A. C.; Azevedo, J. N.: RECREATIONAL FISHING IN AZORES (PORTUGAL) LAKES: MANAGEMENT IN AN EUTROPHICATION CONTEXT
- 25D. Mazzeo, N.; Meerhoff, M.; Rodriguez-Gallego, L.; Quintans, F.; Kruk, C.; Scasso, F.; Lacerot, G.; Paggi, J.; Scheffer, M.: ALTERNATIVE STATES IN 18 SUBTROPICAL SHALLOW LAKES: ROLE OF BOTTOM-UP AND TOP-DOWN CONTROLS
- 26D. Paidere, Iana, I.; Gruberts Davis, D.; Skute Arturs, A.; Druvietis, I.: SEASONALITY OF ZOOPLANKTON AND PHYTOPLANKTON COMMUNITIES IN THE LARGEST FLOODPLAIN LAKES LATVIA
- 28D. Phillips, G. L.; Sanderson, R.; Kelly, A.: SUCCESS OR FAILURE? RESULTS OF LONG-TERM FISH REMOVAL IN A EUTROPHIC VERY SHALLOW LAKE SYSTEM
- 29D. Song, Y.; Qin, B.; Gao, G.: THE ROLE OF PERiphyte IN THE SHIFT BETWEEN MACROPHYTE AND PHYTOPLANKTON DOMINATED SYSTEMS IN SHALLOW EUTROPHICATED LAKE
- 30D. Waters, M. N.; Piehler, M. F.; Martens, C. S.: NUTRIENTS, WATERFOWL AND A ROADWAY: A PALEOLIMNOLOGICAL INVESTIGATION INTO THE HISTORIC PRIMARY PRODUCTIVITY OF LAKE MATTAMUSKEET, USA

TS-C01: MICROBIAL ECOLOGY ACROSS THE LANDSCAPE (Afternoon Posters)

- Chair(s): Stuart Findlay, findlays@ecostudies.org
George Kling, gwk@umich.edu
- Location: Victoria Conference Centre
- 56D. Crump, B. C.; Adams, H. E.; Hobble, J. E.; Kling, G. W.: MECHANISMS OF SPATIAL VARIABILITY IN BACTERIOPLANKTON COMMUNITY COMPOSITION AMONG LAKES AND STREAMS OF AN ARCTIC TUNDRA WATERSHED
- 57D. Cunha, A.; Santos, L. M.; Coelho, F.; Almeida, M. A.: HETEROTROPHIC ACTIVITY OF BACTERIOEUSTON AND BACTERIOPLANKTON IN AN ESTUARINE SYSTEM (RIA DE AVEIRO, PORTUGAL)
- 58D. DeBruyn, J. M.; Chewning, C. S.; Sayler, G. S.: ABUNDANCE AND DIVERSITY OF DIOXYGENASE GENES AND FAST-GROWING MYCOBACTERIA IN PAH-CONTAMINATED CHATTANOOGA CREEK, TN, USA
- 59D. First, M. R.; Hollibaugh, J. T.: DIEL MONITORING OF SEDIMENT BACTERIA AND PROTISTS IN A SUBTROPICAL TIDAL CREEK, SAPELO ISLAND, GEORGIA
- 60D. Hollibaugh, J. T.; Bano, N.; Smith, A.: DOMINANCE OF MYCOPLASMA IN THE GUTS OF THE LONG-JAWED MUDSUCKER, GILLICHTHYS MIRABILIS
- 61D. Kent, A. D.; Yannarell, A. C.; Rusak, J. A.; Triplett, E. W.; McMahon, K. D.: SYNCHRONY AND TEMPORAL CONCORDANCE IN FRESHWATER MICROBIAL COMMUNITIES IN A SUITE OF NORTH TEMPERATE HUMIC LAKES

TS-C06: MARINE AND CONTINENTAL SEDIMENTARY ORGANIC GEOCHEMICAL PROFILES AS RECORDS OF PAST ENVIRONMENTAL CONDITIONS (Afternoon Posters)

- Chair(s): Mark Yunker, mark-yunker@telus.net
Philip A. Meyers, pameyers@umich.edu
- Location: Victoria Conference Centre
- 32D. Jaffé, R.; Xu, Y. P.; Anderson, W.; Evans, S.: RECONSTRUCTION OF PALEOENVIRONMENTS IN FLORIDA BAY, USA: A BIOMARKER APPROACH
- 33D. Kuwae, M.; Miyasaka, H.; Kuwae, N.; Oda, H.; Yamaguchi, H.; Doura, A.; Ikebara, M.; Omori, K.; Takeoka, H.: RELATIONSHIP BETWEEN CHANGES IN FISH ABUNDANCE AND EUTROPHICATION: EVIDENCE FROM RECORDS OF ORGANIC GEOCHEMICAL PROXY AND FISH SCALES IN THE SETO INLAND SEA

(*) represents Tutorial presentations

**TS-D05:
PARASITISM IN A CHANGING WORLD** (Afternoon Posters)

Chair(s):

Maiko Kagami, m.kagami@nioo.knaw.nl
 Ellen Van Donk, e.vandonk@nioo.knaw.nl
 Bas W. Ibelings, b.ibelings@nioo.knaw.nl

Location: Victoria Conference Centre

- 31D. Warren, K. D.; Xenopoulos, M. A.; Frost, P. C.: THE EFFECT OF FOOD QUALITY AND CANNIBALISM ON THE GROWTH RATE OF *A. AEGYPTI* MOSQUITO LARVAE

**TS-E07:
APPLICATIONS OF REMOTE SENSING DATA IN COASTAL WATERS** (Afternoon Posters)

(Afternoon Posters)

Chair(s):

Varis Ransibrahmanacul, varis.ransi@noaa.gov
 Celso S. Barrientos, celso.s.barrientos@noaa.gov
 Douglas E. Pirhalla, doug.pirhalla@noaa.gov

Location: Victoria Conference Centre

- 62D. Bejarano, I.; Appeldoorn, R. H.; Armstrong, R. A.: RELATIONSHIP BETWEEN REEF FISH COMMUNITIES, WATER AND HABITAT QUALITY ON CORAL REEFS
 63D. Komick, N. M.; Costa, M.: EVALUATION OF MODIS SATELLITE BASED CHLOROPHYLL A ALGORITHMS IN THE STRAIT OF GEORGIA
 64D. Shapiro, A. C.; Rohmann, S. O.; Ransibrahmanacul, V.: SUMMIT-TO-SEA: USING GIS AND REMOTE SENSING TO LINK WATERSHEDS AND COASTAL WATERS

**TS-E08:
CORAL REEF ECOSYSTEM RESEARCH AND MANAGEMENT OBJECTIVES** (Afternoon Posters)

Chair(s):

Michael Dowgiallo, michael.dowgiallo@noaa.gov
 Felix A. Martinez, felix.martinez@noaa.gov

Location: Victoria Conference Centre

- 18D. Diaz-Castañeda, V.; de León Gonzalez, A.: AN EXPERIMENTAL STUDY OF MACROBENTHIC COLONIZATION AND COMMUNITY DEVELOPMENT IN A CORAL REEF ECOSYSTEM IN THE GULF OF MEXICO.
 19D. Gill, S. M.; Gilliam, D. S.; Kohler, K. E.: COMPARISON OF STONY CORAL COVERAGE DATA OBTAINED BY IN SITU MEASUREMENTS AND IMAGE ANALYSIS
 20D. Moulding, A. L.; Gilliam, D. S.; Kosmyrin, V.; Dodge, R. E.: ENHANCEMENT OF REEF RESTORATION THROUGH APPLIED SCIENCE
 21D. Souder, H. S.; Hallock, P.: MORPHOLOGICAL ABNORMALITIES IN LIVE ARCHAISINE FORAMINIFERS FROM THE FLORIDA KEYS
 23D. Walczak, J. C.; Gilliam, D. S.: POPULATION DYNAMICS AND SPATIAL COMPETITION OF COLONIAL ZOOANTHIDS (*PALYTHOA* spp.) ON SOUTHEASTERN FLORIDA REEFS

**TS-G04:
"GENOMICS" WITHOUT A GENOME** (Afternoon Posters)

(Afternoon Posters)

Chair(s):

Sonya Dyhrman, sdyhrman@whoi.edu
 Deana Erdner, derdnner@whoi.edu

Location: Victoria Conference Centre

- 65D. Kan, J.; Hanson, T. E.; Cary, C.; Wommack, K. E.; Hill, R. T.; Chen, F.: COMMUNITY PROTEOMICS, A NEW WAY TO EXPLORE MICROBIAL FUNCTIONS IN NATURAL ENVIRONMENTS
 66D. Madrid, V. M.; Chistoserdov, A. Y.; Aller, J. Y.; Aller, R. C.: EXPRESSION AND QUANTIFICATION OF KEY METABOLIC GENES FROM MICROBIAL COMMUNITIES IN DELTAIC TROPICAL MOBILE SEDIMENTS USING RT-REAL TIME PCR
 67D. Orellana, M. V.; Klimek, J.; Desaki, A. L.; Ranish, J.: GLOBAL WHOLE CELL PROTEOMIC ANALYSIS OF THE DIATOM *THALASSIOSIRA PSEUDONANA* UNDER DIFFERENT ENVIRONMENTAL CONDITIONS.

THURSDAY

(*) represents Invited presentations

FRIDAY, JUNE 9, 2006

RS02: PHYTOPLANKTON

- Chair(s): Margaret Squires, msquires@scimail.uwaterloo.ca
 Location: Carson Hall C
- 11:00 am Shipe, R. E.; Leinweber, A.; Curtatz, J.; Gruber, N.: ABIOTIC AND BIOTIC CONTROLS OF LINGULODINIUM AND PSEUDO-NITZSCHIA BLOOMS IN SANTA MONICA BAY, CALIFORNIA
- 11:15 am Dyrhman, S. T.; Haley, S. T.: PHOSPHORUS SCAVENGING IN THE UNICELLULAR MARINE DIAZOTROPH CROCOSPHERA WATSONII
- 11:30 am Killberg, L. M.; Bronk, D. A.: INORGANIC AND ORGANIC NITROGEN UPTAKE KINETICS IN FIELD POPULATIONS OF DINOFLAGELLATES FROM FIVE CHESAPEAKE BAY TRIBUTARIES, USA
- 11:45 am Van de Waal, D. B.; Rabouille, S.; Huisman, J.: INFLUENCE OF THE DAY-NIGHT CYCLE ON NITROGEN FIXATION BY UNICELLULAR MARINE CYANOBACTERIA
- 12:00 pm Stomp, M.; Huisman, J.; Stal, L. J.; Laamanen, M.: COMPETITION BETWEEN PHYTOPLANKTON SPECIES DRIVEN BY THE UNDERWATER LIGHT COLOR OF THE BALTIC SEA
- 12:15 pm Tittel, J.; Wiehle, I.; Wannicke, N.; Kamjunke, N.: PHOTODERIVED ORGANIC CARBON AS A RESOURCE FOR MIXOTROPHIC ALGAE
- 2:00 pm Squires, M.; Stainton, M.; Smith, R.; Hecky, R. E.; Silsbe, G.: IS PHYTOPLANKTON GROWTH IN NORTH AMERICAN GREAT LAKES LIMITED BY THE AVAILABILITY OF CARBON DIOXIDE?
- 2:15 pm Juhl, A. R.: BURSTING BUBBLES CAN DAMAGE PHYTOPLANKTON CELLS.
- 2:30 pm Fujiiwara, K.; Endo, Y.; Kawakami, H.; Aoki, M.; Tsuzuki, M.; Yamagata, H.: METAL ACCUMULATION THROUGH FOOD-CHAIN FROM PHYTOPLANKTON TO ZOOPLANKTON
- 2:45 pm Filstrup, C. T.; Lind, O. T.: SEASONAL AND PERENNIAL PHYTOPLANKTON ASSEMBLAGE FLUCTUATIONS IN A EUTROPHIC, SUB-TROPICAL IMPOUNDMENT
- 3:00 pm Philips, E. L.; Badylak, S.; Bledsoe, E.; Cichra, M.: PYRODINIUM BAHAMENSE DISTRIBUTION IN COASTAL WATERS OF FLORIDA
- 3:15 pm Lawrence, E.; Schumann, R.; Karsten, U.: ADAPTATION OF AEROTERRESTRIAL MICROALGAE ISOLATED FROM BUILDING FACADES TO VARYING LIGHT CONDITIONS

RS05: ECOSYSTEMS

- Chair(s): Laurel Saito, lsaito@cabnr.unr.edu
 Jan Newton, newton@apl.washington.edu
 Location: Carson Hall C
- 9:15 am Lehrter, J. C.; Murrell, M. M.; Hagy III, J. D.; Stanley, R. S.; Campbell, J. G.; Greene, R. M.: PRIMARY PRODUCTION, RESPIRATION, AND NET ECOSYSTEM METABOLISM ON THE LOUISIANA CONTINENTAL SHELF ADJACENT TO THE MISSISSIPPI AND ATCHAFALAYA RIVERS
- 9:30 am McLeod, R. L.; Wing, S. R.: CARBON FLOW ACROSS ECOTONE BOUNDARIES: DETERMINING THE IMPORTANCE OF TERRESTRIAL CARBON IN FIORDLAND ESTUARINE FOOD WEBS
- 9:45 am Newton, J. A.; Warner, M. J.; Hannafious, D. E.; Devol, A.; Mumford, T.; Palsson, W.: INCREASING HYPOXIA IN HOOD CANAL, WASHINGTON, USA
- 10:00 am Osborne, S. N.; Brett, M. T.; Richey, J. E.; Steinberg, P. D.; Newton, J. A.; Hannafious, D.: FRESHWATER NUTRIENT LOADING TO THE HOOD CANAL
- 10:15 am Paulson, A. L.; Noble, M.; Kendall, C.; Frans, L.: ESTIMATED LOADS OF NITROGEN TO HOOD CANAL
- 10:30 am Devol, A. H.; Ruef, W.; Newton, J.: HIGH FREQUENCY MEASUREMENTS OF OXYGEN AND OTHER VARIABLES IN HOOD CANAL WASHINGTON

TS-A10: TROPICAL PACIFIC OCEAN

- Chair(s): Cynthia Venn, cvenn@bloomu.edu
 Jaime Farber Lorda, jfarber@cicese.mx
 Location: Esquimalt
- 9:15 am Strutton, P.: PHYSICAL/BIOLOGICAL INTERACTIONS IN THE TROPICAL PACIFIC: TUTORIAL~
- 9:45 am Sabine, C. L.; Feely, R. A.; McPhaden, M. J.; Takahashi, T.; Chavez, F. P.; Maenner, S. M.: TEMPORAL VARIABILITY IN EQUATORIAL PACIFIC CO₂ FLUXES
- 10:00 am Christian, J. R.; Feely, R. A.; Ishii, M.; Murtagh, R.; Wang, X.: TROPICAL PACIFIC OCEAN SURFACE PCO₂ VARIABILITY: MODELS AND OBSERVATIONS

- 10:15 am Cepeda-Morales, J.; Gaxiola-Castro, G.; Beier, E.: PHYSICAL INFLUENCE ON THE TWO CHLOROPHYLL MAXIMUM IN THE EASTERN TROPICAL PACIFIC OCEAN
- 10:30 am Huisman, J.; Pham Thi, N. N.; Karl, D. M.; Sommeijer, B.: REDUCED MIXING GENERATES OSCILLATIONS AND CHAOS IN THE OCEANIC DEEP CHLOROPHYLL MAXIMUM
- 10:45 am Gonzalez, H. E.; Menschel, E.; Vera, R.; Marchant, M.; Hebbeln, D.; Barria, C.; Iriarte, J.: DOWNWARD FLUXES OF PARTICULATE ORGANIC CARBON AND CARBONATE IN COASTAL AND OCEANIC AREAS OFF CHILE: THE CONTRIBUTION OF FUNCTIONAL GROUPS OF THE PLANKTON.
- 11:00 am Fiedler, P.; Lavín, M.: THE PELAGIC ENVIRONMENT OF THE EASTERN TROPICAL PACIFIC OCEAN-
- 11:30 am Färber-Lorda, J.; Fiedler, P.; Lavín, M.: ZOOPLANKTON IN THE EASTERN TROPICAL PACIFIC*
- 11:45 am Venn, C.: ASSESSING CONTROLS ON SUBSURFACE SETTLEMENT AND GROWTH OF BARNACLES OF THE GENUS CONCHODERMA IN THE TROPICAL PACIFIC USING THE TAO ARRAY AND DATA SET
- 12:00 pm Bird, C. E.; Velasco, V. N.; Smith, C. M.: EFFECTS OF WAVE HEIGHT ON LITTORAL CLIMATE AND THE HAWAIIAN LIMPET FISHERY
- 12:15 pm Merryfield, W. J.: WILL ENSO CHANGE? PROJECTIONS OF CURRENT-GENERATION COUPLED CLIMATE MODELS*

TS-A12: CLIMATE AND PLANKTON INTERACTIONS

- Chair(s): James Christian, jim.christian@ec.gc.ca
 Monika Winder, mwinder@ucdavis.edu
 Location: Lecture Theater
- 9:15 am Peterson, W. T.: A REVIEW OF POTENTIAL IMPACTS OF GLOBAL CLIMATE CHANGE ON TROPHIC STRUCTURE OF COASTAL MARINE PELAGIC ECOSYSTEMS-
- 9:45 am Weyhenmeyer, G. A.: ACCELERATED AQUATIC ECOSYSTEM CHANGES TOWARDS LOWER LATITUDES*
- 10:00 am Winder, M.; Hunter, D. A.; Schladow, S. G.: PHYTOPLANKTON COMMUNITY RESPONSES TO PHYSICAL FORCING IN LAKE TAHOE
- 10:15 am Johnk, K. D.; Huisman, J.; Sharples, J.; Sommeijer, B. P.; Visser, P. M.; Stroom, J.: SUMMER HEATWAVES PROMOTE BLOOMS OF HARMFUL CYANOBACTERIA
- 10:30 am Preston, N. D.; Rusak, J. A.; Carpenter, S. R.: CLIMATE-DRIVEN CHANGES IN SPRING CONDITIONS: THE EFFECT OF ICE-COVER ON ZOOPLANKTON HATCH DATES IN NORTHERN TEMPERATE LAKES
- 10:45 am Mehner, T.; Helland, I. P.; Kasprzak, P.; Freyhof, J.; Kirill, G.: GLOBAL CHANGE MAY INDUCE A CHANGE IN SPATIAL OVERLAP BETWEEN VERTICALLY MIGRATING PLANKTIVOROUS FISH AND ZOOPLANKTON
- 11:00 am Curry, C. L.: METHANE IN THE CLIMATE SYSTEM*
- 11:15 am Casciotti, K. L.: MATCHING GENE EXPRESSION WITH ISOTOPIC SIGNATURES IN MARINE AMMONIA OXIDIZING BACTERIA*
- 11:30 am Feng, Y.; Fu, F.; Zhang, Y.; Warner, M.; Hutchins, D. A.: EFFECTS OF RISING CO₂ AND TEMPERATURE ON THE GROWTH AND PHOTOSYNTHESIS OF THE MARINE COCCOLITHOPHORID EMILIANIA HUXLEYI
- 11:45 am Apple, J. K.; del Giorgio, P. A.; Kemp, W. M.: TEMPERATURE REGULATION OF BACTERIAL PRODUCTION, RESPIRATION, AND GROWTH EFFICIENCY IN ESTUARINE SYSTEMS
- 12:00 pm Morán, X. A.; López-Urrutia, A.: OCEANIC BACTERIAL PRODUCTION AND RESPIRATION ARE DIFFERENTLY Affected BY TEMPERATURE
- 12:15 pm Schmittner, A.: RESPONSE OF THE MARINE PLANKTONIC ECOSYSTEM TO FUTURE CHANGES IN OCEAN CIRCULATION
- 12:30 pm Alheit, J.: TELECONNECTION PATTERNS OF IMPACT OF CLIMATE VARIABILITY ON PELAGIC ECOSYSTEMS ACROSS EUROPE
- 2:00 pm Wiedner, C.; Ruecker, J.; Stueken, A.; Nixdorf, B.: DISTRIBUTION AND REGULATION OF THE ORIGINALLY TROPICAL CYANOBACTERIUM CYLINDROSPERMOPSIS RACIBORSKII AT ITS NORTHERN LIMITS
- 2:15 pm Seebens, H.; Straile, D.; Stich, H. B.; Einsle, U.: INFLUENCE OF CLIMATE VARIABILITY AND OLIGOTROPHICATION ON LIFE CYCLE AND PHENOLOGY OF A FRESHWATER CYCLOPOID COPEPOD
- 2:30 pm Tirol, K.; Gaedke, U.: CLIMATE CHANGE: THE EFFECT OF IRRADIANCE, VERTICAL MIXING AND TEMPERATURE ON SPRING ALgal DYNAMICS - A DATA-BASED MODELLING STUDY
- 2:45 pm Pospelova, V.: DISTRIBUTION OF DINOFLAGELLATE CYSTS IN SURFACE SEDIMENTS FROM THE COASTAL NORTHEASTERN PACIFIC (43°-25°N) IN RELATION TO SEA-SURFACE CONDITIONS AND UPWELLING.
- 3:00 pm Thackeray, S. J.; Maberly, S. C.; Jones, I. D.: LONG-TERM CHANGE IN THE TIMING AND MAGNITUDE OF PLANKTON BLOOMS IN WINDERMERE
- 3:15 pm Thibeault, P.; Frenette, J. I.; Lapierre, J.: EVIDENCE OF LIVING ICE ALGAE IN A FRESHWATER FLUVIAL LAKE

(*) represents Tutorial presentations

**TS-B05:
DYNAMICS AND INTERCHANGE BETWEEN RIVERS AND MARINE
ENVIRONMENT IN ARID ZONES**

Chair(s):	Adnan Al-Azri, aalazri@yahoo.com Faiza Al-Yamani, fyamani@kisr.edu.kw
Location:	Colwood
9:15 am	Al-Yamani, F. Y.; Polikarov, I.; Altukhov, D.; Drapon, I.: ECOLOGICAL DISTRIBUTION OF TWO CALANOID COPEPODS IN RELATION TO SALINITY IN THE NW ARABIAN GULF
9:30 am	Polikarov, I. G.; Al-Yamani, F. Y.; Saburova, M. A.: ANNUAL DYNAMICS OF PHYTOPLANKTON ABUNDANCE AND COMMUNITY STRUCTURE IN THE ESTUARINE WATERS OF THE ARABIAN GULF
9:45 am	Skrabina, V. A.; Al-Yamani, F. Y.: COMPOSITION, DISTRIBUTION AND SEASONAL CHANGES OF TINTINNIDS IN THE NORTHWESTERN ARABIAN GULF
10:00 am	Al-Husaini, M.: ESTURINE-DEPENDANT FISHERY RESOURCES IN THE NORTHERN ARABIAN GULF
10:15 am	Bishop, J. M.; Al-Foudary, H. M.; Alsaffar, A. H.: EFFECTS OF SHATT AL-ARAB DISCHARGE ON KUWAIT'S COMMERCIAL SHRIMP LANDINGS
10:30 am	Butayban, N. B.: KUWAIT'S EXPERIENCE IN LONG-TERM MONITORING THE MARINE ENVIRONMENT OF THE NW ARABIAN GULF
10:45 am	Hayat, L. H.: BUILDING A PORT IN AN ACTIVE SHALLOW ESTUARINE ENVIRONMENT WITHOUT SCIENTIFIC CONSIDERATION RESULTS IN AN ECOLOGICAL DISASTER.

**TS-B15:
CONSEQUENCES OF MULTIPLE TROPHIC LEVELS IN PLANKTON
COMMUNITIES**

Chair(s):	Jennifer E. Purcell, purcelj@cc.wwu.edu
Location:	Carson Hall A
9:15 am	Trinko, T. R.; Webster, K. E.; Halliwell, D. B.; Kray, J. A.: THE EFFECTS OF JUVENILE WHITE PERCH PREDATION ON ZOOPLANKTON GRAZERS IN TWO SHALLOW EUTROPHIC LAKES WITH CONTRASTING ALGAL BLOOM FREQUENCIES
9:30 am	van der Stappen, J.; Vos, M.; Mooij, W. M.: INDUCIBLE DEFENSES AND COMMUNITY DYNAMICS
9:45 am	Purcell, J. E.: FOOD-WEB PATHWAYS THROUGH GELATINOUS ZOOPLANKTON: FROM BACTERIA TO WHALES~
10:15 am	Amblar, J. W.; Kopala, S. A.; Day, M. C.: ASSOCIATION OF PELAGIC TUNICLES WITH SEASONAL HYDROGRAPHIC CONDITIONS IN COASTAL WATERS OFF WALLOPS ISLAND, USA.
10:30 am	Thompson, P. A.; Bonham, P. I.; Swadling, K. M.: SELECTIVE GRAZING AS A FACTOR IN PHYTOPLANKTON BLOOMS.
11:00 am	Bäumstedt, U.; Youngbluth, M.: JELLYFISH CONTROL OF COMPETING PREDATORS
11:15 am	Benincà, E.; Jöhnk, K. D.; Heerkloss, R.; Scheffer, M.; Huisman, J.: TIME SERIES ANALYSIS OF PLANKTON COMMUNITY DYNAMICS IN A LONG-TERM MESOCOSM STUDY
11:30 am	Ford, M. D.; Link, J. S.: PREDATION OF CTENOPHORES BY SPINY DOGFISH (<i>SQUALUS ACANTHIAS</i>) ON THE NORTHEAST CONTINENTAL SHELF OF THE U.S.
11:45 am	Hansson, L. A.; Nicolle, A.; Brodersen, J.; Romare, P.; Skov, C.; Brönmark, C.: CONSEQUENCES OF FISH MIGRATION AND JUVENILE ONTOGENY ON ZOOPLANKTON POPULATION DYNAMICS
12:00 pm	Hsu, P. K.; Lo, W. T.; Shih, C. T.: EFFECTS OF THE REMOVAL OF OYSTER-CULTURE RACKS ON COPEPOD ASSEMBLAGES IN A EUTROPHIC TROPICAL LAGOON IN TAIWAN
12:15 pm	Marquis, E.; Niquil, N.; Hartmann, H. J.; Dupuy, C.: SEASONAL PLANKTONIC FOOD WEB DYNAMICS RELATED TO ENVIRONMENTAL CONDITIONS OF THE CONTINENTAL SHELF OF THE BAY OF BISCAY, FRANCE.
2:00 pm	Pitt, K. A.: TOP-DOWN AND BOTTOM-UP INFLUENCES OF JELLYFISHES IN THE ESTUARIES OF EASTERN AUSTRALIA
2:15 pm	Smith, A. N.; Dam, H. G.: EFFECT OF FOOD WEB COMPLEXITY AND PREDATOR-PREY STOICHIOMETRY ON PLANKTONIC TROPHIC CASCADES
2:30 pm	Sullivan, L. J.; Gifford, D. J.: FEEDING AND GROWTH OF THE LARVAL CTENOPHORE <i>MNEMIOPSIS LEIDYI</i>
2:45 pm	Turk, V.; Malej, A.; Lucic, D.; Benovic, A.: INFLUENCE OF AURELIA SP. ON MULTIPLE TROPHIC LEVELS IN THE PLANKTON COMMUNITY IN AN ENCLOSED SALINE LAKE (MLJET, ADRIATIC SEA)
3:00 pm	Vaqué, D.; Peters, F.; Marrasé, C.; Sabata, A.; Romero, E.; Lekunberri, I.; Gasol, J. M.; Calvo-Díaz, A.; Morán, X. A. G.; Figueiras, F. G.: EFFECTS OF A SIMULATED OIL SPILL ON MICROBIAL FOOD WEB INTERACTIONS
3:15 pm	Verity, P. G.: TWO DECADES OF CHANGE IN THE SKIDAWAY ESTUARY, GEORGIA (USA)

**TS-B16:
AQUATIC ECOLOGY IN THE AGE OF DISPERSAL: APPROACHES,
PATTERNS AND CHALLENGES**

Chair(s):	Karl Cottenie, cottenie@uoguelph.ca Pedro R. Peres-Neto, pedro.peres-neto@uregina.ca
Location:	Colwood
11:00 am	Clay, T. W.; Grunbaum, D.: EFFECTS OF MORPHOLOGY AND TURBULENCE ON LARVAL SWIMMING AND TRANSPORT
11:15 am	Howard, V. M.; Sytsma, M.: GET THE DRIFT? POTENTIAL OCEAN DISPERSAL OF INVASIVE SPARTINA PROPAGULES
11:30 am	Wing, S. R.: LARVAL DISPERSAL AND SPATIAL POPULATION STRUCTURE OF BENTHIC INVERTEBRATES IN FIORDLAND NEW ZEALAND, WITH IMPLICATIONS FOR ECOSYSTEM MANAGEMENT
11:45 am	North, E. W.; Hood, R. R.; Li, M.; Zhong, L.; Gross, T.; Manuel, J. L.; Newell, R. I.; Kennedy, V. S.; Schlag, Z.: THE INFLUENCE OF ENVIRONMENTAL VARIABILITY AND SETTLEMENT HABITAT ON THE DISPERSAL OF OYSTER LARVAE IN CHESAPEAKE BAY
12:00 pm	Lowe, W. H.; Likens, G. E.; McPeak, M. A.; Buso, D. C.: DEMOGRAPHIC AND EVOLUTIONARY CONSEQUENCES OF DISPERSAL IN STREAMS
12:15 pm	Muirhead, I. R.; MacIsaac, H. J.: PREDICTION OF DISPERSAL AND ESTABLISHMENT OF AQUATIC NONINDIGENOUS SPECIES ACROSS ONTARIO LAKES: LINKING VECTOR-BASED AND HABITAT-MATCHING MODELS
2:00 pm	Anderson, K. E.; Nisbet, R. M.; Diehl, S.: SCALING POPULATION RESPONSES TO SPATIAL ENVIRONMENTAL VARIABILITY IN ADVECTION-DOMINATED SYSTEMS
2:15 pm	Cottenie, K.; Chase, J. M.: METACOMMUNITY DYNAMICS: INTERPLAY BETWEEN HABITAT HETEROGENEITY AND DISPERSAL RATE
2:30 pm	Beisner, B. E.; Peres-Neto, P. R.; Lindström, E. S.; Barnett, A.; Longhi, M. L.: THE ROLE OF DISPERSAL IN STRUCTURING LAKE COMMUNITIES FROM BACTERIA TO FISH*
2:45 pm	Howeth, J. G.; Leibold, M. A.: COEXISTENCE IN COMPLEX POND FOOD WEBS: A MULTI-TROPHIC PERSPECTIVE OF DISPERSAL-DIVERSITY RELATIONSHIPS IN METACOMMUNITIES*
3:00 pm	Kelly, D. W.; MacIsaac, H. J.; Heath, D. D.: VICARIANCE AND DISPERSAL EFFECTS ON PHYLOGEOGRAPHIC STRUCTURE AND SPECIATION IN ESTUARIES
3:15 pm	Peres-Neto, P. R.: A FLEXIBLE APPROACH TO METACOMMUNITY MODELLING: CONTRASTING STREAM AND LAKE FISH COMMUNITIES

**TS-B18:
ALTERNATE STATES IN SHALLOW LAKES: THE ROLE OF CLIMATE,
WATER LEVEL, FISH AND NITROGEN**

Chair(s):	Suzanne Bayley, sbayley@ualberta.ca Erik Jeppesen, ej@dmu.dk
Location:	Saanich 1 & 2
11:00 am	Jeppesen, E.; Søndergaard, M.; Lauridsen, T. L.; Meerhoff, M.; Bayley, S.: TROPHIC DYNAMICS IN SHALLOW LAKES: THE ROLE OF NITROGEN, FISH, WATER LEVEL AND CLIMATE. ~
11:30 am	Scheffer, M.: NEW TWISTS TO THE THEORY OF ALTERNATIVE STABLE STATES IN SHALLOW LAKES*
11:45 am	Zimmer, K. D.; Herwig, B. R.; Konsti, M. L.; Hanson, M. A.; Wright, R. W.; Younk, J. A.: ALTERNATIVE STATES IN SHALLOWS LAKES ACROSS TWO NORTH AMERICA BIOMES: THE IMPORTANCE OF AMBIENT NUTRIENT LEVELS AND BENTHIVORE ABUNDANCE *
12:00 pm	Sass, G. Z.; Creed, I. F.: HYDROLOGIC CONTROLS OF FREQUENTLY SHIFTING ALTERNATE STATES ON THE BOREAL PLAIN OF ALBERTA
12:15 pm	Kosten, S.; Scheffer, M.; Van Nes, E. H.: CLIMATE INDUCED SHIFTS IN LAKE ECOSYSTEMS: THE SOUTH AMERICAN LAKE GRADIENT ANALYSIS
2:00 pm	Bayley, S. E.; Wong, A. S.: ALTERNATE STATES IN SOUTHERN BOREAL WETLAND LAKES: THE ROLE OF TOTAL PHOSPHORUS AND SUBMERSED VEGETATION
2:15 pm	McGowan, S.; Barker, T.; Hatton, K.; Leavitt, P. R.; Moss, B.; O'Connor, M.: CONTRASTING IMPACTS OF NITROGEN AND SALINITY ENRICHMENT ON ALgal COMMUNITY COMPOSITION AND BIOMASS IN SHALLOW POND MESOCOSMS.
2:30 pm	Meerhoff, M.; Jeppesen, E.; Clemente, J. M.; Texeira de Mello, F.; Jensen, E.; Iglesias, C.; Tunali, Y. S.; Ballabio, R.; Stefanidis, K.: TROPHIC DYNAMICS IN TEMPERATE AND SUBTROPICAL SHALLOW LAKES: DIFFERENTIAL ROLE OF FREE-FLOATING AND SUBMERGED PLANTS
2:45 pm	Pekcan-Hekim, Z.; Horppila, J.; Nurminen, L.; Ojala, T.; Olin, M.; Ruuhijärvi, J.: HABITAT AND FOOD CHOICE OF LITTORAL FISH IN A TURBID SHALLOW LAKE
3:00 pm	Roelke, D. L.; Eldridge, P. M.: CHAOTIC INCIDENCE OF WATER-COLUMN ALTERNATE PHYTOPLANKTON ASSEMBLAGE STATES: A MODELING STUDY WITH HAB MANAGEMENT IMPLICATIONS
3:15 pm	Piehler, M. E.; Waters, M. N.: PHYTOPLANKTON BIOMASS AND NUTRIENT LIMITATION IN A SHALLOW COASTAL PLAIN LAKE: EVIDENCE FOR THE EXISTENCE OF ALTERNATIVE STABLE STATES WITHIN THE SYSTEM

(*) represents Invited presentations

**TS-B22:
CRABS, BENTHOS AND BENTHIC PROCESSES**

- Chair(s): Erin Lindquist, erin@ots.ac.cr
Ken Krauss, kkrauss@usgs.gov
- Location: Saanich I & 2
- 9:15 am Yahel, G.; Leys, S.P.; Reiswig, H. M.; Eerkes-Medrano, D. I.; Tunnicliffe, V.: IN SITU FEEDING AND METABOLISM OF GLASS SPONGES AND THEIR COMMUNITY MEDIATED FLUXES STUDIED IN A DEEP TEMPERATE FJORD AND A SPONGE REEF
- 9:30 am Reiswig, H.M.; Nickel, M.: HOW LYSSACINE HEXACTINELLIDA ATTACH TO HARD SUBSTRATE
- 9:45 am Yahel, G.; Eerkes-Medrano, D. I.; Leys, S. P.: SIZE INDEPENDENT SELECTIVE FILTRATION OF ULTRAPLANKTON BY HEXACTINELLID GLASS SPONGES
- 10:00 am Rohde, S.; Wahl, M.: DEFENSE INDUCTION IN MACROALGAE FROM THE BALTIC SEA: PERSISTENT IN TIMES OF GLOBAL CHANGE?
- 10:15 am Viitasalo, S.; Laine, A. O.; Lehtiniemi, M.: HABITAT CHANGE AND NUTRIENT CYCLES MEDIATED BY BENTHIC MACROFAUNA
- 10:30 am Sakamaki, T.; Nishimura, O.; Richardson, J. S.: DYNAMIC EQUILIBRIUM OF SEDIMENT CARBON CONTENT IN A STABLE ESTUARINE TIDAL FLAT ECOSYSTEM

**TS-C01:
MICROBIAL ECOLOGY ACROSS THE LANDSCAPE**

- Chair(s): Stuart Findlay, findlays@ecostudies.org
George Kling, gwk@umich.edu
- Location: Carson Hall B
- 9:15 am Kling, G. W.; Findlay, S.: MICROBIAL ECOLOGY ACROSS THE LANDSCAPE-
- 9:45 am Rublee, P.A.; Henrich, V. C.; Marshall, M. M.: MICROBIAL BIOGEOGRAPHY: EVIDENCE THAT MOST EVERYTHING MAY VERY WELL BE MOST EVERYWHERE.
- 10:00 am Nelson, C. E.; Carlson, C. A.; Sickman, J. O.; Melack, J. M.: COMMUNITY COMPOSITION AND METABOLISM OF HIGH-ELEVATION BACTERIOPLANKTON LINKED TO CATCHMENT INPUTS, LANDSCAPE POSITION, AND SEASONAL LIMNOLOGICAL TRANSITIONS
- 10:15 am Sabater, S.; Artigas, J.; Romani, A.: DELAYED RESPONSES OF BIOFILMS SUBMITTED TO CONTINUED NUTRIENT INPUTS IN A FORESTED STREAM
- 10:30 am Adams, H. E.; Crump, B. C.; Kling, G. W.: BACTERIOPLANKTON COMMUNITY COMPOSITION MEDIATES THE EFFECT OF TEMPERATURE AND NUTRIENTS ON BACTERIAL ACTIVITY.
- 11:00 am Berggren, M.; Jansson, M.; Laudon, H.: GROWTH AND RESPIRATION OF AQUATIC BACTERIA ON ORGANIC CARBON FROM DIFFERENT TERRESTRIAL SOURCES
- 11:15 am Daniel, C. B.; Anesio, A. M.; Kitzberg, E. S.; Granéli, W.: WHAT DO STABLE ISOTOPES TELL ABOUT DOC AND BACTERIA IN LAKES
- 11:30 am Becker, S.; Richl, P.; Ernst, A.: REGULAR SEASONAL DISTRIBUTION PATTERN OF SYNECHOCOCCUS ECOTYPES IN LAKE CONSTANCE
- 11:45 am Bowen, J. L.; Crump, B. C.; Deegan, L. A.; Hobbie, J. E.: MICROBIAL COMMUNITY COMPOSITION IN SEDIMENTS OF A NEW ENGLAND SALT MARSH: BACTERIAL COMMUNITY RESPONSE TO EXPERIMENTAL NITROGEN ENRICHMENT
- 12:00 pm Chistoserdov, A. Y.; Madrid, V. M.; Luzan, T.; Richer de Forges, M. M.; Rodriguez, M. J.; Gonzales, D.; Aller, J. Y.; Aller, R. C.; Scranton, M.; Taylor, G.: COUPLING OF SULFUR, IRON AND MANGANESE CYCLES AND CHEMOLITHOTROPHY AT THE REDOX TRANSITION ZONES
- 12:15 pm McMillan, S. K.; Thompson, S. P.; Paerl, H. W.; Piehler, M. F.: DENITRIFICATION DYNAMICS IN COASTAL HEADWATER STREAMS
- 2:00 pm Evans, C. T.; Deming, J. W.; Cochran, J. K.: MICROBIAL DIVERSITY ASSOCIATED WITH SUSPENDED AND SINKING PARTICLES ON RIVER-IMPACTED ARCTIC SHELVES
- 2:15 pm Teira, E.; Aranguren, M.; González, J.; Martínez, S.; Menduiña, I.; Pérez, P.; Serret, P.: MICROBIAL COMMUNITY STRUCTURE AND FUNCTION IN THE NW IBERIAN COASTAL TRANSITION ZONE
- 2:30 pm Galand, P. E.; Pouliot, J.; Lovejoy, C.; Vincent, W. F.: MICROBIAL COMMUNITIES ACROSS THE MACKENZIE RIVER, 'LAKE MACKENZIE' AND COASTAL BEAUFORT SEA
- 2:45 pm Frenette, J. J.; Gosselin, M.; Gratton, D.; Nozais, C.; Martin, C.; Belzile, C.: EVIDENCE OF CONNECTIVITY ALONG A 250 KM TRANSECT FROM A FLUVIAL LAKE TO THE ESTUARINE TRANSITION OF THE ST. LAWRENCE RIVER
- 3:00 pm Costas, B. A.; McManus, G. B.; Payson, A.: UNDERSTANDING THE DISTRIBUTION AND HABITAT CONDITIONS OF MORPHOLOGICALLY SIMILAR TIDE POOL CILIATES THROUGH THE USE OF MOLECULAR PROBES

**TS-C06:
MARINE AND CONTINENTAL SEDIMENTARY ORGANIC GEOCHEMICAL PROFILES AS RECORDS OF PAST ENVIRONMENTAL CONDITIONS**

- Chair(s): Mark Yunker, mark-yunker@telus.net
Philip A. Meyers, pameyers@umich.edu
- Location: Sidney
- 9:15 am Macdonald, R. W.; Yunker, M. B.; Meyers, P. A.: ORGANIC CARBON IN THE ARCTIC OCEAN MARGIN: A TRUE TEST FOR THE DETERMINATION OF SOURCES AND SENSITIVITY TO CHANGE-
- 9:45 am Yunker, M. B.; Macdonald, R. M.; Snowdon, L. R.; Fowler, B. R.; Smith, J. N.: ALKANE AND PAH HYDROCARBONS IN ARCTIC OCEAN SEDIMENTS: INFLUENCE OF HOLOCENE AND GLACIAL CLIMATIC REGIMES
- 10:00 am Lin, S.; Milliman, J.; Lim, Y.; Huang, K.; Lin, I.; Wang, C.: IMPLICATION AND DEPOSITION OF SMALL ASIAN RIVER DERIVED TERRIGENOUS MATERIAL NEAR THE RIVER MOUTH AND COASTAL AREA
- 10:15 am Canuel, E. A.; Waterson, E. I.; Kuehl, S. A.; Wakeham, S. G.: ANTHROPOGENIC IMPACTS ON CARBON CYCLING IN THE SACRAMENTO-SAN JOAQUIN RIVER DELTA: CHANGES IN SOURCE, NATURE, AND AGE OF ORGANIC CARBON*
- 10:30 am Verburg, P.; Hecky, R. E.; Ramlal, P. S.; Kling, G. W.; Mugidde, R.; Verschuren, D.: ORGANIC J3C IN LACUSTINE SEDIMENT AND THE SUES EFFECT: DIVERGENCE OF PRODUCTIVITY TRENDS BETWEEN SHALLOW AND DEEP WATER IN THE LARGE AFRICAN LAKES
- 10:45 am Meyers, P. A.; Lu, Y.; Knowlton, C.; Eadie, B. J.; Robbins, J. A.; Lansing, M. B.: ASSESSMENT OF ISOTOPIC PALEOENVIRONMENTAL PROXIES IN LAKE ERIE SEDIMENTS

**TS-D05:
PARASITISM IN A CHANGING WORLD**

- Chair(s): Maiko Kagami, m.kagami@nioo.knaw.nl
Ellen Van Donk, e.vandonk@nioo.knaw.nl
Bas W. Ibelings, b.ibelings@nioo.knaw.nl
- Location: Esquimalt
- 2:00 pm Lafferty, K. D.: ENVIRONMENTAL CHANGE AND INFECTIOUS DISEASE IN OCEANS AND ESTUARIES-
- 2:30 pm Johnson, P. T.; Dosch, K. L.; Hartson, R. B.; Chase, J. M.; Larson, D.; Sutherland, D. R.; Carpenter, S. R.: EXPERIMENTAL EFFECTS OF AQUATIC EUTROPHICATION ON DISEASE EMERGENCE IN AMPHIBIANS*
- 2:45 pm Duffy, M. A.: IS THE ENEMY OF MY ENEMY REALLY MY FRIEND? THE COMBINED EFFECTS OF SELECTIVE PREDATORS AND VIRULENT PARASITES ON DAPHNIA POPULATIONS
- 3:00 pm de Montaudouin, X.; Desclaux, C.; Bachelet, G.: SUCCESSION OF TREMATODE PARASITES COMMUNITIES IN A MAN-MODIFIED ECOSYSTEM
- 3:15 pm Carey, C.: WORLD-WIDE AMPHIBIAN DECLINES: CHYTRIDIOMYCOSIS AND CLIMATE CHANGE
- 3:30 pm Kagami, M.; Donk, E. V.; Bruun, A. D.; Ibelings, B. W.: CLIMATE WARMING MAY INCREASE FUNGAL PARASITISM OF PHYTOPLANKTON

**TS-E02:
CLIMATE IMPACTS AND IMPLICATIONS FOR FISH AND FISHERIES**

- Chair(s): Mark Johannes, mjohannes@shaw.ca
- Location: Oak Bay
- 9:15 am Johannes, M. R.; Chow, J.; Mazumder, A.: IMPACTS AND ADAPTATION RESPONSES OF BC SALMON TO CLIMATE
- 9:30 am Battin, J.; Wiley, M.; Bartz, K. K.; Korb, E.; Imaki, H.; Palmer, R.; Ruckelshaus, M. H.: IMPACTS OF CLIMATE CHANGE ON THE SUCCESS OF RESTORATION STRATEGIES FOR CHINOOK SALMON IN A PUGET SOUND WATERSHED
- 9:45 am Buehler, V.; Jochem, F. J.: FORECASTING ATLANTIC COD GROWTH AND SURVIVAL IN RESPONSE TO CLIMATIC AND FISHERY-INDUCED CHANGES IN THE BARENTS SEA.
- 10:00 am Carter, K. P.; Snelgrove, P. V.; Pepin, P.: THE INTERACTION OF CLIMATE AND OVEREXPLOITATION IN THE COLLAPSE OF NEWFOUNDLAND GROUND FISH
- 10:15 am Thomas, R. E.; Fleischer, G. W.; Cooke, K. D.; Holmes, J. A.; Ressler, P. H.; Pierce, S. D.: DISTRIBUTION OF PACIFIC HAKE IN RELATION TO OCEAN CONDITIONS: IMPLICATIONS FOR DOCUMENTING CLIMATE CHANGE
- 10:30 am Therriault, T. W.; Hay, D. E.; Schweigert, J. F.: CHANGING DISTRIBUTION AND ABUNDANCE OF PACIFIC HERRING (*CLUPEA PALLASI*) IN THE STRAIT OF GEORGIA: RESULTS OF CLIMATE CHANGE?

(→) represents Tutorial presentations

**TS-E07:
APPLICATIONS OF REMOTE SENSING DATA IN COASTAL WATERS**

Chair(s):	Varis Ransibrahmankul, varis.ransi@noaa.gov Celso S. Barrientos, celso.s.barrientos@noaa.gov Douglas E. Pirhalla, doug.pirhalla@noaa.gov
Location:	Empress Hotel
9:15 am	Klemas, V.V.: REMOTE SENSING OF COASTAL WETLANDS AND ESTUARIES: AN INVITED TUTORIAL LECTURE~
9:45 am	D'Sa, E.J.: OPTICAL MEASUREMENTS IN A HIGHLY TURBID COASTAL ENVIRONMENT: IMPLICATIONS FOR OCEAN COLOR REMOTE SENSING *
10:00 am	Hladik, C. M.; Schalles, J. F.: DEVELOPING AND APPLYING CHLOROPHYLL ALGORITHMS FOR HYPERSPECTRAL REMOTE SENSING OF COASTAL WATERS
10:15 am	Miller, L. M.; Woodruff, D.; Petrie, G.; Doucette, P.; Tagesstad, J.; Steinmaus, K.; Bowles, J.; Donato, T.; Rhea, W. J.: HYPERSPECTRAL IMAGE ANALYSIS OF AN EXPERIMENTAL PLUME RELEASE IN PUGET SOUND
10:30 am	Garcia, C. A.; Garcia, V. M.; Signorini, S.; McClain, C. R.: PERFORMANCE OF EMPIRICAL AND SEMI-ANALYTICAL CHLOROPHYLL ALGORITHMS IN THE LA PLATA RIVER COASTAL REGION (25-40 S AND 60-45 W)
11:15 am	Pirhalla, D.E.; Ransibrahmankul, V.; Stumpf, R. P.: APPLICATION OF SEAWIFS IN COASTAL WATERS: ASSESSING THE INFLUENCE OF REGIONAL MONTHLY PRECIPITATION ON SOUTH ATLANTIC BIGHT (SAB) CHLOROPHYLL AT 1 KM SCALE
11:30 am	Detres, Y.; Armstrong, R. A.; Otero, E.: REMOTE SENSING OF EPISODIC RAINFALL EVENTS IMPACTING CORAL REEF AREAS
11:45 am	Ransibrahmankul, V.; Stumpf, R. P.; Richardson, A.; Wynne, T. T.; Pirhalla, D.; Christensen, J. D.: CHARACTERIZATION OF WATER QUALITY RESPONSE TO WIND EVENTS IN ESTUARIES AND COASTAL AREAS USING ATMOSPHERICALLY CORRECTED MODIS 250 M DATA
12:00 pm	Fischer, A. M.; Ryan, J. P.; Chavez, F. C.; Gower, J.; King, S.; Bissett, P.; Kudela, R. M.; Foley, D.: A RED TIDE INCUBATOR IN THE UPWELLING SHADOW OF MONTEREY BAY, CALIFORNIA?
12:15 pm	Kwarteng, A. Y.: LANDSAT TM SEA SURFACE TEMPERATURE VARIABILITY IN THE NORTHWESTERN ARABIAN GULF
2:00 pm	Casey, K. S.; Selig, E. R.; Bruno, J. F.: USE OF SATELLITE-BASED PATHFINDER SEA SURFACE TEMPERATURES FOR UNDERSTANDING CORAL DISEASE DYNAMICS
2:15 pm	Goodwin, A. J.; Williams, B. J.: A CALIBRATABLE LONG TERM SEAGRASS MEADOW EXTENT MODEL USING REMOTE SENSED DATA
2:30 pm	Hernández-Cruz, L. R.; Purkis, S. J.; Riegl, B. M.: STATUS AND CRITICAL HABITAT OF ACROPORA PALMATA (ELKHORN CORAL) IN VIEQUES, PUERTO RICO: A REMOTE-SENSING BASED STUDY
2:45 pm	Wynne, T. T.; Stumpf, R. P.; Dunham, S.: BOTTOM ALBEDO CHANGES IN FLORIDA BAY, USA

**TS-E08:
CORAL REEF ECOSYSTEM RESEARCH AND MANAGEMENT OBJECTIVES**

Chair(s):	Michael Dowgiallo, michael.dowgiallo@noaa.gov Felix A. Martinez, felix.martinez@noaa.gov
Location:	Oak Bay
11:00 am	Ogden, J. C.: ECOSYSTEM CONSIDERATIONS MUST DRIVE THE MANAGEMENT OF CORAL REEFS
11:15 am	Edwards, A.: CORAL REEF RESTORATION: THE SCALE OF THE PROBLEM AND THE STATUS AND PROSPECTS FOR RESTORATION TECHNOLOGIES~
11:45 am	Richmond, R. H.; Victor, S.; Golbuu, Y.; Wolanski, E.: CORAL REEF CONSERVATION IN THE PACIFIC ISLANDS: BLENDING MODERN TECHNOLOGIES WITH TRADITIONAL GOVERNANCE

12:00 pm	Gilliam, D. S.; Banks, K.; Beaver, C.; Collier, C.; Dodge, R. E.; Fisher, L. E.; Jaap, W.: LONG-TERM MONITORING OF A HIGH-LATITUDE CORAL REEF SYSTEM OFF SOUTHEAST FLORIDA, USA: A PARTNERSHIP BETWEEN ACADEMIA AND RESOURCE MANAGEMENT
12:15 pm	Keller, B. D.: ECOSYSTEM OBSERVATIONS AND INVESTIGATIONS OF EFFECTS OF FULLY PROTECTED MARINE ZONES IN THE FLORIDA KEYS NATIONAL MARINE SANCTUARY
2:00 pm	Armstrong, R. A.; Garcia, J. R.; Garcia-Moliner, G.; Singh, H.: THE DEEP HERMATYPIC (ZOOXANTHELLATE) CORAL REEF HABITAT OF THE US CARIBBEAN: ADDRESSING THE NEEDS OF ECOSYSTEM-BASED MANAGEMENT
2:15 pm	Coles, S. L.: MANAGEMENT OF INTRODUCED INVASIVE SPECIES IN THE TROPICAL PACIFIC*
2:30 pm	Ballantine, D. L.; Ruiz, H.: MACROALGAL SPECIES DYNAMICS IN TROPICAL ATLANTIC CORAL REEF HABITATS: TEMPORAL VARIATION AND FLORISTIC INDICATION OF PERTURBATION
2:45 pm	Pait, A. S.; Whitall, D. R.; Christensen, J. D.; Jeffrey, C. F.; Caldow, C.: CHEMICAL CONTAMINATION AND CORAL HEALTH IN SOUTHWEST PUERTO RICO: APPLICATION OF AN ASSESSMENT FRAMEWORK TO ENHANCE THE MANAGEMENT OF CORAL REEF RESOURCES
3:00 pm	Walker, B. K.; Dodge, R. E.; Gilliam, D. S.: CORAL REEF BURIAL IN SOUTHEAST FLORIDA
3:15 pm	Richards, V. P.; DeBiase, M. B.; Shivji, M. S.: GENETIC CONNECTIVITY AND BIODIVERSITY IN THREE CORAL REEF COMMENSAL INVERTEBRATES AND THEIR HOST SPONGE
3:30 pm	Winters, G.; Beer, S.; Loya, Y.; Blekhman, A.; Holzman, R.: PHOTOGRAPHIC DETERMINATION OF CHLOROPHYLL CONTENT IN CORALS: IMPLICATIONS FOR MONITORING

**TS-G04:
"GENOMICS" WITHOUT A GENOME**

Chair(s):	Sonya Dyrhman, sdyhrman@whoi.edu Deana Erdner, derdnner@whoi.edu
Location:	Sidney
11:00 am	Lidie, K. B.; Van Dolah, F. M.: FUNCTIONAL GENOMICS IN THE DINOFLAGELLATE KARENIA BREVIS: INSIGHTS INTO GENE REGULATION FOLLOWING ACUTE AND CHRONIC STRESS*
11:15 am	Li, X.; Oin, L.: MARINE MICROBIAL DIVERSITY AND METAGENOMICS: PROGRESS AND PROSPECTS
11:30 am	Schryver, J. C.; Brandt, C. C.; Wu, L.; Zhou, J. Z.; Palumbo, A. V.: LOCALLY LINEAR EMBEDDING ANALYSIS OF MARINE MICROBIAL FUNCTIONAL GENE ARRAY PROFILES
12:00 pm	Hibbeler, S.; Milinski, M.; Becker, S.: NEW MOLECULAR TOOLS TO STUDY THE INFECTION-DEPENDENT MHC EXPRESSION IN THREE-SPINED STICKLEBACK GASTEROSTEUS ACULEATUS
12:15 pm	Bruhn, A.; LaRoche, J.; Richardson, K.: EMILIANIA HUXLEYI - DIFFERENTIAL EXPRESSION OF GENES INVOLVED IN NITROGEN METABOLISM AND PHOTOSYNTHESIS
2:00 pm	Dyrhman, S. T.; Haley, S. T.; Birkeland, S. R.; Wurch, L. L.; Cipriano, M. J.; McArthur, A. G.: SERIAL ANALYSIS OF GENE EXPRESSION FOR GENE DISCOVERY AND TRANSCRIPTOME PROFILING IN THE COCCOLITHOPHORE EMILIANIA HUXLEYI
2:15 pm	Erdner, D. L.; Hackett, J.; Anderson, D. M.: TRANSCRIPTIONAL ANALYSIS OF NITROGEN AND PHOSPHORUS STRESS IN THE TOXIC DINOFLAGELLATE ALEXANDRIUM FUNDYENSE
2:30 pm	Hackett, J. D.; Bhattacharya, D.; Anderson, D. M.: EST GENOMICS WITH A DINOFAGELLATE AND A HAPTOPHYTE ALGA
2:45 pm	Cattolico, R. A.; Jacobs, M.; Rocap, G.; Zhou, Y.: CHLOROPLAST DNA SEQUENCING: SMALL GENOMES/BIG PAY-OFF
3:00 pm	Brown, C. M.; Lawrence, J. E.; Durnford, D. G.; Cockshutt, A. M.; Campbell, D. A.: MEASURING CORE PROTEOMES TO UNDERSTAND PHYTOPLANKTON ECOPHYSIOLOGY

FRIDAY

(*) represents Invited presentations

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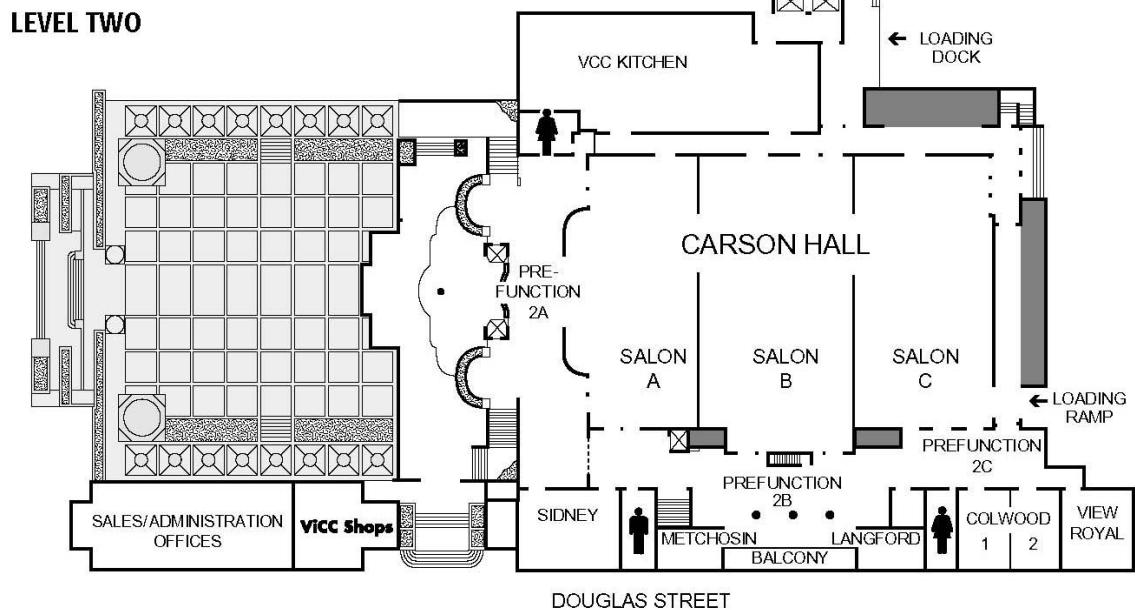
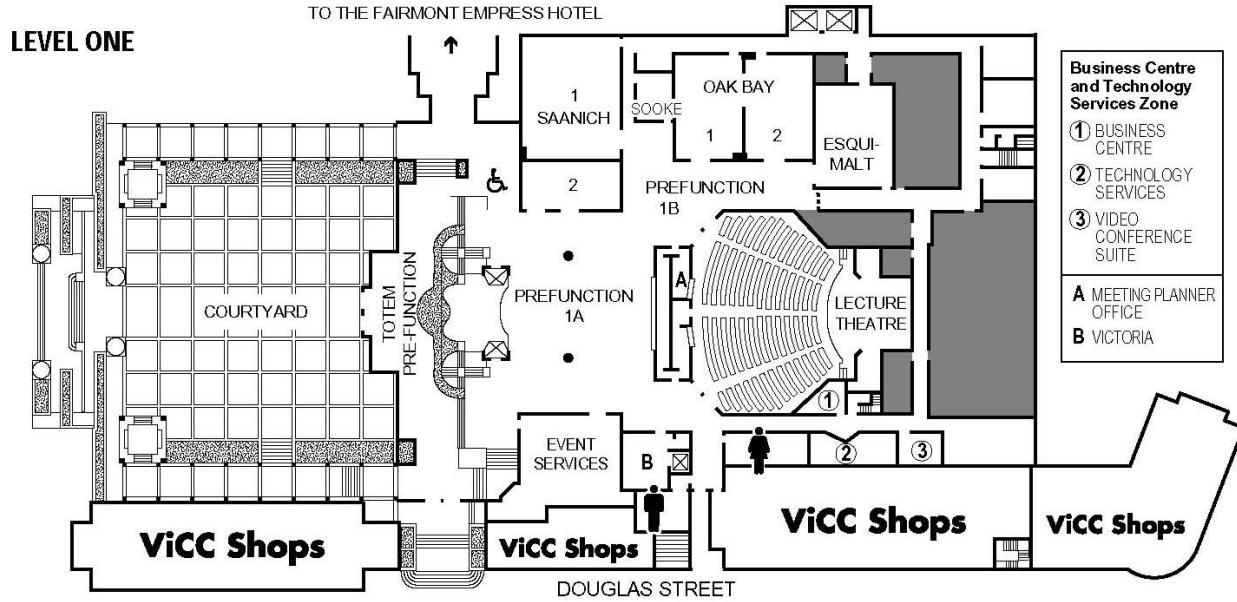
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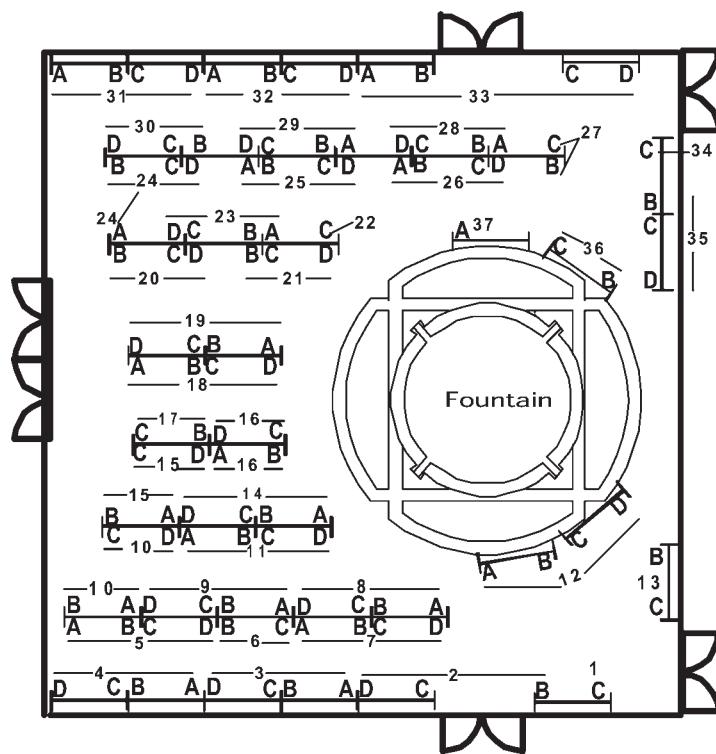
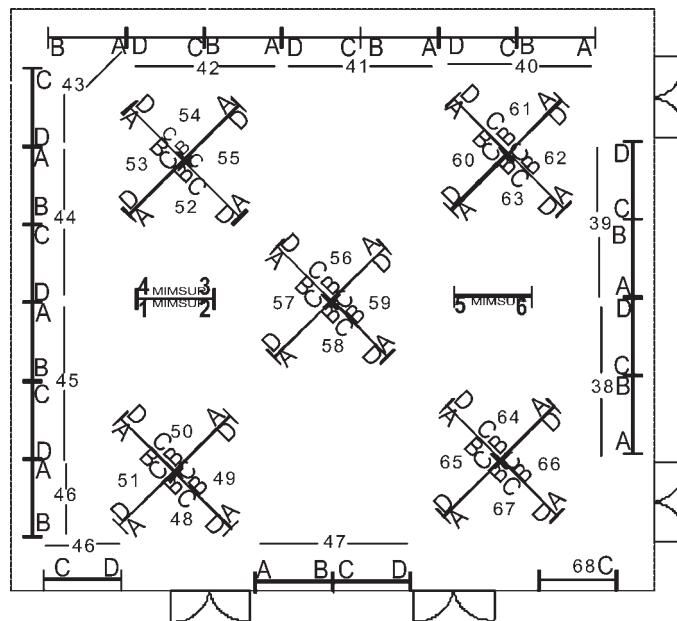
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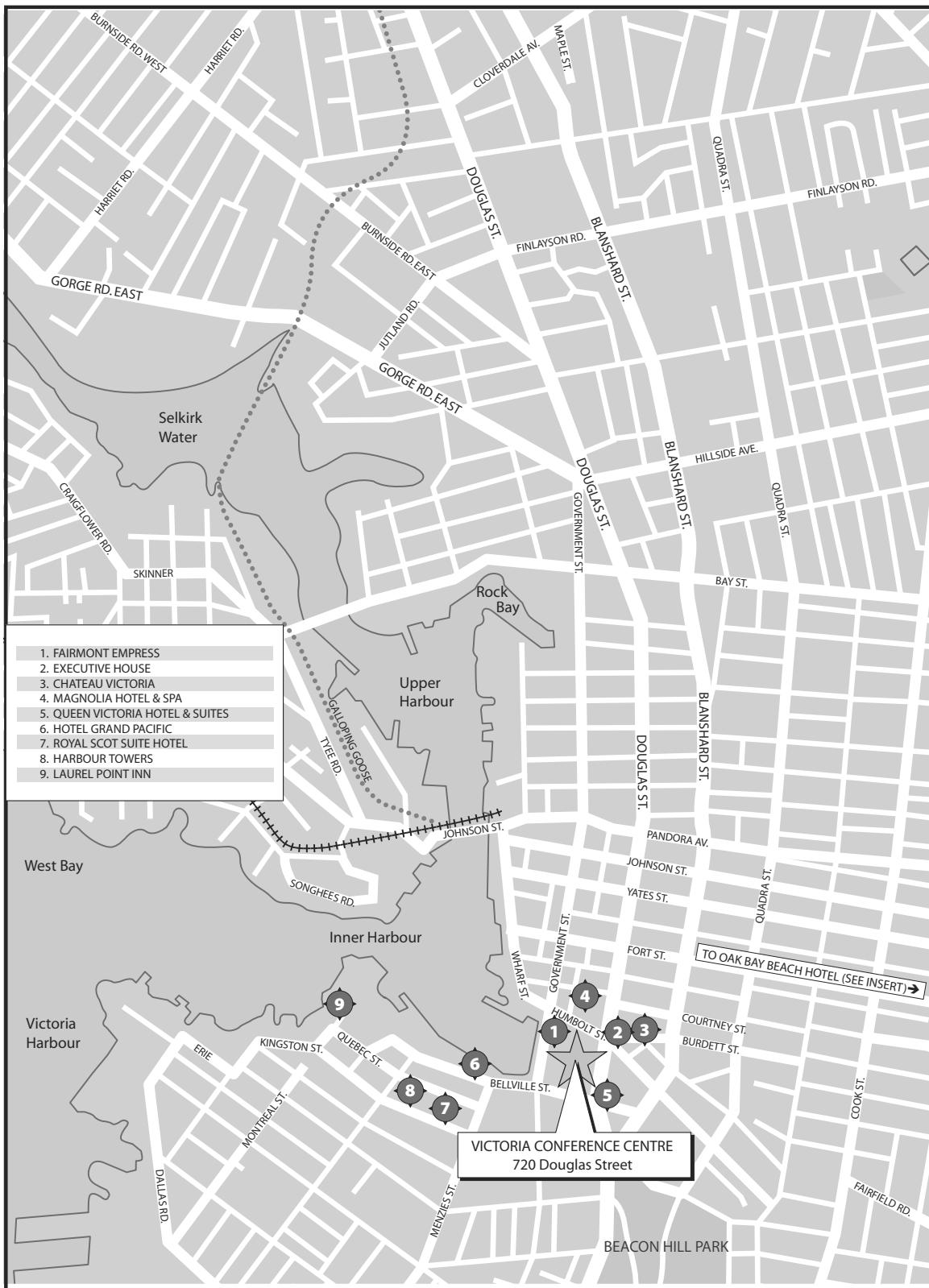
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MAP - VICTORIA CONFERENCE CENTER



MAP - POSTER SESSIONS**COURTYARD****UPPER COURTYARD**

MAP - DOWNTOWN VICTORIA



ASLO 2006 Summer Meeting Registration Form

If you are unable to register electronically on the web at <http://www.aslo.org/victoria2006>, please mail completed registration form and payment to: ASLO, 5400 Bosque Boulevard, Suite 680, Waco, Texas 76710-4446, USA. Registrations complete with purchase order or credit card information that are not accompanying an abstract submission can be faxed to: 254-776-3767.

Please make checks payable in U.S. dollars and drawn on a U.S. bank to: ASLO

Please print or type.

LAST NAME	FIRST NAME	MIDDLE INITIAL
NAME FOR BADGE		
INSTITUTE OR ORGANIZATION		
DEPARTMENT OR FIRST ADDRESS LINE		
LAST ADDRESS LINE		
CITY	STATE/PROVINCE	ZIP
E-MAIL	PHONE	FAX

- I am a member of ASLO. I am a member of a co-sponsoring society:
 International Society for the Study of Harmful Algae Aquatic Plant Management Society
 American Fisheries Society Society of Canadian Limnologists/Société canadienne de limnologie

Fees (in U.S. dollars and per person):

- | | | |
|---|---|-------|
| <input type="checkbox"/> ASLO Members (received on or before May 5, 2006) | \$350.00 USD | _____ |
| <input type="checkbox"/> Non-Members (received on or before May 5, 2006) | \$450.00 USD | _____ |
| <input type="checkbox"/> ASLO Student Members (received on or before May 5, 2006) | \$250.00 USD | _____ |
| <input type="checkbox"/> Non-Member Students (received on or before May 5, 2006) | \$350.00 USD | _____ |
| <input type="checkbox"/> Spouse/Guest (received on or before May 5, 2006. Spouses/guests are not admitted to the sessions.) | \$100.00 USD | _____ |
| Spouse/Guest Name: _____ | | |
| <input type="checkbox"/> One-Day Registrations (received on or before May 5, 2006) | \$200.00 USD | _____ |
| <input type="checkbox"/> Late Fee (Must be added to all registrations that are received after May 5, 2006) | \$60.00 USD | _____ |
| <input type="checkbox"/> Fun Run (Sunday, June 4, 2006) | # of Entries @ \$20.00 USD per person = | _____ |
| <input type="checkbox"/> Fun Run T-shirts (Please indicate number of each size below) | # of T-shirts @ \$15.00 USD per shirt = | _____ |
| Small: _____ Medium: _____ Large: _____ X-Large: _____ XX-Large: _____ | | |
| <input type="checkbox"/> Volleyball Tournament (Wednesday June 7, 2006) | # of Teams @ \$25.00 USD per team = | _____ |

Total in U.S. Dollars _____

Payment:

- Amount Enclosed
 Bill My Organization. (You must submit a purchase order.)
 Credit Card Payment
 Visa MasterCard American Express

NAME ON CARD	
CARD NUMBER	EXP. DATE
SIGNATURE	

Confirmation:

A confirmation will be sent to the e-mail address on this form unless you specify otherwise.

I prefer that my registration confirmation be sent via:

- Fax Mail

Special Needs:

If you have a disability or limitation that may require special consideration in order to fully participate, please contact the meeting's planning organization to see how we can accommodate your needs. Call 1-800-929-2756 (USA, Canada & Caribbean) or 254-399-9635 (All other countries) or contact via e-mail at business@aslo.org

ASLO 2006 Summer Meeting Hotel Accommodation Form (Do not send with meeting registration. Send directly to hotel.)

ASLO has selected nine hotels, all within walking distance of the Victoria Conference Centre. This form is designed to assist you in making your hotel reservations via fax or mail. You also can call the hotel of your choice directly. If you prefer to make your reservations via phone, please specify when calling that you are entitled to the ASLO Room Block rate.

The cut-off date for each hotel is shown on the hotel listing in this brochure. Please note the appropriate cut-off date and make your reservations accordingly so that you will be assured of the special "ASLO Room Block" rate at that hotel. Reservations will be accepted on a first-come, first-serve basis. It is important that you make your reservations early because June is the high season in Victoria, and availability and rates will be affected after the cut-off date.

How to Reserve a Room in Victoria by Using this Form

All room reservations must be made directly with the hotel of your choice. Do not send this form along with your meeting registration and/or abstract submission. It must be completed and sent directly to the hotel. Each hotel's mailing address and fax number are included in this brochure. Please complete one form for each room requested. All rates shown in the brochure are in Canadian dollars.

In order to process your reservation, either a credit card, check, or money order is required to guarantee your reservation for the first night. After your hotel reservation has been processed, you will receive a confirmation from the hotel.

HOTEL NAME

HOTEL FAX NUMBER

HOTEL PHONE NUMBER

Block Information: ASLO 2006 Summer Meeting Room Block

Rate for Single: _____ Rate for Double: _____ Other: _____

Reservation Name: _____ Names of other guests in the room: _____

of Adults: _____ # of Children: _____ # of Beds: _____

Address for sending confirmation

STREET ADDRESS OR P.O. BOX

CITY

STATE/PROVINCE

ZIP/POSTAL CODE

COUNTRY

PHONE

FAX

E-MAIL ADDRESS

 Prefer Smoking Prefer Non-Smoking Arrival Date: _____ Departure Date: _____

Special Requests:

 I will require a handicapped accessible room.

Payment

 Check or money order enclosed. Amount:

CREDIT CARD TYPE

CARDHOLDER'S NAME

ACCOUNT NUMBER

EXPIRATION DATE

SIGNATURE

Please contact the hotel directly if you need to make changes to your reservation prior to the meeting or if you need to cancel your reservation. Cancellation policies vary from hotel to hotel, so please contact your preferred hotel directly if you have any questions.



2008 Ocean Sciences Meeting

March 2-7, 2008 · Orlando, Florida · www.aslo.org/orlando2008

Co-sponsored by the American Society of Limnology and Oceanography,
the American Geophysical Union and The Oceanography Society

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Advancing the science of limnology and oceanography

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