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## Organizers

**The Local  
Organizing  
Committee**

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Bo Riemann (co-chair), National Environmental Research Institute (bri@dmu.dk)  
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for the  
ASLO 2000  
meeting**

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Susan Kilham, Drexel University, USA (susan-kilham@drexel.edu)

**ASLO elected  
officers  
and board  
of directors**

*President:* Thomas C. Malone, University of Maryland  
*Secretary:* Asit Mazumder, University of Victoria  
*Treasurer:* Russel A. Moll, University of Michigan  
*Past-president:* Diane M. McKnight, University of Colorado  
*President-elect:* William M. Lewis, Jr., University of Colorado  
*Members-at-large:* Louis Legendre, Laval University  
Saran Twombly, University of Rhode Island  
Michael J. Vanni, Miami University  
John J. Cullen, Dalhousie University  
Heidi M. Nepe, Massachusetts Institute of Technology  
John J. Melack, University of California, Santa Barbara  
James W. Moffett, Woods Hole Oceanographic Institution  
Margaret M. Squires, Simon Fraser University

**Professional  
Staff**

*Executive Director:* Jonathan T. Phinney,  
*Business Manager:* Helen Schneider

**Editors**

*Editor-in-chief:* Everett J. Fee (Limnology & Oceanography)  
*ASLO web editor:* Paul Kemp

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American Society of Limnology and Oceanography  
5400 Bosque Blvd., Suite 680  
Waco, TX 76710-4446 USA

## Welcome

## Welcome

ASLO and the Local Organizing Committee welcome you to this first ASLO meeting outside North America. The theme of the meeting is Research Across Boundaries and the Special Session Conveners and all those submitting abstracts have in a creative way taken advantage of the broad title. The Program Committee has by endorsing the current list of plenary speakers and special sessions also helped to create an exciting agenda for the meeting.

To have an ASLO meeting outside North America is a challenge and an experiment. Many procedures had to be different from those we are used to and the most uncertain questions were, how many will show up? and will the meeting become a European event? With about 1400+ participants and about 35% from USA and Canada the meeting has from this perspective become a success. Compared with our expectations late 98 and early 99 (some called it dreams) we now have about double the number of people hoped for. This has not been without troublesome moments.

We invite you to join the meeting with an open mind, listen to the many exiting talks, learn from the tutorials in the special sessions and plenary talks, participate in the discussions at the various workshops, and to enjoy the about 600 posters organized in two poster sessions Tuesday and Thursday afternoon.

You may also find time to enjoy Copenhagen.

## ASLO Business Meeting

The business meeting is scheduled for Monday 17.30 in Hall A2

## Future ASLO meetings

For more information about the meetings, go to the ASLO website: <http://www.aslo.org>

If you are interested in organizing a future ASLO meeting, contact:  
Asit Mazumder, ASLO Meetings Committee Chair, University of Victoria.  
[mazumder@uvic.ca](mailto:mazumder@uvic.ca)

### **Aquatic Sciences (ASLO) 2001 meeting B making connections in the twenty-first century.**

#### **Feb. 12-16, 2001 B Albuquerque, New Mexico**

Meeting co-chairs: Saran Twombly, Univ. of Rhode Island ([twombly@uri.edu](mailto:twombly@uri.edu))  
Joe Ackerman, Univ. Northern British Columbia ([Ackerman@unbc.ca](mailto:Ackerman@unbc.ca))

### **Aquatic Sciences (ASLO) 2002 meeting**

#### **Summer 2002 B Victoria, British Columbia, Canada**

### **Aquatic Sciences (ASLO) 2003 meeting**

#### **Feb. 10-14, 2003 - Albuquerque, New Mexico**

### **Nutrient over-enrichment in coastal waters: Global patterns of cause and effects. October 11-13, 2000.**

A SCOR, ASLO, and ERF jointly sponsored symposium. Look at the NAS, ASLO, or ERF websites

## General information

### Sponsors of the meeting

The City of Copenhagen (join the reception at the City Hall)  
SAS (Scandinavian Airline System)  
The Faculty of Natural Sciences, University of Copenhagen  
The Faculty of Natural Sciences, University of Aarhus  
The Carlsberg Foundation (scientists from developing countries)  
The Danish Ministry of Foreign Affairs, DANIDA and Office of Eastern Europe  
(scientists from Eastern Europe and developing countries)  
Joint Committee of the Nordic Natural Science Research Councils (young scientists  
from the new Baltic states)  
Göteborgs Marina Forskningscentrum (GMF)  
Ocean Sciences Division of the National Science Foundation, and NOAA (minority program)



### Exhibition

Meet the companies and research institutions in Hall A1. In the hall you will also find the posters. The exhibition will be open: Monday 5 June to Thursday 8 June 08.30-17.00 hrs. and Friday 9 June 08.30-14.00 hrs.

The following companies and research institutions are represented:

The Danish Fisheries Research Institute  
The National Environmental Research Institute, Denmark  
The Danish Environmental Agency  
Unisense  
KC-Equipment, Denmark  
Hydros-Bios Apparatebau GmbH  
bbb-Moldaenke  
Turner design  
Ophelia Publications  
Uwitec - Richard Niederreiter  
Blackwell Science  
Heinz Walz  
National Research Council, Canada  
Danish Hydraulic Institute  
European Commission, Research Directorate  
U.S. Ocean  
Environmental Isotope Laboratory  
Estuarine Research Federation, USA  
Freshwater Biological Association  
American Society of Limnology and Oceanography  
Alec Electronics Co Ltd., Japan  
Universitetsbogladen, Denmark  
Kluwer Academic Publisher, The Netherlands

### Conference Venue

The conference is taking place in

**Bella Center**  
Center Boulevard  
DK-2300 Copenhagen S  
Denmark  
Telephone: 3252 8811  
Fax: 3251 9656

### Room location

The following rooms will be used:

Ground floor:

A1: Exhibition and poster area. Coffee and lunch is served here.

A2: Plenary Hall and session room.

A3: Session room

Auditorium: Session room

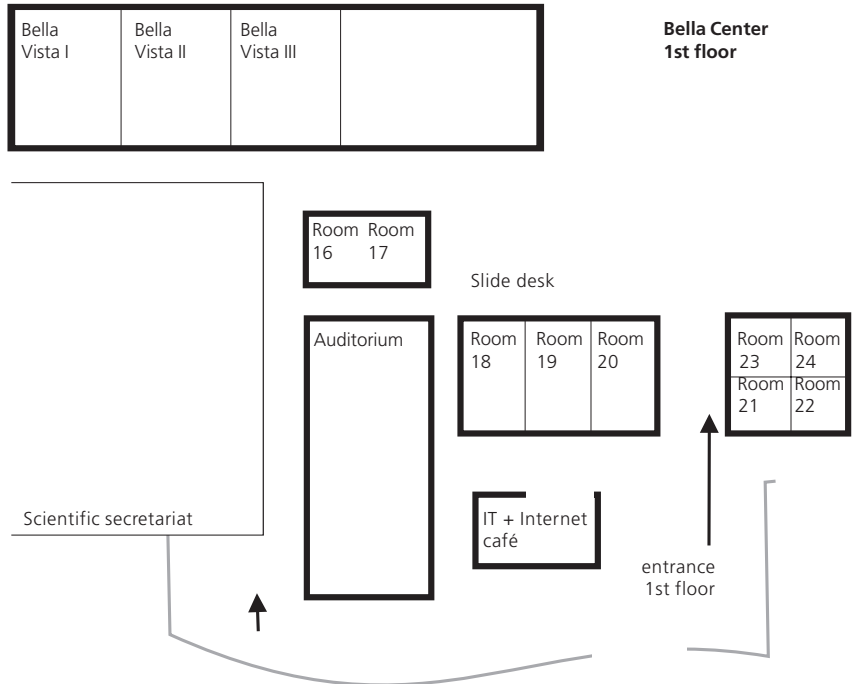
Foyer: Registration and hospitality desk, cloakroom, telephones and toilets.

### 1st floor

Room 16: Slide desk  
Room 17-22: Session room  
Bella Vista I: Session room  
Bella Vista II+III: Session room  
Room 2: Scientific Secretariat

ASLO 2000 - PROGRAM

# Map of room locations



*Before and after the conference:*

**DIS Congress Service  
Copenhagen A/S**

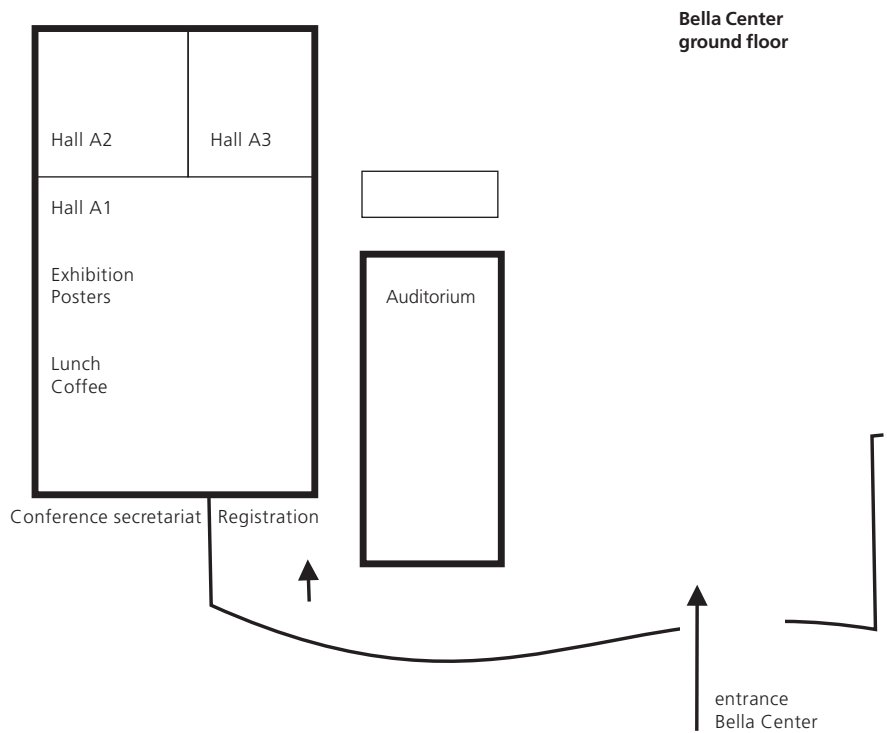
Herlev Ringvej 2 C  
2730 Herlev  
Denmark

Tel: +45 4492 4492  
Fax +45 4492 50950  
E-mail: aslo@discongress.com

**DIS Congress Service  
Copenhagen A/S**

Bella Center  
Center Boulevard  
DK-2300 Copenhagen S

Tel: 3247 2952



## Practical information

### Copenhagen

Copenhagen is among the world's ten most visited congress cities. Facilities for professional congresses and meetings are naturally an important reason for this high placing on the world ranking list. But the city also has an enormous number of places of interest, attractions and cultural events. Being able to switch off and find inspiration between long days of meetings is a necessity for being able to achieve a successful event. Accompanying persons will have a unique opportunity to experience the capital of Europe's oldest kingdom and its surroundings.

Copenhagen was established in 1167, when Bishop Absalon built a citadel and walls to protect the small settlement of Havn, which was important for landing herring catches from Øresund. The ruins of Absalon's citadel can now be seen within Christiansborg Castle. Throughout the Middle Ages, Copenhagen grew rapidly, and in 1343, King Valdemar made it the capital city. During the fifteenth century, Copenhagen became the most important city in the country. Trade thrived, the university was founded in 1479, and the city became the royal seat of residence. Copenhagen's medieval atmosphere lives on in the Latin quarter around the university.

Today, Copenhagen is a pleasant, bustling capital city, which in 1996 was named as the European city of culture. It is fast becoming a driving force in Europe in terms of environment, business and living standards.

The city has a lot of beautiful and interesting sites. Amalienborg (residence of the Danish royal family), Christiansborg (housing the government), Tivoli, Nyhavn, Strøget, the Little Mermaid, the Old Stock Exchange, Rosenborg Castle, the Navy Church etc. All sites are located in the city area and can easily be reached by foot.

The Danish people are friendly and the public atmosphere is relaxed and informal. Everyone speaks English (it's a required subject in our schools) and visitors will find, that they get a good service and good value at restaurants, hotels and shops.

### How to get to Bella Center and to Copenhagen city

Bella Center is located approx. 6 kilometers outside the centre of Copenhagen. From the Central Station in Bernstorffsgade (opposite Tivoli Garden), bus no. 46 to Bella Center run every 20 min. Extra busses will run during rush-hours (morning and afternoon). A buscard allowing free use of the public bus- and train service from Monday 5 June to Friday 9 June within the city centre is available for each participant. You will find the buscard in the registration material along with your name badge etc. From Bella Center bus no. 46 leaves just outside the Main Entrance.

### Parking

Adjacent to the Bella Center there is plenty of parking space.

### Coffee and lunch

Coffee will be served in the poster and exhibition area, Hall A1 at approx. 10.30-11.00 hrs. and 15.30-16.00 hrs. every day. Lunch can be bought in A1 as well. Bella Center will sell lunchboxes with sandwiches, fruit, cheese softdrinks etc. or you are welcome to visit the restaurant "Mart Club".

### Registration hospitality desk - opening hours

The Registration / Hospitality Desk is located in the foyer in front of Hall A1. The opening hours are:

Sunday, 4 June	15.00-20.00 hrs.
Monday, 5 June	07.30-17.00 hrs.
Tuesday, 6 June	08.00-17.00 hrs.
Wednesday, 7 June	08.00-14.00 hrs.
Thursday, 8 June	08.00-17.00 hrs.
Friday, 9 June	08.00-15.00 hrs.

Participants are kindly asked to collect their badge, tickets, programme and abstract book during the above mentioned opening hours.

## Special events

### **Sunday June 4**

- 10.00 - 17.00 Workshop 5 in Room 19: Sensor Technology for Remote Interactive Experiments in Aquatic Environments
- 10.00 - 17.00 Workshop 7+2 in Room 20: Development and application of tracer methodologies for marine and freshwater biogeochemical studies
- 17.00 - 19.00 Get-together Reception in the foyer

### **Monday 5 June**

- 08.30 - 10.30 Opening in Hall A2  
Welcome by Birthe Weiss, Minister for Research and Information Technology
- ASLO Awards  
Plenary talk by Allan G. Hildrew
- 11.00 - 17.00 Student Session in Room 19
- 17.30 - 19.30 ASLO Business Meeting in Hall A2

### **Tuesday 6 June**

- 08.30 - 09.30 Plenary talk in Hall A2 by Carlos Duarte
- 13.30 - 15.30 Workshop 8 in Room 17: Application oriented marine science and the role of ICES
- 13.30 - 15.30 Workshop 6 in Room 18: Fixed links across the Danish Straits, a challenge for science and management
- 16.00 - 16.15 Sven Auken, Minister for Environment and Energy opens the first Poster session in Hall A1
- 16.15 - 18.00 First Poster session in Hall A1 (all presenters of posters in Section 1 are present)
- 17.00 ESLO meeting in Room 20 (see ESLO message below)

### **Wednesday 7 June**

- 08.30 - 09.30 Plenary talk in Hall A2 by Mary I. Scranton
- 12.30 - 13.15 Lunch talk in Room 19: Brian Steves: Workshop on invasive species databases

### **Thursday 8 June**

- 08.30 - 09.30 Plenary talk in Hall A2 by Tom Fenchel
- 13.30 - 15.30 Workshop 3 in Room 17: Ocean Science Education Partnerships: How can research institutions impact informal education?
- 16.00 - 18.00 Poster Session (all presenters of posters in Section 2 are present)

### **Friday 9 June**

- 08.30 - 09.30 Plenary talk in Hall A2 by Marten Scheffer
- 16.00 Meeting close

## Practical information

### Workshop 1

The Response of Northeast and Northwest Atlantic Shelf Ecosystems to Climate Variability and Change. This workshop is scheduled for Friday Evening and Saturday morning and takes place at the University of Copenhagen, see the workshop program.

Saturday: Field trip to Max-Planck Institute (ticketed event)

### Social Program 17.00 - 19.00

#### Sunday 4 June

Get-together reception at Bella Center (incl. in registration)  
A light buffet with Danish specialities, beer and wine will be served.  
*Dress: Informal.*

### 18.00 - 19.30

#### Wednesday 7 June

Reception at the City Hall of Copenhagen  
The reception is hosted by the Lord Mayor of Copenhagen. It will start at 18.00 hrs. exactly and participants are therefore kindly asked to be precise. A light buffet will be served.  
*Dress: Informal.*  
Tickets are provided during registration.  
Important: Due to restrictions from the fire authorities, the number of invitations has been reduced. Please go to the Registration desk and collect an invitation if you wish to participate. We ask for your understanding and apologize for any inconvenience caused.

### 19.00 - 21.00

#### Tuesday 6 June

Boattrip and Dinner (optional)  
A unique way to see many of the old beautiful sites in Copenhagen while enjoying a 2 course dinner on board one of the canal boats.  
*Dress: Informal*  
Price: DKK 475 / person incl. wine.

### ESLO

#### European Society of Limnology and Oceanography Information Meeting

An information meeting of the European Society of Limnology and Oceanography (ESLO) will be held on Tuesday, 6 June 2000 at 1700 in Room 20. ESLO is presently being formed as a membership based non-profit organisation to promote multi-disciplinary research across the range of aquatic sciences and to provide a forum for communication for European limnologists and oceanographers. An open discussion regarding the intent, goals and form of the Society will occur and a presentation of how the interim board of ESLO intends to move forward with building this organisation.  
Further information can be found at <http://www.eslo.org>.

### ASLO minorities programme

This year will be the convening of the 11th annual ASLO Minorities Program. The initiative is a joint undertaking between Hampton University and ASLO, and is funded by the Ocean Sciences Division of the National Science Foundation, and for the first time this year, NOAA. The addition of NOAA funding is due to the hard work of Sue Weiler, and will be used to support more graduate students. Minority students will attend a pre-conference workshop, field trip, and give presentations in a student symposium. Dr. Henry Williams will give the keynote address at the pre-conference workshop, at 6:30 PM on June 3. The Sunday will be devoted to fieldtrips to Freshwater and Marine laboratories, including ship and boat time.

All ASLO participants are invited to the student symposium, to be held at Monday 5 June from 11.00 a.m. in Room 19 of the Bella Center.

The students will be aided in navigating their way through the conference by ASLO members who have volunteered to be meeting mentors. Anyone wishing to serve as a



## Practical information

meeting mentor for a few of the students should contact: Dr. Ben Cuker, Marine Science Department, Hampton University, Hampton, VA 23668, phone (757) 727-5884, FAX (757) 727-5740, benjamin.cuker@hamptonu.edu

### **Outstanding Student Poster Awards**

ASLO will present awards for the best 10% of the 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 first author students will be considered for the student poster awards. There is no need to apply. We encourage senior participants to enter the Poster Award Selection Committee. The judging committee is headed by Bente Lomstein and the award winners will be announced Thursday afternoon and Friday morning at the plenary session.

### *Meeting rooms*

#### **Instructions for oral sessions, Poster presenters and session chairs**

All meeting rooms will be equipped with a slide projector, an overhead projector, a pointer, and a screen. If you have requested additional equipment while submitting your abstract please confirm this with the staff at the registration/information desk. You will be charged accordingly.

### *Oral sessions*

Each presenter is allotted 15 min for hers/his presentation including questions. This will be strictly enforced to facilitate movements between other sessions/events. Please allow at least 3 min for questions/discussion.

### *Slide desk*

A slide desk is located in "Room 16" at the Bella Centre and will be open during the following hours:

Sunday 4 June 15.00 - 20.00 hrs.

Monday 5 June - Thursday 8 June 07.30 - 18.00 hrs.

Friday 9 June 07.30 - 16.30 hrs.

Carrousel, labels etc. will be available. Presenters are responsible for preparing their own carrousel and must finally hand it to the slide desk staff not later than 1 1/2 hour before their session starts. We encourage all speakers to deliver their slides the day before their presentation. All slides will be taken to the appropriate sessions by the staff. Please remember to pick up your slides at the end of the day at the slide desk.

### *Oral session chairs*

Chairs must strictly maintain the schedule so it is possible to move among the nine concurrent sessions. Timers are present in each session room and should be used. It is recommended to notify speakers after 10 min. If a presentation is cancelled, the time slot can be used to discussions or a break, but NOT for the next presentation. No exceptions.

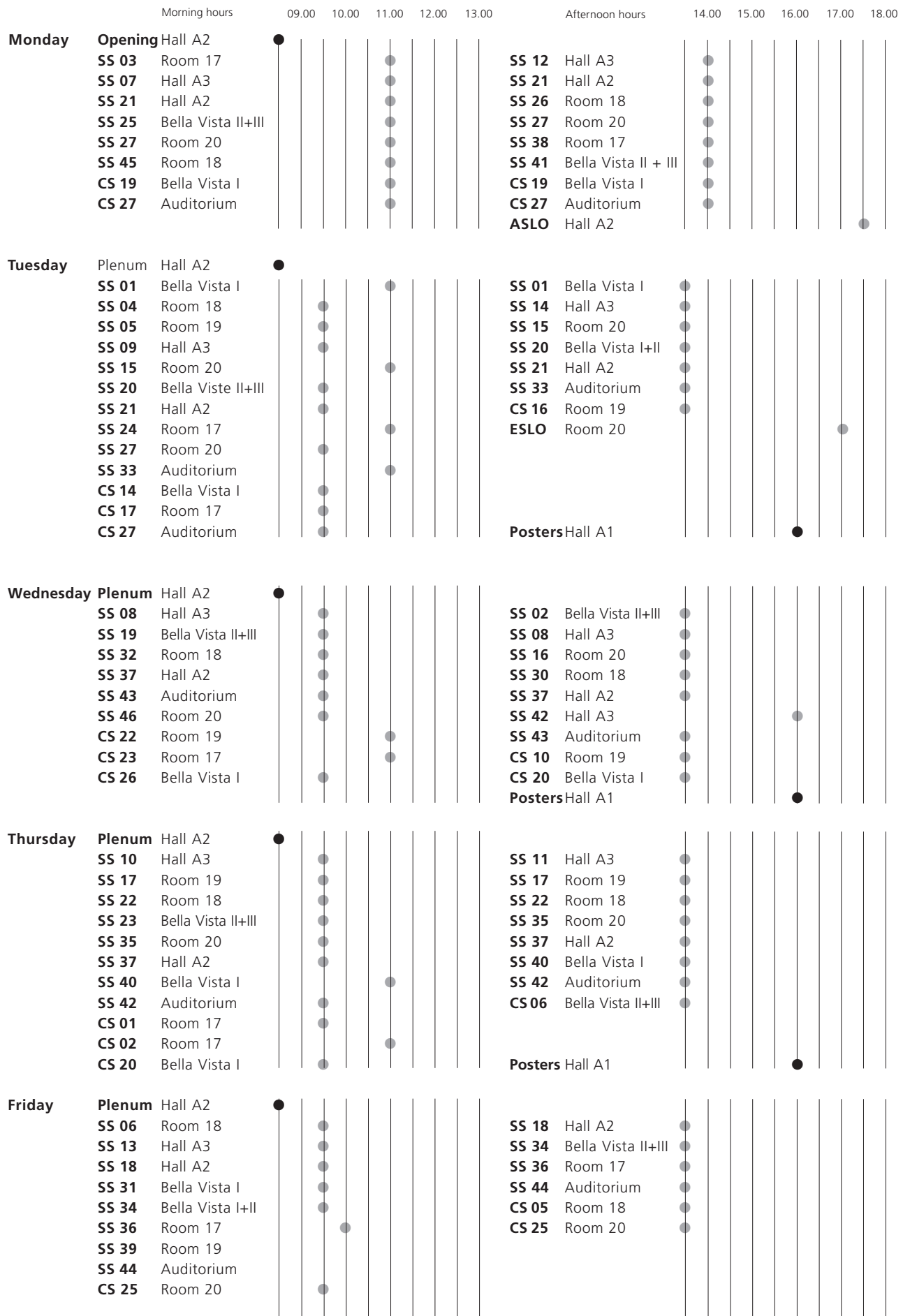
### *Poster sessions*

There are two poster sessions: Tuesday (June 6) between 16.00 and 18.00 and Thursday (June 8) between 16.00 and 18.00. There will be a cash bar during the poster sessions just outside the entrance to Hall A1 (exhibition and poster area).

Poster presenters have received information about which session their poster is allotted to by the letter of acceptance. Lists of poster presentations can be seen in the scientific program. Each poster board is 1.39 m (height) by 1.23 m (width). Only pins may be used for mounting. These are available in the poster area and at the Registration desk.

Posters for the Tuesday session should be mounted Sunday afternoon (15.00-20.00 hrs.) or Monday morning and must be removed Wednesday (June 6) before 13.30.

Posters for Thursday session must be mounted Wednesday (June 6) between 13.30 and 18.00 and must be removed Friday (June 9) at 16.00.



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## Monday June 5

### Hall A2

Opening of the ASLO 2000 meeting

08.30 - 08.35

#### **Welcome to Copenhagen**

Thomas C Malone, President of ASLO

Morten Søndergaard (co-chair of ASLO 2000)

08.35 - 08.45

#### **Opening**

Birthe Weiss, Minister for Research and Information Technology

08.45 - 09.30

#### **ASLO 2000 Awards**

Lifetime Achievement Award: Ramon Margalef, Universidad de Barcelona.

*Presented by Carlos Duarte, Instituto Mediterráneo de Estudios Avanzados, CSIC-Univ, Palma de Mallorca, Spain*

G. Evelyn Hutchinson Award: Paul Falkowski, Rutgers University.

*Presented by Edward Laws, University of Hawaii, USA*

Lindeman Award: Dennis McGillicuddy, Woods Hole Oceanographic Institute.

*Presented by Peter Franks, Scripps Institute of Oceanography, USA*

09.30 - 10.30

#### **Plenary talk**

chaired by Wilhelm Granéli

#### **Allan G. Hildrew**

School of Biological Sciences, Queen Mary & Westfield College, University of London

#### **DISCOVERING THE HABITAT BOUNDARIES FOR AQUATIC INSECTS**

##### *Abstract*

*Freshwaters are patchy habitats, often separated by long distances or substantial barriers. Dispersal between them is poorly understood but, for aquatic insects, is presumably achieved mainly by the terrestrial adult. It is likely that dispersal between catchments is a relatively rare event, at least for the weaker flying species, and is extremely difficult to observe using conventional techniques, and genetic markers offer the best opportunity to measure its extent. I will review the results of conventional and genetic studies of the spatial population structure of aquatic insects, at both the within- and between-catchment scale. Early results for a patchily distributed caddis fly suggest that the number of breeding females in local larval habitats is small and dispersal sufficient to homogenise genetically local populations separated by distances less than about 50 miles.*

17.30

ASLO Business meeting

#### **Scientific programme, Monday June 5**

10.30 - 11.00

Coffee break

Morning sessions - page 12 to 19

13.00 - 14.00

Lunch

15.30 - 16.00

Coffee break

Afternoon sessions - page 20 to 27

Monday June 5 - morning

**Room 17**

Special session

**11.00 - 12.45**

**SS 03 Astrolimnology: Measuring the quality of lakes from heaven**

Chairman: Patrick L Brezonik

11.00 - 11.30

03-01 APPLICATIONS OF REMOTE SENSING AND SATELLITE IMAGERY IN LIMNOLOGY: BASIC CONCEPTS AND TECHNIQUES  
P Brezonik, J Schalles

11.30 - 11.45

03-02 REFLECTANCE SPECTROSCOPY AND PATTERNS OF OPTICALLY ACTIVE CONSTITUENTS IN TURBID AND HIGH DOC RIVER AND COASTAL WATERS OF GEORGIA (USA)  
J Schalles, Y Yacobi, M Takacs, J Alberts

11.45 - 12.00

03-03 ANALYSIS OF LAKE QUALITY TRENDS BY SATELLITE IMAGERY IN THE ALEXANDRIA LAKES AREA (ALA) OF MINNESOTA, USA  
E Day, P Brezonik

12.00 - 12.15

03-04 REMOTE SENSING OF VIRALLY INDUCED CYANOBACTERIAL COLLAPSE IN SHALLOW, EUTROPHIC LAKES  
H Gons

12.15 - 12.30

03-05 INTEGRATING REMOTE SENSING MODELLING AND IN SITU DATA IN THE MONITORING OF (TOXIC) ALGAL BLOOMS  
B Ibelings, R Vos, F Los

12.30 - 12.45

03-06 REMOTE MONITORING INLAND WATER QUALITY: POSSIBILITIES AND LIMITATIONS  
Y Yacobi, A Gitelson, J Schalles, D Rundquist

13.00 - 14.00

Lunch

## Monday June 5 - morning

**Hall A3**

Special session

**11.00 - 13.00**

### **SS 07 Sub-aquatic and sub-aerial biofilms- myth or reality**

Chairmen: W E Krumbein and D M Paterson

11.00 - 11.30

07-01 BIOFILMS MICROBIAL MATS, STROMATOLITES - A SYSTEMATIC AND HISTORICAL OVER VIEW -  
W Krumbein

11.30 - 11.45

07-02 SUBAERIAL BIOFILMS - PRINCIPLES AND ECOLOGY  
A Gorbushina

11.45 - 12.00

07-03 GROWTH AND SURVIVAL OF HARPACTICOID COPEPODS GRAZING ON BENTHIC MICROALGAE ASSEMBLAGES.  
M Caramujo, E Van der Grinten, W Admiraal

12.00 - 12.15

07-04 MICROBIAL COMMUNITIES IN ENVIRONMENTS OF CONTRASTING WATER AVAILABILITY  
WATER AVAILABILITY  
F Garcia-Pichel

12.15 - 12.30

07-05 EFFECTS OF COPPER TOXICITY ON THE PHOTOSYNTHETIC ACTIVITY OF RIVER BIOFILMS.  
C Barranguet, M Plans, W Admiraal

12.30 - 12.45

07-06 THE IMPORTANCE OF TRANSIENT BIOFILMS  
D Paterson

12.45 - 13.00

07-07 PRODUCTION OF EXTRACELLULAR POLYMERIC SUBSTANCES (EPS) BY THE BENTHIC DIATOM CYLINDROTHECA CLOSTERIUM IN RELATION TO IRRADIANCE AND TEMPERATURE  
K Wolfstein, L Stal

13.00 - 14.00

Lunch

Monday June 5 - morning

Hall A2

Special Session

11.00 - 13.00

**SS 21 Aquatic species invasions**

Chairmen: David Reid, Hugh MacIsaac and Gregory M Ruiz

11.00 - 11.30

21-01 INVASION BIOLOGY IN THE 21ST CENTURY: PATTERNS, MECHANISMS, AND CHALLENGES  
G Ruiz, P Fofonoff, J Carlton, M Wonham, A Cohen, A Hines

11.30 - 11.45

21-02 QUATIC INVASIVE SPECIES POLICY IN THE UNITED STATES: FROM LEGISLATION TO  
MOBILIZATION  
S J Yozell

11.45 - 12.00

21-03 THE POLITICAL AND SOCIAL CONTROL OF AN INVASIVE INTRODUCED SPECIES: THE CASE  
OF CAULERPA TAXIFOLIA IN THE NORTHERN MEDITERRANEAN SEA  
A Meinesz, T Thibaut

12.00 - 12.15

21-04 PONTO-CASPIAN MYSID, HEMIMYSIS ANOMALA, DISTURBS SILICON CYCLE IN THE  
BIESBOSCH WATER STORAGE RESERVOIRS (THE NETHERLANDS)  
H Ketelaars, C Carpentier

12.15 - 12.30

21-05 LONGITUDINAL SHIFTS IN ZOOPLANKTON COMMUNITIES IN THE OHIO RIVER (USA): DO  
ZEBRA MUSSELS AFFECT SPECIES STRUCTURE?  
J Jack, J Thorp

12.30 - 12.45

21-06 ERADICATING THE MUSSEL MYTILOPSIS SP. FROM AUSTRALIA  
N Bax

12.45 - 13.00

21-07 ROLE OF THE ALIEN SPECIES CERCOPAGIS PENGROI (CRUSTACEA: CLADOCERA) IN THE  
ZOOPLANKTON COMMUNITY OF THE GULF OF FINLAND (BALTIC SEA)  
I Telesh, P Bolshagin, P Krylov

13.00 - 14.00

Lunch

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ASLO 2000 - PROGRAM



## Monday June 5 - morning

**Bella Vista II+III**

Special session

**11.00 - 13.00**

### **SS 25 Ecological Processes and Ecosystems: Functioning towards water purification**

Chairmen: Sergei A Ostroumov, Steve McCutcheon and Christian Steinberg

11.00 - 11.30

25-01 ECOLOGICAL PROCESSES AND ECOSYSTEMS: FUNCTIONING TOWARDS WATER PURIFICATION  
S A Ostroumov

11.30 - 11.45

25-02 CLAY AND THE MOVEMENT OF METAL INTO FOOD FISHES  
O Lind, L D Valos-Lind

11.45 - 12.00

25-03 MICROBIAL VS. DISSOLVED HUMIC MATTER PHOTSENSITIZED DEGRADATION OF CYANOTOXINS  
C E Steinberg

12.00 - 12.15

25-04 EFFICIENCY OF HIGH AND LOW DIVERSITY TIDAL MARSH ECOSYSTEMS IN BUFFERING GROUNDWATER NITROGEN INPUTS  
J Stevenson, J Cornwell, K Sundberg, J Dewar

12.15 - 12.30

25-05 NITROGEN TRAPPING IN NATURAL AND RESTORED FORESTED FLOODPLAINS OF THE UPPER RHINE VALLEY  
I Brettar, J Sanchez-Perez, M Trémolières

12.30 - 12.45

25-06 COMPARISON OF PELAGIC AND LITTORAL MICROBIAL DEGRADATION POTENTIALS IN LAKE CONSTANCE  
H Güde, S Rolinski, M Sala

12.45 - 13.00

25-07 DEFINING A MODERN INTERFACE BETWEEN WATER QUALITY ENGINEERING AND AQUATIC ECOSYSTEMS RESEARCH  
S Ostroumov, S McCutcheon

13.00 - 14.00

Lunch

## Monday June 5 - morning

### Room 20

Special session

### 11.00 - 13.00

#### SS 27 Climate and Aquatic systems

Chairmen: Stephen C Maberly, Jean-Pierre Gattuso, Jeffrey Polovina and Keith Brander

11.00 - 11.30

27-01 CLIMATE CHANGE, WEATHER PATTERNS AND AQUATIC SYSTEMS  
S Maberly, J Gattuso

11.30 - 11.45

27-02 SEASONAL CHANGES IN THE SENSITIVITY OF PHYTO- AND ZOOPLANKTON TO  
SHORT-TERM AND LARGE SCALE WEATHER PATTERNS  
U Gaedke, D Straile, E B uerle

11.45 - 12.00

27-03 PHYTOPLANKTON COMMUNITY STRUCTURE IN A LARGE BOREAL LAKE IN RELATION TO  
CLIMATIC CONDITIONS AND CHANGES IN LAKE'S TROPHIC  
L Arvola, A Palom ki

12.00 - 12.15

27-04 HYDRODYNAMICS OF LAKE TANGANYIKA, EAST AFRICA: LAKE SURFACE WARMING AND  
DECREASE OF ANNUAL UPWELLING IN 1993-1996  
P Verburg, R Hecky

12.15 - 12.30

27-05 CLIMATE-DRIVEN CHANGES OF SPRING PLANKTON DYNAMICS, AND THE SENSITIVITY OF  
POLYMICTIC LAKES TO THE NORTH ATLANTIC OSCILLATION  
D Gerten, R Adrian

12.30 - 12.45

27-06 PREDICTING THE EFFECT OF CHANGING ATMOSPHERIC CO<sub>2</sub> ON SEAGRASS  
DISTRIBUTIONS  
S Palacios, R Zimmerman

12.45 - 13.00

27-07 SEASONALITY OF NUTRIENTS IN LAKE ERKEN - EFFECTS OF WEATHER CONDITIONS  
K Pettersson

13.00 - 14.00

Lunch

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ASLO 2000 - PROGRAM

## Monday June 5 - morning

### Room 18

Special session

11.00 - 13.00

#### **SS 45 Biogas cycling and emission along the aquatic continuum: From freshwater to coastal zone**

Chairmen: Michel Frankignoulle, Jack Middelburg, Niels Iversen and Richard Coffin

11.00 - 11.30

45-01 BIOGAS TRANSFER IN ESTUARIES  
L Dong, D Nedwell, G Underwood, D Thornton, J Middelburg, N Iversen

11.30 - 11.45

45-02 NITROUS OXIDE PRODUCTION IN SEDIMENTS OF THE RIVER COLNE ESTUARY,  
ENGLAND:THE CENTRAL ROLE OF NITRITE  
L Dong, D Nedwell, G Underwood, D Thornton, J Middelburg, N Iversen

11.45 - 12.00

45-03 CARBON DIOXIDE IN MACROTIDAL ESTUARIES  
G Abril, M Frankignoulle

12.00 - 12.15

45-04 IN SITU QUANTIFICATION OF METHANE BUBBLE POOL DYNAMICS IN A BOREAL PEATLAND  
USING TDR PROBES  
G Granberg

12.15 - 12.30

45-05 THE PREFERENTIAL DIFFUSION OF CO<sub>2</sub>AQ IN COASTAL MARINE ENVIRONMENTS AS  
REVEALED BY PH AND PCO<sub>2</sub> MICROELECTRODES MEASUREMENTS  
W Cai

12.30 - 12.45

45-06 SEDIMENT RHEOLOGICAL PROPERTIES IN BUBBLE GROWTH  
B Johnson, B Boudreau, R Maass, B Gardiner

12.45 - 13.00

45-07 DISSOLVED INORGANIC CARBON IN THE MID-ATLANTIC BIGHT  
P Vlahos, D Wallace, R Chen

13.00 - 14.00

Lunch

Monday June 5 - morning

**Bella Vista I**

Contributed session

**11.00 - 13.00**

**CS 19 Phytoplankton ecology**

Chairmen: Edna Granéli, Per Juhl Hansen, Tamar Zohary

11.00 - 11.15

19-01 EFFECT OF SALINITY AND COASTAL WATERS ON GROWTH AND TOXIN CONTENT OF ALEXANDRIUM MINUTUM  
D Grzebyk

11.15 - 11.30

19-02 PHOSPHORUS FROM INGESTED BACTERIA DECREASES TOXICITY IN THE MIXOTROPHIC PRYMNESIUM PATELLIFERUM (HAPTOPHYCEAE)  
C Legrand, N Johansson, G Johnsen, K Borsheim, E Granéli

11.30 - 11.45

19-03 PLANKTOTHRIX PROLIFICA - ITS TOXICITY VARIATIONS IN TIME AND ITS IMPACT ON VEGETABLES IRRIGATED WITH MODERATELY INTOXICATED WATER  
E Willén, G Ahlgren, D Lindgren

11.45 - 12.00

19-04 QUANTIFICATION OF LIFE HISTORY TRANSFORMATION RATES OF NON-TOXIC PFIESTERIA PISCICIDA  
J Anderson, D Stoecker, R Hood, X Zhang

12.00 - 12.15

19-05 N- OR P- DEFICIENCY FAVOURS THE DOMINANCE OF PHYTOPLANKTON SPECIES PRODUCING ALLELOPATHIC SUBSTANCES  
E. Granéli, N Johansson

12.15 - 12.30

19-06 TRANSIENT CHANGES IN CHLOROPHYLL A FLUORESCENCE FOLLOWING NITROGEN RESUPPLY - A DIAGNOSTIC TOOL FOR ASSESSING NITROGEN LIMITATION IN PHYTOPLANKTON?  
E Young, J Beardall

12.30 - 12.45

19-07 VARIABILITY IN PHYTOPLANKTON VERTICAL DISTRIBUTION IN AN EMBAYMENT OF A TIDAL FRESHWATER RIVER.  
S Mitrovic, L Bowling, R Buckney

12.45 - 13.00

19-08 DEPENDENCE ON A PHAGOTROPHICALLY DERIVABLE GROWTH FACTOR IN THE PLASTIDIC DINOFLAGELLATE GYRODINIUM RESPLENDENS  
A Skovgaard

13.00 - 14.00

Lunch

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ASLO 2000 - PROGRAM

## Monday June 5 - morning

### Auditorium

Contributed session

### 11.00 - 13.00

#### CS 27 Zooplankton ecology

Chairmen: Karl Rothhaupt, Markku Viitasalo and Torkel Gissel Nielsen

- |               |   |
|---------------|---|
| 11.00 - 11.15 | 27-01 FITNESS CONSEQUENCES OF METAMORPHOSIS IN A FRESHWATER COPEPOD<br>S Twombly, N Tisch                                 |
| 11.15 - 11.30 | 27-02 DIEL VERTICAL MIGRATION OF DAPHNIDS IN RELATION TO CHANGING FISH BIOMASS IN AN ALPINE LAKE<br>M Winder, P Spaak     |
| 11.30 - 11.45 | 27-03 A NEGLECTED PREDATOR ON WATER FLEAS: THE WATER MITE EYLAI DISCRETA (ACARI: HYDRACHNIDIA)<br>S Scheidegger           |
| 11.45 - 12.00 | 27-04 PREFERENTIAL UPTAKE OF CILIATES BY EUDIAPTOMUS GRACILIS<br>K O Rothhaupt, H Ehret                                   |
| 12.00 - 12.15 | 27-05 PREDATION, FOOD CONCENTRATION, AND THE EVOLUTION OF OPTIMAL BODY SIZE IN DAPHNIA<br>H Riessen                       |
| 12.15 - 12.30 | 27-06 PARASITE-MEDIATED COMPETITION IN DAPHNIA<br>K Bittner, K Rothhaupt  |
| 12.30 - 12.45 | 27-07 EFFECTS OF FISH KAIROMONE AND TEMPERATURE ON DAPHNIDS DIFFERING IN MIGRATORY BEHAVIOR<br>S Lass, P Spaak            |
| 12.45 - 13.00 | 27-08 THE MORPHOLOGY OF THE DAPHNIA EPHIPPIA: PHYLOGENETIC CONSTRAINTS OR ADAPTATION?<br>R Billiones, K Schwenk, B Streit |
| 13.00 - 14.00 | Lunch   |

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## Monday June 5 - morning

### Room 19

ASLO 2000 STUDENT SYMPOSIUM - Sponsored by the ASLO Minorities Program

#### All ASLO Members Invited

Session Chairs: Melanie Moore, Hampton University  
Martha Rodriguez, California State University

- 11:00 Treda Smith, USEPA, How oysters affect microzooplankton grazing activity.
- 11:15 Deidre Gibson, Skidaway Inst. of Oceanography. Feeding, growth, and reproduction rates of the doliolid, *Doliioletta gegenbauri* (Tunicata, Thaliacea).
- 11:30 Andrea Balderas, Boston Univ., A residential study of the fish species that utilize the seagrass beds in the Indian River Lagoon.
- 11:45 Victoria Ballard, M. H. Howard -Jones, M. E. Frischer, P.G. Verity, and M. R. Gilligan. Savannah State Univ., The use of the vital stain and probe (VSP) method to determine the physiological activity of bacteria in the marine environment.
- 12:00 Brandy Smith, Savannah State Univ., Rates of denitrification and oxygen concentrations in Choptank River sediment bioturbated by *Leptocheirus plumulosus*.
- 12:15 Celere Leonard, A. F. Hollnad and C. A. Barans, Tuskegee Univ., Validation of the tolerance of an estuarine oligochaete to low levels of dissolved oxygen.
- 12:30 Aurora Marin, Univ. of Kansas, The environment of a Permian vertebrate burrow community from Kansas.
- 12:45 Natasha Hatton, Hampton Univ., Analysis of stream flow components in a first-order coastal plain watershed.
- 13:00 - 14.00 Lunch**
- 14:00 Rocio Hernandez, Stephen F. Austin Univ., Heavy metal analysis of six streams in Angelina Forest.
- 14:15 Brian Roth, R. A. Derrig-Green, J. Gonzales and G. D. Quick. Univ. of Wisconsin, Evaluating community response to repair or removal of dams.
- 14:30 Tamieka-Nicole Armstrong. Univ. of New England, Does light help *Coxiella* digest algal pigments?
- 14:45 Chloe Deodato, Univ. North Carolina, Wilmington, Interactions between tow symbiotic algae in one anemone host subjected to UV stress.
- 15:00 Shawn Arellano, Univ. of Kansas, Effect of UV radiation on the ascidian *Styela gibsii*.
- 15:15 Eufemia Palomino, R. Jaffione, W. Brocukow and F. Chavez. Moss Landing Lab. Optical properties of central California coastal waters during upwelling season and attempts at closure.
- 15:30 - 16.00 Break**
- 16:00 Juan Torres and R.A. Armstrong, Univ. of Puerto Rico, Optical characteristics of Puerto Rican reef waters.
- 16:15 Deanna Wynn, Bennett College, Nematocysts: Can they be used for taxonomic purposes?
- 16:30 K'wasi Barnes, Univ. of Virgin Islands, Effects of temperature on the recolonization of bleached sea anemone, *Aiptasia pallida*, by algal symbionts.
- 16:45 Rodolefo Gallardo, Univ. of Maryland, Eastern Shore, Symbiotic relationships between scallops and sponges in the Puget Sound.
- 17:00 Letise Houser, Brown Univ., The role of DMS and acrylate in the chemical defense of systems of macroalgae.
- 17:15 Chanda Jones, Texas A&M Univ., Does imposition of nutritional stress induce *C. oregonesis* and *C. magister* crab larvae to ingest toxic dinoflagellate, *Alexandrium fundyense*?
- 17:30 Lorena Escobar, Univ. of Arizona, Symbiotic algae as food source for two protists.

## Monday June 5 - afternoon

### Hall A3

Special session

14.00 - 17.30

#### SS12 The significance and control of water column respiration in aquatic systems

Chairmen: Erik M Smith, Paul del Giorgio and P J Leb Williams

14.00 - 14.30

12-01 THE STUDY OF PLANKTON COMMUNITY RESPIRATION - PHOENIX OR DEAD DUCK  
P Williams

14.30 - 14.45

12-02 CONTRIBUTION OF BACTERIA TO PLANKTONIC BIOMASS AND RESPIRATION IN LAKES AND OCEAN  
B Biddanda, J Cotner

14.45 - 15.00

12-03 BACTERIAL GROWTH AND RESPIRATORY CARBON TURNOVER ON SUSPENDED ORGANIC AGGREGATES  
H Ploug, H Grossart

15.00 - 15.15

12-04 CALCULATION OF THE CHEMICAL NATURE OF BACTERIAL RESPIRATION SUBSTRATES FROM OXYGEN AND AMMONIA DYNAMICS  
P J Williams, R Rodrigues,

15.15 - 15.30

12-05 BACTERIAL RESPIRATION IN TIDAL MARSHES AND ESTUARIES: UNCOUPLING FROM BACTERIAL PRODUCTION  
P del Giorgio, R Newell

15.30 - 16.00

Coffee

16.00 - 16.15

12-06 MICROPLANKTON COMMUNITY RESPIRATION AND PRODUCTION IN THE GULF OF TRIESTE (NORTHERN ADRIATIC SEA).  
S Fonda Umani, V Barbariol, P Del Negro, M Cabrini, A Beran

16.15 - 16.30

12-07 ALGAL AND BACTERIAL RESPIRATION IN AN AMAZONIAN FLOODPLAIN LAKE  
F Roland, L Vidal

16.30 - 16.45

12-08 VARIABILITY IN PLANKTON RESPIRATION ALONG THE ESTUARINE GRADIENT OF CHESAPEAKE BAY  
E Smith, W Kemp

16.45 - 17.00

12-09 TEMPORAL AND SPATIAL UNCOUPLING IN PRIMARY PRODUCTION AND RESPIRATION IN THE SUBTROPICAL NORTH ATLANTIC  
W G Harrison

17.00 - 17.15

12-10 PHOTIC DEPTH, PRODUCTION/ RESPIRATION RATIOS AND TROPHIC TRANSFER IN AQUATIC ECOSYSTEMS  
W Kemp, E Smith, J Petersen

17.15 - 17.30

12-11 METABOLISM MEASUREMENT AND PARTITIONING ACROSS ECOSYSTEM COMPONENTS  
C Hopkinson, J Vallino

## Monday June 5 - afternoon

### Hall A2

Special Session

#### 14.00 - 17.30

#### SS 21 Aquatic species invasions

Chairmen: David Reid, Hugh MacIsaac and Gregory M Ruiz

- 14.00 - 14.15 21-08 SPATIO-TEMPORAL DISTRIBUTION OF VIABLE HETEROTROPHIC PROTISTS IN BALLAST WATER AND SEDIMENTS DURING A TRANSATLANTIC VOYAGE  
N Hülsmann, B Galil, R Baier
- 14.15 - 14.30 21-09 DREISSENA BUGENSIS (ANDR.) RANGE EXPANSION IN THE VOLGA RIVER AND IN THE NORTHERN CASPIAN SEA: FURTHER INVASION PERSPECTIVES FOR THE BALTIC SEA REGION  
M I Orlova, Y Starobogatov, G Biochino
- 14.30 - 14.45 21-10 PATTERNS OF MARINE INVASIONS AT MULTIPLE SCALES IN AUSTRALIA  
C Hewitt
- 14.45 - 15.00 21-11 AUSTRALIA'S NEW NATIONAL FRAMEWORK FOR MANAGING MARINE PEST INCURSIONS  
R Thresher
- 15.00 - 15.15 21-12 LIVING AMONG OYSTERS: THE COMMERCIAL OYSTER INDUSTRY AS A VECTOR FOR MOLLUSCAN INTRODUCTIONS, A RETROSPECTIVE ANALYSIS OF INVASION SUCCESS AND FAILURE  
A Miller
- 15.15 - 15.30 21-13 ECOLOGY AND BALLAST MEDIATED TRANSPORT OF VIBRIO CHOLERAE  
T Rawlings, G Ruiz, F Dobbs, L Drake, T Mullady, A Huq, R Colwell
- 15.30 - 16.00 Coffee
- 16.00 - 16.15 21-14 SOURCES FOR WORLDWIDE INVASIONS OF THE EUROPEAN SHORE CRAB: INFERENCES FROM MICROSATELLITE DNA VARIATION  
J Geller, M Bagley
- 16.15 - 16.30 21-15 MULTIPLE INVASIONS OF THE GREAT LAKES BY PONTO-CASPIAN SPECIES: ECOLOGICAL HOMOGENIZATION IN PROGRESS  
A Ricciardi, H MacIsaac
- 16.30 - 16.45 21-16 IMPACTS OF THE BAIKALIAN AMPHIPOD, GMELINOIDES FASCIATUS, ON LITTORAL COMMUNITIES IN EASTERN EUROPEAN FRESHWATER ECOSYSTEMS  
V Panov, T Timm, E Kurashov, I Denison, N Zaporozhec
- 16.45 - 17.00 21-17 THE IMPACTS OF THE NONINDIGENOUS EUROPEAN SHORE CRAB *CARCINUS MAENAS* ON NATIVE AND NONNATIVE SPECIES IN CENTRAL CALIFORNIA  
E Grosholz, G Ruiz
- 17.15 - 17.30 21-18 INVASIVE NORTH AMERICAN CRAYFISH CAUSING PROBLEMS IN EUROPEAN FRESHWATER ECOSYSTEMS: HOW TO MAKE THE BEST OF A BAD SITUATION?  
M Pöckl

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## Monday June 5 - afternoon

### Room 18

Special Session

14.00 - 17.45

#### **SS 26 Role of aquatic colloids in the speciation, bioavailability and fate of trace elements, nutrients and contaminants**

Chairmen: Peter H Santschi and Kevin J Wilkinson

14.00 - 14.30

26-01 ROLE OF AQUATIC COLLOIDS IN THE SPECIATION, BIOAVAILABILITY AND FATE OF TRACE ELEMENTS, NUTRIENTS AND CONTAMINANTS  
K Wilkinson, P Santschi

14.30 - 14.45

26-02 COLLOIDAL ORGANIC MATTER IN MARINE ENVIRONMENTS: SOURCES, TURNOVER TIME AND BIOAVAILABILITY  
L Guo, P Santschi

14.45 - 15.00

26-03 COAGULATION OF NOM BY FERRIC IONS: COMPLEXATION VS HYDROLYSIS  
J V Bottero

15.00 - 15.15

26-04 THE ELECTRON-OPTICAL SPECIATION OF NATIVE COLLOIDS IN AQUATIC ECOSYSTEMS: RELEVANCE TO THE TRANSPORT, BIOAVAILABILITY AND FATE OF CONTAMINANTS  
G Leppard

15.15 - 15.30

26-05 RELATING AQUATIC COLLOID PROPERTIES TO METAL SPECIATION AND BIOAVAILABILITY  
J Buffle, K Wilkinson, S Stoll, M Fillela

15.30 - 16.00

Coffee

16.00 - 16.15

26-06 FLFFF-ICPMS: A NEW TECHNIQUE FOR THE STUDY OF CONTINUOUS SIZE DISTRIBUTIONS OF COLLOIDAL TRACE METALS IN NATURAL WATERS  
M Hasselov, K Andersson, D Turner

16.15 - 16.30

26-07 THE INFLUENCE OF IRON AND ORGANIC MATTER MOITIES ON THE CHEMICAL SPECIATION OF LEAD IN A MEROMICTIC LAKE  
J F Gaillard, M Taillefert, C Lienemann, D Perret

16.30 - 16.45

26-08 THE CHEMICAL SPECIATION OF ZN IN CONTAMINATED SEDIMENT PARTICLES  
J Gaillard, S Webb, G Leppard

16.45 - 17.00

26-09 FATE OF BE-7 IN EPILIMNION OF LAKE LUGANO IN SUMMER: TRACING COLLOID COAGULATION AND REMOVAL RATES.  
J Dominik, T Billen, G Goudsmit, J Loizeau, D Perret

17.00 - 17.15

26-10 SIZE FRACTIONATION (COLLOIDAL, DISSOLVED AND PARTICULATE) OF TRACE METALS IN THUR RIVER  
L Sigg, H Xue, D Kistler, R Schoenenberger

17.15 - 17.30

26-11 UPTAKE OF DISSOLVED ORGANIC CARBON AND TRACE METALS BY ZEBRA MUSSELS  
N Fisher, H Roditi, S Sanudo-Wilhelmy

17.30 - 17.45

26-12 RATE AND GEOCHEMISTRY OF SEDIMENT FLUXES IN LAVANT AND PECH LAKES, CLYDE FORKS, LANARK COUNTY, ONTARIO, CANADA  
L El Bilali, P Rasmussen, D Fortin, E Callender

## Monday June 5 - afternoon

### Room 20

Special session

### 14.00 - 17.15

#### SS 27 Climate and Aquatic systems

Chairmen: Stephen C Maberly, Jean-Pierre Gattuso, Jeffrey Polovina and Keith Brander

14.00 - 14.15

27-09 RISING CO<sub>2</sub> CONCENTRATION SLOWS DOWN CARBONATE PRODUCTION IN CALCIFYING MARINE PHYTOPLANKTON  
U Riebesell, I Zondervan, B Rost

14.15 - 14.30

27-10 EFFECTS OF INCREASED CO<sub>2</sub> CONCENTRATION ON LAKE COMMUNITY STRUCTURE: RESULTS OF A GREENHOUSE EXPERIMENT WITHIN THE CLIMFRESH  
A Ojala, T Saarinen, T Kairesalo

14.30 - 14.45

27-11 ROLE OF CLIMATIC AND WATERSHED DISTURBANCE IN CAUSING BIOGEOCHEMICAL RESPONSES IN SHALLOW LAKES ON THE BOREAL PLAIN, ALBERTA,  
E Prepas, P Siwik, B Pinnel-Alloul, D Planas

14.45 - 15.00

27-12 DECIPHERING PAST RESPONSES OF MARINE ORGANISMS TO CLIMATE.  
J Bijma, H Spero, D Lea

15.00 - 15.15

27-13 CLIMATE VARIABILITY ALTERS PHYTOPLANKTON SPRING BLOOM  
T Blenckner

15.15 - 15.30

27-14 TRACER STUDIES OF ATMOSPHERE-OCEAN INTERACTION  
P Liss

15.30 - 16-00

Coffee

16.00 - 16.15

27-15 THE INFLUENCE OF THE NAO ON THE TEMPORAL COHERENCE OF LAKES IN WESTERN AND CENTRAL EUROPE  
D George

16.15 - 16.30

27-16 RATES OF CO<sub>2</sub> AND BICARBONATE UPTAKE DURING STEADY-STATE PHOTOSYNTHESIS IN MARINE DIATOMS ACCLIMATED TO DIFFERENT CO<sub>2</sub>  
S. Burkhardt, D. Sültemeyer, G. Amoroso

16.30 - 17.00

27-17 CLIMATE VARIATION, REGIME SHIFTS, AND FISHERIES IN THE ATLANTIC AND PACIFIC: - A TUTORIAL  
K Brander, J Polovina

17.00 - 17.15

27-18 CHAOS IN THE NORTH PACIFIC  
J Overland

cont. page 39

## Monday June 5 - afternoon

### Room 17

Special session

### 14.00 - 17.30

#### **SS 38 Biological, chemical, physical and sedimentological interactions in polynyas**

Chairman: Louis Legendre and Heidemarie Kassens

14.00 - 14.30

38-01 POLYNYAS IN CHANGING POLAR SEAS  
L Fortier, M Fortier

14.30 - 14.45

38-02 OCEANOGRAPHY OF THE FLAW POLYNYA IN THE LAPTEV SEA (SIBERIAN ARCTIC)  
I Dmitrenko, J Hoelemann, V Churun, H Kassens, S Kirillov

14.45 - 15.00

38-03 THE EFFECTS OF POLYNYAS AND LEADS ON CLOUD MICROPHYSICAL PARAMETERS DURING FIRE.ICE  
G Isaac, K Strawbridge

15.00 - 15.15

38-04 PHYTOPLANKTON AWAKENING IN THE LAPTEV SEA POLYNYA (RUSSIAN ARCTIC) IN SPRING 1999  
K Tuschling, K Meiners, M Schmid, J He

15.15 - 15.30

38-05 PHYTOPLANKTON PHOTOPROTECTION BY MAAS IN THE NORTHWATER ARCTIC POLYNYA: THE INFLUENCE OF INCIDENT UV, WATER COLUMN STRATIFICATION AND PHYTOPLANKTON COMPOSITION  
S Roy, I Laurion

15.30 - 16.00

Coffee

16.00 - 16.15

38-06 ANNUAL DYNAMICS OF PRIMARY- AND BACTERIAL PRODUCTION IN THE DISKO BAY, WESTERN GREENLAND  
T Nielsen, H Thomsen, B Hansen, H Levinsen, S Madsen

16.15 - 16.30

38-07 TROPHIC COUPLING OF THE MICROBIAL AND METAZOAN FOOD WEBS IN THE NORTH WATER POLYNYA (NOW)  
D Deibel, P Saunders, R Rivkin, J Pakulski, M Anderson, J Acuna, H Bussey

16.30 - 16.45

38-08 OVERWINTERING DYNAMICS OF CALANOID COPEPODS IN THE NORTH WATER: NEW INSIGHTS FROM 24 MONTHS OF SEDIMENT TRAP COLLECTIONS  
M Fortier, L Fortier, M Ringuette, B Hargrave, I Walsh, H Hattori, H Sasaki, M Sampei

16.45 - 17.00

38-09 BACTERIAL FORAGING WITH EXTRACELLULAR ENZYMES AT SUBZERO TEMPERATURE IN TWO ARCTIC POLYNYAS: IMPLICATIONS TO BACTERIA AND TO PARTICLE FLUX  
J Deming, A Huston

17.00 - 17.15

38-10 NEAR-BOTTOM SUSPENDED PARTICULATES AND BENTHIC-PELAGIC COUPLING IN THE NOW POLYNYA  
J Grant

17.15 - 17.30

38-11 ESTIMATING THE EXPORT OF CARBON THROUGH MARINE BIRDS IN THE NORTH WATER  
N Karnovsky, G Hunt, Jr., L Fortier, K Falk, K Hobson

Monday June 5 - afternoon

**Bella Vista II+III**

Special session

**14.00 -17.15**

**SS 41 Chemical ecology of freshwater and marine benthos**

Chairmen: Elisabeth M Gross and and Mark Hay

14.00 - 14.30

41-01 CURRENT TOPICS IN THE CHEMICAL ECOLOGY OF THE FRESHWATER AND MARINE BENTHOS  
E Gross

14.30 - 14.45

41-02 RESPONSES TO ODORANTS IN THE BRITTLE-STAR AMPHIURA FILIFORMIS INTERPRETED WITH MULTIVARIATE ANALYSIS  
E Selander

14.45 - 15.00

41-03 CHEMICAL COMMUNICATION DURING MATE GUARDING IN THE HARPACTICOID COPEPOD TIGRIOPUS JAPONICUS  
J Ting, T Snell

15.00 - 15.15

41-04 MACROPHYTE CHEMICAL DEFENSES: CONTRASTS OF MARINE AND FRESHWATER SYSTEMS  
M Hay

15.15 - 15.30

41-05 SELECTIVE HERBIVORY BY THE LITTORAL ISOPOD IDOTEA BALTICA AMONG SEAWEEDES OF VARYING QUALITY  
T Honkanen, N Heikkil, V Jormalainen

15.30 - 16.00

Coffee

16.00 - 16.15

41-06 OCCURRENCE AND MODE OF ALLELOPATHIC ACTION IN CYANOBACTERIAL BIOFILMS.  
F Jüttner

16.15 - 16.30

41-07 FISHY COMMUNICATIONS: FISHES EXUDE DUBIOUS MESSANGER SUBSTANCES AND YET DAPHNIDS SMELL IT  
H Boriss, M Boersma, K Witlshire

16.30 - 16.45

41-08 CHEMOTAXIS OF NEMATODES TO VOLATILE ORGANIC COMPOUNDS (VOC) OF BENTHIC CYANOBACTERIA  
C Höckelmann, F Jüttner

16.45 - 17.00

41-09 CHEMICALLY-MEDIATED SEARCH BEHAVIOR: CHARACTERIZING THE OLFACTORY STIMULUS FIELD FOR BLUE CRABS  
T Keller, M Weissburg

17.00 - 17.15

41-10 EFFECTS OF BLUE-GREEN ALGAL METABOLITES ON MACRO- AND MESOCONSUMERS: CYANOBACTERIA AS EQUIVALENTS OF TRUE ALGAE IN TROPICAL REEFS  
E Cruz-Rivera

ASLO 2000 - PROGRAM

## Monday June 5 - afternoon

### Bella Vista I

Contributed session

### 14.00 - 17.30

#### CS 19 Phytoplankton ecology

Chairmen: Edna Granéli, Per Juhl Hansen, Tamar Zohary

- 14.00 - 14.15 19-09 SIZE FRACTIONATION OF MICROCYSTIS AERUGINOSA IN A HYPEREUTROPHIC LAKE  
R Kurmayer, G Ali, I Chorus
- 14.15 - 14.30 19-10 PLANKTONIC NITROGEN-FIXING CYANOBACTERIA: ECOLOGICAL CONTROLS AND CROSS-SYSTEM CONSEQUENCES  
F Chan, R Howarth, R Marino, M Pace
- 14.30 - 14.45 19-11 DEPENDANCY OF NOSTOC FLAGELLIFORME (CYANOPHYCEAE) ON POTASSIUM FOR THEIR PHOTOSYNTHETIC RECOVERY.  
B. Qiu
- 14.45 - 15.00 19-12 TO BLEACH OR NOT TO BLEACH? - ACCLIMATION OF CYANOBACTERIA TO ENVIRONMENTAL STRESS  
R Schwarz, A Grossman
- 15.00 - 15.15 19-13 TRICHODESMIUM THE UR-CYANOBACTERIUM?  
I Berman-Frank, J Cullen, R Sherrell, Z Kolber, P Falkowski
- 15.15 - 15.30 19-14 Viable Phytoplankton pools in aphotic coastal marine sediments  
A B Josefson, J Hansen
- 15.30 - 16.00 Coffee
- 16.00 - 16.15 19-15 GROWTH AND DIVISION OF GLOEOTRICHIA ECHINULATA IN THE WATER COLUMN WITHOUT INFLUENCE OF RECRUITMENT FROM THE SEDIMENTS  
I Karlsson
- 16.15 - 16.30 19-16 EFFECTS OF IRRADIANCE AND NUTRIENTS ON LIGHT ABSORPTION, CELL-SIZE AND PIGMENTATION ON FOUR SPECIES OF MARINE PHYTOPLANKTON  
P Staehr, P Henriksen, S Markager
- 16.30 - 16.45 19-17 PHYTOPLANKTON SIZE-STRUCTURE AND PRODUCTIVITY IN THE OLIGOTROPHIC OCEAN  
E Marañón, P Holligan, R Barciela, N González, B Mouriño, M Pazo, M Varela
- 16.45 -17.00 19-18 THIN LAYERS OF PSEUDO-NITZSCHIA IN A FJORD IN THE SAN JUAN ISLANDS, WASHINGTON USA  
J Rines, P Donaghay, M Deksheniaks, J Sullivan
- 17.00 -17.15 19-19 MECHANISMS CAUSING A DEEP-WATER CHLOROPHYLL MAXIMUM: EXPERIMENTAL EVIDENCE  
W Lampert, K Wiltshire
- 17.15 - 17.30 19-20 SPECIES SUCCESSION AMONG MARINE PHYTOPLANKTON: THE ROLE OF pH  
P Hansen, L Ejbye-Schmidt

## Monday June 5 - afternoon

### Auditorium

Contributed session

### 14.00 - 17.30

#### CS 27 Zooplankton ecology

Chairmen: Karl Rothhaupt, Markku Viitasalo and Torkel Gissel Nielsen

- 14.00 - 14.15 27-09 REGULATION OF DAPHNIA POPULATION DYNAMICS: RESULTS FROM A LONG-TERM STUDY  
D Straile
- 14.15 - 14.30 27-10 STRUCTURE AND TROPHIC TRANSFER EFFICIENCY IN PELAGIC COMMUNITIES OF LAKES  
P Kasprzak, R Koschel
- 14.30 - 14.45 27-11 DIAPAUSE OF CYCLOPS VICINUS: DIRECT LIFE HISTORY RESPONSE TO FOOD LIMITATION  
B Santer, A Hansen
- 14.45 - 15.00 27-12 DIRECT AND INDIRECT EFFECTS OF THE NOTONECTID BUENOA MACROTIBIALIS ON  
ZOOPLANKTON OF A SHALLOW POND  
S Hampton, J Gilbert, C Burns
- 15.00 - 15.15 27-13 THE DAILY AND SEASONAL PATTERNS OF ZOOPLANKTON SPATIAL DISTRIBUTIONS: THE  
ROLES OF FISH AND MACROPHYTES  
M Norton, B Pinel-Alloul, D Boisclair, P Legendre
- 15.15 - 15.30 27-14 SEASONAL DYNAMICS IN DAPHNIA MORPHOLOGY AND CLONAL STRUCTURE: PROXIMATE  
FACTORS FOR EYE SIZE VARIATION  
S Giessler, M Pawlowski
- 15.30 - 16.00 Coffee
- 16.00 - 16.15 27-15 THE ROLE OF YOLK PROTEIN DYNAMICS AND PREDATOR KAIROMONES FOR THE LIFE  
HISTORY OF DAPHNIA MAGNA  
H Stibor
- 16.15 - 16.30 27-16 INFLUENCE OF TEMPERATURE ON LIFE HISTORY CHARACTERS IN TWO FRESHWATER  
CYCLOPOIDS (COPEPODA, CRUSTACEA) INHABITING TEMPORARY WATERS  
D Frisch, B Santer
- 16.30 - 16.45 27-17 DOM PRODUCTION BY MARINE COPEPODS: EFFECT OF PHYTOPLANKTON BIOMASS AND  
CELL SIZE  
E Møller, T Nielsen
- 16.45 - 17.00 27-18 ZOOPLANKTIVORY IN THE BALTIC SEA: A COMPARISON OF PREY SELECTIVITY IN HERRING  
AND MYSID SHRIMPS  
M Viitasalo, J Flinkman, M Viherluoto
- 17.00 - 17.15 27-19 COMPARISON OF EFFECTS OF VERTEBRATE AND INVERTEBRATE PLANKTIVORY ON THE ST.  
LAWRENCE RIVER PELAGIC FOOD WEB  
J Thorp, A Casper
- 17.15 - 17.30 27-20 PREDATOR-PREY INTERACTIONS FOR LARVAL COD (GADUS MORHUA) AND COPEPODS  
(ACARTIA TONSA) IN CALM AND TURBULENT WATER  
J Rasmussen, B MacKenzie

cont. page 43

## Tuesday June 6

### Hall A2

08.30 - 09.30

#### Plenary talk

chaired by Kirsten Christoffersen

#### Carlos M. Duarte

Instituto Mediterráneo de Estudios Avanzados,  
CSIC-Univ., Palma de Mallorca, Spain.

#### LAND USE AND COASTAL ECOSYSTEMS

##### Abstract

*Coastal ecosystems, the interfaces between land and ocean, play a disproportionate role on the productivity and nutrient and carbon cycling of the global ocean relative to its size, and are, therefore, key components of the biosphere. The control on the functions of coastal ecosystems are complex, since it includes effects from both the connected oceanic and terrestrial ecosystems. In particular, the influence of terrestrial systems on coastal ecosystems is intimately linked to land use. Changes in land use, even if occurring at great distances from the ocean, may prompt major changes in coastal ecosystems. The link between land use and the status and change of coastal ecosystems are illustrated at scales ranging from local to global, to emphasize the need for an integrated management of coastal ecosystems that explicitly addresses land and ocean effects on coastal ecosystems.*

### Hall A1

16.00 - 16.15

#### Opening of the poster sessions

Sven Auken

Minister for Environment and Energy welcomes you to Denmark

16.15-18.00

Poster Session

#### Programme Tuesday June 6

10.30 - 11.00

Coffee break

8 morning sessions - page 30 to 41

12.30 - 13.30

Lunch

15.30 - 16.00

Coffee break

6 afternoon sessions - page 42 to 48

Tuesday June 6 - morning

**Bella Vista I** Special session

**11.00 - 12.30**      **SS 01 The interface between theory and field experiment: getting beyond yes-or-no answers**

Chairman: Orlando Sarnella and Sebastian Diehl

11.00 - 11.30      01-01 TUTORIAL. THE INTERFACE BETWEEN THEORY AND FIELD EXPERIMENT: GETTING BEYOND YES-OR-NO ANSWERS  
S Diehl, O Sarnelle

11.30 - 11.45      01-02 WHY, WHEN AND HOW SHOULD MINIMAL MODELS BE TESTED  
G Englund, J Moen

11.45 - 12.00      01-03 PRESS PERTURBATION EXPERIMENTS AND THE INDETERMINACY OF ECOLOGICAL INTERACTIONS: EFFECTS OF EXPERIMENTAL DURATION AND TAXONOMIC RESOLUTION  
J Attayde, L Hansson

12.00 - 12.15      01-04 MODELLING BACTERIAL PRODUCTION IN THE SEA: THE PROBLEM OF ORGANIC CARBON SUPPLY  
T Thingstad, H Havskum, E Berdalet

12.15 - 12.30      01-05 COMPETITION FOR LIGHT: THEORY AND EXPERIMENTS  
J Huisman

12.30 - 13.30      Lunch

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## Tuesday June 6 - morning

### Room 18

Session

09.30 - 12.30

#### SS 04 Sensor technology for remote interactive experiments in aquatic environments

Chairmen: Kendra Daly, H Lawrence Clark, Gwyn Griffiths and John Delaney

09.30 - 10.00

04-01 IN SITU CHEMICAL SENSORS FOR SEA WATER: A REVIEW  
K B Johnsson

10.00 - 10.15

04-02 OPTICAL SENSORS FOR OCEAN MONITORING  
S Draxler

10.15 - 10.30

04-03 AN AUTONOMOUS, MOORED PROFILER: THE OCEANIC REMOTE CHEMICAL/OPTICAL ANALYZER (ORCA)  
J Dunne, S Emerson, A Devol

10.30 - 11.00

Coffee

11.00 - 11.15

04-04 NEW MEASUREMENTS OF BIO-OPTICAL AND CHEMICAL PROPERTIES FROM THE BERMUDA TESTBED MOORING  
T Dickey, N Bates, E Boyle, M Degrandpre, H Jannasch, L Merlivat, C Moore, K Turner, R Wanninkhof

11.15 - 11.30

04-05 4-D SYSTEMS FOR ASSESSING EPISODIC EVENTS IN COASTAL WATERS  
P Donaghay, M Deksheniaks, A Hanson, D Holliday, J Sullivan, C Moore, J Zaneveld

11.30 - 11.45

04-06 THE USE OF DNA MICROARRAYS TO CHARACTERIZE ENVIRONMENTAL MICROBIAL DIVERSITY  
D Stahl, J Kelly, L Sappelsa, S Bavykin, A Mirzabekov

11.45 -12.00

04-07 DEVELOPMENT OF A CYANOBACTERIAL FE-RESPONSIVE BIOSENSOR BY GENETIC FUSION METHODS  
G Bullerjahn, K Rice, S Kochendoerfer, R McKay

12.00 - 12.15

04-08 IN SITU SENSORS USING VOLTAMMETRIC SOLID STATE MICROELECTRODES DETECT SULFUR SPECIATION AT HYDROTHERMAL VENTS  
G Luther, M Taillefert, S Cary, D Nuzzio

12.15 - 12.30

04-09 IN SITU DETERMINATION OF SULFIDE SPECIATION CORRELATES WITH MACROFAUNAL DISTRIBUTION IN DEEP-SEA HYDROTHERMAL VENT COMMUNITIES  
S Cary, T Rozan, C DiMeo, G Luther

12.30 - 13.30

Lunch

## Tuesday June 6 - morning

### Room 19

Special session

09.30 - 12.30

#### SS 05 High resolution pigment distribution processes and fate

Chairman: Fauzi Mantoura

09.30 - 10.00

05-01 HIGH RESOLUTION PIGMENT DISTRIBUTION PROCESSES AND FATE.  
R F C Mantoura

10.00 - 10.15

05-02 IDENTIFYING AND QUANTIFYING PHYTOPLANKTON GROUPS BY PIGMENTS IN COASTAL AREAS  
L Schlüter, F Møhlenberg, H Havskum

10.15 - 10.30

05-03 PHYCOBILIN FLUORESCENCE IN THE BALTIC SEA AND THE CONSEQUENCES ON BLOOM DETECTION  
J Seppälä, S Babichenko, A Leeben

10.30 - 11.00

Coffee

11.00 - 11.15

05-04 SPATIAL AND TEMPORAL VARIABILITIES OF PHYTOPLANKTON COMMUNITY STRUCTURE IN THE NORTHERN NORTH PACIFIC AS DETERMINED BY PHYTOPLANKTON PIGMENTS  
Y Obayashi, E Tanoue, K Suzuki, N Handa, Y Nojiri, C Wong

11.15 - 11.30

05-05 ALGAL POPULATION COMPOSITION AND BIOMASS DETERMINED IN SITU WITH NEW ACCESSORY PIGMENT INDUCED FLUORESCENCE METHODS  
K Wiltshire, M Beutler, B Meyer

11.30 - 11.45

05-06 BIOOPTICS IN DIFFERENT BIOGEOCHEMICAL PROVINCES OF THE SOUTHERN OCEAN AND ITS SIGNIFICANCE FOR ESTIMATING PIGMENT CONCENTRATIONS  
A Bracher, M Lucas

11.45 - 12.00

05-07 HPLC PIGMENT ANALYSIS IN OCEANOGRAPHY: RECENT ADVANCES  
S Wright, M Zapata, J Garrido, S Jeffrey

12.00 - 12.15

05-08 ABSORPTION SPECTRA OF NODULARIA SPUMIGENA AND APHANIZOMENON FLOS-AQUAE REVEAL CHROMATIC ADAPTATION TO THE LIGHT FIELD IN THE BALTIC SEA  
S Kratzer

12.15 - 12.30

05-09 EXCEPTIONAL BLOOMS OF CHATTONELLA SPP. (RAPHIDOPHYCEAE) AND GYMNODINIUM CHLOROPHORUM (DINOPHYCEAE) IN DANISH WATERS  
P Henriksen, H Sørensen, G Hansen

12.30 - 13.30

Lunch

ASLO 2000 - PROGRAM

## Tuesday June 6 - morning

### Hall A3

Special session

09.30 - 12.30

#### **SS 09 Bacterioplankton communities in lakes and oceans - Functional and structural similarities and differences**

Chairman: Meinhard Simon

09.30 - 10.00

09-01 BACTERIOPLANKTON COMMUNITIES IN LAKES AND OCEANS: FUNCTIONAL AND STRUCTURAL SIMILARITIES AND DIFFERENCES  
M Simon, J Pernthaler

10.00 - 10.15

09-02 FUNCTIONAL ANALYSIS OF MARINE PICOPLANKTON COMMUNITIES : AN ENVIRONMENTAL GENOMICS APPROACH  
E DeLong, O Beja, C Preston

10.15 - 10.30

09-03 DIVERSITY AND STRUCTURE OF MICROBIAL COMMUNITIES IN LAKES AND OCEANS  
F Glöckner, R Amann

10.30 - 11.00

Coffee

11.00 - 11.15

09-04 BACTERIOPLANKTON COMMUNITY COMPOSITION AND ITS IMPACT ON DOM CONSUMPTION IN ESTUARINE AND UPWELLING REGIMES  
M Cottrell, D Kirchman

11.15 - 11.30

09-05 IMPACTS OF PROTISTAN GRAZING AND VIRAL LYSIS ON MICROBIAL COMMUNITY COMPOSITION IN A RESERVOIR  
K Simek

11.30 -11.45

09-06 PREDATOR-SPECIFIC RESPONSES OF EXPERIMENTAL MICROBIAL ASSEMBLAGES  
J Pernthaler, T Posch, K Simek, J Vrba, R Psenner, R Amann

11.45 - 12.00

09-07 DISTRIBUTION PATTERNS AND COMMUNITY STRUCTURING FORCES  
G Zwart, M van Agterveld, K van der Gucht

12.00 - 12.15

09-08 IMPORTANCE OF ORGANIC SULFUR TURNOVER AND ASSIMILATION TO BACTERIAL COMMUNITIES IN MARINE AND FRESHWATER SYSTEMS.  
R Kiene, T Stets, J Bruton, L Linn

12.15 - 12.30

09-09 BACTERIA-SESTON INTERRELATIONSHIPS IN LAKE KINNERET WATER  
T Berman, A Parparov

12.30 - 13.30

Lunch

Tuesday June 6 - morning

Bella Vista II+III

Special session

09.30 - 12.30

**SS 20 The role of aquatic macrophytes in lakes**

Chairman: Erik Jeppesen

09.30 - 10.00

20-01 THE ROLE OF AQUATIC MACROPHYTES IN LAKES  
E Jeppesen

10.00 - 10.15

20-02 CLEAR-WATER AND TURBID STATES IN A SET OF INTERCONNECTED PONDS: A STUDY INVOLVING FISH, ZOOPLANKTON, MACRO-INVERTEBRATES AND MACROPHYTES  
L De Meester, K Cottenie, E Michels, S Declerck, W Rommens

10.15 - 10.30

20-03 DAPHNIA IN LITTORAL ZONES: COSTS AND BENEFITS ASSOCIATED WITH DIEL HORIZONTAL MIGRATION IN SHALLOW LAKES  
R Burks, E Jeppesen, D Lodge

10.30 - 11.00

Coffee

11.00 - 11.15

20-04 The effect of bladderwort (Utricularia) predation on their prey  
S Harms

11.15 - 11.30

20-05 SHALLOW LAKE MÜGGELSEE (BERLIN, GERMANY)-ON THE WAY BACK TO MACROPHYTE DOMINANCE?  
S Körner

11.30 - 11.45

20-06 FACILITATION AMONG PISCIVOROUS PREDATORS - EFFECTS OF PREY HABITAT USE  
P Eklov, T VanKooten

11.45 - 12.00

20-07 POLYMORPHISM IN PERCH AFFECTS HABITAT SPECIFIC FEEDING EFFICIENCY  
R Svanback, P Eklov

12.00 - 12.15

20-08 FORAGING BEHAVIOUR OF PLANKTIVORES AS MODIFIED BY SUBMERGED MACROPHYTES  
J Manatunge, T Asaeda, D Tilak Priyadarshana

12.15 - 12.30

20-09 SUBMERGED MACROPHYTES IN SHALLOW LAKES: WHAT HAPPENS AS THE TEMPERATURE RISES?  
D Stephen, B Moss, E Becares, M Fernandez-Alaez, J Hietala, T Kairesalo, W van de Bund, E van Donk, S Romo

12.30 - 13.30

Lunch

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## Tuesday June 6 - morning

### Hall A2

Special session

09.30 - 12.30

#### SS 21 Aquatic species invasions

Chairmen: David Reid, Hugh MacIsaac and Gregory M Ruiz

09.30 - 09.45

21-19 INVASION DYNAMICS OF MICROORGANISMS: MICROBIAL ECOLOGY OF BALLAST WATER DURING A TRANS-OCEANIC CRUISE  
L Drake, G Ruiz, T Mullady, B Galil, D Friedmann, L Ball, F Dobbs

09.45 - 10.00

21-20 RELEASE OF STERILIZED MALES TO CONTROL SEA LAMPREY POPULATIONS IN THE LAURENTIAN GREAT LAKES  
R A Bergstedt

10.00 - 10.15

21-21 THE EXPANSION OF THE FILTER-FEEDING CLADOCERAN LIMNOSIDA FRONTOSA AND THE CONSEQUENCES FOR OTHER ZOOPLANKTON SPECIES  
T Jensen, D Hessen, B Faafeng

10.15 - 10.30

21-22 BIOCIDES IN CONTROLLING RELEASE OF AQUATIC SPECIES FROM BALLAST WATER  
R Moll, L Sano, A Krueger, P Landrum

10.30 - 11.00

Coffee

11.00 - 11.15

21-23 ASSESSING THE IMPORTANCE OF CRYPTOGENIC SPECIES IN ESTUARIES  
P Fofonoff, G Ruiz, A Hines, J Carlton

11.15 - 11.30

21-24 INVASION DYNAMICS OF MICROORGANISMS: TEMPORAL PATTERNS OF SOLE-CARBON-SOURCE UTILIZATION IN BALLAST WATER DURING A TRANS-OCEANIC CRUISE  
F Dobbs, K Choi, T Mullady, L Drake

11.30 - 11.45

21-25 POPULATION DYNAMICS AND FOOD-WEB INTERACTIONS OF CERCOPAGIS PENGOL IN THE NORTHEASTERN PART OF THE BALTIC SEA  
H Ojaveer, A Põllumäe, M Simm, A Lankov

11.45 - 12.00

21-26 THE AQUATIC NUISANCE SPECIES PROGRAM OF THE UNITED STATES COAST GUARD  
R Everett, M McKeown, G Ruiz, W Miller

12.00 - 12.15

21-27 THE EFFECT OF ZEBRA MUSSELS (DREISSENA POLYMORPHA) ON SEDIMENT METABOLISM AND THE RELEASE OF NITROGEN AND PHOSPHORUS TO THE OVERLYING WATER  
I Grigorovich, H MacIsaac, J Makarewicz, T Kelly, S Afanasiev, A Primak, G Zhdanova  
M Mayer, J DeLancey

12.15 - 12.30

21-28 GLOBAL DISTRIBUTION, ECOLOGICAL TRAITS AND POTENTIAL IMPACTS OF THE INVADING CLADOCERAN CERCOPAGIS PENGOL  
I Grigorovich, H MacIsaac, J Makarewicz, T Kelly, S Afanasiev, A Primak, G Zhdanova  
M Mayer, J DeLancey

12.30 - 13.30

Lunch

cont. page 48

Tuesday June 6 - morning

**Room 17**

Special session

**11.00 -12.30**

**SS 24 Sustainable use and management of international fresh waters**

Chairman: Maria José Lemios Boavida

11.00 - 11.15

24-01 INTERNATIONAL FRESH WATERS: SUSTAINABLE USE AND MANAGEMENT  
M Boavida

11.15 - 11.30

24-02 THE PORTUGUESE-SPANISH CONVENTION ON SHARED RIVER BASINS: A FRAMEWORK FOR  
CO-OPERATION  
P Serra, A Henriques

11.30 - 11.45

24-03 BOUNDARIES AND ABORDERS - WHERE SCIENCE MEETS REALITY: THE DANUBE, A  
TRANSBOUNDARY RIVER IN EUROPE (AN IAD CONTRIBUTION)  
J Bloesch

11.45 - 12.00

24-04 BUILDING TRANSBOUNDARY GOVERNANCE IN THE BALTICS THROUGH EXCHANGE OF  
INFORMATION WITH THE NORTH AMERICAN GREAT LAKES REGION  
J Wagemakers

12.00 - 12.15

24-05 ESTABLISHMENT OF WATER QUALITY INDICES: PRINCIPLES AND EXPERIENCE  
A Parparov, K Hambright, A Ostapenia, L Hakanson, V Bulyon

12.15 - 12.30

24-06 REFORMING THE GOVERNANCE OF WATER IN LIGHT OF GLOBAL CLIMATE CHANGE  
J W. Dellapenna

12.30 - 13.30

Lunch

ASLO 2000 - PROGRAM

## Tuesday June 6 - morning

Room 20

Special session

09.30 - 10.30

### SS 27 Climate and Aquatic systems

Chairmen: Stephen C Maberly, Jean-Pierre Gattuso, Jeffrey Polovina and Keith Brander

09.30 - 09.45

27-19 EMPIRICAL EVIDENCE FOR NORTH PACIFIC REGIME SHIFTS IN 1977 AND 1989  
Nathan, J Mantua

09.45 - 10.00

27-20 HOW WILL CORAL REEF ECOSYSTEMS REACT TO PROJECTED CHANGES IN SEA TEMPERATURE?  
O Hoeg-Guldberg

10.00 - 10.15

27-21 THE GLOBAL INCREASE IN CO<sub>2</sub> AFFECTS CORAL REEF METABOLISM  
N Leclercq, J Gattuso, J Jaubert

10.15 - 10.30

27-22 CLIMATE VARIABILITY AND MARINE ECOSYSTEM RESPONSE  
J Dippner

10.30 - 11.00

Coffee

11.00 - 12.30

### SS 15 Organic matter as a linkage between terrestrial and freshwater ecosystem

Chairman: Robert G Wetzel

11.00 - 11.30

15-01 DETRITAL BOWLS, NOT ALGAL BOWLS: COUPLING OF ALLOCHTHONOUS ORGANIC MATTER TO HETEROTROPHIC ENERGETIC FLUXES AND REGULATION OF FRESHWATER ECOSYSTEMS  
R G Wetzel

11.30 - 11.45

15-02 ORGANIC MATTER DYNAMICS AT THE GROUND WATER AND SURFACE WATER INTERFACE OF A MOUNTAIN STREAM  
C Dahm, M Baker

11.45 - 12.00

15-03 IMPORTANCE OF TERRESTRIAL AND OTHER NON-ALGAL CARBON SOURCES TO BACTERIA IN LARGE LAKES  
J Cotner, B Biddanda, T Johengen

12.00 - 12.15

15-04 MICROBIAL DEGRADABILITY OF FRESHWATER DOM FROM DIFFERENT SOURCES, AND UNDER DIFFERENT ENVIRONMENTAL CONDITIONS  
L Tranvik, D Bastviken, S Bertilsson

12.15 - 12.30

15-05 UTILIZATION AND VARIATION IN DISSOLVED ORGANIC CARBON (DOC): CONNECTIONS OF TERRESTRIAL CARBON WITH THE METABOLISM AND FOOD WEBS OF LAKES  
M Pace, J Cole, S Carpenter, J Kitchell

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Tuesday June 6 - morning

**Auditorium**

Special session

**11.00-12.30**

**SS33 Coastal embayments as important land-margin ecosystems: Fate and transformations of reactive nutrients**

Chairman: Karen J McGlathery and Iris C Anderson

11.00 - 11.30

33-01 COASTAL EMBAYMENTS AT THE LAND MARGIN: FATE AND TRANSFORMATIONS OF REACTIVE NUTRIENTS  
K McGlathery

11.30 - 11.45

33-02 PATHWAYS AND FATE OF NITROGEN IN MARGINAL BRACKISH ENVIRONMENTS DOMINATED BY MACROALGAE  
P Viaroli, C Bondavalli, M Naldi, L Taj

11.45 - 12.00

33-03 NITROGEN TRANSFORMATION AND LOSS IN COASTAL LAGOON MESOCOSMS  
B Nowicki, E Requentina, B Buckley, S Granger, S Nixon

12.00 - 12.15

33-04 MACROALGAL N AND P CONTENT REFLECTS LATITUDINAL GRADIENTS AND WATER RESIDENCE TIMES IN ESTUARIES, BAYS, AND ROCKY SHORES ALONG THE WEST COAST OF THE US  
P Fong, K Boyer, A Armitage

12.15 - 12.30

33-05 NITROGEN REMOVAL IN SHALLOW COASTAL BAYS  
Tage Dalsgaard, Søren Rysgaard

12.30 - 13.30

Lunch

cont. page 49

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## Tuesday June 6 - morning

### Bella Vista I

Contributed session

#### 09.30 - 10.45

#### CS 14 Extreme environments (e.g. saline lakes, high/low temperatures)

Chairman: Michael Kühl

09.30 - 09.45

14-01 ECOLOGICAL SUCCESSION OF ZOOPLANKTON SPECIES IN A TEMPORARY RIVER IN A SEMI ARID REGION OF BRAZIL  
M Crispim, R Paz, J Barbosa, T Watanabe

09.45 - 10.00

14-02 TOLERANCE OF FLAGELLATED PROTOZOA TO EXTREME ENVIRONMENTAL CONDITIONS POTENTIALLY ENCOUNTERED AT DEEP-SEA HYDROTHERMAL VENTS  
M Atkins, M Hanna, E Kupetsky

10.00 - 10.15

14-03 IN SITU STIMULATION OF MICROBIAL SULFATE REDUCTION IN AN ACIDIC MINING LAKE BY ADDITION OF ORGANIC SUBSTRATE  
R Frömmichen, W Geller, P Herzsprung, S Kellner, A Lorke, K Wendt-Potthoff

10.15 - 10.30

14-04 SEDIMENT BIOGEOCHEMISTRY AND SOLUTE FLUXES THROUGH THE SEDIMENT-WATER INTERFACE OF GAS-HYDRATE BEARING SEDIMENTS AT THE CASCADIA SUBDUCTION ZONE  
U Witte, A Boetius, P Linke, O Pfannkuche, D Rickert, H Sahling

10.30 -10.45

14-05 SUBSURFACE WATER TEMPERATURES IN POLAR DESERT STREAMS  
M Gooseff, D McKnight, P Conovitz

10.30 - 11.00

Coffee

Tuesday June 6 - morning

**Room 17**

Contributed session

**09.30 - 10.15**

**CS 17 Optics**

Chairman: Colin Reynolds

09.30 - 09.45

17-01 OPTICAL PROPERTIES OF THE CENTRAL CALIFORNIA COAST DURING THE UPWELLING SEASON AND ATTEMPTS AT CLOSURE  
E Palomino, R Maffione, W Broenkow, F Chavez

09.45 - 10.00

17-02 BIO-OPTICAL CHARACTERISTICS OF SNOW AND ICE COVER OF NORTHERN LAKES AND RIVERS: IMPLICATIONS OF GLOBAL CHANGE  
C Belzile, W Vincent, J Gibson

10.00 - 10.15

17-03 A TECHNIQUE FOR ESTIMATING SPECTRAL PROPERTIES AND TRACING SOURCE SIGNATURES OF CHROMOPHORIC DISSOLVED ORGANIC MATTER (CDOM) IN COASTAL WATERS  
C Stedmon, S Markager, H Kaas

10.30 - 11.00

Coffee

## Tuesday June 6 - morning

### Auditorium

Contributed session

09.30 - 10.30

### CS 27 Zooplankton ecology

Chairmen: Karl Rothhaupt, Markku Viitasalo and Torkel Gissel Nielsen

09.30 - 09.45

27-21 HATCHING RATES AND FEEDING BEHAVIOUR OF THE COPEPOD ONCAEA MEDIA IN THE E MEDITERRANEAN  
S Zervoudaki, E Christou, I Siokou-Frangou, T Nielsen

09.45 - 10.00

27-22 INGESTION AND PRODUCTION OF FAECAL PELLETS AND HOUSES BY THE APPENDICULARIAN OIKOPLEURA DIOICA EXPOSED TO 5 DIFFERENT PHYTOPLANKTON.  
P Tiselius, K Tönnesson, M Maar, E Friis Møller, S Satapoomin, T Zervoudaki, E Christou, A Sell, J Pedersen.

10.00 - 10.15

27-23 COPEPOD GRAZING ON PHYTOPLANKTON AND PLANKTONIC CILIATES IN THE MEDITERRANEAN SEA A GIANNAKOUROU  
I Siokou, T Zervoudaki, P Pitta, E Christou

10.15 - 10.30

27-24 SOURCES OF ANNUAL RECRUITMENT OF ACARTIA TONSA (COPEPOD: CALANOIDA) IN THE PECONIC BAY ESTUARY, LONG ISLAND, NEW YORK  
E Hillebrand, D Lonsdale

10.30 - 11.00

Coffee

Tuesday June 6 - afternoon

**Bella Vista I**

Special session

13.30 - 15.00

**SS 01 The interface between theory and field experiment: getting beyond yes-or-no answers**

Chairmen: Orlando Sarnelle and Sebastian Diehl

13.30 - 13.45

01-06 EFFECTS OF MIXING DEPTH AND BACKGROUND TURBIDITY ON PHYTOPLANKTON: THEORY AND FIELD EXPERIMENTS  
S Berger, S Diehl, R Ptacnik

13.45 - 14.00

01-07 TEMPERATURE EFFECTS ON EXPORT PRODUCTION  
E Laws

14.00 - 14.15

01-08 HOW IMPORTANT IS SPECIES SORTING TO THE RESPONSE OF ECOSYSTEMS TO ENVIRONMENTAL CHANGE? THEORY AND EXPERIMENTS IN PONDS  
Val H Smith

14.15 - 14.30

01-09 INTERTIDAL PREDATION DYNAMICS DEPICTED BY CELLULAR AUTOMATA MODELS.  
C Robles, R Desharnais

14.30 - 14.45

01-10 UNRAVELING THE BIFURCATION STRUCTURE OF A LIVE PREDATOR-PREY SYSTEM  
G Fussmann, S Ellner, N Hairston

14.45 - 15.00

01-11 CROSSING THE BOUNDARY BETWEEN LABORATORY AND FIELD EXPERIMENTS: FOOD-LIMITED GROWTH IN MARINE FISH LARVAE  
A Bochdansky, P Grønkjær, W Leggett

15.30 - 16.00

Coffee

**Hall A1**

**16.00 - 18.00**

**Poster session : Section I**

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## Tuesday June 6 - afternoon

### Hall A3

Session session

13.30 - 15.45

**SS14 Crossing the membrane boundary between life and death:  
The biogeochemistry of lysis and EOC production by phytoplankton and bacteria**

Chairmen: David Bird and Susana Augusti

13.30 - 14.00

14-01 UNDERSTANDING AND QUANTIFYING CELL DEATH: NEW INSIGHTS INTO THE FUNCTIONING OF AQUATIC SYSTEMS  
S Agustí

14.00 - 14.15

14-02 MORTALITY IN PHYTOPLANKTON: WHAT'S GOING ON INSIDE THE MEMBRANE?  
J Berges

14.15 - 14.30

14-03 TRANSPARENT EXOPOLYMERIC PARTICLES (TEP) IN NORTH-WESTERN MEDITERRANEAN SEA: ABUNDANCE, SIZE DISTRIBUTION AND C:N RATIO.  
S Beauvais, R Lemee, X Mari, M Pedrotti

14.30 - 14.45

14-04 PROGRAMMED CELL DEATH OF THE BLOOM FORMING DINOFLAGELLATE PERIDINIUM GATUNENSE IS MEDIATED BY CO<sub>2</sub> LIMITATION, OXIDATIVE STRESS AND A CONDITIONING FACTOR  
A Kaplan, A Vardi, T Rozenberg, I Frank-Berman, O Hadas, A Levine

14.45 - 15.00

14-05 TEN YEARS AFTER: REVISITING THE SIGNIFICANCE OF VIRUSES TO MORTALITY AND CARBON FLOW IN AQUATIC ECOSYSTEMS  
C Suttle, S Wilhelm

15.00 - 15.15

14-06 THE C:N RATIO OF ORGANIC MATTER IN A SHALLOW SEDIMENT TRAP INCLUDING ITS SOLUBILIZATION PRODUCTS  
P Kähler, E Bauerfeind

15.15 - 15.30

14-07 SEVERAL TECHNIQUES TO DETERMINE CELL LYSIS DISCUSSED FROM EXAMPLES  
C Brussaard

15.30 - 15.45

14-08 FACTORS CONTROLLING PHYTOPLANKTON LYSIS RATE IN QUEBEC LAKES  
D F Bird, M Pominville

15.30 - 16.00

Coffee

### Hall A1

16.00 - 18.00

Poster session : Section I

Tuesday June 6 - afternoon

**Room 20**

Special session

**13.30 - 15.00**

**SS 15 Organic matter as a linkage between terrestrial and freshwater ecosyst**

Chairman: Robert G Wetzel

13.30 - 13.45

15-06 ORGANIC MATTER INPUT AND USE DURING SPRING RUNOFF INTO AN ARCTIC LAKE  
J Hobbie, G Kling, M Bahr

13.45 - 14.00

15-07 LEACHING OF ORGANIC MATTER FROM FORESTED CATCHMENTS IN FINLAND  
P Kortelainen, M Ahtiainen, L Finer, T Mattsson, T Sallantaus, S Saukkonen

14.00 - 14.15

15-08 ASSESSMENT OF ORGANIC CARBON BIOAVAILABILITY AMONG HABITATS AND HYDROLOGICAL INPUTS IN THE SACRAMENTO AND SAN JOAQUIN RIVER DELTA  
W Sobczak, J Cloern, B Cole, T Schraga

14.15 - 14.30

15-09 CADMIUM FREE-ION (CD<sup>2+</sup>) RELEASE FROM DISSOLVED FULVIC ACID AND NATURAL DISSOLVED ORGANIC CARBON AS A FUNCTION OF UVB-DOSE USING AN ION-EXCHANGE TECHNIQUE  
J Auclair, R Néron, C Fortin

14.30 - 14.45

15-10 NATURAL AND ANTHROPOGENIC INPUT OF DISSOLVED ORGANIC CARBON IN SURFACE WATERS  
A Sachse, J Gelbrecht, C Steinberg

14.45 - 15.00

15-11 CHANGES IN NUTRIENT MINERALIZATION AND CARBON POOLS DURING MAXIMIZED DENITRIFICATION IN RIPARIAN WETLANDS  
L Kamp-Nielsen, T Davidsson, C Hoffmann

15.30 - 16.00

Coffee

**Hall A1**

**16.00 - 18.00**

**Poster session : Section I**

## Tuesday June 6 - afternoon

**Bella Vista II+III**

Special session

**13.30 - 15.00**

### **SS 20 The role of aquatic macrophytes in lakes**

Chairman: Erik Jeppesen

13.30 - 14.00

20-10 RESISTANCE AND RESILIENCE OF CHAROPHYTES FOLLOWING AN INCREASE AND A REDUCTION OF P-LOADING  
M Meijer, R Portielje, W Joosse, R Noordhuis, M Van den Berg, H Coops, B Ibelings, E Lammens

14.00 - 14.15

20-11 ANALYZING AND PREDICTING THE OCCURRENCE OF AQUATIC MACROPHYTES IN DUTCH SHALLOW LAKES USING LOGISTIC MODELS  
M Van den Berg, W Joosse, H Coops

14.15 - 14.30

20-12 INCREASE OF CHARA RETURNS STATUS AS WATERBIRD HOTSPOT TO LAKE VELUWE, THE NETHERLANDS  
R Noordhuis, M van den Berg, J Tempel

14.30 - 14.45

20-13 SUBMERGED VEGETATION HAMPERS THE GROWTH AND TOXIN PRODUCTION OF CYANOBACTERIA  
T Kairesalo, J Horppila, K Kuoppamäki, A Väisänen, J Vaitomaa, K Sivonen

14.45 - 15.00

20-14 THE EFFECTS OF MACROPHYTES ON THE WATER QUALITY DURING A DROUGHT IN A SHALLOW TROPICAL LAKE (L. CHAD)  
J Lemoalle, S Thomas

15.30 - 16.00

Coffee

**Hall A1**

**16.00 - 18.00**

**Poster session : Section I**

Tuesday June 6 - afternoon

**Hall A2**

Special Session

**13.30 - 15.30**

**SS 21 Aquatic species invasions**

Chairmen: David Reid, Hugh MacIsaac and Gregory M Ruiz

13.30 - 14.00

21-28 TRANSITIONS IN INVADER DEMOGRAPHICS AND PREY COMMUNITY COMPOSITION FOLLOWING THE INVASION OF HARP LAKE, ONTARIO, CANADA, BY THE SPINY WATER FLEA, BYTHOTREPHES  
N Yan, A Blukacz, W Sprules, P Kindy, D Hackett

14.15 - 14.30

21-30 MODELING BYTHOTREPHES INVASIONS IN EUROPE AND NORTH AMERICA  
H MacIsaac, H Ketelaars, I Grigorovich, C Ramcharan, N Yan

14.30 - 14.45

21-31 IMPACTS OF BIOLOGICAL INVASIONS ON FRESHWATER ECOSYSTEMS  
E Mills, K Holeck

14.45 - 15.00

21-32 UNDERSTANDING PATHWAY COMPLEXITY: CHANGES IN BALLAST WATER BIOTA DURING TRANSOCEANIC VOYAGES  
L Smith, B Galil, G Ruiz

15.00 - 15.15

21-33 ALIENS IN THE MEDITERRANEAN: PATTERNS AND INTERACTIONS.  
B S Galil

15.15 - 15.30

21-34 DEVELOPMENT OF MANAGEMENT AND CONTROL STRATEGIES FOR INTRODUCED MACROALGAE IN THE AUSTRALIAN REGION.  
M L Campbell, N J Bax

15.30 - 16.00

Coffee

**Hall A1**

**16.00 - 18.00**

**Poster session : Section I**



## Tuesday June 6 - afternoon

### Auditorium

Special session

**13.30 - 15.45**

### **SS 33 Coastal embayments as important land-margin ecosystems: Fate and transformations of reactive nutrients**

Chairmen: Sigrún H Jónasdóttir and Wim C M Klein Breteler

13.30 - 13.45

33-06 IMPACT OF NUTRIENTS AND SEDIMENTS ON AN AUSTRALIAN ESTUARY, MORETON BAY  
W Dennison, E Abal

13.45 - 14.00

33-07 TRANSFORMATION OF PARTICLE-BOUND PHOSPHORUS AT THE LAND-SEA INTERFACE  
H Jensen, T Bendixen, F Andersen

14.00 - 14.15

33-08 SALT-WATER INTRUSION INTO SHALLOW COASTAL AQUIFERS: IMPACT ON SEDIMENT NITROGEN AND PHOSPHORUS POOLS AND POTENTIAL FOR ALTERING NUTRIENT FLUXES  
S Joye, R Lee

14.15 - 14.30

33-09 MACROALGAL RETENTION AND TURNOVER OF NITROGEN ACROSS A NUTRIENT GRADIENT IN A SHALLOW COASTAL EMBAYMENT  
A Tyler, K McGlathery

14.30 - 14.45

33-10 GRADIENTS OF EUTROPHICATION REVEALED BY STABLE ISOTOPES (D15N, D13C) IN COASTAL SEDIMENTS OF THE BALTIC SEA.  
M Meili, R Carman, M Mörth, P Jonsson

14.45 - 15.00

33-11 INFLUENCE OF SHELLFISH FARMING ACTIVITIES ON THE BIOGEOCHEMICAL COMPOSITION OF THE WATER COLUMN IN THE THAU LAGOON  
P Souchu, A Vaquer, Y Collos, J Deslous-Paoli

15.15 - 15.30

33-13 TRAPPING AND RECYCLING OF ORGANIC MATTER IN A SMALL, TEMPERATE ESTUARY  
I Anderson, J Bauer, H Wang

15.30 - 15.45

33-14 A FOUR-YEAR EUTROPHICATION EXPERIMENT IN OPEN LAND-LOCKED BAY II. RESPONSE ON HETEROTROPHS  
Y Olsen

15.30 - 16.00

Coffee

### Hall A1

**16.00 - 18.00**

**Poster session : Section I**

Tuesday June 6 - afternoon

**Room 19**

Contributed session

**13.30 - 15.30**

**CS 16 Microbial food web interactions**

Chairman: Klaus Jürgens

13.30 - 13.45

16-01 BACTERIVOROUS AND ALGIVOROUS CILIATES AS A FOOD SOURCE FOR THE ROTIFER BRACHIONUS CALYCIFLORUS  
S Mohr, R Adrian

13.45 - 14.00

16-02 TROPHIC INTERACTIONS BETWEEN THE MESOZOOPANKTON AND THE MICROBIAL WEB IN CONTRASTING FOOD WEBS  
S Wickham, R Adrian, N Butler

14.00 - 14.15

16-03 OUTBREAKS OF MIXOTROPHIC ALGAE: MULTIPLE RESOURCE EXPLOITATION OR COUPLED PROCESSES?  
S Watson, E McCauley

14.15 - 14.30

16-04 CONTROL OF PICOPLANKTON IN THE GULF OF AQABA DURING THE SPRING BLOOM  
U Berninger, S Wickham

14.30 - 14.45

16-05 COMPETITION BETWEEN ALGAE AND BACTERIA FOR PHOSPHORUS AND ITS EFFECTS ON THE DISSOLVED ORGANIC CARBON (DOC) POOL: STUDIES OF PLANKTONIC FOOD WEBS IN MICROCOSMS  
L Olsen, O Vadstein, H Reinertsen

14.45 - 15.00

16-06 COUPLING THE MICROBIAL FOOD WEB WITH FISH: ARE BACTERIA ATTACHED TO CYANOBACTERIA AN IMPORTANT FOOD SOURCE FOR JUVENILE ROACH?  
N Kamjunke, T Mehner

15.00 - 15.15

16-07 BACTERIAL LOSSES TO PREDATION IN THE CENTRAL ATLANTIC OCEAN IN SPRING AND AUTUMN, 1995  
E Vazquez-Dominguez, J Gasol, S Agustj, D Vaque

15.15 - 15.30

16-08 DIRECT AND INDIRECT EFFECTS OF SEDIMENT RESUSPENSION ON HETEROTROPHIC PROTISTAN COMMUNITIES  
T Garstecki, S Wickham

15.30 - 16.00

Coffee

**Hall A1**

**16.00 - 18.00**

**Poster session : Section I**

## Wednesday June 7

### Hall A2

08.30 - 09.30

Plenary  
chaired by Bo Riemann

#### **Mary I Scranton**

State University of New York at Stony Brook, USA.

#### ZONES OF LOW OXYGEN AND THE REDOX TRANSITION LAYER AS BOUNDARIES IN AQUATIC ENVIRONMENTS

##### *Abstract*

*The boundary between oxic and anoxic conditions is a region of opportunity, as well as a barrier, in aquatic environments. Although lowered oxygen concentrations can act as a barrier for many larger organisms, the oxic/anoxic transition zone is also home to many microbial species, which take advantage of the relatively close juxtaposition of oxidized and reduced chemical compounds. Because of the strong chemical gradients, biological populations become strongly stratified. Results from a variety of oxic/anoxic transition zones in marine and fresh waters will be discussed.*

10.30 - 11.00

Coffee break

Morning sessions, page 50 to 58

12.30 - 13.30

Lunch

15.30 - 16.00

Coffee break

Afternoon sessions, page 59 to 67

#### **Program, Wednesday June 7**

Wednesday June 7 - morning

Hall A3

Special session

09.30 - 12.30

**SS 08 Microbial diversity and community structure in aquatic environments - regulating mechanisms in different habitats**

Chairmen: Michard Christen and Manfred G Höfle

09.30 - 10.00

08-01 COMMUNITY FINGERPRINTING IN AQUATIC ECOSYSTEMS  
G Muyzer

10.00 - 10.15

08-02 GENETIC DIVERSITY OF EUKARYOTIC PICOPANKTON IN DIFFERENT OCEANIC REGIONS BY SSU RIBOSOMAL RNA GENE CLONING AND SEQUENCING  
C Pedros-Alio, B Diez, R Massana

10.15 - 10.30

08-03 BIODIVERSITY AND OCCURRENCE PATTERNS OF THERMOCOCCUS SP. AT DEEP-SEA HYDROTHERMAL VENTS  
A Teske, C Wirsen, S Molyneaux, A Gomez, H Jannasch, V Edgcomb, D Kysela

10.30 - 11.00

Coffee

11.00 - 11.15

08-04 MARINE PROKARYOTE DIVERSITY AND SPATIAL SCALE OF COMMUNITY HETEROGENEITY ACROSS SURFACE WATERS OF THE PACIFIC OCEAN  
M Demarest, M Moline, C Kitts, A Schaffner

11.15 - 11.30

08-05 A TIME SERIES OF SMALL SUBUNIT RIBOSOMAL RNA GENES FROM UNCULTIVATED PICOPANKTON IN MONTEREY BAY, CALIFORNIA.  
M Suzuki, E DeLong

11.30 - 11.45

08-06 USE OF DENATURING GRADIENT GEL ELECTROPHORESIS (DGGE) TO FOLLOW CHANGES IN THE FRESHWATER MICROBIAL COMMUNITIES  
K Haukka, E Heikkinen, M Niva, T Kairesalo, K Sivonen

11.45 - 12.00

08-07 DYNAMICS OF COASTAL BACTERIOPLANKTON IN THE NORTH SEA DURING A TIDAL CYCLE  
T Brinkhoff, H Grossart

12.00 - 12.15

08-08 MARINE BACTERIOPHAGE DIVERSITY IN THE SOUTHEASTERN PACIFIC OCEAN  
S Jiang, L Zhang

12.15 - 12.30

08-09 FINGERPRINTING GENETIC DIVERSITY AND METABOLIC ACTIVITY OF BACTERIOPLANKTON IN THE CENTRAL BALTIC BY RIBOSOMAL RNA/DNA ANALYSIS  
B Engelen, I Brettar, M Höfle

12.30 - 13.30

Lunch

cont. page 62

## Wednesday June 7 - morning

**Bella Vista II+III**

Special session

**09.30 - 12.45**

### **SS19 Lakes in flood-pulsed environments**

Chairman: A D Buijse and B Ibelings

09.30 - 10.00

19-01 FLOODPLAIN LAKES: LIMNOLOGY AND FUNCTIONS IN THE RIVER-FLOODPLAIN SYSTEM  
W Junk

10.00 - 10.15

19-02 THE INFLUENCE OF MAN-INDUCED CHANGES IN HYDROLOGY AND WATER QUALITY ON THE ECOLOGICAL STATE OF DANUBE DELTA LAKES  
M Staras, W Oosterberg, A Buijse, I Navodaru, J Hanganu, H Coops, L Bogdan, B Ibelings, A Constantinescu

10.15 - 10.30

19-03 LIGHT CONTROL OF PHYTOPLANKTON PRODUCTIVITY IN A SHALLOW, FLOOD-PULSED TROPICAL LAKE  
R Arfi, V Benech

10.30 - 11.00

Coffee

11.00 - 11.15

19-04 FLOODS AND VEGETATION DYNAMICS: A CONCEPTUAL BASIS FOR ECOLOGICAL RESTORATION OF FLOODPLAIN LAKES  
C Amoros, G Bornette

11.15 - 11.30

19-05 RELATION BETWEEN DISCHARGE AND PHYTOPLANKTON DYNAMICS ALONG A RIVER-LAKE SYSTEM  
J Köhler

11.30 - 11.45

19-06 IMPACT OF WATER-LEVEL FLUCTUATIONS ON THE PERIPHYTON COLONIZATION OF VERTICAL ARTIFICIAL SUBSTRATA IN A TROPICAL LAKE (BROBO, WESTAFRICA)  
S Thomas, P Cecchi, D Corbin, J Lemoalle

11.45 - 12.00

19-07 DISTRIBUTION AND ABUNDANCE OF MACRO-AUTOTROPHS AMONG LAKES OF THE MACKENZIE DELTA  
M Squires, L Lesack

12.00 - 12.15

19-08 ECOLOGICAL FUNCTIONING OF LAKES IN THE FLOODPLAIN OF THE RIVER RHINE  
A Buijse, B Ibelings, G van Geest, F Roozen, H Coops, R Roijackers, M Scheffer

12.15 - 12.30

19-09 EFFECTS OF TOPOGRAPHIC POSITION ON THE ECOLOGY OF LAKES IN THE MACKENZIE DELTA AND POTENTIAL RESPONSES TO GLOBAL CHANGE  
L Lesack, M Squires, C Teichreb, P Marsh

12.30 - 12.45

19-10 ZOOPLANKTON DYNAMICS IN RIVER-LAKE ECOSYSTEM (SPREE, GERMANY)  
N Walz, H Kim

12.30 - 13.30

Lunch

## Wednesday June 7 - morning

### Room 18

Special session

#### 09.30 - 12.30

#### SS 32 Biogeochemical processes in estuaries

Chairmen: James McManus and Gar P Klinkhammer

09.30 - 10.00

32-01 DISSOLVED MANGANESE AND THE TURBIDITY MAXIMUM: HIGH-RESOLUTION DATA FROM THE COLUMBIA RIVER ESTUARY  
G Klinkhammer, J McManus

10.00 - 10.15

32-02 SEASONAL DYNAMICS OF SUSPENDED, SETTLING, AND RECENTLY SEDIMENTED PARTICULATE ORGANIC MATTER IN A DROWNED RIVER ESTUARY  
E Clesceri, M Alperin, C Martens, D Albert, M Cotte

10.15 - 10.30

32-03 TEMPORAL AND SPATIAL VARIATIONS IN MICROBIAL BIOGEOCHEMISTRY OF A COASTAL PLAIN ESTUARY  
M Schwartz, A Beaugerard, A Parker, J Sharp

10.30 - 11.00

Coffee

11.00 - 11.15

32-04 TEMPORAL VARIATION IN PARTICULATE AND DISSOLVED TRACE METALS IN THE TILLAMOOK BAY WATERSHED, OREGON  
D Colbert, J McManus

11.15 - 11.30

32-05 DISSOLVED AND PARTICULATE TRACE ELEMENTS IN THE INTERTIDAL AREA OF THE SOUTHERN GERMAN BIGHT  
J Hinrichs, B Schnetger, H Brumsack

11.30 - 11.45

32-06 BENTHIC FLUXES OF ORGANIC MATTER AND CONTAMINANTS IN SAN DIEGO BAY  
R Chen, D Chadwick, J Leather

11.45 - 12.00

32-07 RATES AND MECHANISMS OF CHEMICAL EXPORT FROM THE WADDEN SEA AND THE SOUTH ATLANTIC BIGHT  
T Shaw, H Brumsack, B Schnetger, J Hinrichs, J Krest

12.00 - 12.15

32-08 HYDROPHOBIC ORGANIC CONTAMINANTS AS TRACERS OF ESTUARINE DYNAMICS IN THE CHESAPEAKE BAY  
J Baker

12.15 - 12.30

32-09 DENITRIFICATION IN COASTAL SEDIMENT (AARHUS BIGHT, DENMARK)  
L Nielsen

12.30 - 13.30

Lunch

ASLO 2000 - PROGRAM

## Wednesday June 7 - morning

### Hall A2

Special session

09.30 - 12.30

#### SS 37 Spatial and temporal scales controlling plankton dynamics

Chairmen: Hans W Paerl and Kaisa Kononen

09.30 - 10.00

37-01 INTERACTING SMALL- AND LARGE-SCALE CONTROLS OF PHYTOPLANKTON COMMUNITIES: EXPLORING LINKS TO BLOOM DYNAMICS  
H Paerl

10.00 - 10.15

37-02 CROSS SYSTEMS PATTERNS OF NITRATE UPTAKE AND PHYTOPLANKTON COMMUNITY STRUCTURE  
Y Collos, A Vaquer, P Souchu

10.15 - 10.30

37-03 PHYTOPLANKTON RESOURCE COMPETITION: EFFECTS OF VARIABLE NUTRIENT UPTAKE RATES  
E Litchman, P Bossard, C Klausmeier

10.30 - 11.00

Coffee

11.00 - 11.15

37-04 LARGE SPATIAL SCALE MEASUREMENTS OF MICROBIAL ENZYME ACTIVITIES USING AN AUTOMATED CONTINUOUS UNDERWAY ENZYME ASSAY  
J Ammerman

11.15 - 11.30

37-05 GYMNODINIUM MIKIMOTOI ICHTYOTOXINS AT THE CENTIMETER SCALE: 3D-MODELLING OF THE POPULATION CONFINEMENT IN THE PYCNOCLINE (BAY OF BISCAY - FRANCE)  
P Gentien

11.30 - 11.45

37-06 PHYTOPLANKTON RESPONSE TO DIFFERENT PARAMETERIZATIONS OF TURBULENT MIXING IN THE UPPER OCEAN MIXED LAYER  
W Barkmann

11.45 - 12.00

37-07 SPATIAL VARIABILITY OF PHYTOPLANKTON PHYSIOLOGY AND PRODUCTION THROUGHOUT THE ATLANTIC OCEAN  
D Suggett, P Holligan, J Aiken

12.00 - 12.15

37-08 PHYSICAL CONTROLS ON PHYTOPLANKTON PHOTOPHYSIOLOGY IN THE REGION OF A SHELF SEA FRONT: AN FRRF BASED FIELD STUDY.  
M Moore, P Holligan, J Sharples

12.15 - 12.30

37-09 SEASONAL VARIATION IN PHYTOPLANKTON PRODUCTION, SPECIATION AND PHYSIOLOGY IN THE GREENLAND SEA (NORTHERN NORTH ATLANTIC)  
K Richardson, A Kristensen, S Markager

12.30 - 13.30

Lunch

cont. page 65

## Wednesday June 7 - morning

### Auditorium

Special session : Tutorial

### 09.30 - 12.30

#### SS 43 Oxic-anoxic boundary phenomena

Chairman: Peter Casper, Donald D Adams and Pirkko Kortelainen

09.30 - 10.00

43-01 THE BORDERS OF THE ANOXIC WORLD; A TUTORIAL ON REDOX CYCLING BY AN OXYGEN RESPIRING ORGANISM  
B Wehrli

10.00 - 10.15

43-02 THE EFFECT OF ANOXIA ON THE FLUX OF DIFFERENT ORGANIC MATTER SPECIES ACROSS THE SEDIMENT-WATER INTERFACE  
A Skoog, L Wacker

10.15 - 10.30

43-03 SEDIMENT-GAS IN LAKE BALGTON, HUNGARY  
K Csermák

10.30 - 11.00

Coffee

11.00 - 11.15

43-04 PHOSPHORUS RELEASE FROM DEEP WATER SEDIMENTS IN AN OLIGOTROPHIC LAKE AND ITS RELATIONSHIP TO THE OXYGEN DEPLETION IN THE OVERLYING WATER  
C Boylen, A Eiling, L Eichler

11.15 - 11.30

43-05 GAS TRANSPORT ACROSS REDOX BOUNDARIES IN NORTHERN GERMAN LAKES  
D Adams, P Casper, A Furtado

11.30 - 11.45

43-06 MOLECULAR ECOLOGICAL ANALYSIS OF METHANOGENS IN SURFACE SEDIMENTS OF AN EUTROPHIC FRESHWATER LAKE (L. DAGOW, NE GERMANY)  
P Casper, M Siegesmund, A Furtado

11.45 - 12.00

43-07 HIGH-RESOLUTION INVESTIGATION OF LAKE PAVIN REDOX BOUNDARY (FRANCE)  
E Viollier, D Jezequel, G Michard, P Alberic, F Prevot, M Evrard, D Lavergne, M Pepe, G Sarazin

12.00 - 12.15

43-08 THE RELATION BETWEEN NUTRIENT CONCENTRATIONS IN THE PORE WATER OF ORGANIC SEDIMENTS AND THE WATER CURRENT IN WATERS OF A LOWLAND FLOODPLAIN  
R Knösche

12.15 - 12.30

43-09 MEDIA : AN OBJECT ORIENTED MODELING ENVIRONMENT FOR THE EARLY DIAGENESIS OF MARINE AND ESTUARINE SEDIMENTS.  
F Meysman, C Heip, P Herman, J Middelburg

12.30 - 13.30

Lunch

cont. page 67



## Wednesday June 7 - morning

### Room 20

Special session

09.30 - 12.30

#### **SS 46 The Response of Northeast and Northwest Atlantic Shelf Ecosystems to Climate Variability and Change**

Chairman: Charles Greene and B Planque

09.30 - 10.00

46-01 THE RESPONSE OF NORTHEAST AND NORTHWEST ATLANTIC SHELF ECOSYSTEMS TO CLIMATE VARIABILITY AND CHANGE  
C Greene

10.00 - 10.15

46-02 PHYSICAL OCEANOGRAPHY, CLIMATE AND ECOSYSTEM CHANGE IN THE NORTH ATLANTIC  
R Dickson, B Planque

10.15 - 10.30

46-03 EVIDENCE FROM THE CONTINUOUS PLANKTON RECORDER (CPR) SURVEY FOR INTERREGIONAL BIOLOGICAL RESPONSES TO HYDROMETEOROLOGICAL FORCING IN THE NORTHERN NORTH ATLANTIC  
P Reid

10.30 - 11.00

Coffee

11.00 - 11.15

46-04 NORTH ATLANTIC OSCILLATION AND SPRING BLOOM PHYTOPLANKTON COMPOSITION IN THE ENGLISH CHANNEL  
R Harris, X Irigoien, R Head, D Harbour

11.15 - 11.30

46-05 HYDROGRAPHIC AND TRANSPORT VARIABILITY ON THE NORTHWEST ATLANTIC SHELF  
C Hannah, J Loder, B Petrie, E Gonzalez

11.30 - 11.45

46-06 IMPACT OF CLIMATE VARIABILITY ON THE HYDROGRAPHY AND ECOLOGY OF THE NORTHWEST ATLANTIC SHELF  
A Pershing, C Greene

11.45 - 12.00

46-07 INTERANNUAL VARIABILITY OF CALANUS FINMARCHICUS ON GEORGES BANK AND IN THE GULF OF MAINE: RESULTS FROM THE GLOBEC STUDY  
E Durbin, M Casas, J Pierson

12.00 - 12.15

46-08 A COMPARISON OF HYDROGRAPHIC PROCESSES AND THE DISTRIBUTION OF CALANUS SPP. ON THE SCOTIAN AND LABRADOR SHELVES AND IN THEIR ADJACENT DEEP OCEANS IN THE 1990S  
E Head

12.15 - 12.30

46-09 CLIMATOLOGY AND CANONICAL INDICES OF CALANUS FINMARCHICUS ABUNDANCE, TEMPERATURE AND SALINITY ON THE US NORTHEAST CONTINENTAL SHELF  
J Goulet

12.30 - 13.30

Lunch

Wednesday June 7 - morning

**Room 19**

Contributed session

**11.00 - 12.15**

**CS 22 Stable isotopes**

Chairman: Don Canfield

11.00 - 11.15

22-01 ON THE RELATION BETWEEN PHOTOSYNTHETIC ELECTRON TRANSPORT AND NET OXYGEN EVOLUTION: THE ROLE OF OXYGEN CONSUMING PROCESSES IN THE LIGHT  
J Kromkamp, J Peene, E Morris

11.15 - 11.30

22-02 USING STABLE ISOTOPES TO TRACK METHYL AND INORGANIC MERCURY ACCUMULATION IN FRESHWATER ZOOPLANKTON  
P Pickhardt, C Folt, C Chen, B Klaue

11.30 - 11.45

22-03 TEMPERATURE DEPENDENCE OF STABLE SULFUR ISOTOPIC FRACTIONATION DURING BACTERIAL SULFATE REDUCTION IN SEDIMENTS AND PURE CULTURES  
V Brüchert, C Knoblauch, B Jørgensen

11.45 - 12.00

22-04 SULFUR ISOTOPE FRACTIONATION DURING SULFATE REDUCTION BY NATURAL POPULATIONS OF SULFATE-REDUCING BACTERIA.  
K Habicht, D Canfield

12.00 - 12.15

22-05 ISOTOPE FRACTIONATION DURING MICROBIAL SULFATE REDUCTION AT HIGH TEMPERATURES  
D Canfield, K Habicht

12.25 - 12.30

22-06 IMPORTANCE OF THE DEEP CHLOROPHYLL LAYER OF A MOUNTAIN LAKE FOR PLANKTON IN OTHER STRATA: A WHOLE-LAKE N-15 TRACER EXPERIMENT  
W. Wurtsbaugh

12.30 - 13.30

Lunch

## Wednesday June 7 - morning

**Room 17**

Contributed session

**11.00 - 12.15**

### **CS 23 Streams**

Chairman: Hartmut Arndt

11.10 - 11.15

23-01 LEAF LITTER DECOMPOSITION IN SANDY LOWLAND STREAMS  
E Meyer, L Janning, B Klar, E Rammelmann

11.15 - 11.30

23-02 SMALL-SCALE INVESTIGATION OF PHYSICO-CHEMICAL GRADIENTS IN SEDIMENTS OF A MOUNTAIN STREAM  
H Escher, E Meyer

11.30 - 11.45

23-03 MICROBIAL ACTIVITY WITHIN GRAVEL BARS AND HYPORHEIC ZONES OF TWO STREAMS OF CONTRASTING LAND USE  
S Hendricks, D White

11.45 - 12.00

23-04 NANOFAUNA OF BIOFILMS OF THE RIVER RHINE: RELATIONSHIP TO SEDIMENT AND PLANKTON COMMUNITIES  
H Arndt, K Schmidt-Denter, D Altmann, A Scherwass, M Weitere

12.00 - 12.15

23-05 THE HETEROTROPHIC NANOFLAGELLATES (HNF) IN THE PELAGIAL OF A LARGE RIVER (RIVER RHINE): STRUCTURE AND CONTROL BY PELAGIC AND BENTHIC PREDATORS  
M Weitere, H Arndt

12.30 - 13.30

Lunch

## Wednesday June 7 - morning

### Bella Vista I

Contributed session

09.30 -12.45

### CS 26 UV-radiation and the aquatic biota onsdag morning

Chairman: Ellen van Donk and Dag Hessen

09.30 - 09.45

26-01 IMPACTS OF ENHANCED ULTRAVIOLET RADIATION AND DISSOLVED ORGANIC CARBON ON THE SURVIVAL OF DAPHNIA LONGISPINA (CLADOCERA) IN A SUBARCTIC FINNISH LAPLAND  
M Rautio

09.45 - 10.00

26-02 DAPHNIA VERTICAL MIGRATION IN THE PRESENCE AND ABSENCE OF UV RADIATION UNDER FULL SPECTRUM SOLAR RADIATION: REVISITING THE DAMAGING LIGHT HYPOTHESIS  
D Leech, C Williamson

10.00 - 10.15

26-03 PHOTOCHEMICAL REACTIVITY OF AQUATIC MACROPHYTE LEACHATES: ABIOTIC TRANSFORMATIONS AND BACTERIAL RESPONSE  
A Anesio, V Farjalla, S Bertilsson, W Graneli

10.15 - 10.30

26-04 THE INTERACTION BETWEEN ULTRAVIOLET RADIATION, DOC AND ZOOPLANKTON IN FRESHWATER ECOSYSTEMS  
H De Lange, D Morris, C Williamson

10.30 - 11.00

Coffee

11.00 - 11.15

26-05 IS THE NITROGEN METABOLISM OF SILICATE-LIMITED PHYTOPLANKTON AFFECTED BY ULTRAVIOLET-B RADIATION?  
E Fouilland, M Gosselin, B Mostajir, M Levasseur, J Chanut, S Demers

11.15 -11.30

26-06 UV IRRADIATED ALGAE AFFECT FITNESS AND UV TOLERANCE OF DAPHNIA  
I Zellmer

11.30 - 11.45

26-07 UV-ABSORBING COMPOUNDS IN ZOOPLANKTON OF MOUNTAIN LAKES  
B Tartarotti, I Laurion, R Psenner, R Sommaruga

11.45 - 12.00

26-08 DIFFERENTIAL SENSITIVITY TO NATURAL UV-RADIATION AMONG PHYTOPLANKTON SPECIES IN ARCTIC LAKES (SPITSBERGEN, NORWAY)  
E Van Donk, B Faafeng, H De Lange, D Hessen

12.00 - 12.15

26-09 PHOTOSYNTHETIC RESPONSE OF PICO- AND NANOPLANKTONIC ALGAE TO UVB, UVA AND PAR IN A HIGH MOUNTAIN LAKE  
C Callieri, G Morabito, Y Huot

12.15 - 12.30

26-10 BIOREACTIVITY OF ORGANIC MATTER: MICROBIAL UTILIZATION AND THE EFFECT OF UV IRRADIATION IN THE SOUTHERN OCEAN  
B Rosenstock, M Simon

12.30 - 12.45

26-11 EFFECTS OF SOLAR UV RADIATION ON THE CHEMICAL SPECIATION OF IRON IN AQUATIC SYSTEMS  
B Sulzberger, L Emmenegger, L Sigg

12.30 - 13.30

Lunch

ASLO 2000 - PROGRAM

## Wednesday June 7 - afternoon

**Bella Vista II+III**

Special session

**13.30 - 15.30**

### **SS 02 Thermodynamics of aquatic systems**

Chairman: Søren Nors Nielsen and Colin S Reynolds

13.30 - 14.00

02-01 THERMODYNAMICS OF AQUATIC SYSTEMS - AN INTROCUCTION  
S W Nielsen

14.00 - 14.15

02-02 HOW SIMPLE THERMODYNAMICS CAN ASSIST THE AQUATIC ECOLOGIST  
C S Reynolds

14.15 - 14.30

02-03 A THERMODYNAMICALLY CONSTRAINED METABOLIC ECOSYSTEM MODEL  
J Vallino, C Hopkinson

14.30 - 14.45

02-04 VARIABILITY IN THE NORTH SEA FISH COMMUNITY AT DIFFERENT LEVELS OF SPECIES  
AGGREGATION IN AN ECOLOGICAL HIERARCHY  
D Duplisea, F Blanchard

14.45 - 15.00

02-05 HOW CAN WE DESCRIBE ADAPTATION FOR HYDROBIOLOGICAL MODELS?  
S E Jørgensen

15.30 - 16.00

Coffee

## Wednesday June 7 - afternoon

### Hall A3

Special session

13.30 - 16.45

#### **SS 08 Microbial diversity and community structure in aquatic environments - regulating mechanisms in different habitats**

Chairmen: Michard Christen and Manfred G Höfle

13.30 - 13.45

08-10 MRNA EXPRESSION AND REGULATION OF ASSIMILATORY NITRATE REDUCTASE AMONG DIVERSE MARINE BACTERIOPLANKTON ISOLATES AND COMMUNITIES  
M Booth, A Allen, J Zehr, M Gilligan, M Frischer, P Verity

13.45 - 14.00

08-11 ADVANCES IN IN SITU PCR AND RELATED IN SITU AMPLIFICATION APPROACHES FOR STUDYING AQUATIC BACTERIAL COMMUNITIES AND PROCESSES  
R Hodson, F Chen

14.00 - 14.15

08-12 IN SITU ANALYSIS OF METHANOGENIC AND SULFATE-REDUCING ACTIVITY IN ANAEROBIC SEDIMENTS OF THE DANUBE DELTA  
K Zepp, C Dinkel, G Friedl, J Friedrich, K Nyundu, E Sahan, B Wehrli

14.15 - 14.30

08-13 CHANGES IN DIVERSITY OF MARINE MICROBIAL COMMUNITIES STUDIED IN NUTRIENT ENRICHED MESOCOSMS  
H Schaefer, G Muyzer

14.30 - 14.45

08-14 CHANGES IN DIVERSITY OF MARINE BACTERIAL ASSEMBLAGES DURING MICROCOSM INCUBATIONS  
R Massana, C Pedros-Alio, E Casamayor, J Gasol

14.45 - 15.00

08-15 REGULATION OF BACTERIAL BIOMASS AND COMMUNITY STRUCTURE BY METAZOAN AND PROTOZOAN PREDATION  
K Jrgens, S Langenheder

15.00 - 15.15

08-16 IMPACT OF ULTRAVIOLET RADIATION ON BACTERIOPLANKTON COMMUNITY COMPOSITION IN MARINE SURFACE WATERS  
C Winter, M Moeseneder, G Herndl

15.15 - 15.30

08-17 CROSS INFECTIVITY OF MARINE VIRUSES UNVEILED BY GENETIC LINKAGE OF THEIR HOSTS  
F Chen, Y Zhong, D Bachoon, J Lu, S Lau, L Campbell, R Hodson

15.30 - 16.00

Coffee

16.00 - 16.15

08-18 The active proportion of aquatic bacteria - large between-habitat differences  
A Karlsson, E Törnblom, B Boström, L Tranvik

16.15 - 16.30

08-19 DEAD OR ALIVE: IMPROVEMENTS TO THE VITAL STAIN AND PROBES METHOD FOR ASSESSING THE PHYSIOLOGIC STATUS OF INDIVIDUAL BACTERIA CELLS.  
M Frischer, M Jones, V Ballard, P Verity

16.30 - 16.45

08-20 CHAOS RULES BIODIVERSITY OF PLANKTON ?  
J Huisman

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## Wednesday June 7 - afternoon

### Room 20

Special session

### 13.30 - 16.45

#### SS 16 Transport and transformation of DOM from land to sea

Chairmen: Wilhelm Granéli and Lars Tranvik

- 13.30 - 14.00 16-01 AQUATIC TRANSPORT AND TRANSFORMATION OF ORGANIC CARBON - LINKS IN THE CARBON TRANSFER FROM LAND TO SEA  
M Jansson, G Bengtsson, K Bishop, W Granéli, L Rahm, L Tranvik, J Wikner
- 14.00 - 14.15 16-02 METABOLISM OF OC IN LARGE RIVERS: INSIGHTS FROM SIMPLE MODELS AND ISOTOPE ANALYSES  
N Caraco, J Cole, J Bauer, P Raymond
- 14.15 - 14.30 16-03 BIOAVAILABILITY AND CHEMICAL COMPOSITION OF DISSOLVED ORGANIC NITROGEN IN NATURAL AND POLLUTANT SOURCES TO AQUATIC ECOSYSTEMS  
S Seitzinger, M Mazurek, R Styles, R Lauck, T Wiegner, R Sanders
- 14.30 - 14.45 16-04 PHOTOCHEMICAL RELEASE OF BIOAVAILABLE NITROGEN FROM DISSOLVED ORGANIC MATTER IN A SHALLOW COASTAL SYSTEM  
I Buffam, K McGlathery
- 14.45 - 15.00 16-05 DYNAMICS OF BIODEGRADABLE DOC PRODUCED BY FRESHWATER PHYTOPLANKTON BLOOMS  
M Sondergaard, N Borch
- 15.00 - 15.15 16-06 SORPTION OF FULVIC ACID BY STREAMBED IRON OXIDES: SORPTION RATES DETERMINED IN AN EXPERIMENTAL INJECTION OF SUWANNEE RIVER WATER INTO A MOUNTAIN STREAM  
D McKnight, G Hornberger, K Bencala, E Boyer
- 15.15 - 15.30 16-07 CHEMICAL CHARACTERISTICS OF DISSOLVED ORGANIC MATTER (DOM) IN AN ARCTIC ESTUARY - KARA SEA  
R Amon, R Benner
- 15.30 - 16.00 Coffee
- 16.00 - 16.15 16-08 THE CHEMICAL COMPOSITION AND PHOTOREACTIVITY OF RIVERINE DISSOLVED ORGANIC MATTER (DOM) AND HOW THEY IMPACT DOM BIOAVAILABILITY  
E Kaiser, B Sulzberger
- 16.15 - 16.30 16-09 DIFFERENCES IN CONSUMPTION OF ALLOCHTHONOUS DOC AT LIMNIC AND ESTUARINE CONDITIONS IN A WATERSHED  
J Wikner, R Cuadros, M Jansson
- 16.30 - 16.45 16-10 SYNERGISTIC DECOMPOSITION ALONG AN ESTUARINE GRADIENT: THE IMPACT OF PHOTOCHEMISTRY ON DOC, DON, AND DOP BIOAVAILABILITY  
S McCallister, J Bauer, H Ducklow

Wednesday June 7 - afternoon

Room 18

Special session

13.30 - 17.00

**SS 30 What is controlling the distribution of seagrasses?**

Chairmen: Ole Pedersen and Marianne Holmer

13.30 - 14.00

30-1 CONTROLS OF SEAGRASS DISTRIBUTION  
J Borum

14.00 - 14.15

30-2 LIMITED COUPLING OF MACROPHYTE PRODUCTION AND BACTERIAL CARBON CYCLING  
IN ZOSTERA SEDIMENTS  
H Boschker, A Wielemaker, B Schaub, M Holmer

14.15 - 14.30

30-3 SULFUR CYCLING IN TEMPERATE AND TROPICAL SEAGRASS SEDIMENTS  
M Holmer, F Andersen, S Nielsen, H Boschker

14.30 - 14.45

30-4 SEAGRASS SPECIES REACT INDEPENDENTLY TO WATER QUALITY IN SOUTH FLORIDA  
J Fourqurean, J Boyer

14.45 - 15.00

30-5 SULPHATE REDUCTION AND NITROGEN FIXATION RATES ASSOCIATED WITH ROOTS,  
RHIZOMES AND SEDIMENTS FROM ZOSTERA NOLTII AND SPARTINA STRICTA MEADOWS  
L B Nielsen, K Finster, D Welsh, A Donnelly, R Herbert, R de Wit, B Lomstein

15.00 - 15.15

30-6 WHAT CONTROLS THE DISTRIBUTION OF SEAGRASSES?: REPRODUCTION, EVOLUTION  
AND/OR PHYSIOLOGY  
J Ackerman

15.15 - 15.30

30-7 EELGRASS (ZOSTERA MARINA) DISTRIBUTION - PAST AND PRESENT. EXAMPLES FROM  
DANISH COASTAL AREAS  
N Rask, E Bondgaard

15.30 - 16.00

Coffee

16.00 - 16.15

30-08 THE SEAGRASS PARADOX: CARBON LIMITED PHOTOSYNTHESIS OF MARINE ANGIOSPERMS  
R Zimmerman

16.15 - 16.30

30-09 SEAGRASS DIEOFF IN FLORIDA BAY 1989-1999: DECADAL TRENDS IN ABUNDANCE AND  
GROWTH OF THALASSIA TESTUDINUM  
J Zieman, J Fourqurean, T Frankovich

16.30 - 16.45

30-10 N-retention in a Thalassia hemprichii seagrass bed in South Sulawesi, Indonesia  
J Stapel, M Hemminga, C Bogert, Y Maas

16.45 - 17.00

30-11 ROLE OF ENVIRONMENTAL VARIABILITY IN STRUCTURING CHESAPEAKE BAY SEAGRASS  
COMMUNITIES  
R Wetzel, K Moore



## Wednesday June 7 - afternoon

### Hall A2

Special session

13.30 - 15.30

#### SS 37 Spatial and temporal scales controlling plankton dynamics

Chairman: Hans W Paerl and Kaisa Kononen

13.30 - 14.00

37-10 WIND-TRIGGERED EVENTS OF PHYTOPLANKTON DOWNWARD FLUX IN THE NORTHEAST WATER POLYNYA  
S Pesant, L Legendre, M Gosselin, E Bauerfeind, G Budéus

14.00 - 14.15

37-11 ZOOMING INTO & OUT OF GEOSTROPHIC FRONTS AND MARGINAL ICE ZONES: PARTICLE FLUX AND PELAGIC SYSTEM DYNAMICS  
R Peinert, E Bauerfeind, R Ramseier

14.15 - 14.30

37-12 MULTISCALE SPATIAL RELATIONSHIPS BETWEEN ZOOPLANKTON COMMUNITY STRUCTURE AND ENVIRONMENTAL HETEROGENEITY IN A CORAL REEF LAGOON  
C Avois, P Legendre

14.30 - 14.45

37-13 LONG-TERM, FINE-SCALE DISTRIBUTION AND VERTICAL MIGRATION OF ZOOPLANKTON OVER CORAL REEFS, EILAT, THE RED SEA, USING A MULTI-BEAM 3-D SONAR (FTV)  
R Yahel, J Jaffe, A Genin

14.45 - 15.00

37-14 DUAL LIMITATION OF PHYTOPLANKTON PRODUCTIVITY IN THE RED SEA BY NITROGEN AND PHOSPHORUS  
M M Tilzer

15.00 - 15.15

37-15 DEEP CHLOROPHYLL MAXIMUM CREATED BY HETEROCAPSA TRIQUETRA EHRENBERG AT THE ENTRANCE TO THE GULF OF FINLAND, BALTIC SEA  
K Kononen, P Gentien, T Huttula, M Huttunen, J Laanemets, M Lilover, J Pavelson, A Stips

15.15 - 15.30

37-16 RELATIONSHIPS BETWEEN MESOSCALE CIRCULATION, VERTICAL STRUCTURE OF THE WATER COLUMN AND PHYTOPLANKTON DISTRIBUTION IN THE CATALAN SEA.  
M Estrada

15.30 - 16.00

Coffee

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Wednesday June 7 - afternoon

**Auditorium**

Special session

**16.00 - 17.00**

**SS 42 The microbial ecology and biogeochemistry of aquatic sediments**

Chairmen: Bo Thamdrup, John W Morse and Kirsten Habicht

16.00 - 16.30

42-01 MICROBIAL ECOLOGY AND BIOGEOCHEMISTRY OF FLOODED RICE FIELDS  
R Conrad

16.30 - 16.45

42-02 INCORPORATION OF MACROPHYTES AND ANIMALS IN EARLY DIAGENETIC MODELS  
J Middelburg, P Herman, K Soetaert, M Starink, J Wijsman, F Meysman

16.45 - 17.00

42-03 A MECHANISTIC MODEL FOR METHANE EMISSION FROM RICE PADDIES  
P van Bodegom, J Goudriaan, P Leffelaar, A Stams

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## Wednesday June 7 - afternoon

### Auditorium

Special session : Tutorial

13.30 - 14.30

#### **SS 43 Oxic-anoxic boundary phenomena**

Chairman: Peter Casper, Donald D Adams and Pirkko Kortelainen

13.30 - 13.45

43-10 METHANE OXIDATION IN LAKES: IMPLICATIONS FOR METHANE EMISSION AND ENERGY TRANSFER TO PELAGIC FOOD WEBS  
L Tranvik, J Ejlertsson

13.45 - 14.00

43-11 METHANOTROPHIC BACTERIA LIVING ON SUBMERGED AQUATIC MACROPHYTES  
B Sorrell, M Downes, C Stanger

14.00 - 14.15

43-12 RELEASE OF PHOSPHORUS AND NITROGEN FROM THE BOTTOM SEDIMENTS OF STRATIFIED LAKES WITH VARIOUS METHANOGENIC ACTIVITY  
T Gonsiorczyk, P Casper, R Koschel

14.15 - 14.30

43-13 FACTORS CONTROLLING THE DISTRIBUTION, FATE AND FLUX OF METHYLMERCURY ACROSS THE SEDIMENT-WATER INTERFACE  
R Mason, J Benoit, N Lawson

15.30 - 16.00

Coffee

Wednesday June 7 - afternoon

**Room 19**

Contributed session

**13.30 - 15.15**

**CS 10 Biomanipulation and applied ecology**

Chairman: Richard Lathrop

13.30 - 13.45

10-01 PRESENTATION OF MANAGEMENT MODELS TO PREDICT THE ENVIRONMENTAL IMPACT OF SALMONID CAGE FARMING IN THE •LAND ARCHIPELAGO, BALTIC SEA  
L Nordvarg

13.45 - 14.00

10-02 LONG-TERM BIOMANIPULATION OF A STRATIFIED LAKE: DISENTANGLING TOP-DOWN AND BOTTOM-UP EFFECTS  
T Mehner, P Kasprzak, K Wysujack, U Laude, R Koschel

14.00 - 14.15

10-03 BIOMASS-DEPENDENT EFFECTS OF COMMON CARP ON WATER QUALITY: IMPLICATIONS FOR BIOMANIPULATION OF TEXAS RESERVOIRS  
W Nowlin, R Drenner, M Chumchal, S Mann

14.15 - 14.30

10-04 DIEL DISTRIBUTION PATTERN OF ROACH - A MAIN FACTOR DETERMINING ZOOPLANKTON CONSUMPTION IN A SMALL MESOTROPHIC LAKE  
S Haertel, R Eckmann

14.30 - 14.45

10-05 STOCKING PISCIVORES TO IMPROVE FISHING AND WATER CLARITY: A SYNTHESIS OF THE LAKE MENDOTA BIOMANIPULATION PROJECT  
R Lathrop, B Johnson, T Johnson, M Vogelsang, T Hrabik, J Kitchell, S Carpenter

14.45 - 15.00

10-06 CHANGE OF PHYTOPLANKTON COMPOSITION AND BIODIVERSITY IN LAKE SEMPACH BEFORE AND DURING RESTORATION  
H Buergi, P Stadelmann

15.00 - 15.15

10-07 THE HIDDEN FOOD WEB IN A TROPHIC CASCADE  
C Ramcharan, D McQueen, N Yan

15.30 - 16.00

Coffee

## Wednesday June 7 - afternoon

### Bella Vista I

Contributed session

13.30 - 17.00

### CS 20 Plankton and nutrient dynamics

Chairman: Peter Verity and Katarina Vrede

- 13.30 - 13.45 20-01 SPECIFIC PRIMARY PRODUCTION OF PICO-, NANNO- AND NETPLANKTON IN RELATION TO CLADOCERAN GRAZING RATES IN A MESOTROPHIC LAKE WITH A DEEP CHLOROPHYLL MAXIMUM (DCM)  
S Steiner, P Kasprzak
- 13.45 - 14.00 20-02 A TIME SERIES OF CHANGES IN NUTRIENTS AND PLANKTON IN A SUBTROPICAL ESTUARY  
P Verity
- 14.00 - 14.15 20-03 A 3D ECO-HYDRODYNAMICAL MODEL OF MEDITERRANEAN SEA  
A Crise, G Crispi, C Solidoro
- 14.15 - 14.30 20-04 EVALUATION OF LIGHT, NUTRIENT AND TEMPERATURE CONTROLS OF SESTON ELEMENTAL COMPOSITION (C:N:P) IN LAKE SUPERIOR, USA  
K Schulz, J Schampel, R Sterner
- 14.30 - 14.45 20-05 SPECIES-SPECIFIC ALKALINE PHOSPHATASE ACTIVITY OF A NATURAL FRESHWATER PHYTOPLANKTON COMMUNITY FOLLOWING NUTRIENT ENRICHMENT  
K Rengefors, C Hauper, K Ruttenberg, C Taylor, B Howes, D Anderson
- 14.45 - 15.00 20-06 MULTIPLE STRESSORS: EFFECTS OF METAL AND NUTRIENT ENRICHMENT ON PHYTOPLANKTON  
S Rick, J Sanders, G Riedel, D Breitburg
- 15.00 - 15.15 20-07 PLANKTON DYNAMICS IN COASTAL WATER MESOCOSMS WITH DIFFERENT NUTRIENT CONCENTRATIONS  
C Duerselen, T Raabe, J Sun, S Qian, U Brockmann
- 15.15 - 15.30 20-09 THE ELEMENTAL COMPOSITION OF BACTERIOPLANKTON - EFFECTS OF DIFFERENT GROWTH CONDITIONS  
K Vrede, M Heldal, S Norland, T Thingstad
- 15.30 - 16.00 Coffee
- 16.00 - 16.15 20-10 REGULATION OF BACTERIAL ACTIVITY BY NUTRIENT SUPPLY IN THE OLIGOTROPHIC OCEAN  
J Gasol, C Duarte, E Vazquez-Dominguez, D Vaqu, S Agustí
- 16.15 - 16.30 20-11 BENTHIC-PELAGIC LINKS: EFFECTS OF EUTROPHICATION ON THE PRODUCTION AND CONSUMPTION OF BENTHIC VERSUS PELAGIC ALGAE IN DANISH LAKES  
Y Vadeboncoeur, E Jeppesen, M Vander Zanden

cont. page 81



## Thursday June 8

### Hall A2

08.30 - 09.30

Plenary  
chaired by Bente Lomstein

#### **Tom Fenchel**

Marine Biological Laboratory, University of Copenhagen

#### THE AQUATIC SEDIMENT: A MULTI-BOUNDARY SYSTEM

##### *Abstract*

*Aquatic biologists once described sediments as being almost homogeneous media for the burrowing macrofauna and sediments were characterised only by mechanical properties and by net fluxes of solvents across the surface. More recent studies have revealed increasingly complex spatial (mm scale) and temporal patterns. These patterns are explained in terms of transport mechanisms, competition for light and for different electron acceptors for microbial respiration, ventilated animal burrows, and the heterogeneous distribution of particulate organic matter; the chemo- and photosensory behaviour of microorganisms is of particular significance in this context. Emphasising marine shallow-water sediments, the lecture will review recent developments in the study of sediment complexity, and the function and diversity of the microbial biota.*

10.30 - 11.00

Coffee break

8 morning sessions, page 70 to 79

12.30 - 13.30

Lunch

15.30 - 16.00

Coffee break

8 afternoon sessions, page 80 to 87

16.00 - 18.00

Poster session

#### **Program, Thursday June 8**

## Thursday June 8 - morning

### Hall A3

Special session

09.30 - 12.45

#### SS 10 Microbe-particle interactions in pelagic ecosystems

Chairman: Farooq Azam, Barry Sherr and Evelyn Sherr

09.30 - 10.00

10-01 BIOGEOCHEMICAL CONSEQUENCES OF BACTERIA-ORGANIC-MATTER INTERACTIONS IN THE SEA  
F Azam

10.00 - 10.15

10-02 BACTERIOPLANKTON EXTRACELLULAR RELEASE: A NOVEL SOURCE OF COLLOIDAL ORGANIC CARBON IN THE SEA  
G Herndl, K Stoderegger, C Pausz, M Perez

10.15 - 10.30

10-03 PARTICLES AS POINT SOURCE TARGETS FOR CHEMOTACTIC PROTISTS AND OSMOTROPHS  
N Blackburn, T Fenchel, P Hansen

10.30 - 11.30

Coffee

11.00 - 11.15

10-04 DYNAMICS AND BACTERIAL COLONIZATION OF MICROAGGREGATES IN A LARGE MESOTROPHIC LAKE  
M Simon, T Brachvogel, S Knoll, B Schweitzer, W Zwislr

11.15 - 11.45

10-05 COMPARISON OF FREE-LIVING AND PARTICLE-BOUND BACTERIOPLANKTON COMMUNITIES IN THE WESTERN MEDITERRANEAN SEA AS STUDIED BY 16S rRNA ANALYSIS  
M. G Höfle

11.45 - 12.00

10-06 STRUCTURAL AND FUNCTIONAL SUCCESSION OF ATTACHED AND FREE-LIVING BACTERIAL COMMUNITIES DURING A FRESHWATER PHYTOPLANKTON BLOOM  
J Worm, K Garde, K Gustavson, N Borch, L Riemann

12.00 - 12.15

10-07 Particulate Combined Amino Acids: A Key Factor of Microbial Degradation on Aggregates?  
H Grossart, H Ploug

12.15 - 12.30

10-08 DON - PON INTERACTIONS IN MARINE WATERS: DEGRADATION OF DEAD BACTERIA AND THEIR PEPTIDOGLYCAN COMPONENTS BY LIVE BACTERIA  
N Jørgensen, A Pedersen

12.30 - 12.45

10-09 PARTICLE SIZE-FRACTIONATED KINETICS OF DMS PRODUCTION: THE IMPORTANCE OF MICROSCALE INTERACTIONS IN BIOGEOCHEMICAL PROCESSES  
M Scarratt, G Cantin, M Levasseur, S Michaud

12.30 - 13.30

Lunch

ASLO 2000 - PROGRAM



## Thursday June 7 - morning

### Room 19

Special session

#### 09.30 - 12.30

#### **SS 17 Approaches to regional monitoring and assesment of surface water quality**

Chairmen: Spencer A Petersen and Richard K Johnson

09.30 - 10.00

17-01 THE WHAT, WHY, AND HOW OF REGIONAL ENVIRONMENTAL RESOURCE MONITORING  
S Peterson, S Paulsen

10.00 - 10.15

17-02 ECOLOGICAL LINKAGES: SPATIAL CONGRUITY AND SCALE  
R Johnson, W Goedkoop, L Sandin

10.15 - 10.30

17-03 REGIONALIZATION OF STREAM CONDITIONS AT MULTIPLE SPATIAL SCALES  
S Paulsen, T DeMoss, T Pheiffer, J Stoddard, K Jones

10.30 - 11.00

Coffee

11.00 - 11.15

17-04 FINNISH LAKE SURVEY: SURVEY DESIGN AND ESTIMATION OF REGIONAL LAKE WATER  
QUALITY  
M Forsius, J Mannio, H Sirvi

11.15 - 11.30

17-05 A PHOENIX RISING: THE ENVIRONMENTAL MONITORING AND ASSESSMENT PROGRAM  
AND THE COASTAL 2000 NATIONAL SURVEY.  
K Summers

11.30 - 11.45

17-06 EVALUATION OF ECOLOGICAL PROCESSES AT MULTIPLE SCALES USING HIGH SPEED  
SYNOPTIC SAMPLING AND MODELING TECHNIQUES: COMPARISONS ACROSS ECOSYSTEM  
BOUNDARIES  
C Madden, D Gruber, W Kemp

11.45 - 12.00

17-07 THE USE OF GIS TO ASSESS THE EFFECTS OF PRESENT AND HISTORICAL LAND USE ON  
CONTAMINANT INPUT TO WETLANDS OF AN URBANIZED ESTUARY  
K Kimbrough, R Dickhut

12.00 - 12.15

17-08 DEVELOPING WATER QUALITY MONITORING IN THE ARCHIPELAGO SEA OF SOUTHWEST  
FINLAND, BALTIC SEA  
A Erkki

12.15 - 12.30

17-09 MAPPING OF SEAGRASS BEDS USING IN SITU OBSERVATIONS AND SELECTIVE GIS-  
INTERPOLATION A NEW METHOD  
J Laursen, D Krause-Jensen

12.30 - 13.30

Lunch

cont. page 83

## Thursday June 8 - morning

### Room 18

Special session

09.30 - 12.30

#### **SS 22 Quantitative links between past and present - Paleolimnological contributions to contemporary process studies**

Chairmen: N John Anderson and Daniel R Engstrom

09.30 - 10.00

22-01 QUANTITATIVE LINKS BETWEEN PAST AND PRESENT: A TUTORIAL  
D Engstrom, N Anderson

10.00 - 10.15

22-02 TRACING ANTHROPOGENIC CHANGES IN A FLORIDA DRAINAGE BASIN USING SEDIMENT PROXIES  
C Schelske, W Kenney, J Smoak, M Waters

10.15 - 10.30

22-03 QUANTITATIVE LINKS BETWEEN DIATOMS AND ECO-CLIMATIC CONDITIONS IN SUBARCTIC SWEDISH LAKES  
R Hall, C Bigler, I Renberg

10.30 - 11.00

Coffee

11.00 - 11.15

22-04 LIMITATIONS AND VALIDATION OF DIATOM - PHOSPHORUS CALIBRATION MODELS  
E Bradshaw, N Anderson

11.15 - 11.30

22-05 LONG-TERM PERSPECTIVES ON LEAD POLLUTION OF LAKES IN SWEDEN  
I Renberg, M Brännvall, R Bindler

11.30 - 11.45

22-06 PREDICTING THE FUTURE AND UNRAVELLING THE PAST: PALEOLIMNOLOGICAL ANALYSES OF FLUCTUATIONS IN THE CLIMATE AND WATER QUALITY OF CENTRAL SASKATCHEWAN  
J Rusak, P Leavitt, G Chen, M Chen, J You, L Zhang

11.45 - 12.00

22-07 POLYPHOSPHATE AS A PROXY FOR HISTORIC NUTRIENT ENRICHMENT AND LIMITATION  
W Kenney, C Schelske

12.00 - 12.15

22-08 PALEO-OPTICAL CHARACTERISTICS OF NORTHERN LAKES DURING THE HOLOCENE: APPLICATION OF A NEW UV EXPOSURE INDEX  
W Vincent, R Pienitz, E Saulnier-Talbot

12.15 - 12.30

22-09 LONG TERM RECORDS OF PLANKTONIC DIATOMS IN A EUTROPHIC LAKE  
C Gibson, R Foy, S Lennox

12.30 - 13.30

Lunch

cont. page 84

ASLO 2000 - PROGRAM

## Thursday June 8 - morning

**Bella Vista II+III**

Special session

**09.30 - 12.45**

**SS 23 The recovery of freshwater ecosystems from acidification: the role of air, land and sediment boundaries**

Chairman: Norman Yan and John Gunn

09.30 - 10.00

23-01 THE RECOVERY OF FRESHWATER ECOSYSTEMS FROM ACIDIFICATION: THE ROLE OF AIR, LAND AND SEDIMENT BOUNDARIES - INTRODUCTORY TUTORIAL  
N Yan, P Dillon, B Keller

10.00 - 10.15

23-02 EFFECTS OF CLIMATE ON CHANGES IN LAKE CHEMISTRY IN S. ONTARIO FOLLOWING REDUCTIONS IN SULPHUR DEPOSITION  
P Dillon

10.15 - 10.30

23-03 SEDIMENT-WATER PROCESSES INVOLVED IN REPLENISHMENT OF EXCHANGEABLE CATIONS DURING RECOVERY FROM EXPERIMENTAL ACIDIFICATION IN LITTLE ROCK LAKE, USA  
P.L.Brezonik, C Sampson

10.30 - 11.00

Coffee

11.00 - 11.15

23-04 RECOVERY FROM ACIDIFICATION BY WISCONSIN (USA) LAKES: ROLE OF DEPOSITION HISTORY, CLIMATE AND DOC  
T Asplund, K Webster

11.15 - 11.30

23-05 USING LAKE SEDIMENT CORES TO STUDY REVERSING ACIDIFICATION IN SWEDEN  
A Ek, T Korsman

11.30 - 11.45

23-06 EFFECTS OF RISING PH ON PELAGIC COMMUNITIES IN ACIDIC LAKES: PRIMARY COLONIZATION OF MINING LAKES VERSUS RE-COLONIZATION OF SOFTWATER LAKES  
R Deneke, D Lessmann, B Nixdorf

11.45 - 12.00

23-07 THE RECOVERY OF LAKES FROM ACIDIFICATION AND THE EMERGENCE OF ZOOPLANKTON RESTING EGGS  
S Arnott, N Yan, C Holt, W Keller

12.00 - 12.15

23-08 RATE, EXTENT AND REGULATION OF THE RECOVERY OF FISH IN LAKES AND STREAMS RECOVERING FROM ACIDIFICATION  
M Appelberg

12.15 - 12.30

23-09 CHEMICAL PROPERTIES OF SMALL FOREST LAKES IN RELATION TO CHANGES IN ATMOSPHERIC ACID DEPOSITION, LIMING TREATMENTS AND CATCHMENT DISTURBANCES  
T Tulonen, L Arvola, M Rask

12.30 - 12.45

23-10 RESSOURCE UTILIZATION BY PHYTOPLANKTON IN ACID MINING LAKES  
J Tittel, B Zippel, R Knösche, A Lorke, V Bissinger

12.30 - 13.30

Lunch

Thursday June 8 - morning

Room 20

Special session

09.30 - 15.30

**SS 35 Small-scale physical-biological interactions in the plankton**

Chairman: Thomas Kiørboe and André Visser

09.30 - 10.00

35-01 FAR-REACHING FLOW EFFECTS AT SMALL PARTICLE REYNOLDS NUMBER  
P Jumars, L Karp-Boss, E Boss

10.00 - 10.15

35-02 MECHANORECEPTION BY CALANOID COPEPODS: ENCOUNTER AND CAPTURE OF  
DISTANT PREY  
M Bundy, H Vanderploeg, G Paffenhofer

10.15 - 10.30

35-03 HYDROMECHANICAL SIGNALS IN THE PLANKTON  
A Visser

10.30 - 11.00

Coffee

11.00 - 11.15

35-04 INFLUENCE OF COPEPOD BEHAVIOR ON PREDATION MORTALITY  
J Titelman

11.15 - 11.30

35-05 LIFE IN TRANSITION: BALANCING VISCOUS AND INERTIAL FORCES BY PLANKTONIC  
COPEPODS  
J Yen

11.30 - 11.45

35-06 PHYSIOLOGICAL THRESHOLDS OF GAUSSIA PRINCIPALS TO CONTROLLED MECHANICAL  
STIMULI  
M J Weissburg, D Fields, D Shaeffer

11.45 - 12.00

35-07 ESCAPE BEHAVIOUR OF PLANKTONIC PROTISTS  
H Jakobsen

12.00 - 12.15

35-08 AN INDIVIDUAL-BASED APPROACH OF ZOOPLANKTON BEHAVIOR IN MICROSCALE  
PHYTOPLANKTON PATCHES  
L Seuront, E Ramat, P Preux, Y Lagadeuc

12.15 - 12.30

35-09 FLUID MOTION AND SOLUTE DISTRIBUTION AROUND SINKING MARINE SNOW  
AGGREGATES: IMPLICATIONS FOR REMOTE DETECTION BY COLONIZING ZOOPLANKTERS  
T Kiørboe, U Thygesen, H Ploug

12.30 - 13.30

Lunch

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## Thursday June 8 - morning

### Hall A2

Special session

09.30 - 12.30

### SS 37 Spatial and temporal scales controlling plankton dynamics

Chairman: Hans W Paerl and Kaisa Kononen

09.30 - 09.45

37-17 PHYSICAL FORCINGS ON PLANKTON PRODUCTIVITY IN THE GULF OF LION  
A Petrenko, G Coustillier, P Raimbault, C Grenz

09.45 - 10.00

37-18 SEASONAL AND INTERANNUAL VARIABILITY OF PRIMARY PRODUCTIVITY IN CHESAPEAKE BAY FROM REMOTELY SENSED OBSERVATIONS  
L Harding, Jr.

10.00 - 10.15

37-19 SHORT-TERM AND LONG-TERM VARIATIONS OF PHYTOPLANKTON ASSEMBLAGES AND PRODUCTIVITY IN A N-W ADRIATIC AREA INFLUENCED BY THE PO RIVER  
A Pugnetti, L Alberighi, D Barletta, M Bastianini, F Bernardi Aubry, A Berton, G Socal, C Totti

10.15 - 10.30

37-20 PLANKTON DYNAMICS IN A SUBTROPICAL AUSTRALIAN ESTUARY: RAPID TURNOVER AND LOW BIOMASS  
J O'Neil, M O'Donohue, C Heil, P Glibert, J Greenwood

10.30 - 11.00

Coffee

11.00 - 11.15

37-21 PARTIALLYING OUT SPATIAL AND TEMPORAL VARIABILITY IN PHYTOPLANKTON COMMUNITY STRUCTURE ALONG THE RIVERINE - ESTUARINE TRANSITION OF THE SCHELDE ESTUARY (BELGIUM)  
K Muylaert, K Sabbe, W Vyverman

11.15 - 11.30

37-22 THE AFFECTS OF TEMPORAL AND SPATIAL SCALES OF SAMPLING ON THE DESCRIPTION OF ALGAL BLOOM PHENOMENA IN A LARGE HIGHLY COLORED RIVER, THE ST. JOHNS RIVER, FL, USA  
E Philips, M Cichra

11.30 - 11.45

37-23 SEASONAL VARIATION IN THE OCCURRENCE OF LIGHT AND NUTRIENT LIMITATION OF PHYTOPLANKTON GROWTH IN LARGE RIVERS  
R Koch, P Bukaveckas

11.45 - 12.00

37-24 EFFECTS OF MIXING ON THE CYANOBACTERIUM MICROCYSTIS  
P M Visser

12.00 - 12.15

37-25 HIGH-RESOLUTION SPATIAL PATTERNS OF ZOOPLANKTON: IMPLICATIONS FOR TROPHIC INTERACTIONS IN LAKES  
W Sprules, T Morris

12.15 - 12.30

37-26 EXAMPLES OF PORE WATER FLUSHING IN BALTIC SANDY SEDIMENTS?  
S Forster

12.30 - 13.00

Lunch

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Thursday June 8 - morning

**Bella Vista I**

Special session

**11.00 - 12.30**

**SS 40 Bioturbation: the water-sediment interface is under control**

Chairman: Franck Gilbert and George Stora

11.00 - 11.30

40-01 SOMETHING SEEMS TO BE WRONG IN YOUR SEDIMENT DATA: BIOTURBATION STRUK AGAIN !  
G Stora, F Gilbert

11.30 - 11.45

40-02 THE INFLUENCE OF PERIODIC FOOD PULSES ON THE FEEDING BEHAVIOUR OF YOLDIA HYPERBOREA AND ITS EFFECT ON BOUNDARY LAYER DYNAMICS  
R Stead, R Thompson

11.45 - 12.00

40-03 CAN DIFFERENCES IN DIGESTIVE STRATEGY BETWEEN BACTERIA AND DEPOSIT FEEDERS AFFECT INTENSITY OF BIOTURBATION?  
L Mayer, D Shull, P Jumars

12.00 - 12.15

40-04 A PARTICLE-LATTICE AND AUTOMATON MODEL FOR HEAD-DOWN DEPOSIT FEEDERS SEDIMENT MIXING  
F Francois

12.15 - 12.30

40-05 QUANTIFYING BIOIRRIGATION IN AQUATIC SEDIMENTS - AN INVERSE APPROACH  
C Meile, C Koretsky, P Van Cappellen

12.30 - 13.30

Lunch

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ASLO 2000 - PROGRAM

## Thursday June 8 - morning

### Auditorium

Special session

09.30 - 12.30

### SS 42 The microbial ecology and biogeochemistry of aquatic sediments

Chairmen: Bo Thamdrup, John W Morse and Kirsten Habicht

09.30 - 09.45

42-04 RATE OF GROWTH OF METHANE BUBBLES IN FRESHWATER AND MARINE SEDIMENTS  
B Boudreau, B Gardiner, B Johnson

09.45 - 10.00

42-05 ORGANIC INTERMEDIATES ARE NOT CONSUMED DURING METHANOGENESIS IN  
SEDIMENTS FROM NORTHERN WETLANDS  
M Hines, K Duddleston, R Kiene

10.00 - 10.15

42-06 SYMBIOTIC CHEMOAUTOTROPHIC BACTERIA MAY PLAY AN IMPORTANT ROLE IN THE  
SULFUR CYCLE OF MARINE SEDIMENTS  
N Dubilier, D de Beer, T Ferdelman, J Kuever, F Riemann, F Thiermann, R Amann

10.15 - 10.30

42-07 THE EFFECT OF EELGRASS DECOMPOSITION ON SEDIMENT CARBON AND NITROGEN  
CYCLING  
B A Lomstein, A Pedersen, J Berntsen

10.30 - 11.00

Coffee

11.00 - 11.15

42-08 CONTRASTING MICROBIAL ENZYME ACTIVITIES IN SEDIMENTS AND SEAWATER:  
IMPLICATIONS FOR CARBON REMINERALIZATION AND MICROBIAL COMMUNITY  
COMPOSITION  
C Arnosti

11.15 - 11.30

42-09 LIVE AND DEAD BACTERIAL CELLS IN A FRESHWATER SEDIMENT PROFILE  
E Tornblom, P Lantz, A Karlsson, L Tranvik

11.30 - 11.45

42-10 SEASONAL AND SPATIAL VARIATION IN RIBOSOMAL RNA CONCENTRATION IN OFFSHORE  
LAKE MICHIGAN SEDIMENTS: A PROPOSED ROLE FOR EUKARYOTIC GRAZERS  
B MacGregor, D Moser, B Baker, E Alm, M Maurer, K Nealson, D Stahl

11.45 - 12.00

42-11 BIOGEOCHEMISTRY AND MICROBIAL COMMUNITY STRUCTURE OF AN INTERTIDAL MUD  
FLAT (GERMAN WADDENSEA)  
A. Schramm, E Llobet-Brossa, T Kjaer, R Meyer, B Hespeneide, M Boettcher, R Amann.

12.00 - 12.15

42-12 DIRECT EVIDENCE OF GEOCHEMICAL RECYCLING WITHIN SEDIMENTARY  
BIOGEOCHEMICAL ZONES  
R J G Mortimer

12.15 - 12.30

42-13 THE ROLE OF MANGANESE OXIDES IN DINITROGEN PRODUCTION IN MARINE SEDIMENTS  
B Thamdrup, T Dalsgaard

12.30 - 13.30

Lunch

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## Thursday June 8 - morning

### Room 17

Contributed session

#### 09.30 - 10.15

#### CS 01 African fresh water systems

Chairman: Patricia Ramlal

09.30 - 09.45

01-01 TROPHIC PATHWAYS IN LAKE VICTORIA'S LOWER FOOD WEB  
D Branstrator, L Mwbaza-Ndawula, J Montoya

09.45 - 10.00

01-02 TRANSPORT AND TURNOVER OF ALLOCHTHONOUS ORGANIC CARBON IN LAKE MALAWI  
P Ramlal, R Hecky, S Schiff, H Bootsma

10.00 - 10.15

01-03 AQUATIC ECOSYSTEM DYNAMICS IN THE OKAVANGO DELTA, BOTSWANA  
M. Lindholm, P Høgberg, M , L Ramberg, M Krah, D Hessen

10.30 - 11.00

Coffee

### Room 17

Contributed session

#### 11.00 - 12.00

#### CS 02 Methods

Chairman: Jonathan Sharp

11.00 - 11.15

02-01 APPLICATION OF ACID-BASE TITRATION METHOD TO DETERMINE BODY SURFACE AREA OF  
GAMMARIDEAN AMPHIPOD  
X Wang, G Zauke

11.10 - 11.30

02-02 COUPLING BETWEEN PHYSICAL AND BIOLOGICAL PROCESSES IN THE OCEAN: A NEW  
MULTISCALE TESTING PROCEDURE  
L. Seuront, F Schmitt, H Yamazaki

11.30 - 11.45

02-03 CAVITY QED PHOTOELECTRONS AND THE LENARD EFFECT  
T V Prevenslik

11.45 - 12.00

02-04 ALGAL-AVAILABILITY OF PHOSPHORUS: ESTIMATION BY A DUAL CULTURE TECHNIQUE  
P Ekholm

12.30 - 13.30

Lunch



## Thursday June 8 - morning

### Bella Vista I

Contributed session

09.30 - 10.00

#### CS 20 Plankton and nutrient dynamics

Chairman: Peter Verity and Katarina Vrede

10.00 - 10.15

20-12 REGULATION OF A RESERVOIR ECOSYSTEM: INFLUENCES OF OMNIVOROUS FISH AND WATERSHED NUTRIENT INPUTS

M Vanni, W Renwick, J Headworth, K Arend, M Gonzalez, R Stein

10.15 - 10.30

20-13 NUTRIENT LIMITATION OF PHYTO- AND BACTERIOPLANKTON IN LATE SUMMER IN THE CENTRAL BALTIC SEA

P Kuuppo, J Seppälä, R Lignell, T Tamminen

10.30 - 10.45

20-15 PARTICLE DYNAMICS AND SEDIMENTATION OF DIATOMS FROM AN IRON-FERTILIZED PATCH IN THE SOUTHERN OCEAN

S. D. Nodde

Thursday June 8 - afternoon

**Hall A3**

Special session

**13.30 - 15.45**

**SS 11 Microbial microscale patchiness: chemosensory behavior of bacteria**

Chairman: Jim Michell

13.30 - 14.00

11-01 WATER COLUMN MICROSCALE PATCHINESS: MEETING OF THE TACTIC AND TURBULENT LENGTH SCALES  
J Mitchell, J Seymour

14.00 - 14.15

11-02 STRUCTURES AND INFLUENCE OF TURBULENCE  
H Yamazaki

14.15 - 14.30

11-03 YEAR-TO-YEAR DIFFERENTIAL CONTROL OF MICROSCALE PATCHINESS IN NUTRIENT AND PHYTOPLANKTON DISTRIBUTIONS  
L Seuront, V Gentilhomme, Y Lagadeuc

14.30 - 14.45

11-04 MODEL OF NUTRIENT UPTAKE BY A SWIMMING MICROORGANISM  
V Magar, T Pedley

14.45 - 15.00

11-05 COLLECTIVE PATTERN-FORMING BEHAVIOUR IN POPULATIONS OF SWIMMING MICRO-ORGANISMS, AND HOW TO MODEL IT MATHEMATICALLY  
T Pedley

15.00 - 15.15

11-06 PLANKTONIC PREDATION IN A TURBULENT ENVIRONMENT  
D Lewis, T Pedley

15.15 - 15.30

11-07 BACTERIAL BEHAVIOR IN THE SEA AND ITS IMPLICATIONS FOR ORGANIC MATTER TRANSFORMATION  
F Azam

15.30 - 15.45

11-08 MODELLING RUN-AND-TUMBLE CHEMOTAXIS IN A UNI-DIRECTIONAL SHEAR FLOW  
R Bearon, T Pedley

15.30 - 16.00

Coffee

**Hall A1**

**16.00 - 18.00**

**Poster session : Section II**

## Thursday June 8 - afternoon

### Room 19

Special session

13.30 - 15.00

#### **SS 17 Approaches to regional monitoring and assesment of surface water quality**

Chairmen: Spencer A Petersen and Richard K Johnson

13.30 - 13.45

17-10 PHYTOPLANKTON DYNAMICS IN A COASTAL AREA OF THE NW ADRIATIC  
F Bernardi Aubry, A Berton, M Bastianini, G Social

13.45 - 14.00

17-11 USING NITROGEN STABLE ISOTOPES TO ASSESS LINKAGES BETWEEN LAND USE ACTIVITIES  
AND WATER QUALITY IN WESTERN U.S. WATERSHEDS  
C Luecke, B Thompson

14.00 - 14.15

17-12 ECOSYSTEM INSIGHTS GAINED FROM LONG-TERM MONITORING: THE LOWER CAPE FEAR  
RIVER PROGRAM, NORTH CAROLINA, USA  
M Mallin, M Mclver, S Ensign, D Parsons, G Shank

14.15 - 14.30

17-13 INDICATING THE TROPHIC STATE OF RUNNING WATERS BY SUBMERSED MACROPHYTES -  
A NEW MACROPHYTE INDEX DEVELOPED IN BAVARIA (GERMANY)  
S Schneider, A Melzer

14.30 - 14.45

17-14 CLIMATE CHANGE EFFECTS ON THE THERMAL STRUCTURE OF CLEAR AND COLORED  
LAKES NEAR KILLARNEY, CANADA  
J.M.Gunn, E Snucins

14.45 - 15.00

17-15 ASSESSMENT OF THE ECOLOGICAL STATUS AND DEVELOPMENT OF PRE-ALPINE SMALL  
LAKES USING A COMBINATION OF DIATOM INDEX, MACROPHYTE INDEX AND  
CATCHMENT AREA INDEX  
U Raeder, J Seele, A Melzer

15.30 - 16.00

Coffee

Thursday June 7 - afternoon

**Room 18**

Special session

**13.30 - 15.00**

**SS 22 Quantitative links between past and present - Paleolimnological contributions to contemporary process studies**

Chairmen: N John Anderson and Daniel R Engstrom

13.30 - 13.45

22-10 HYDROLOGIC CONTROLS OF P ACCUMULATION IN LAKE KINNERET: ROLE OF DAMS AND DIVERSIONS IN REGULATING LAKE PRODUCTIVITY  
K Hambright, W Eckert, P Leavitt, T Zohary, S Schwartz

13.45 - 14.00

22-11 REGIONAL SCALE INFERENCE OF LAKE PERTURBATION USING MULTIPLE-LAKE SAMPLING STRATEGIES AND PALAEO LIMNOLOGY  
N Anderson, D Engstrom

14.00 - 14.15

22-12 LINKING AIR QUALITY TO AQUATIC SEDIMENT QUALITY: THE EFFECTS OF URBANIZATION  
P Van Metre, B Mahler

14.15 - 14.30

22-13 COMBINING NEO- AND PALEOLIMNOLOGICAL TECHNIQUES TO EXPLORE THE RELATIONSHIP BETWEEN DIATOM DISTRIBUTIONS AND BRINE TYPE IN SALINE LAKES  
J Saros, S Fritz

14.30 - 14.45

22-14 MONITORING, MODELLING, AND RECONSTRUCTING LIMNOLOGICAL CHANGE: THE LIMPACS PROGRAMME  
R Battarbee

14.45 - 15.00

22-15 TEMPORAL AND SPATIAL ASSESSMENT OF POLLUTION LEAD BURDENS IN A SMALL, BOREAL FOREST LAKE: A WHOLE BASIN STUDY USING LEAD ISOTOPE ANALYSES  
R Bindler, I Renberg, M Brännva

15.30 - 16.00

Coffee

**Hall A1**

**16.00 - 18.00**

**Poaster session : Section II**

## Thursday June 8 - afternoon

### Room 20

Special session

13.30 - 16.00

### SS 35 Small-scale physical-biological interactions in the plankton

Chairman: Thomas Kiørboe and André Visser

13.30 - 13.45

35-10 THE ROLE OF THE PARTICLE SIZE SPECTRUM IN THORIUM SCAVENGING AND VERTICAL FLUX  
A Burd

13.45 - 14.00

35-11 BIOLOGICAL CONSEQUENCES OF LOW REYNOLDS NUMBER HYDRODYNAMICS AND BROWNIAN MOTION FOR SMALL PLANKTON AND UNATTACHED BACTERIA  
D Dusenbery

14.00 - 14.15

35-12 IS TURBULENCE INFLUENCING THE COMPETITION BETWEEN BACTERIA AND PHYTOPLANKTON FOR NUTRIENTS?  
C Marrase, F Peters, L Arin, A Malits, M Alcaraz, M Sala, E Berdalet

14.30 - 14.45

35-13 EFFECTS OF TURBULENCE ON THE GROWTH OF TWO DIATOMS OF DIFFERENT SIZE: EMPIRICAL AND THEORETICAL APPROACH  
L Arin, C Marrase, F Peters, E Berdalet

14.45 - 15.00

35-14 THEORETICAL CONSTRAINTS ON THE UPTAKE OF SILICIC ACID SPECIES BY DIATOMS  
D.A. Wolf-Gladrow, A Wischmeyer, Y Del Amo, M Brzezinski

15.00 - 15.15

35-15 REVISED SI-UPTAKE KINETIC PARAMETERS FOR FOUR MARINE DIATOMS CALCULATED BY USING A DIFFUSION-MODEL APPROACH  
Y Del Amo, A Wischmeyer, M Brzezinski, D Wolf-Gladrow

15.15 - 15.30

35-16 LIFE AT AND BELOW THE KOLMOGOROV LENGTH SCALE: SOME CONSIDERATIONS ON PARTICLE ENCOUNTER AND NUTRIENT UPTAKE  
F Peters, C Marrase

15.30 - 15.45

35-17 TRANSIENT MICRO-SCALE NUTRIENT PATCHES AND MICROBIAL CHEMOTAXIS  
N Blackburn, T Fenchel, J Mitchell

15.45 - 16.00

35-18 SPATIAL DISTRIBUTION OF AGE-0 POLLOCK AROUND A FRONTAL STRUCTURE IN SOUTH EAST BERING SEA  
L Ciannelli, R Brodeur, G Swartzman, J Napp

15.30 - 16.00

Coffee

### Hall A1

16.00 - 18.00

Poster session : Section II

Thursday June 8 - afternoon

**Hall A2**

Special session

**13.30 - 15.30**

**SS 37 Spatial and temporal scales controlling plankton dynamics**

Chairmen: Hans W Paerl and Kaisa Kononen

13.30 - 13.45

37-27 LATERAL GRADIENTS IN PHYTOPLANKTON COMMUNITY STRUCTURE AND THE EFFECT ON MESOZOOPLANKTON PREY SELECTION AND OPERATIONAL TROPHIC LEVEL IN CHESAPEAKE BAY

C Jordan, M Mallonee, W Miller, L Harding

13.45 - 14.00

37-28 OFFSHORE NUTRIENT INPUT TO NARRAGANSETT BAY

S Granger, M Brush, S Nixon

14.00 - 14.15

37-29 THE SOUTHERN NORTH WEST SHELF, AUSTRALIA 1. A CRYPTIC UPWELLING SYSTEM?

M Furnas

14.15 - 14.30

37-30 THE SOUTHERN NORTH WEST SHELF, AUSTRALIA. 2: THE FATE OF PRIMARY PRODUCTION

A McKinnon, S Duggan

14.30 - 14.45

37-31 MULTISCALE PHYTOPLANKTON PATCHINESS IN A TURBULENT COASTAL SEA: THREE FUNCTIONING HYPOTHESES

L Seuront, Y Lagadeuc

14.45 - 15.00

37-32 REPRESENTING PHYTOPLANKTON FUNCTIONAL GROUPS IN CARBON CYCLE MODELS. I. COCCOLITHOPHORES

D Iglesias-Rodriguez

15.30 - 16.00

Coffee

**Hall A1**

**16.00 - 18.00**

**Poster session : Section II**

ASLO 2000 - PROGRAM

## Thursday June 8 - afternoon

### Bella Vista I

Special session

13.30 - 15.45

#### SS 40 Bioturbation: the water-sediment interface is under control

Chairman: Franck Gilbert and George Stora

13.30 - 13.45

40-06 BIOTURBATION EFFECTS OF CHIRONOMUS RIPARIUS ON THE DISTRIBUTION AND ACTIVITY OF MICROORGANISMS INVOLVED IN THE BENTHIC NITROGEN CYCLE  
P Stief, D De Beer

13.45 - 14.00

40-07 LINKS BETWEEN MACROFAUNAL COMMUNITY STRUCTURE, BIOTURBATION EFFICIENCY AND NITROGEN DIAGENESIS: A FIELD STUDY  
K Ringdahl, S Hulth, R Rosenberg, P Engström

14.00 - 14.15

40-08 IMPACT OF BIOTURBATION BY ARENICOLA MARINA ON THE PARTITIONING AND BIOAVAILABILITY OF FLUORANTHENE (PAH)  
T.L. Forbes, L Kure

14.15 - 14.30

40-09 Effects of benthic macroinvertebrates on phosphorus release from Lake Ladoga sediments  
N Ignatyeva, T Slepukhina

14.30 - 14.45

40-10 Mechanisms of size-dependent, non-local particle bioturbation in Boston Harbor  
D Shull, M Yasuda, E Gallagher

14.45 - 15.00

40-11 THE INFLUENCE OF BIOGENIC IRRIGATION INTENSITY ON COUPLED NITRIFICATION / DENITRIFICATION IN MARINE SEDIMENTS  
S Hulth, F Gilbert, R Aller

15.00 - 15.15

40-12 THE IMPACT OF ARENICOLA MARINA ON CARBON AND NITROGEN BIOGEOCHEMISTRY IN A SHALLOW LIMFJORD SEDIMENT (DENMARK).  
E Kristensen

15.15 - 15.30

40-13 THE IMPACT OF FIDDLER CRABS AND PLANT ROOTS ON SEDIMENT BIOGEOCHEMISTRY IN A GEORGIA SALT MARSH  
B Gribsholt, J Kostka, E Kristensen

15.30 - 15.45

40-14 MODELLING THE EFFECTS OF DEPOSIT FEEDERS VIA AUTOMATONS ON A PARTICLE LATTICE  
B Boudreau, J Choi, F Francois-Carcaillet

15.30 - 16.00

Coffee

### Hall A1

16.00 - 18.00

Poster session : Section II

Thursday June 7 - afternoon

**Auditorium**

Special session

**13.30 - 16.30**

**SS 42 The microbial ecology and biogeochemistry of aquatic sediments**

Chairmen: Bo Thamdrup, John W Morse and Kirsten Habicht

13.30 - 13.45

42-14 KINETICS OF AMORPHOUS FE(III) OXIDE REDUCTION IN FRESHWATER WETLAND SEDIMENTS  
E Roden

13.45 - 14.00

42-15 SEASONAL OSCILLATIONS IN IRON AND SULFATE REDUCING MICROBIAL POPULATIONS IN SALT MARSH SEDIMENTS AT SAPELO ISLAND, GA  
T DiChristina, C Koretsky, C Meile, J Kostka, P Van Cappellen

14.00 - 14.15

42-16 RESPIRATION OF FE(III) VS. SULFATE COUPLED TO ORGANIC MATTER REMINERALIZATION IN SALT MARSH SEDIMENTS  
J Kostka

14.15 - 14.30

42-17 LIMITATION OF MICROBIAL IRON REDUCTION BY REACTIVE IRON OXIDES IN MARINE SEDIMENTS  
U Thomsen, B Thamdrup, B MacGregor, D Canfield

14.30 - 14.45

42-18 BIOGEOCHEMICAL CHANGES IN ACIDIC LIGNITE MINING LAKE SEDIMENT AFTER C AND P SUPPLEMENTATION  
K Wendt-Potthoff, C Langner

14.45 - 15.00

42-19 ORGANIC CARBON MINERALIZATION BY PSYCHROPHILIC SULFATE-REDUCING BACTERIA IN ARCTIC SEDIMENTS  
C Knoblauch, K Sahm, B Jørgensen

15.00 - 15.15

42-20 SEDIMENTARY BIOGEOCHEMISTRY OF COLD SEEP CHEMOSYNTHETIC COMMUNITIES IN THE NORTHERN GULF OF MEXICO  
J.W. Morse, R Arvidson

15.15 - 15.30

42-21 BACTERIAL ACTIVITY AND DIVERSITY IN GAS HYDRATE BEARING SEDIMENTS FROM THE CASCADIA SUBDUCTION ZONE  
A Boetius, K Ravensschlag, D Rickert, U Witte

15.30 - 16.00

Coffee

16.00 - 16.15

42-22 NITRATE-ACCUMULATING SULFUR BACTERIA IN COASTAL MARINE SEDIMENTS  
M Sayama

16.15 - 16.30

42-23 GENETIC DIVERSITY OF ELEMENTAL SULFUR DISPROPORTIONATING BACTERIA  
K Finster, M Derakshani, B Thamdrup, W Liesack

**Hall A1**

**16.00 - 18.00**

**Poster session : Section II**

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## Thursday June 8 - afternoon

**Bella Vista II+III**

Contributed session

**13.30 - 16.00**

### **CS 06 Benthos and biodiversity**

Chairman: Alyson Wilson

13.30 - 13.45

06-01 PROTOZOA IN THE SANDY HYPERHEIC INTERSTITIAL OF A LOWLAND BROOK: THE STRUCTURE OF THE COMMUNITIES AND THEIR SPATIAL AND TEMPORAL DISTRIBUTION.  
E Cleven

13.45 - 14.00

06-02 A TALE OF TWO WORMS: OPTIMAL FORAGING THEORY, FUNCTIONAL MORPHOLOGY AND FEEDING BEHAVIOR  
D Dauer, E Pardo, K Worsaae

14.00 - 14.15

06-03 STOCHASTICITY AS AN IMPORTANT STRUCTURING FACTOR OF CHIRONOMID COMMUNITIES IN A LARGE, DEEP RIVER  
C Fesl

14.15 - 14.30

06-04 CAUSES AND CONSEQUENCES OF ARM DAMAGE IN THE SEASTAR B Baldwin  
J Dayton, E Mills

14.30 - 14.45

06-05 MACROPHYTES AS INDICATORS OF ENVIRONMENTAL CONDITIONS ON STONE REEFS IN KATTEGAT AND BELT SEA  
K Dahl, J Hansen

14.45 - 15.00

06-06 SPECIES RICHNESS AND TEMPORAL STABILITY IN MACROALGAL COMMUNITIES  
A Middelboe, K Sand-Jensen

15.00 - 15.15

06-07 PATCH CHOICE BEHAVIOR AND SPACE USE OF SALT-MARSH MACRO-INVERTEBRATES  
A Basset, L Fedele

15.15 - 15.30

06-08 IMPACT OF MACROALGAE BLOOMS ON THE MACROBENTHIC COMMUNITIES OF MONDEGO ESTUARY (PORTUGAL)  
J C Marques

15.30 - 15.45

06-09 MODELING THE pH DEPENDENCE OF LEAD ADSORPTION TO NATURAL FRESHWATER BIOFILMS  
A Wilson, L Lion, Y Nelson

15.45 - 16.00

06-10 SPATIAL AND TEMPORAL SCALES CONTROLLING BENTHIC ALGAL DYNAMICS  
M Kahlert, A Hasselrot, K Petterson, H Hillebrand

**Hall A1**

**16.00 18.00**

**Poster session : section II**



## Friday June 8

### Hall A2

08.30 - 09.30

Plenary  
chaired by Frede Thingstad

#### **Marten Scheffer**

Wageningen Agricultural University, The Netherlands

#### LINKS BETWEEN EMPIRICISM AND MODELING

##### *Abstract*

*Although the merits of combining modeling and empirical research are broadly recognized the approaches remain quite segregated in practice. Also, within the modeling world there is a distinct separation between theoreticians working with abstract minimal models and groups working on more applied quantitative simulation models. Meanwhile, in empirical aquatic ecology many experimentalists disguise whole lake manipulations as uninterpretable, whereas lake manipulators argue that the approach of controlled 'bottle experiments' has revealed little about how the real world works. Obviously, the different approaches may produce different fragments of the complex image of how aquatic ecosystems work. Whole lake experiments help to identify the main regulatory mechanisms, but the conditions are difficult to control and there are usually no replicates. As a result it is often difficult to understand what happened for what reason in the hindsight. Small scale replicated and controlled experiments, on the other hand, are necessarily conducted under rather unnatural conditions and do not reveal how the mechanism addressed interacts with other mechanisms in the field. Elaborate simulation models can help putting different processes into quantitative perspective but are difficult to study due to their mere complexity. Very simple >minimal= models are easier to understand but do not help to reveal the relative importance of the addressed mechanism in the field. Obviously, linking these approaches could boost our insight. This leads one to wonder what are the main causes of the separatism between approaches and how it could be overcome. It seems likely that the high cost-benefit ratio of integration of approaches is a major limitation. Focussing on the problem of relating models to reality, it takes a major investment from a modeler to publish outside the relatively protected environment of purely theoretically oriented journals. Not only are reviewers likely to eliminate descriptions of many technical aspects, they also tend to question the value of the model for enhancing insight and point out numerous omissions in discussing empirical literature. Indeed, the effort of linking a model to reality is generally much larger than the effort required to formulate and analyze the model. I argue that, nonetheless, at this stage true advancement of insight in the functioning of aquatic ecosystems may well benefit more from such laborious linking than from digging deeper along separate tracks.*

#### **Program, Friday June 8**

10.30 - 11.00

Coffee break

Morning sessions, page 90 to 98

12.30 - 13.30

Lunch

15.30 - 16.00

Coffee break

Afternoon sessions, page 99 to 104

## Friday June 8 - morning

### Room 18

Special session:

#### 09.30 - 12.30

#### SS 06 Microorganisms in stream systems

Chairman: Jürgen Marxsen

09.30 - 10.00

06-01 THE MICROBIAL FOOD WEB IN STREAM SYSTEMS  
J Marxsen

10.00 - 10.15

06-02 ORGANIC MATTER DEGRADATION BY STREAM BIOFILMS: THE INFLUENCE OF ALGAL BIOMASS  
S Sabater, A Romani

10.15 - 10.30

06-03 TRANSITION PROCESS OF A LOTIC PERIPHYTON COMMUNITY: A MODELLING APPROACH  
T Asaeda, D Son, J Manatunge

10.30 - 11.00

Coffe

11.00 - 11.15

06-04 DISTRIBUTION OF GLUCOSIDASE AND PEPTIDASE ACTIVITIES IN STREAMWATER: IMPLICATIONS FOR CARBON PROCESSING AND BACTERIAL PRODUCTIVITY  
R Sinsabaugh, S Findlay, C Foreman, P Yeager

11.15 - 11.30

06-05 DISSOLVED ORGANIC MATTER/BACTERIAL INTERACTIONS IN STREAMS: THE INTERACTION OF LABILITY, SCALING, AND HYDRODYNAMICS.  
L Kaplan, J Newbold

11.30 - 11.45

06-06 BACTERIAL AND FUNGAL BIOMASS IN HEADWATER STREAM DETRITUS-BASED MICRO HABITATS  
S Findlay, J Tank, S Dye, W Bowden, W Dodds, J Edmonds, S Hamilton, S Johnson, W McDowell.

11.45 - 12.00

06-07 THE SIGNIFICANCE OF THE COMPOSITION OF PARTICULATE ORGANIC MATTER (POM) IN RIVER SEDIMENTS FOR BACTERIAL ABUNDANCE AND PRODUCTION  
H Fischer, S Wanner, M Pusch

12.00 - 12.15

06-08 TRANSPORT AND RETENTION OF ORGANIC CARBON ENTERING THE RIPARIAN ZONE OF AN OLIGOTROPHIC ALPINE RIVER  
A Brugger, I Kolar, B Reitner, B Wett, G Herndl

12.15 - 12.30

06-09 CONTRIBUTION OF BACTERIA, FUNGI AND SHREDDERS TO LEAF BREAKDOWN IN A STREAM AS DERIVED FROM BIOMASS DETERMINATIONS  
M Gessner, M Hieber

12.30 - 13.30

Lunch

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## Friday June 9 - morning

### Hall A3

Special session

#### 09.30 - 12.30

#### SS 13 Microbial ecology of the Arctic Oceans

Chairman: James Hollibaugh

09.30 - 10.00

13-01 MICROBIAL ECOLOGY OF THE ARCTIC OCEANS - A TUTORIAL DISCUSSION OF OLD BOUNDARIES AND NEW INSIGHTS ON LOW-TEMPERATURE MICROBIAL ECOSYSTEMS  
P Yager

10.00 - 10.15

13-02 MICROBIAL PLANKTON ECOLOGY STUDIES IN TWO ARCTIC POLYNYAS  
P Bjornsen, T Nielsen

10.15 - 10.30

13-03 HETEROTROPHIC MICROBES IN THE CENTRAL ARCTIC OCEAN: A COMPARISON OF THE 1994 AOS AND THE 1997-98 SHEBA/JOIS RESULTS  
E.B. Sherr, B Sherr

10.30 - 11.00

Coffee

11.00 - 11.15

13-04 BACTERIAL ACTIVITY AND DOC LABILITY IN THE GREENLAND SEA  
C Lundsgaard, M Middelboe, J Pinhassi,

11.15 - 11.30

13-05 PELAGIC N-MINERALIZATION UNDER ARCTIC ICE COVER  
L Ottosen, H Fossing, S Rysgaard

11.30 - 11.45

13-06 NITRIFICATION AND DENITRIFICATION IN ARCTIC CONTINENTAL SHELF AND SLOPE SEDIMENTS  
A Devol, L Codispoti, S Guarin

11.45 - 12.00

13-07 COMPARISON OF BETA-PROTEOBACTERIAL AMMONIA OXIDIZER SEQUENCES IN THE ARCTIC AND SOUTHERN OCEANS  
J Hollibaugh, N Bano, H Ducklow

12.00 - 12.15

13-08 REGULATION BY LOW TEMPERATURE OF NUTRIENT UPTAKE BY ALGAE AND BACTERIA  
D Nedwell

12.15 - 12.30

13-09 DISTRIBUTION OF BACTERIA AND VIRUSES ACROSS THE ARCTIC OCEAN  
G Steward, L Fandino, J Hollibaugh, F Azam

12.30 - 13.30

Lunch

## Friday June 8 - morning

### Hall A2

Special session

#### 09.30-12.30

#### **SS 18 Integrating river basins: Linking fluxes between catchments, rivers and estuaries**

Chairmen: David Hamilton and Paul Bukaveckas

09.30 - 10.00

18-01 INTEGRATING RIVER BASINS: LINKING FLUXES BETWEEN CATCHMENTS, RIVERS AND ESTUARIES  
{

10.00 - 10.15

18-02 ARE LARGE RIVERS REALLY INTEGRATORS OF THEIR DRAINAGE BASINS, FROM THE AMAZON TO SOUTHEAST ASIA?  
J Richey, R Victoria, A Snidvongs

10.15 - 10.30

18-03 THE BIOGEOCHEMISTRY OF AUSTRALIAN RIVERS, LAKES AND ESTUARIES: IMPACTS OF LAND USE CHANGE AND HYDROLOGY ON ALGAL BLOOMS AND WATER QUALITY  
G Harris

10.30 - 11.00

Coffee

11.00 - 11.15

18-04 MODELLING PHYTOPLANKTON COMPOSITION AND BIOMASS IN LOWLAND RIVERS  
J P Descy, E Everbecq, V Gosselain, L Viroux

11.15 - 11.30

18-05 SILICA RETENTION IN RIVER BASINS: EFFECTS ON BIOGEOCHEMISTRY AND AQUATIC FOOD WEBS IN COASTAL MARINE ENVIRONMENTS  
D J Conley

11.30 - 11.45

18-06 THE POTENTIAL ROLE OF THE TRANSIENT STORAGE ZONE IN STREAMS: VARIABILITY OF SOLUTE/DISCHARGE RELATIONSHIPS  
A Butturini, S Bernal, E Nin, S Sabater, F Sabater

11.45 - 12.00

18-07 COMPARISONS OF P-YIELD, RIPARIAN BUFFER STRIPS AND LAND COVER IN SIX AGRICULTURAL WATERSHEDS IN SOUTHEAST WISCONSIN, USA  
T Reed-Andersen

12.00 - 12.15

18-08 ESTIMATING NUTRIENT FLUXES IN THE CHOPTANK RIVER ESTUARY  
J Carstensen

12.15 - 12.30

18-09 EVALUATION OF DECREASED NUTRIENT LOADING INTO A SHALLOW EUTROPHIC LAKE WITH A 1D WATER QUALITY MODEL  
J Romero

12.30 - 13.00

Lunch

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## Friday June 9 - morning

### Bella Vista I

Special session

### 09.30 - 14.00

#### SS 31 Influence of primary producers on nutrient cycling in coastal marine area

Chairmen: Søren Laurentius Nielsen, Morten Foldager Pedersen and Gary T Banta

09.30 - 10.00

31-01 HOW PRIMARY PRODUCERS INFLUENCE NUTRIENT CYCLING  
M.F. Pedersen, S Nielsen, G Banta

10.00 - 10.15

31-02 EFFECTS OF BENTHIC MICROALGAE AND FLOATING MACROALGAE ON DENITRIFICATION AND NUTRIENT CYCLING IN SHALLOW DANISH ESTUARINE SEDIMENTS  
T Dalsgaard

10.15 - 10.30

31-03 NUTRIENT REGENERATION FROM DECOMPOSING MACROALGAE AND MACROPHYTE DETRITUS - FACILITATION BY THE POLYCHAETE NEREIS DIVERSICOLOR?  
G Banta, M Pedersen, U Andersen, A Engell-Kofoed, H Hodal, M Lerche

10.30 - 11.00

Coffee

11.00 - 11.15

31-04 PLANT TRANSPORT A NEGLECTED PART OF THE NUTRIENT MASS BALANCE - IN ESTUARIES  
M.A Pardal, C.B. Pedersen, J. Neto, C Amos, A Bergamasco

11.15 - 11.30

31-05 CONTROL OF MACROALGAE BIOMASS BY HYDRODYNAMICS IN A WESTERN ATLANTIC SHALLOW ESTUARY (MONDEGO ESTUARY, PORTUGAL)  
I Martins

11.30 - 11.45

31-06 NITROGEN TRANSFORMATIONS IN EELGRASS BEDS  
N Risgaard-Petersen, L Ottosen, L Nielsen

11.45 - 12.00

31-07 BENTHIC NITROGEN TURNOVER: DENITRIFICATION AND SS31-p06 ESTIMATING NITROGEN ASSIMILATION BY MARINE MICROPHYTOBENTHIC COMMUNITIES  
A Miles, K Sundback

12.00 - 12.15

31-08 PRIMARY PRODUCTION AND NITROGEN CYCLING IN INTERTIDAL MUDFLATS  
V Brotas

12.15 - 12.30

31-09 INFLUENCE OF MICROPHYTOBENTOS ON DENITRIFICATION AND SEDIMENT NUTRIENT CYCLING IN FLORIDA BAY, USA  
Cornwell, M Owens, L Pride, W Kemp

12.30 - 13.30

Lunch

13.30 - 13.45

31-10 NUTRIENT CYCLING AND TROPHODYNAMICS IN THE GULF OF CARPENTARIA, AUSTRALIA  
P Rothlisberg, M Burford

13.45 - 14.00

31-11 QUANTITATIVE COMPARISON OF PROCESSES GOVERNING THE ECOLOGY OF VENICE LAGOON DURING ULVA AND PHYTOPLANKTON DOMINANCE  
F Los, M Ouboter, A Bettinetti

Friday June 9 - morning

**Bella Vista I+II**

Special session

**10.00-12.30**

**SS 34 Biochemistry of food quality in relation to production across pelagic systems**

Chairmen: Sigrún H Jónasdóttir and Wim C M Klein Breteler

10.00 - 10.30

34-01 ROLE OF ESSENTIAL NUTRIENTS IN THE QUALITY OF FOOD FOR ZOOPLANKTON  
W C M Klein Breteler

10.30 - 11.00

Coffee

11.00 - 11.15

34-02 IS MARINE ZOOPLANKTON LIKELY TO EXPERIENCE ESSENTIAL FATTY ACID (EFA) DEFICIENCY?  
Y Olsen, J Evjemo

11.15 - 11.30

34-03 PATTERN OF UNSATURATED FATTY ACIDS IN FRESHWATER ECOSYSTEMS- AND THEIR POTENTIAL ROLE FOR HERBIVOROUS ZOOPLANKTON  
D Mueller-Navarra

11.30 - 11.45

34-04 INCORPORATION OF MICROALGAE STEROLS AND POLYUNSATURATED FATTY ACIDS BY SCALLOP PECTEN MAXIMUS (L.) LARVAE  
P Soudant, Y Marty, J Moal, J Le Coz, J Samain

11.45 - 12.00

34-05 MANIPULATING FATTY ACIDS IN ALGAE - MANIPULATING FOOD QUALITY FOR DAPHNIA?  
E Von Elert

12.00 - 12.15

34-06 FOOD QUALITY AND MARINE COPEPOD NUTRITION  
P Mayzaud, V Tirelli, S Sabini

12.15 - 12.30

34-07 FOOD QUALITY AND ZOOPLANKTON PRODUCTION IN ARCTIC LAKES - THE ROLE OF THE BIOCHEMICAL AND STOICHIOMETRIC COMPOSITION OF SESTON  
M Sundbom, T Vrede

12.30 - 13.30

Lunch

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Friday June 9 - morning

**Room 17**

Special session

**11.00 - 12.30**

**SS 36 Physical and chemical influence on the life history of marine and freshwater organisms: The consequence of environmental change**

Chairman: Stanley I Dodson and James Gillooly

11.00 - 11.30

36-01 EFFECTS ON LIFE HISTORIES OF ANTHROPOGENIC CHEMICALS AND GLOBAL WARMING.  
S Dodson

11.30 - 11.45

36-03 ZOOPLANKTON FILTERING FEEDING: THE EFFECTS OF TEMPERATURE, BODY SIZE AND SPECIES SPECIFICITY  
I L Trubetskova

11.45 - 12.00

36-04 SKELETAL DENSITY AND LIPIDS PRODUCTION IN TWO MASSIVE CORAL SPECIES: EFFECTS OF SEDIMENT INFLUX  
J Torres, J Morelock, A Mosquera

12.00 - 12.15

36-05 ANTAGONISM BETWEEN SELENIUM AND MERCURY IN FISH TISSUES  
N Belzile, Y Chen, J Gunn, P Couture

12.15 - 12.30

36-06 ZOOPLANKTON SPECIES DIVERSITY AND COMPOSITION IN RELATION TO LAND USE AND WATER CHEMISTRY IN SMALL PONDS  
J Schell

12.30 - 13.30

Lunch

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Friday June 9 - morning

Room 19

Special session

09.30 - 12.30

**SS 39 Benthic filter-feeding and plankton dynamics- importance of currents and mixing**

Chairmen: Hans Ulrik Riisgaard and Josep-Maria Gili

09.30 - 10.00

39-01 CURRENT GAPS IN KNOWLEDGE OF BENTHIC SUSPENSION FEEDERS AND FLOW.  
D J Wildish

10.00 - 10.15

39-02 SUSPENSION FEEDING IN ARCTIC OPHIUROIDS - SUMMER PICNIC?  
K von Juterzenka

10.15 - 10.30

39-03 MUSSEL (MYTILUS EDULIS) FILTERING OF THE BALTIC-SEA OUTFLOW THROUGH THE ØRESUND - AN EXAMPLE OF A NATURAL LARGE-SCALE ECOSYSTEM RESTORATION  
J Rodhe, J Haamer

10.30 - 11.00

Coffee

11.00 - 11.15

39-04 FILTER FEEDING AND PLANKTON DYNAMICS IN A DANISH FJORD: IMPORTANCE OF DENSITY-DRIVEN CIRCULATION  
H U Riisgaard

11.15 - 11.30

39-05 RELATIONSHIP BETWEEN PICOPLANKTON DYNAMICS AND ITS UTILISATION BY THE SUSPENSION-FEEDING POLYCHAETE DITRUPA ARIETINA  
A Grémare

11.30 - 11.45

39-06 EFFECTS OF MUSSEL BEDS ON FLOW AND VICE VERSA  
L van Duren, P Herman, K Soetaert, A Sandee, C Heip

11.45 - 12.00

39-07 PICO-, NANO-, AND MICROPLANKTON UPTAKE BY CORAL REEFS: EFFECT OF FLOW SPEED  
M Ribes

12.00 - 12.15

39-08 ROLE OF CONVECTIVE CIRCULATION IN BENTHIC-PELAGIC COUPLING IN A LAGOON DOMINATED BY FILTER-FEEDING BIVALVES  
Y Nakamura, F Kerciku, T Inoue

12.15 - 12.30

39-09 STIRRED NOT SHAKEN: THE IMPORTANCE OF NEAR BOTTOM MIXING ON FOOD AVAILABILITY TO THE BENTHOS  
A Pile

12.30 - 13.30

Lunch

## Friday June 9 - morning

### Auditorium

Special session

09.30 - 12.30

#### **SS 44 Biogeochemical processes and their microenvironmental controls at the sediment-water interface**

Chairmen: R N Glud and M Kühl

09.30 - 10.00

44-01 BIOGEOCHEMICAL PROCESSES AND MICROENVIRONMENTAL CONTROL AT THE SEDIMENT-WATER INTERFACE  
B Jørgensen

10.00 - 10.15

44-02 INVESTIGATIONS OF SOLUTE TRANSPORT RATES WITHIN THE BRINKMAN LAYER OF SHELF SANDS  
C Reimers, G Taghon, C Fuller

10.15 - 10.30

44-03 HYDRODYNAMIC PROCESSES AND SEASONAL VARIATION AFFECTING BENTHIC MICROBIAL DISTRIBUTION AND CARBON TURNOVER IN AN INTERTIDAL SANDFLAT  
A Rusch, M Huettel

10.30 - 11.00

Coffee

11.00 - 11.15

44-04 AN EFFICIENT NEW MODEL OF SUBOXIC SEDIMENT GEOCHEMISTRY  
D Archer, J Morford, S Emerson

11.15 - 11.30

44-05 PHOTOSYNTHESIS AND THE DYNAMICS OF OXYGEN CONSUMPTION IN A MICROBIAL MAT AS CALCULATED FROM TRANSIENT OXYGEN MICROPROFILES  
E Epping, A Khalili, R Thar

11.30 - 11.45

44-06 SMALL SCALE SOLUTE DYNAMICS AT BENTHIC INTERFACES  
R Glud, M Kühl

11.45 - 12.00

44-07 EFFECTS OF DIFFERENT MIXING REGIMES ON DEGRADATION OF ALGAL LIPIDS AT THE SEDIMENT-WATER INTERFACE  
M Sun, W Cai, S Joye, J Hollibaugh

12.00 - 12.15

44-08 FATE OF PARTICULATE ORGANIC NITROGEN DEPOSITED IN CONTINENTAL MARGIN SEDIMENTS OF THE SKAGERRAK  
P Hall, S Hulth, G Hulthe, A Landen, A Tengberg

12.15 - 12.30

44-09 THE EFFECTS OF BIOTURBATION ON SOLUTES AND SOLIDS IN MARINE SEDIMENTS  
P Berg, S Rysgaard, P Funch, M Sejr

12.30 - 13.30

Lunch

cont. page 104

Friday June 9 - morning

Room 20

Contributed session

09.30 - 12.30

**CS 25 Aquatic chemistry and ecotoxicology**

Chairmen: Rachel Noble and Valery Forbes

09.30 - 09.45

25-01 THE EFFECTS OF ENDOCRINE DISRUPTORS ON THE BIOCENOSIS OF AQUATIC MODEL ECOSYSTEMS  
G Severin, I Juettner, G Pfister, K Schramm, A Kettrup

09.45 - 10.00

25-02 FATE OF SEQUESTERED ORGANIC CONTAMINANTS DURING RECOVERY OF LAMINATED BALTIC SEA SEDIMENTS  
M Granberg, J Gunnarsson, R Rosenberg, P Jonsson

10.00 - 10.15

25-03 EFFECTS OF TOXICANT EXPOSURE ON ECOPHYSIOLOGY, REPRODUCTION AND POPULATION DYNAMICS OF DIFFERENT CAPITELLA SIBLING SPECIES (POLYCHAETA)  
I Linke-Gamenick, V Forbes

10.15 - 10.30

25-04 PESTICIDE POLLUTION IN THE KINNERET ECOSYSTEM  
D Wynne, R Parparova

10.30 - 11.00

Coffee

11.00 - 11.15

25-05 CONTRASTING THE GEOCHEMISTRY OF OXIC SEDIMENTS ACROSS AQUATIC ECOSYSTEMS  
L Bendell-Young, C Thomas, P Stecko, F Pick, I Pollet

11.15 - 11.30

25-06 INFLUENCE OF TEMPERATURE ON CADMIUM ACCUMULATION BY THREE SPECIES OF THE BIOMONITOR CHAOBORUS  
M Croteau, L Hare, A Tessier

11.30 - 11.45

25-07 SEDIMENT PROCESSING IN CAPITELLA CAPITATA (POLYCHAETA: CAPITELLIDAE): STRAIN-SPECIFIC DIFFERENCES AND EFFECTS OF THE ORGANIC TOXICANT FLUORANTHENE  
N Mendez, I Linke-Gamenick, V Forbes, D Baird

11.45 - 12.00

25-08 DETERMINING TOXICANT IMPACTS ON DENSITY-LIMITED POPULATIONS  
V Forbes, R Sibly, P Calow

12.00 - 12.15

25-09 FIELD-TESTING A METAL BIOACCUMULATION MODEL FOR ZEBRA MUSSELS  
N S Fisher, H Roditi, S Sanudo-Wilhelmy

12.15 - 12.30

25-10 WATERSHED INFLUENCES ON TRANSPORT, FATE, AND BIOAVAILABILITY OF MERCURY IN LAKE SUPERIOR  
L Cleckner, J Hurley, K Rolfhus, R Back, C Babiarz, D Armstrong

12.30 - 13.30

Lunch

cont. page 106

## Friday June 9 - afternoon

### Hall A2

Special session

#### 13.30-15.45

#### **SS 18 Integrating river basins: Linking fluxes between catchments, rivers and estuaries**

Chairmen: David Hamilton and Paul Bukaveckas

13.30 - 13.45

18-10 HYDRAULIC EFFICIENCY, MIXING AND DEAD SPACES IN WATER BODIES

G Bills, T Dupuis, D Wilson

13.45 - 14.00

18-11 LAKES, STREAMS, AND WETLANDS AS DRIVERS OF RIPARIAN LAND USE CHANGE

S Walsh, P Soranno

14.00 - 14.15

18-12 LIGHT LIMITATION MODEL PREDICTS SPATIAL VARIABILITY IN PHYTOPLANKTON ABUNDANCE IN THE OHIO RIVER

T Sellers, P Bukaveckas

14.15 - 14.30

18-13 A MULTI-SCALE EXAMINATION OF NITROGEN DYNAMICS IN THE UPPER MISSISSIPPI RIVER

D Soballe, W Richardson, D Wasley

14.30 - 14.45

18-14 TRIBUTARY INPUTS AND TRANSFORMATIONS OF C, N AND P IN A LARGE RIVER ECOSYSTEM

P Bukaveckas, D Gueda, R Koch, T Sellers

14.45 - 15.00

18-15 MODELLING SOURCE APPORTIONED NUTRIENT FLUXES BETWEEN CATCHMENTS, RIVERS AND COASTAL AREAS IN LAKE VERNER, SWEDEN

M Wallin, H Kvarnäs, M Østlund

15.00 - 15.15

18-16 CURRENT AND FUTURE PROSPECTS OF HIGH-RESOLUTION MULTI-COMPONENT REACTION-TRANSPORT MODELS AS PREDICTIVE TOOLS FOR LONG-TERM FLUX ESTIMATIONS

P Regnier, J Vanderborght

15.15 - 15.30

18-17 THE EFFECTS OF EXTREME METEOROLOGICAL EVENTS TO THE DYNAMICS OF COASTAL MARINE ECOSYSTEMS

G Arhonditsis, G Tsirtsis, M Karydis

15.30 - 15.45

18-18 DIVERSION OF MISSISSIPPI RIVER WATER TO STABILIZE ADJACENT MARSHES

W Patrick, R DeLaune, G Peterson, A Jugsujinda

Friday June 9 - afternoon

**Bella Vista II+III**

Special session

**13.30 - 15.15**

**SS 34 Biochemistry of food quality in relation to production across pelagic systems**

Chairmen: Sigrún H Jónasdóttir and Wim C M Klein Breteler

13.30 - 13.45

34-08 FOOD QUANTITY AND QUALITY FOR DAPHNIA IN THE SACRAMENTO-SAN JOAQUIN DELTA ESTUARY

A Mueller-Solger, K Forshay, D Mueller-Navarra

13.45 - 14.00

34-09 UTILIZATION OF A BACTERIVOROUS CILIATE BY THE COPEPOD ACARTIA TONSA

H Dam, S Besiktepe, K Philips

14.00 - 14.15

34-10 NUTRITIONAL NEEDS OF COPEPODS: GRAZING, PRODUCTION AND SURVIVAL OF PSEUDOCALANUS ELONGATUS AND TEMORA LONGICORNIS IN MIXTURES OF ALGAE

M Koski, W Klein Breteler, N Schogt, S Gonzalez

14.15 - 14.30

34-11 FOOD QUALITY IMPACT ON PHYSIOLOGICAL AND DEMOGRAPHIC PROCESSES OF CENTROPAGES TYPICUS KROYER (CALANOID COPEPOD).

D Bonnet, F Carlotti

14.30 - 14.45

34-12 INFLUENCE OF TWO DIFFERENT GREEN ALGAL DIETS ON SPECIFIC DYNAMIC ACTION AND INCORPORATION OF CARBON INTO BIOCHEMICAL FRACTIONS IN THE COPEPOD ACARTIA TONSA.

P Thor, G Cervetto, S Besiktepe, E Ribera Maycas, K Tang, H Dam

14.45 - 15.00

34-13 FATTY ACID COMPOSITION OF DAPHNIA AND ITS FOOD

W Weiler, E Elert, P Kasprzak

15.00 - 15.15

34-14 GUT PASSAGE OF PHOSPHORUS-LIMITED ALGAE THROUGH DAPHNIA: DO THEY TAKE UP NUTRIENTS IN THE PROCESS?

M Boersma, K Wiltshire

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## Friday June 9 - afternoon

### Room 17

Special session

13.30 - 15.00

#### **SS 36 Physical and chemical influence on the life history of marine and freshwater organisms: The consequence of environmental change**

Chairman: Stanley I Dodson and James Gillooly

13.30 - 13.45

36-07 A HYDRO-ECOLOGICAL MODEL OF THE INTERANNUAL VARIABILITY OF PERIDINIUM GATUNENSE BIOMASS IN LAKE KINNERET

G Gal, M Herzfeld, T Zohary, J Imberger, D Hamilton

13.45 - 14.00

36-08 EUTROPHICATION INCREASES FECUNDITY AND GROWTH OF THE HERBIVOROUS ISOPOD (*Idotea baltica*) VIA ENHANCED QUALITY OF THE BLADDER WRACK (*Fucus vesiculosus*)

A Heinänen, V Jormalainen

14.00 - 14.15

36-09 MAKING THE WORST OF A BAD SITUATION: INVASIONS BY EXOTIC DAPHNIA ARE ENHANCED DURING PEAK INDUSTRIAL POLLUTION OF ONONDAGA LAKE

N Hairston, C Kearns, L Perry, M Duffy

14.15 - 14.30

36-10 ECOLOGICAL CONSEQUENCES OF THE SCALING OF TEMPERATURE EFFECTS ON DEVELOPMENT TIME IN FISHES AND ZOOPLANKTON

J Gillooly

14.30 - 15.00

36-11 ENDOCRINE DISRUPTION IN AQUATIC SYSTEMS

T Colborn

Friday June 9 - afternoon

**Auditorium**

Special session

**13.30 - 14.45**

**SS 44 Biogeochemical processes and their microenvironmental controls at the sediment-water interface**

Chairmen: R N Glud and M Kühl

13.30 - 13.45

44-10 SOLUTIONS AND SEDIMENTS - TIME FOR DIMENSIONAL CHANGE  
M. Harper, G. Fones, H Zhang

13.45 - 14.00

44-11 SPATIAL VARIABILITY IN THE PRIMARY PRODUCTION OF INTERTIDAL SEDIMENT COMMUNITIES  
R Forster, E Morris, J Kromkamp

14.00 - 14.15

44-12 THE DIFFUSIVE BOUNDARY LAYER AND THE SUBMILLIMETRE SCALE TOPOGRAPHY OF THE SEDIMENT - WATER INTERFACE  
H Roy, M Huettel, B Jorgensen

14.15 - 14.30

44-13 DISSOLUTION OF CALCITE FROM LAKE SEDIMENTS  
B Müller, Y Wang, B Wehrli

14.30 - 14.45

44-14 BIOGEOCHEMICAL AND MOLECULAR SIGNATURES OF ANAEROBIC METHANE OXIDATION IN MARINE SEDIMENTS.  
N Ramsing, T Thomsen, K Finster

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## Friday June 9 - afternoon

### Room 18

Contributed session

### 13.30 - 15.30

#### CS 05 Arctic / Antarctic Ecology

Chairman: Benni Hansen

- 13.30 - 13.45 05-01 PHOSPHORUS LIMITATION OF BACTERIOPLANKTON GROWTH IN HIGH ARCTIC LAKES AND PONDS  
W Granéli, S Bertilsson
- 13.45 - 14.00 05-02 SEPARATING THE EFFECTS OF CLIMATE AND IN-LAKE PROCESSES ON ALGAL COMMUNITIES IN THREE CONTRASTING LAKES IN WEST GREENLAND  
S McGowan, N Anderson, R Juhler, D Ryves
- 14.00 - 14.15 05-03 GROWTH DYNAMICS IN TEMPERATE AND ARCTIC POPULATIONS OF LAMINARIA SACCHARINA  
D Krause-Jensen, P Christensen, R Thinggaard, J Borum, M Pedersen, B Olesen, K Nielsen
- 14.15 - 14.30 05-04 RELATIONSHIP BETWEEN FISH AND ZOOPLANKTON COMMUNITIES IN ARCTIC ALASKAN LAKES  
W O'Brien, A Hershey, C Mayer
- 14.30 - 14.45 05-05 CALANUS SPP. DYNAMICS DURING SEA ICE BREAK UP OFF GREENLAND  
B Hansen, T Nielsen
- 14.45 - 15.00 05-06 ACTIVE SURFACE-ATTACHED BACTERIA IN EXTREMELY COLD, WINTERTIME ARCTIC SEA ICE  
K Junge, A Stierle, C Krembs, H Eicken, J Deming
- 15.00 - 15.15 05-07 DISSOLVED ORGANIC CARBON, PRODUCTIVITY AND BACTERIAL DYNAMICS IN TWO LARGE ULTRA-OLIGOTROPHIC ANTARCTIC FRESHWATER LAKES  
T Henshaw, J Laybourne-Parry, W Quayle
- 15.15 - 15.30 05-08 THE ANCIENT CRUSTACEAN, LEPIDURUS ARCTICUS, IS IMPORTANT IN GREENLAND LAKES  
K Christoffersen

Friday June 9 - afternoon

**Room 20**

Contributed session

**13.30 - 15.00**

**CS 25 Aquatic chemistry and ecotoxicology**

Chairman: Rachel Noble and Valery Forbes

13.30 - 13.45

25-11 EFFECTS OF WATERSHED DISTURBANCES ON MERCURY ACCUMULATION IN FISH: INSIGHTS FROM STABLE ISOTOPES  
G Edernise

13.45 - 14.00

25-12 INTERACTIVE EFFECTS OF NUTRIENTS AND TRACE METALS ON PHYTOPLANKTON IN THE GERMAN BIGHT  
J Rick, S Rick, C Dörselen, U Brockmann

14.00 - 14.15

25-13 STABILITY OF RAINWATER DISSOLVED IRON IN SURFACE SEAWATER  
J Willey, R Kieber, S Skrabal, G Avery

14.15 - 14.30

25-14 THE ROLE OF PHYTOPLANKTON IN THE CYCLING OF ZINC AND CADMIUM IN A CONTAMINATED ESTUARY  
W Sunda, S Huntsman, J Donat

14.30 - 14.45

25-15 TRACE METAL PARTITIONING IN A POLLUTED RIVER: THE UPPER VISTULA RIVER (SOUTHERN POLAND)  
C Gueguen, J Dominik

14.45 - 15.00

25-16 THE EFFECTS OF URBAN RUNOFF ON THE COASTAL ECOSYSTEM: IMPACTS ON MARINE MICROBIAL FOOD WEBS AND PUBLIC HEALTH  
R Noble, I Lee

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## Workshops

### **How to find your way to Work Shop-4 (2-3 June) and Work Shop-1 (9-10 June) held at the University of Copenhagen.**

These workshops take place at the H.C.Ørsted Institutes at the Science Faculty, University of Copenhagen. The building houses math, chemistry and physics and is located in the Science Park area approx. 3 km from the City centre. The precise address is: HCØ, Universitetsparken 5, Østerbro, in case you need to ask anyone.

Take bus no. 184 just outside the train station called Nørreport (2 stops from the main station) or bus no. 42 or 43 one block from Nørreport (Gothersgade) just outside The Botanical Garden. Ask the bus driver to announce when you get to "Universitetsparken". It is after 6-8 stops.

From bus no. 184: cross the main road, Nørre Alle and cross the road Universitetsparken. From bus no. 42 and 43: cross the road Universitetsparken. Then - walk approx. 50 m in the direction the bus came from and turn right at the sign for H.C.Ø. Institutet. Go to the main entrance. The lecture halls are situated at the ground floor.

The Faculty of Sciences homepage has an English version and there is a link to maps with all institutes ([www.nat.ku.dk](http://www.nat.ku.dk))

#### **WS-1**

The Response of Northeast and Northwest Atlantic Shelf Ecosystems to Climate Variability and Change

Organizer: Charles Greene ([chg2@cornell.edu](mailto:chg2@cornell.edu)), USA and B. Planque ([b.planque@cefas.co.uk](mailto:b.planque@cefas.co.uk)) UK

Time: A late afternoon and dinner (16:00 -21:00) session on Friday June 9 and a morning session (9:00- 12:00) on Saturday June 10.

Place: H.C. Ørsted Institute, University of Copenhagen.

How to get there:

#### Abstract

Predicting the response of North Atlantic shelf ecosystems to climate variability and change will require an improved understanding of the basin-scale coupling between physical and biological processes. This session will focus on processes affecting large marine ecosystems (LME's) in both the Northeastern and Northwestern Atlantic. Specifically, comparisons will be made between climate variability, physical oceanography, biological oceanography, and the physical-biological coupling on both sides of the North Atlantic. One perspective that will be explored throughout the session views the North Atlantic as a composite of LME's, each possessing its own characteristic internal ecological dynamics, but also influenced to varying degrees by advective exchanges with its neighbouring ecosystems.

#### Contact

Charles Greene, Ocean Resources & Ecosystem Program, Centre for the Environment, Dept. Of Geological Sciences, 2130 Snee Hall, Cornell University, Ithaca, NY 14853, USA

#### **WS-2**

### **Stable Isotopes In Aquatic Systems**

This workshop has been merged with WS-7

#### Abstract

Stable isotope analysis has emerged as a useful investigative tool in the repertoire of aquatic scientists. Many studies have been conducted in America and Canada, with increasing interest apparent in Europe. Approaches and problems with methodology and application are common across oceanic, estuarine and lacustrine systems, yet communication between the scientists in different fields is often limited. A workshop at the ASLO conference may help to identify weaknesses, further research, initiate collaborative work and possible inter-laboratory calibration in terms of methodologies.

**WS-3**

**Ocean Science Education Partnerships: How can research institutions impact informal education?**

Organizer: George I. Matsumoto (mage@mbari.org), USA  
 and Randall Kochevar  
 (rkochevar@mbayaq.org), USA  
 Time: Thursday June 8 from 13.30 to 15.30  
 Place: Room 17, The Bella Center

Abstract

Partnerships between formal education and research institutions and informal education organizations can maximize resources, effectiveness of their educational efforts, and numbers and kinds of audiences reached. Such collaborations are usually based on local partnerships, but with the advent of the world wide web, have the potential to reach a much wider audience. The broad appeal of ocean sciences coupled with the fascination of being able to find out about current research engages students of all ages and can easily be linked to regional and national education initiatives. In this special session, we will start with a short tutorial to review some of the basic questions: How are educational collaborations formed? What are some of the challenges that face the partners and the partnership? What are the outcomes? How can the partnerships and outcomes be evaluated? What directions should these partnerships take in the future? We ask that submissions to this session include a discussion from the point of view of each partner and an overview of the questions above.

Contact

Presenter Abstracts in the Abstract Book  
 Dr. George I. Matsumoto, Education and Research Specialist Monterey  
 Bay Aquarium Research Institute, P.O. Box 628, 7700 Sandholdt Road,  
 Moss Landing, California

**WS-4**

**Invasion of European & North American Ecosystems by Ponto-Caspian Species**

Organizer Hugh MacIsaac (hughm@uwindsor.ca), USA and David Reid  
 (reid@glerl.noaa.gov), USA  
 Time: June 2 and 3 (Friday and Saturday before the meeting)  
 Place: The H. C. Ørsted Institute, University of Copenhagen  
 How to get there:

Abstract

Species from the Ponto-Caspian region (Black, Aral Seas, Caspian Lake) have spread to habitats in Eurasia and North America, sometimes with catastrophic ecological consequences. The Baltic Sea and River Rhine currently support 21 and 9 Ponto-Caspian species, respectively. Seventy percent of recent invaders to the Laurentian Great Lakes in North America are Ponto-Caspian endemics. Several have also spread to inland lakes and river systems. Prevention of future invasions is dependent on identification of species posing a high invasion risk and identification and elimination of the 'invasion corridors' utilized by these species. This two-day workshop will examine patterns of Ponto-Caspian invasions, mechanisms and routes of transfer, physiological requirements for survival and success, ecological consequences in invaded European and North American habitats, and strategies for assessing future invasion potential and reducing or preventing future invasions. Presentations are by invitation only, but individuals interested in the workshop are welcome to attend and should indicate their interest in doing so by contacting either of the Conveners. This workshop is being organized by the Working Group on Aquatic Invasive Species of the International Association for Theoretical and Applied Limnology (or SIL - Societas Internationalis Limnologiae), in association with ASLO2000. Presenter Abstracts in the Abstract Book

Contact

Hugh MacIsaac, Great Lakes Institute for Environmental Research  
 University of Windsor, Windsor, Ontario N9B 3P4, USA

**WS-5****Sensor Technology for Remote Interactive Experiments in Aquatic Environments**

Organizer Kendra Daly (kdaly@nsf.gov), USA; H. Lawrence Clark (hclark@nsf.gov), USA; Gwyn Griffiths (Gwyn.Griffiths@soc.soton.ac.uk), UK and John Delaney (jdelaney@u.washington.edu), USA  
 Time: Sunday, June 4 from 10.00 to 17.00  
 Place: Room 19, The Bella Center  
 Participants: Max. 30

## Abstract

We anticipate the need for the development of new or re-engineered technologies and sensor design for use in continuous interdisciplinary experiments associated with moored, cabled, and autonomous observatories. Two goals of this workshop are to bring together scientists and engineers with diverse backgrounds to assess current challenges for in situ experimentation in remote or hostile aquatic environments, and to exchange new ideas and promote dialogue on innovative experimental approaches and sensor design, particularly for chemical and biological measurements. Interested parties should submit a brief statement of interest and references, if appropriate, to K. Daly and L. Clark by 15 January 2000. Students are encouraged to apply.

## Contact

Kendra Daly, National Science Foundation, Division of Ocean Sciences, 4201, Wilson Blvd, Arlington, VA 22230, USA (Fax 703-306-0390)

**WS-6****Fixed links across the Danish Straits, a challenge for science and management**

Organizer: Carsten Jørgensen (crj@cowi.dk), Denmark  
 Time: Tuesday, June 6 from 13.30 to 15.30  
 Place: Room 18, The Bella Center

Abstract: The title of this workshop reflects the fact that the complex environment and a sensitive public forum have lead to a long but fruitful process of development. This presentation will include a brief overview of three crucial aspects:  
 Principles: Environmental principles in connection with the large construction works are tied to the design phase as well as the construction phase. In the design phase different environmental design criteria have been defined. The most discussed principle, the so-called "zero blocking" principle, will be presented and illustrated. The overall requirement for any design criterion is that it is based on sound scientific principles, e.g. it must be verifiable, and it must be technically and economically operational. In the construction phase the principles of environmental management has been applied. These principles can be compared with the principle in an emergency response plan: The backbone consists of a monitoring programme of key parameters and a pre-defined scheme of response actions. The principles are illustrated and examples for specific response action will be given.

Scientific advances: Advances within the physical oceanography were concentrated on simulation of estuarine processes and impact of structures on a stratified flow. The increased capability of numerical models made it possible to include oceanographic criteria in the overall design of the links. Examples of model development comprise resistance, sedimentation, geostrophic features and ship induced mixing. Within the marine biology the main advantages were concerning impact due to the construction work and the following recovery process of biotopes. Especially the effect of shading and sedimentation during periods of massive dredging was investigated. The potential impact on biological parameters, like oxygen concentration and extension of eelgrass beds have been modelled. The hydraulic models were refined to such a degree that they could include important biological processes. Impacts on biological key parameters could now be modelled within the frame of the (minor) changes of the environment due to the fixed links. The solution of this task required intense co-operation between experts from the field of hydraulics, physical oceanography and marine biology. Field data: A unique data set of synoptical physical, chemical and biological data was acquired over periods of several years for both constructed links. The data were collected for the specific purpose of calibration and verification of the models, however, some "unexpected" measurements forced us to reconsider our understanding and hence to improve the current models. In the future the

Contact

databases will serve as a valuable source for future research and monitoring.  
Carsten Jürgensen, COWI, Consulting Engineers and Planners, Parallevej  
15, DK - 2800 Lyngby,

WS-7and WS-2

### **Development and application of tracer methodologies for marine and freshwater biogeochemical studies**

Organizer Raphael Kudela (rmkudela@cats.ucsc.edu), USA, Dennis R. Phillips (drp@lanl.gov), USA and Veronique Martin\_jezequel (vmartin@univ-brest.fr), France  
Time: June 4 from 10.00 to 17.00

Place: Room 20, The Bella Center

Abstract

Methodologies have been developed for quantifying the elemental fluxes (C, N, P, O, Si, Fe) of biogenic matter in marine systems and organisms.

A workshop gathering the researchers producing and using tracers provides the opportunity to share experiences and knowledge in classical or new topics: 1 Quantifying aspects of elemental cycles such as Biological production (gross rates, kinetic studies), Recycling (remineralization, dissolution), Differential discrimination ("living" vs. detrital), and Studies of the phytoplankton cell physiology (uptake, intracellular transport and storage) 2 Utilization of new tracers and newly described elemental cycles, problem of production and relative applicability of the various existing and new tracers, tracer experiments coupled to other techniques, multi tracer techniques, comparison of radioactive versus stable isotopes used.  
Presenter Abstracts in the Abstract Book

Contact

Veronique Martin-Jezequel, Charge de Recherche, CNRS, UMR 6539, IUEM, UBO, Technopole Brest-Iroise, F-29280, FRANCE

WS-8

### **Application oriented marine science and the role of ICES.**

Organizers: Keith Brander (keith@ices.dk) Denmark, Brian MacKenzie, Denmark and Mike Reeve, NFS Washington.

Time: Tuesday June 6 from 13.30 to 15.30.

Place: Room 17, The Bella Center.

ICES has its headquarters in Copenhagen and has played a major role in application oriented, international, marine science in the North Atlantic for a hundred years. In many countries, organisational, funding and scientific boundaries, which are generally unwelcome, have arisen between applied scientists and the wider community. Advice on sustainable exploitation and protection of the marine environment, within the context of global change, requires an integrated approach. Recent work on ecology and fisheries of the Baltic provides an example of sophisticated interdisciplinary research with applied objectives. ICES continues to encourage broad scientific participation via programmes such as GLOBEC.

The invited speakers will highlight some of the institutional and scientific boundaries, which constrain current efforts to carry out and apply the range of research needed for management of marine systems. Institutional boundaries mean that "pure" and "applied" science is often funded from different sources and carried out in different research organisations. Scientific boundaries can make it difficult to interest scientists in other fields (e.g. meteorology, ocean physics) in specific problems related to the marine ecosystem. Papers and contributions to discussion of these issues are welcome.

Contact

Keith Brander, ICES/GLOBEC Secretary, ICES, Palaegade 2-4, DK-1261 Copenhagen K, Denmark.

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- SS 01-02p    REGULATION OF PERIPHYTIC COMMUNITY STRUCTURE BY HERBIVORES AND NUTRIENTS  
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- SS 42-02p MICROBIAL MERCURY METHYLATION AND DEMETHYLATION POTENTIAL RATES UNDER DIFFERENT ELECTRON ACCEPTING CONDITIONS IN MINERAL-RICH WETLAND SEDIMENTS  
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- CS06-10p BENTHIC VIRUS-LIKE PARTICLE ABUNDANCE ALONG EUTROPHICATION GRADIENTS IN  
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I Hewson, J O'Neil, W Dennison
- CS06-11p COMMUNITY DYNAMICS OF MOTILE CORAL REEF MESOBENTHOS: 3-DIMENSIONAL  
ARTIFICIAL SUBSTRATES AS A SURROGATE FOR NATURAL SUBSTRATA  
J Robinson, J Thomas
- CS06-12p INTERACTION BETWEEN NUTRIENTS AND GRAZERS ON INTERTIDAL  
MICROPHYTOBENTHIC COMMUNITY STRUCTURE  
S Hagerthey, R Ford, D Paterson
- CS06-13p THE RELATIVE IMPORTANCE OF LETHAL AND NON-LETHAL EFFECTS ON INSECT  
COLONISATION: EVIDENCE FROM AN OUTDOOR POOL EXPERIMENT  
K Åbjörnsson, C Brönmark, L Hansson
- CS06-14p ADAPTATION AND SPECIES DOMINANCE IN RESPONSE TO REDUCED LIGHT INTENSITY.  
E Defew
- CS06-15p A RESIDENTIAL STUDY OF THE FISH SPECIES THAT UTILIZE THE SEAGRASS BEDS IN THE  
INDIAN RIVER LAGOON  
A Balderas
- CS06-16p BARNACLES ASSOCIATED WITH CARIBBEAN MARINE VERTEBRATES  
J Cintron-De Jesus, E Williams, L Bunkley-Williams, A Mignucci-Giannoni
- CS06-17p ASSIMILATION OF MICROBIAL EXOPOLYMERS BY A DEPOSIT-FEEDING BRITTLESTAR  
D Hoskins, S Stancyk, A Decho, V Lewis, W Piegorsch
- CS06-18p THE CENSUS OF MARINE LIFE: ADDRESSING CHALLENGES IN BIODIVERSITY  
J F Grassle, C J Decker
- CS06-19p DENITRIFICATION IN PERIPHYTON IN AN AMAZONIAN LAKE  
A Enrich-Prast, F Esteves, L Nielsen
- CS06-20p A REFERENCE SYSTEM FOR BIODIVERSITY OF RUNNING WATER IN DENSILY POPULATED  
AREAS  
T Baekken, K Aagaard, E Lindstroem, S Sloreid, T Andersen

## Posters

- CS06-21p LITTORAL DISTRIBUTION PATTERNS OF MEIOBENTHIC COMMUNITIES AT LAKE  
CONSTANCE  
A Witthoeft-Muehlmann, K Rothhaupt, W Traunspurger
- CS06 -22p BENTHIC COMMUNITY STRUCTURE AND ACTIVITY IN THE AEGEAN SEA MEDITERRANEAN  
A Tselepidis, G Duineveld, N Papadopoulou, L Moodley, N Lampadariou

### **Section II CS 10 Biomanipulation and applied ecology**

- CS 10-01p PHYTOPLANKTON RESPONSES TO BIOMANIPULATION IN A EUTROPHIC LAKE  
K Vuorio, J Sarvala
- CS 10-02p THE ROLE OF PHOSPHORUS RELEASE BY ROACH IN THE WATER QUALITY CHANGES OF A  
BIOMANIPULATED LAKE  
M Tarvainen, J Sarvala
- CS 10-03p THE EFFECTS OF URBANIZATION ON THE GROWTH RATE OF FUNDULUS HETEROCLITUS: A  
COMPARATIV STUDY OF TWO VIRGINIA SALT MARSHES  
E L Holoman
- CS 10-04p FIRST BIOMANIPULATION CASE IN A WARM-TEMPERATE TURKISH LAKE  
M Beklioglu, O Ince, C Muluk, I Tuzun, C Tan
- CS 10-05p WEATHER - INDUCED CHANGES IN THE SHOALING BEHAVIOUR OF CYPRINIDS: AN  
INDIRECT EFFECT OF NON-POINT EXTERNAL LOADING ON BIOMANIPULATION  
I Sammalkorpi, E Hooloman
- CS 10-06p DRAINAGE OF LAKES IN THE KINGDOM OF DENMARK BETWEEN 1768 - 1805 AND THE  
LATE 1970'S  
G Larson, E Jeppesen, I Sammalkorpi

### **Section I CS 14 Extreme environments (e.g. saline lakes, high/low temperatures)**

- CS 14-01p CHANGES IN TROPHIC INTERACTIONS ALONG A GRADIENT IN NUTRIENTS AND SEDIMENT  
IN BRACKISH LAKES. II. ENCLOSURE EXPERIMENTS  
E Jeppesen, M Søndergaard, T Lauridsen, F Landkildehus
- CS 14-02p REMAINS OF CLADOCERANS, FORAMINIFERS AND OSTRACODS AS INDICATORS OF  
TROPHIC DYNAMICS IN BRACKISH LAKES  
S Amsinck, E Jeppesen, F Landkildehus
- CS 14-03p EFFECT OF PISCIVOROUS FISH ON STICKLEBACKS IN A BRACKISH LAKE.  
S Berg, L Jacobsen, C Skov
- CS 14-04p THE ARTIFICIAL VEGETATION MODULE (AVM) SYSTEM: A NEW TECHNIQUE FOR FISH  
SAMPLING DESIGN  
S Berg, C Skov, L Jacobsen
- CS 14-05p STRUCTURE AND FUNCTIONS OF DANISH BRACKISH LAKES  
J Jensen, E Jeppesen
- CS 14-06p A SURVEY OF DMSO AND RELATED SULFUR COMPOUNDS IN ANTARCTIC ENVIRONMENTS  
P Lee, J Priscu, G DiTullio, S Riseman, J Lisle, B Vaughn, S de Mora
- CS 14-07p NEOMYSIS INTEGER IN BRACKISH LAKES AND ITS IMPACT ON TROPHIC STRUCTURE  
M Søndergaard, E Jeppesen, H Aaser

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- CS 14-08p PROCESS RATES AND GROWTH LIMITING FACTORS OF PLANKTONIC ALGAE FROM EXTREMELY ACIDIC (pH 2,5-3) MINING LAKES IN GERMANY  
J. Tittel, V Bissinger, U Gaedke
- CS 14-09p METHANE OXIDATION WITHIN METHANE SEEP SEDIMENTS  
M de Angelis, M Torres
- CS 14-10p IMPORTANCE OF SUBMERGED MACROPHYTES AND FISH TO ZOOPLANKTON IN A BRACKISH LAKE  
T Lauridsen, M Søndergaard, E Jeppesen, F Landkildehus
- CS 14-11p CHANGES IN ZOOPLANKTON GRAZING PRESSURE ON PHYTOPLANKTON ALONG A SALINITY AND NUTRIENT GRADIENT IN THE BRACKISH LAKES IN VEJLERNE, DENMARK  
L Pedersen, I Christensen

### Section I

- CS 16 Microbial food web interactions**
- CS 16-01p MOUNTAIN LAKES PELAGIC FOOD WEB STRUCTURE FROM MICROBES TO ZOOPLANKTON - WHERE ARE THE GRAZERS?  
V Straskrabova
- CS 16-02p BIOGEOCHEMICAL EVOLUTION IN THE RHONE RIVER PLUME AND INFLUENCE OF THE RIVER INPUTS (NUTRIENTS AND DOM) ON BACTERIAL AND PRIMARY PRODUCTIONS  
P Conan, M Pujo-Pay, F Joux, L Oriol, J Naudin, G Cauwet
- CS 16-03p THE CONTRIBUTION OF BACTERIOPLANKTON CELL WALL COMPOUNDS TO THE DOC POOL IN THE NORTH ATLANTIC: PRODUCTION RATES AND TURNOVER  
M Perez, C Pausz, G Kramer, G Herndl
- CS 16-04p MICROBIAL FOOD WEB IN A MEROMICTIC CAVE LAGOON OF THE BALEARIC ISLANDS (MEDITERRANEAN SEA)  
E Sintes, A Martínez-Taberner, G Moy, G Ramón
- CS 16-05p THE ROLE OF MIXOTROPHIC CILIATES (STENTOR) IN AN OLIGOTROPHIC PATAGONIAN LAKE (CHILE)  
S Woelfl
- CS 16-06p ECTOENZYME DIVERSITY AND SUCCESSIONAL CHANGES IN BACTERIAL BETA-GLUCOSIDASE ACTIVITY IN THE COASTAL NORTH SEA  
J Arrieta, G Herndl
- CS 16-07p TEMPERATURE DEPENDENT GROWTH RATES OF PLANKTONIC PROTOZOA: THE SIGNIFICANCE OF INTRASPECIFIC DIFFERENCES  
T Weisse
- CS 16-08p CHROMOPHORIC DISSOLVED ORGANIC MATTER PRODUCTION IN TWO SPECIES OF PHYTOPLANKTON  
E Rochelle-Newall, T Fisher
- CS 16-09p A WHOLE MARINE ECOSYSTEM FERTILIZATION EXPERIMENT: DYNAMICS OF DOC DURING FOUR YEARS IN HOPAVTGEN (NORWAY)  
S. Kirkvold, K Børshheim, S Mykkestad, Y Olsen, H Reinertsen, O Vadstein
- CS 16-10p NUTRIENT LIMITATION OF AUTOTROPHIC AND POTENTIALLY MIXOTROPHIC PHYTOPLANKTON IN TROPICAL LAGOONS DIFFERING IN HUMIC CONTENT  
C Pålsson, A Anesio, W Granéli

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- CS 16-11p COMPETITION FOR PHOSPHATE BETWEEN PHYTOPLANKTON AND BACTERIA OF SIMILAR SIZE  
S Drakare, P Blomqvist
- CS 16-12p QUANTIFICATION AND X-RAY ANALYSIS OF SPECIFIC GROUPS OF ALGAE SCALES  
H Landa, M Heldal, G Bratbak
- CS 16-13p EXPLORING LYTIC AND TEMPERATE VIRUSES OF GYMNODINIUM BREVE AS A MECHNSIM OF CONTROLLING RED TIDE BLOOMS  
L Houchin, D Griffin, J Paul
- CS 16-14p PLANKTONIC CILIATES IN THE OLIGOTROPHIC MEDITERRANEAN SEA: LONGITUDINAL TRENDS OF STANDING STOCKS AND ANALYSIS OF FOOD VACUOLE CONTENTS  
P Pitta, A Giannakourou, U Christaki, G Gregori, F Van Wambeke
- CS 16-15p BACTERIOPLANKTON AND PHYTOPLANKTON DIVERSITY IN SALT MARSH TIDAL CREEKS  
A Lewitus, E Koepfler, A Lewitus, P Noble, J Almeida, M Wetz
- CS 16-16p STRAIN-SPECIFIC GRAZING BY A CILIATE (URONEMA SP.), DETERMINED WITH IMMUNOF LUORESCENCE AND FLOW CYTOMETRY  
L Frette, P del Giorgio
- CS 16-17p BENTHIC HETEROTROPHIC FLAGELLATES (HF)-STRUCTURE AND FUNCTION OF ASSEMBLAGES FROM BALTIC SEA, ANTARCTIC AND LAKE SEDIMENTS  
D Dietrich, H Arndt
- CS 16-18p THE EFFECT OF DIFFERENT N/P RATIOS AND ZOOPLANKTON ON THE MICROBIAL COMMUNITY IN THE ARCHIPELAGO SEA, NORTHERN BALTIC SEA  
J Sipura, G Weithoff, K Heikkilö, A Lagus, J Suomela, A Ventel
- CS 16-19p PHOSPHOROUS AND CARBON LIMITATION OF BACTERIAL ACTIVITIES IN THE MEDITERRANEAN SEA  
U. Christaki, F Van Wambeke, A Giannakourou
- CS 16-20p MICROZOOPLANKTON DYNAMICS AND RESPONSE TO A STORM-DRIVEN RESUSPENSION EVENT DURING THE WINTER-SPRING TRANSITION PERIOD  
P Kovalcik, P Lavrentyev
- CS 16-21p DIFFERENT FEEDING AND DIGESTION STRATEGIES OF BACTERIVOROUS NANOFLAGELLATES: DO THEY CAUSE FOOD SELECTIVITY?  
J Boenigk, H Arndt
- CS 16-22p INFLUENCE OF SOLAR RADIATION ON DISSOLVED ORGANIC MATTER AND BACTERIAL GROWTH IN THE SOUTHERN OCEAN  
S Bertilsson, P Carlsson, W Granéli
- CS 16-23p NEMATODE PREDATION ON CILIATES IN TIDAL FLAT SEDIMENTS: A CASE STUDY.  
I Hamels, T Moens, K Muylaert, W Vyverman
- CS 16-24p THE COMPARISON ON THE GROWTH RATE AND GRAZING RATE OF ESTUARINE TINTINNID AND OLIGOTRICH CILIATES IN THE LABORATORY  
E Yang, J Choi
- CS 16-25p PRODUCTION OF DISSOLVED ORGANIC CARBON (DOC) IN THE ATLANTIC OCEAN  
E Teira, M Pazó, E Marañón, E Fernández
- CS 16-26p ORGANIC CARBON PARTITIONING AND CARBON FLOW IN THE PLANKTON COMMUNITY OF THE AEGEAN SEA  
I Siokou-Frangou, U Christaki, E Christou, A Giannakourou, O Gotsis, L Ignatiades, K Pagou, P Pitta, S Psarra

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- CS 16-27p THE EFFECTS OF FIXATIVES ON HETEROTROPHIC FLAGELLATE ABUNDANCE AND BIOVOLUME: SIGNIFICANT LOSS AND SHRINKAGE USING COMMON PROCEDURES  
Wirth, H Arndt
- CS 16-28p FACTORS INFLUENCING THE SPECIES-SPECIFIC SEASONAL DISTRIBUTION OF HETEROOTROPHIC FLAGELLATES  
B Auer
- CS 16-29p MODELLING THE ROLES OF BACTERIAL AND PLANKTON COMMUNITIES IN THE CYCLES OF MATTER IN THE NORTH ADRIATIC SEA  
C Solidoro, G Umgieser, A Crise, G Crispi
- CS 16-30p DIRECT AND INDIRECT EFFECTS OF FILTER-FEEDING MOLLUSCS ON THE PLANKTON COMMUNITY OF THE RIVER RHINE  
A Eimer, H Arndt, Scherwass
- CS 16-31p COMMUNITY COMPOSITION OF CILIATES IN RELATION TO LAKE TYPE  
U Stensdotter, E Lindstrom, P Blomqvist
- CS 16-32p ESTIMATING PRODUCTION IN PLANKTON FOOD WEBS FROM BIOMASS SIZE SPECTRA AND ALLOMETRIC RELATIONSHIPS  
U Gaedke, J Spindler
- CS 16-33p CYCLING AND EXPORT OF BIOGENIC CARBON IN THE UPPER OCEAN: GLOBAL ESTIMATES BASED UPON THE FOOD-WEB CONTROL NODES APPROACH  
L Legendre, R Rivkin

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#### CS 17 Optics

- CS 17-01p HYDROLOGIC EFFECTS OF GROUNDWATER WITHDRAWAL ON NEARBY SHALLOWLY-FLOODED WETLANDS  
R Sobczak, T Cambareri
- CS 17-02p A SHORT PATHLENGTH TRANSMISSOMETER LAB-MODEL WITH AN IN-SITU CALIBRATION FACILITY  
R Prien
- CS 17-03p PROBLEMS ASSOCIATED WITH ESTIMATING ATTENUATION OF PHOTOSYNTHETICALLY ACTIVE RADIATION IN COLORED WATERS  
F Aldridge
- CS 17-04p VARIABILITY OF INHERENT OPTICAL PROPERTIES NEAR THE SEDIMENT WATER INTERFACE  
J Zaneveld, E Boss
- CS17-05p SEASONAL VARIATION OF ULTRAVIOLET TRANSPARENCY IN LAKES  
B Hargreaves, D Morris, R Moeller, C Williamson
- CS17-06p REMOTE SENSING AND OPTICAL IN-WATER MEASUREMENTS OF A CYANOBACTERIA BLOOM IN THE BALTIC SEA  
S Kratzer, A Subramaniam
- CS 17-07p PELAGIC PHYTOPLANKTON IN SITU PRIMARY PRODUCTIVITY APPROACHED BY <sup>14</sup>C-TECHNIQUE AND FAST REPETITION RATE FLUOROMETRY (FRRF) IN THE BALTIC SEA: A COMPARISON  
M Raateoja



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- Section I**      **CS 19**      **Phytoplankton ecology**
- CS 19-01p    CHANGES IN THE SPATIAL FREQUENCY OF FLUORESCENCE OBSERVATIONS ACROSS THE TIDAL MIXING FRONT OF GEORGES BANK, NW ATLANTIC  
K Fisher
- CS 19-02p    NUMERICAL SIMULATION OF PFIESTERIA PISCICIDA POPULATION DYNAMICS  
R Hood, X Zhang, J Anderson
- CS 19-03p    GROWTH OF HETEROSIGMA AKASHIWO: EFFECTS OF LIGHT AND NITROGEN SUBSTRATE  
J Hunt, W Cochlan
- CS 19-04p    INTER-CLONAL GROWTH RATE VARIABILITY IN A RED TIDE DINOFLAGELLATE  
A Shankle, P Franks
- CS 19-05p    THE GROWTH OF NATURAL COMMUNITIES OF AUTOTROPHIC PICOPLANKTON IN DIFFERENT LIGHT, TEMPERATURE AND NUTRIENT CONDITIONS  
I Jasser, L Arvola
- CS 19-06p    TEMPORAL AND SPATIAL VARIABILITY IN PHOTOSYNTHETIC RESPONSE OF BALTIC SEA PHYTOPLANKTON  
C Böttcher, A Müller
- CS 19-07p    TOXICITY OF MICROCYSTIS AERUGINOSA TO DAPHNIA: AN INDUCIBLE DEFENSE MECHANISM?  
M Lürling, E van der Grinten
- CS 19-08p    ECOLOGY AND SYSTEMATICS OF EUCARYOTIC PICOALGAE  
D Hepperle
- CS 19-09p    QUESTIONING PARADIGMS CONCERNING DIATOMS  
D Montagnes, D Franklin
- CS 19-10p    MULTIVARIATE STATISTICAL ANALYSIS OF THE FACTORS CONTROLLING THE PHYTOPLANKTON BIOMASS OF ARGENTINE PATAGONIAN LAKES  
M Diaz, F Pedrozo, N Baccal
- CS 19-11p    APHANIZOMENON BLOOMS IN LAKE KINNERET: RESPONSES TO NUTRIENT ADDITIONS AND TO ZOOPLANKTON GRAZING  
T Zohary, K Hambright
- CS 19-12p    A WINTER CRYPTOFLAGELLATE BLOOM IN AN EUTROPHIC ESTUARY - SURVIVAL DURING PERIODS OF VERY LOW LIGHT INTENSITIES DUE TO ICE COVERING  
A Hammer
- CS 19-13p    AXENIC GROWTH OF AUREOCOCCUS ANOPHAGEFFERENS ON INORGANIC AND ORGANIC SOURCES OF NITROGEN  
G Berg, J LaRoche, H Murray-Tobin
- CS 19-14p    EVIDENCE FOR MULTIPLE SPECIES WITHIN THE ENDOPARASITIC DINOFLAGELLATE AMOEBOPHYRA CERATII BASED ON 18S rRNA GENE SEQUENCES  
S Jansson, L Gisselson, E Granéli, P S Salomon
- CS 19-15p    THE INFLUENCE OF NUTRIENT-LIMITATION ON FEEDING IN LABORATORY CULTURES OF THE MIXOTROPHIC DINOFLAGELLATE CERATIUM FURCA  
G Smalley, D Coats
- CS 19-16p    DOMINANCE BY ANABAENA CIRCINALIS OR AULACOSEIRA SPP. IN AUSTRALIAN FRESH WATERS : THE ROLE OF LIGHT AND MIXING  
M McCausland, P Thompson, S Blackburn

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- CS 19-17p TRAFFIC-INDUCED CHANGES OFF THE LANGNAS HARBOR, EASTERN ALAND  
T Lindholm, M Svartstrom, J Meriluoto, L Spoof
- CS 19-19p PHOTOSYNTHETIC EFFICIENCY AND DYNAMICS OF AUTOTROPHIC PICOPLANKTON AFTER  
LAKE MAGGIORE RECOVERY.  
C Callieri, R Piscia,
- CS 19-20p PHOTOSYNTHESIS AND MOLECULAR ORGANISATION OF GLYCOLIPIDS IN NITRATE  
LIMITED ANTARCTIC SEA ICE DIATOMS  
T Mock, B Kroon
- CS 19-21p FOOD QUALITY OF PHYTOPLANKTON FOR THE ZEBRA MUSSEL DREISSENA POLYMORPHA  
L Dionisio Pires, E Van Donk
- CS 19-22p WHY DOES A METALIMNETIC POPULATION OF PLANKTOTHRIX RUBESCENS PRODUCE  
TOXINS?  
E Roschitz, S Gammeter, J Fastner
- CS 19-23p EVIDENCE FOR MULTIPLE SPECIES WITHIN THE ENDOPARASITIC DINOFLAGELLATE  
AMOEBOPHYA CERATII BASED ON 18S rRNA GENE SEQUENCES  
L Gisselson, P S Salomon, E Granéli
- CS 19-24p TEMPORAL DYNAMIC AND SPATIAL DISTRIBUTION OF TOXIC CYANOBACTERIA IN A  
SHALLOW LAKE  
M Welker, C Steinberg
- CS 19-25p ACCUMULATION OF MICROCYSTINS IN AQUATIC FOOD WEBS  
G Ahlgren, E Willén
- CS 19-26p RESISTANCE OF RESTING SPORE AND RESTING CELL OF A MARINE DIATOM,  
CHAETOCEROS PSEUDOCURVIVETUS TO GRAZING OF COPEPODS  
A Kuwata, A Tsuda
- CS 19-27p ECOLOGY OF PHACOTUS (CHLOROPHYTA, CHLAMYDOMONADALES) - INTER- AND  
INTRASPECIFIC VARIATIONS  
I Schlegel
- CS 19-28p BIOACTIVE COMPOUNDS IN THE CYANOBACTERIUM PLANKTOTHRIX RUBESCENS AND  
THEIR ROLE IN THE PLANKTONIC COMMUNITY  
J Blom, F Jüttner
- CS 19-29p PHOSLOCK. A NEW TECHNIQUE TO REDUCE ALGAL BLOOMS THROUGH REDUCTION OF P  
RELEASE FROM SEDIMENTS  
M Robb, G Douglas, P Raitt, J Adeney
- CS 19-30p CYANO-BACTERIAL COMMUNITIES IN WATERBODY - LAND CONTACT AREAS:  
DISTRIBUTION AND THE BIOSPHERIC ROLE  
B Namsaraev, L Gerasimenko, N Shadrin
- CS 19-31p ROLE OF MICROCYSTINS IN POISONING AND INGESTION INHIBITION OF SEVERAL  
DAPHNID SPECIES CAUSED BY THE CYANOBACTERIUM MICROCYSTIS AERUGINOSA  
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T Rohrlack, K Christoffersen, E Dittmann, T Börner
- CS 19-32p PHYTOPLANKTON SPECIES DISTRIBUTION AND DIVERSITY ALONG CHEMICAL GRADIENTS  
IN NORWEGIAN LAKES  
B Faafeng, P Brettum, T Oredalen
- CS 19-33p A VIRUS FROM CHESAPEAKE BAY ASSOCIATED WITH DECLINE OF A BLOOM OF  
PROROCENTRUM MINIMUM REDUCES P. MINIMUM CELL COUNTS IN THE LABORATORY  
G Pereyra, R Colwell

## Posters

- Section II CS 20 Plankton and nutrient dynamics**
- CS 20-01p UNDERSTANDING THE NITROGEN DYNAMICS BEHIND BLUE-GREEN ALGAL BLOOMS IN A HYPERTROPHIC VERMONT LAKE  
L Ferber, S Levine, A Lini, G Livingston
- CS 20-02p THE NUTRITIONAL STATE OF WATER PLANTS CONTROLS THE RESOURCE UTILIZATION  
T Andersen
- CS 20-03p THE RESPONSE OF AUTOTROPHIC PICOPLANKTON (SYNECHOCOCCUS SP.) TO EXPERIMENTAL NUTRIENT INPUTS OF VARYING N:P RATIOS  
N Agawin, C Duarte, S Agustí
- CS 20-04p SILICIC ACID UPTAKE AND NEW PRODUCTION IN NUTRIENT ENRICHED ENCLOSURES  
S Kristiansen
- CS20-05p MODELLING THE DYNAMICS OF PHOSPHORUS RELEASE FROM OCCASIONALLY ANOXIC IRON RICH SEDIMENTS  
M Harper
- CS20-06p CONTROLLING CYANOBACTERIA BLOOMS BY ZOOPLANKTON HERBIVORY; MYTH OR REALITY?  
A Ghadouani, B Pinel-Alloul, E Prepas
- CS 20-07p NUTRIENT EXCRETION BY GIZZARD SHAD IN A EUTROPHIC KENTUCKY RESERVOIR  
J Shostell, P Bukaveckas
- CS 20-08p INFLUENCE OF MIXING DEPTH ON PHYTOPLANKTON, LIGHT, AND NUTRIENTS: A COMPARATIVE LAKE STUDY. T J Kunz
- CS 20-09p INFLUENCE OF NUTRIENT ENRICHMENTS ON CYANOBACTERIA AND PHYTOPLANKTON COMMUNITY IN THE ARCHIPELAGO SEA, SW FINLAND  
A Lagus, M Silander, J Suomela
- CS 20-10p NITRATE AVAILABILITY AFFECTS FOOD WEB STRUCTURE  
T Vrede, G Aronsen, J Lindblom
- CS 20-11p THE ROLE OF THE MICROBIAL COMMUNITY IN NITROGEN CYCLING IN SHALLOW HYPERTROPHIC SHRIMP AQUACULTURE PONDS  
M Burford, N Preston, P Glibert, W Dennison
- CS 20-12p EFFECT OF NUTRIENT RATIOS ON THE UPTAKE AND TRANSFER OF <sup>14</sup>C FROM PHYTOPLANKTON TO COPEPODS. J Holswilder, E Granéli
- Section II CS 22 Stable isotopes**
- CS 22-01p STABLE CARBON ISOTOPE EVIDENCE FOR THE IMPORTANCE OF MICROPHYTOBENTHOS AS AN ENERGY SOURCE FOR TIDAL FLAT MEIOFAUNA  
T Moens, C Luyten, J Middelburg, P Herman, M Vincx
- CS 22-02p TRANSFER OF ORGANIC MATTER IN THE DEEP ARABIAN SEA ZOOPLANKTON COMMUNITY: INSIGHTS FROM D<sup>15</sup>N ANALYSIS  
R Koppelman, H Weikert
- CS 22-03p NITROGEN STABLE ISOTOPES OF FISH SCALES - PROXY FOR ANCIENT FOOD-WEB STRUCTURE OF NORTHERN ANCHOVY  
I Peeken, R Goericke, J Montoya
- CS 22-04p CARBON CYCLING IN A POLLUTED RIVER: WISLA, POLAND. P Wachniew

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- CS 22-05p THE ROLE OF SPARTINA ALTERNIFLORA IN A LOUISIANA ESTUARINE MARSH FOOD WEB: CONSIDERATIONS BASED ON CARBON AND NITROGEN STABLE ISOTOPE ANALYSIS  
G Duque, B Fry
- CS 22-06p REDOX-DEPENDENT STABLE SULFUR ISOTOPIIC FRACTIONATION BY SULFATE-REDUCING BACTERIA  
V. Brüchert, J Detmers, K Habicht, J Kuever
- CS 22-07p INTER-MODEL VALIDATION OF TROPHIC ISOTOPIIC ENRICHMENT  
T Kline
- CS 22-08p USING STABLE ISOTOPIES TO MEASURE PELAGIC-BENTHIC COUPLING OF H.O.C.S IN LAKE MICHIGAN  
H Stapleton, J Baker, Masterson, P Ostrom
- CS 22-09p UTILIZATION OF PELAGIC CARBON POOLS IN LAKES OF DIFFERENT HUMIC CONTENT  
E Kritzberg, A Anesio, W Granéli

### Section II

#### CS 23 Streams

- CS 23-01p PREDICTING SMALL DAM REMOVAL IN WISCONSIN  
B Roth, J Gonzales, R Derrig-Green, G Quick
- CS 23-02p COMPARISON OF PLANKTONIC FOOD WEB DYNAMICS IN THE LINKED RIVERS RHINE, MOSELLE AND SAAR IN 1999  
T Bergfeld, A Schoel, D Mueller
- CS23-03p ESTIMATION OF THE RETENTION EFFICIENCY FOR FINE PARTICULATE ORGANIC MATTER IN A LOWLAND RIVER USING FLUORESCENTLY LABELLED LYCOPODIUM SPORES AS TRACER PARTICLES  
S Wanner, M Pusch
- CS 23-04p AQUATIC HABITAT STRUCTURE AND TURNOVER ALONG A BRAIDED FLOODPLAIN RIVER: TAGLIAMENTO RIVER, ITALY  
D Arscott, K Tockner, J Ward
- CS 23-05p STREAM MACROINVERTEBRATE RESPIRATION MEASURED IN SITU AT DIFFERENT TEMPERATURES AND DIFFERENT ALTITUDES IN ECUADOR  
D Jacobsen, S Rostgaard
- CS 23-06p STRUCTURE AND DEVELOPMENT OF THE CILIATE FAUNA IN THE POTAMOPLANKTON OF THE RIVER RHINE  
A Scherwass, H Arndt
- CS 23-07p AIR-SEA CO<sub>2</sub> FLUXES WITHIN UPWELLING AREAS OFF CENTRAL AND NORTHERN CHILE (30S AND 23S) DURING AUSTRAL SUMMER 1997.  
R Torres-Saavedra, D Turner, J Rutllant
- CS 23-08p INFLUENCE OF LAND USE AND SEASON ON SOURCES OF NITRATE IN RUNOFF FROM URBAN AND RURAL WATERSHEDS  
A Spacie, A Leuenberger, V Poole
- CS 23-09p A HEAVY METAL ANALYSIS OF SIX STREAMS IN THE ANGELINA STATE FOREST, TEXAS  
R Hernandez
- CS23-10p PHYTOPLANKTON COMPOSITION AND SEASONAL DYNAMICS IN THE RIVER SKROBLUS (SOUTH-EAST OF LITHUANIA)  
J Kostkeviciene

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- CS23-11p THE EFFECT OF HUMAN ACTIVITY ON STREAM ECOSYSTEMS: HYDRAULIC CHANGES AND THE DEVELOPMENT OF HYPORHEIC ZONES  
D White, S Hendricks

### Section II CS 25 Aquatic chemistry and ecotoxicology

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Holt, C .....	SS 23-07	Jankowski, T .....	CS27-06p	Kairesalo, T .....	SS 20-14p
Honeywill, C .....	CS 06-01p	Jansson, M .....	SS 16-06p	Kaki, T .....	SS 45-03p
		Jansson, M .....	SS 16-10p	Käki, T .....	SS 45-06p
Hong, H .....	SS 08-15p	Jansson, M .....	SS 16-05p	Kamman, N .....	SS 22-07p
Honkanen, T .....	SS 41-05	Jansson, S. ....	CS 19-14p	Kangur, A .....	SS 20-03p
Honkanen, T .....	SS 41-03p	Järvinen, M .....	SS 27-06p	Kangur, A .....	SS 27-03p
Hood, R .....	SS 37-18p	Jasser, I .....	CS 19-05p	Kangur, K .....	SS 20-03p
Hood, R .....	CS 19-04	Jaubert, J .....	SS 21-10p	Kangur, P .....	SS 20-03p
Hood, R .....	CS 19-02p	Jaubert, J .....	SS 25-03p	Kangur, P .....	SS 27-03p
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Hopkins, T .....	SS 04-08p	Jeffries, M .....	CS 05-02p	Kankaala, P .....	SS 45-06p
Hopkinson, C .....	SS 02-03	Jegou, A .....	SS 37-07p	Karjalainen, M .....	CS 27-17p
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Hoskins, D .....	CS 06-02p	Jensen, H .....	SS 31-10p	Karlsson, A .....	SS 25-01p
Houchin, L .....	CS 25-19p	Jensen, J .....	CS 14-05p	Karlsson, I .....	SS 25-01p
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Hudson, J .....	SS 27-11p	Jeppesen, E .....	CS 14-05p	Keller, B .....	CS 27-19p
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Humborg, C .....	SS 33-05p	Johansson, M .....	SS 35-04p	Kettrup, A .....	CS 25-11p
Hunt, J .....	CS 19-03p	Johansson, M .....	SS 37-09p	Kibirige, I .....	CS 27-23p
Hurley, J .....	SS 43-08p	Johansson, S .....	CS 25-25p	Kiene, R .....	SS 42-10p
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Huser, B .....	SS 25-01p	Johnsen, K .....	SS 09-01p	Kimmel, D .....	SS 37-20p
		Johnson, J .....	SS 08-09p	Kinnunen, R .....	SS 21-18p
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Ignatyev, S. ....	SS 35-06p	Jonasdottir, S .....	SS 34-07p	Kjaer, T .....	SS 44-18p
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Labry, C .....	SS 37-07p	Lee, I .....	CS 25-16	Linares, F .....	SS 31-07
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Reise, K .....	SS 21-20p	Roth, B .....	CS 23-01p	Schmidt, S .....	SS 40-08p
Remsen, A .....	SS 04-08p	Rothhaupt, K .....	CS 06-09p	Schmitt, F .....	CS 02-06p
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Revsbech, N .....	SS 44-18p	Roy, S .....	SS 38-06p	Schoning, K .....	SS 22-06p
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Rivier, I .....	SS 21-06p	Salonen, K .....	CS 27-13p	Shadrin, N .....	SS 21-17p
Rivier, Irina .....	SS 21-06p	Salonen, K .....	SS 12-05p	Shankle, A .....	CS 19-04p
Rivkin, R .....	SS 38-10p	Salonen, K .....	SS 27-06p	Sharp, J .....	CS 02-07p
Rivkin, R .....	CS 16-33p	Salonen, K .....	SS 45-02p	Shcherbina, G .....	SS 21-03p
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Rocio, G .....	CS26-04p	Sanpei, M .....	SS 38-15p	Shin, K .....	SS 34-06p
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Siokou-Frangou, I .....	CS 16-26p	Staal, M .....	CS 02-03p	Straile, D .....	CS 27-06p
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Skora, K .....	WS 04	Stahl, D .....	SS 42-05p	Straskrabova, V .....	CS 16-01p
Skov, C .....	CS 14-03p	Stahl, H .....	SS 40-03p	Strauss, E .....	SS 18-01p
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Sloreid, S .....	CS 06-20p	Stal, L .....	SS 07-07	Strömberg, N .....	SS 44-05p
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Snyder, F .....	SS 21-18p	Starink, M .....	SS 42-02	Sun, J .....	CS 20-07
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Sobrino, C .....	CS 26-03p	Stein, R .....	CS 20-12	Sundberg, K .....	SS 25-04
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Somers, K .....	SS 27-11p	Steinert, S .....	CS 26-02p	Sutton, T .....	SS 04-08p
Sommaruga, R .....	CS 26-07	Stensdotter, U .....	CS 16-31p	Suzuki, K .....	SS 05-04
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Spaak, P .....	CS 27-02	Steward, G .....	SS 13-09	Søndergaard, M .....	SS 15-03p
Spaak, P .....	CS 27-07	Stibor, H .....	CS 27-15	Søndergaard, M .....	CS 14-10p
Spacie, A .....	CS 23-08p	Stief, P .....	SS 40-06	Søndergaard, M .....	CS 14-01p
Spero, H .....	SS 27-12	Stierle, A .....	CS 05-06	Søndergaard, M .....	CS 14-07p
Spindler, J .....	CS 16-32p	Stierli, R .....	SS 04-04p	Sørensen, H .....	SS 05-09
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Taj, L .....	SS 33-02	Torres-Saavedra, R .....	CS 23-07p	Vanderbloemen, L .....	SS 04-06p
Takacs, M .....	SS 03-02	Tranvik, L .....	SS 16-10p	Vanderploeg, H .....	WS 04
Takahashi, K .....	SS 38-15p	Traunspurger, W .....	CS 06-21p	Vanek, T .....	SS 25-05p
Takai, K .....	SS 04-03p	Tréguer, P .....	WS 02	VanVleet, E .....	SS 26-01p
Tamminen, T .....	CS 20-13	Trei, T .....	SS 37-08p	Vargas, C .....	CS 27-07p
Tan, C .....	CS 10-04p	Trei, Tiia .....	SS 37-08p	Vargas, C .....	CS 27-29p
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Tang, K .....	SS 45-01p	Trigueros, J .....	SS 05-09p	Vaughn, B .....	CS 14-06p
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Tarvainen, M .....	CS 10-02p	Tunberg, B .....	SS 46-02p	Vermaat, J.E. ....	SS 27-14p
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Taylor, C .....	CS 02-02pp	Turner, D .....	CS 23-07p	Verschuren, D .....	SS 22-08p
Taylor, M .....	SS 21-13p	Turner, M .....	SS 27-09p	Viaroli, P .....	SS 31-03p
Taylor, W .....	WS 07	Tuzun, I .....	CS 10-04p	Videler, J .....	SS 35-07p
Tchernov, D .....	SS 35-03p	Tykva, R .....	SS 25-05p	Vidussi, F .....	SS 38-06p
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Telesh, I .....	SS 21-07	Uehlinger, U .....	CS 25-27p	Viitasalo, M .....	CS 27-17p
Telesh, I .....	WS 04	Uehlinger, U .....	SS 15-05p	Vincent, W .....	SS 37-06p
Tempel, J .....	SS 20-12	Uitto, A .....	SS 37-23p	Vincx, M .....	CS 22-01p
Tengberg, A .....	SS 44-04p	Ulicny, P .....	SS 27-01p	Viollier, E .....	SS 42-08p
Tengberg, A .....	SS 44-14p	Umgiesser, G .....	CS 16-29p	Von Elert, E .....	SS 21-15p
Tengberg, A .....	SS 40-03p	Underwood, G.J.C .....	SS 07-03p	von Quillfeldt, C .....	SS 38-04p
Terzi, S .....	SS 10-09p	Urrutia, A .....	SS 34-04p	Voss, M .....	SS 46-01p
Tessier, A .....	CS 25-13p			Vreca, P .....	CS 25-20p
Tessier, A .....	CS25-06	<b>V</b>		Vrede, T .....	CS 20-10p
Thar, R .....	SS 11-01p	Vadstein, O .....	SS 33-02p	Vretare, V .....	SS 20-08p
Theil-Nielsen, J .....	SS 20-01p	Vadstein, O .....	CS 16-09p	Vuorio, K .....	CS 10-01p
Thibaut, T .....	SS 21-21p	Vähätalo, A .....	SS 12-05p	Vyverman, W .....	CS 16-23p
Thomas, J .....	CS 06-11p	Valentin, J .....	SS 08-02p	Wachniew, P .....	CS 22-04p
Thompson, P .....	CS 19-16p	Valentín, M .....	SS 20-17p	Wacker, A .....	SS 21-15p
Thompson, R .....	SS 34-02p	Valentini, A .....	SS 40-07p	Waldmann, C .....	SS 04-02p
Thomsen, M .....	SS 33-03p	Vallet-Coulomb, C .....	SS 18-02p	Walker, K .....	SS 08-09p
Thorp, J .....	SS 21-04p	van Agterveld, M .....	SS 08-04p	Walseng, B .....	CS 27-03p
Threlkeld, S .....	SS 01-03p	Van As, H .....	SS 44-16p	Walz, N .....	SS 12-08p
Thys, I .....	SS 01-01p	Van Cappellen, P .....	SS 42-12p	Wang, C .....	SS 17-10p
Tita, G .....	SS 38-08p	van der Grinten, E .....	CS 19-07p	Wang, W .....	CS 25-15p
Tittel, Jörg .....	CS 14-08p	Van der Werff, I .....	SS 08-04p	Wang, X .....	SS 16-03p
Tockner, K .....	CS 23-04p	van der Zee, C .....	SS 43-07p	Wanner, S .....	CS 23-03p
Tockner, K .....	CS 25-27p	Van Donk, E .....	CS 19-21p	Ward, J .....	CS 23-04p
Tockner, K .....	SS 15-05p	van Duren, L .....	SS 35-07p	Ward, J .....	CS 25-27p
Toda, T .....	CS 27-08p	van Dusschoten, D .....	SS 44-16p	Ward, J .....	SS 15-05p
Tokle, N .....	CS 02-01p	Van Duyl, Fleur .....	SS 07-02p	Warner, K .....	SS 42-02p
Tolli, J .....	CS 02-02p	van Geest, G.J .....	SS 17-08p	Wastegård, S .....	SS 22-06p
Tolli, John .....	CS 02-02p	van Katwijk, M.M .....	SS 30-05p	Watkins, E .....	SS 27-09p
Tomlinson, M .....	SS 17-14p	Van Lenning, K .....	SS 05-04p	Webb, S .....	SS 42-05p
Tonnesson, K .....	CS 27-07p	van Lenning, K .....	SS 05-01p	Weber, O .....	SS 40-09p
Tönnesson, K .....	CS 27-29p	van Raaphorst, W .....	SS 43-07p	Wefer, .....	SS 04-07p
Tonolla, M .....	SS 12-01p	Van Wambeke, F .....	CS 16-14p	Wehde, H .....	SS 37-05p
Tornblom, E .....	SS 25-01p			Wehrli, B .....	SS 04-04p
Törneman, N .....	SS 16-04p				

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Weikert, H .....	CS 22-02p	Zapata, M .....	SS 05-06p
Weisner, S .....	SS 20-04p	Zehr, J .....	SS 08-17p
Weisse, T .....	CS 16-07p	Zervoudaki, S .....	CS 27-18p
Weithoff, G .....	CS 16-18p	Zervoudaki, T .....	CS 27-07p
Weitzel, B .....	SS 08-03p	Zervoudaki, T .....	CS 27-29p
Welker, M .....	CS 19-24p	Zhang, J .....	SS 32-02p
Welzl, G .....	CS 25-11p	Zhang, X .....	CS 19-02p
Wendt-Rasch, L .....	CS 25-12p	Zhukova, T .....	SS 21-09p
Wenzhoefer, F .....	SS 44-15p	Zimmermann-Timm, H .....	SS 10-06p
Wenzhöfer, F .....	SS 44-09p	Zohary, T .....	CS 19-11p
Werner, I .....	CS 05-06p	Zondervan, I .....	SS 27-05p
Westman, P .....	SS 22-06p	Zopfi, J .....	SS 42-01p
Westman, P .....	SS 22-01p	Zwart, G .....	SS 08-04p
Wetz, M .....	CS 16-15p	Zwart, G .....	SS 09-07
White, D .....	CS 23-11p	Zwisler, W .....	SS 10-04
White, D .....	SS 04-03p		
Whitehouse, M .....	SS 13-06p		
Wickland, K.P .....	SS 43-06p		
Wieland, A .....	SS 44-16p		
Wikner, J .....	SS 16-08p		
Willander, A .....	SS16-08p		
Willén, E .....	CS 19-25p		
Williams, E .....	CS 06-16p		
Williams, H .....	SS 08-09p		
Williamson, C .....	CS 17-05p		
Williamson-Smith, S .....	CS 25-19p		
Wilson, A .....	SS 21-02p		
Wiltshire, K .....	CS 06-01p		
Wiltshire, K .....	SS 05-05p		
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Woelfl, S .....	CS 16-05p		
Woin, P .....	CS 25-12p		
Wolfer, S .....	SS 20-05p		
Wommack, K .....	SS 08-19p		
Wong, C .....	CS 27-p25p		
Wong, C .....	CS 27-24p		
Wotton, R .....	SS 39-05p		
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Wulff, A .....	SS 07-01p		
Xu, Y .....	CS25-15p		
Yakovlev, V .....	SS 21-05p		
Yamazaki, H .....	CS 02-06p		
Yamazaki, H .....	SS 35-08p		
Yan, N .....	SS 23-02p		
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Yeung, S .....	CS 27-24p		
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Zapata, M .....	SS 05-01p		
Zapata, M .....	SS 05-04p		

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