The introduction and spread of invasive species in freshwater and marine environments is a worldwide problem that is increasing in frequency. There are various pathways by which non-indigenous invertebrate, fish, and plant species are introduced, becoming established and causing significant damage to coastal and freshwater ecosystems, and to the economies that depend upon them.

The Institute for Inland Water Management and Wastewater Treatment (RIZA) is hosting the 15th International Conference on Aquatic Invasive Species (ICAIS) that will be held in Nijmegen, The Netherlands from September 23 to 27, 2007.

This conference series has evolved over the last decade into the most comprehensive international forum for the review of accumulated scientific knowledge; presentation of the latest field research; introduction of new technological developments for prevention, monitoring and control; and discussion of policy, legislation, public education and outreach initiatives to raise awareness of the impacts of aquatic invasive species and prevent new introductions. The conference typically involves participants representing academia, industry, government agencies, NGOs and other stakeholders seeking opportunities for cooperation and collaboration to address the issues of aquatic invasive species.

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Abraham bij de Vaate, Waterfauna Hydrobiologisch Adviesbureau, Chair, Technical Program Committee, ICAIS 2007

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Glenn Rhett, US Army Engineer Research & Development Center

Darlene Smith, Fisheries and Oceans Canada

Gerard van der Velde, Radboud University Nijmegen

Christopher J. Wiley, Fisheries and Oceans Canada and Transport Canada

Conference Administrator

Elizabeth Muckle-Jeffs
The Professional Edge
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Toll Free (North America) 1-800-868-8776
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The Conference gratefully acknowledges the support provided by the following organizations:

The Institute for Inland Water Management and Wastewater Treatment (RIZA)

Radboud University Nijmegen

Environment Agency

USGS

NOAA Sea Grant National

Environmental Laboratory US Army Engineer Research and Development Center

Great Lakes Fishery Commission

Conference Location

The city of Nijmegen is approximately one hour by train from Amsterdam. All conference sessions are being held at the De Vereeniging Conference Centre in downtown Nijmegen.

Accommodation

For information about accommodation options, please see the ‘Accommodation’ page on the Conference website www.icais.org

Conference Registration

The early conference registration deadline is May 18, 2007. Please complete the form at the back of this brochure, or on-line through the Conference website, and send payment by check or money order in $USD payable to ICAIS.

Send payment to:

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Conference Administrator
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To pay by Visa or MasterCard please contact the Conference Administrator and provide the information by telephone, or send the completed form by fax to the number indicated above.

Please note that for currencies other than $USD, the rate will be converted to the currency of the card at the applicable exchange rate at the time the transaction is processed.

Refund Policy

Registration fees are refundable, less a $50 administration fee, provided that written notification of cancellation is provided to the Conference Administrator at the address indicated above by August 12, 2007. Refunds will not be issued until after the conference.
Conference at a Glance

Sunday, September 23
12:00 PM to 6:00 PM
Conference Registration Check-in

1:00 PM to 4:30 PM
Workshop
Invasive Bivalves: A refresher on biology, fouling potential and available control strategies
(no additional fee, but pre-registration required)
1:00 PM to 5:00 PM
Excursion in the Forelands of the River Waal
(no additional fee, but pre-registration required)
7:30 PM to 10:00 PM
Invited Reception for Authors of Presentations and Posters

Monday, September 24
8:30 AM to 12:00 PM
Plenary Session

12:00 PM to 1:30 PM
Lunch (Provided)

1:30 PM to 6:00 PM
Concurrent Sessions

5:30 PM to 7:30 PM
Poster Session and Networking Mixer

Evening Free

Sunday, September 23
1:00 PM to 4:30 PM
Workshop
Invasive Bivalves: A refresher on biology, fouling potential and available control strategies

This workshop is aimed at first-time attendees of the conference who are dealing with recent invasions of zebra, quagga and golden mussels. The workshop will provide an overview of biology and physiology of these fouling organisms, what areas of industrial cooling systems are vulnerable to primary and secondary fouling, and will cover successful physical and chemical control strategies. One segment of the workshop will focus on appropriate design of chlorination systems.

The workshop will include concise presentations on the above topics and a lengthy question and discussion period after each presentation.

The workshop is intended to provide an overview of existing knowledge and experience so that those who are dealing with new bivalve infestations can aim any further research into areas that have not yet been explored.

Pre-registration is required for this workshop so please indicate on the registration form if you are planning to participate.
Monday, September 24 Morning

**Plenary Session**

8:30 AM
Welcome and Introductory Remarks
G.B. Raaphorst, Director, Nature Department, Ministry of Agriculture, Nature and Food Quality, The Netherlands

9:00 AM
The River Rhine: A Global Highway for Dispersal of Aquatic Invasive Species
Rob S.E.W. Leuven, Radboud University Nijmegen, Institute for Wetland and Water Research, The Netherlands

9:20 AM
The Baltic: A Melting Pot for Aquatic Invasive Species
Erkki Leppäkoski, Åbo Akademi University, Finland

9:40 AM
The European Union Water Framework Directive: Status and Initiatives
Phil Boon, Scottish Natural Heritage, UK

10:00 AM Break

10:30 AM
Invasion Biology Put into Mathematical Terms
Rob Hengeveld, Institute for Forestry and Nature Research, The Netherlands

10:50 AM
Moving Toward Common International Policies
Timothy K.E. Keeney, Deputy Assistant Secretary for Oceans and Atmosphere, US Department of Commerce, USA

11:10 AM
Where Does the Effort to Resolve the Worldwide Problem of Aquatic Invasive Species Stand as We Begin the 15th International Conference on Aquatic Invasive Species? I Believe We Can, We Must, Do Better
The Rt. Hon. Herb Gray, Chair, Canadian Section, International Joint Commission, Canada

11:30 AM
Questions and Discussion

12:00 Luncheon

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Monday, September 24 Afternoon

**Concurrent Session A**

Amphipods and Cladocera

1:30 PM
Detailed Assessment of the Population Dynamics of the Non-native Amphipod, Caprella mutica, in Marinas in Scotland (UK): Implications for Secondary Dispersal
Elizabeth J. Cook, Scottish Association for Marine Science, UK

1:50 PM
Impact of Colonization of the IJsselmeer Area by Chelicorophium curvispinum and Dikerogammarus villosus
Ruurd Noordhuis, Institute of Inland Water Management and Wastewater Treatment, The Netherlands

2:10 PM
Preferences of Ponto-Caspian and European Gammarids for Zebra Mussel Shell Habitat
Jarosław Kobak, Nicolaus Copernicus University, Poland

2:30 PM
Success of the Invasive Ponto-Caspian Amphipod Dikerogammarus villosus by Life History Traits and Reproductive Capacity
Manfred Pöckl, University of Vienna, Vienna Ecology Centre and State Government of Lower Austria, Austria

2:50 PM Break

**Concurrent Session B**

Risk Assessment and Monitoring

1:30 PM
Biological Invasions Via Inland Water Corridors: Developing a Risk Assessment Tool for European Inland Waterways
Vadim Panov, Zoological Institute of the Russian Academy of Sciences, Russia

1:50 PM
Predicting the Number of Ecologically Harmful Invaders in an Aquatic System
Anthony Ricciardi, McGill University, Redpath Museum, Canada

2:10 PM
Rapid Screening-Level Risk Assessment of Freshwater Fishes in Live Fish Trades in Canada
Becky Cudmore, Fisheries and Oceans Canada

2:30 PM
Risk Analysis for Non-indigenous Fish Species in Flanders (Belgium)
Hugo Verreycken, Research Institute for Nature and Forest, Belgium

2:50 PM Break

**Concurrent Session C**

Shipping: Policy

1:30 PM
US Coast Guard’s Programmatic Environmental Impact Statement in Support of the Ballast Water Discharge Standard Rulemaking
Bivan R. Patnaik, US Coast Guard, Environmental Standards Division, USA

1:50 PM
Canada’s National Regulatory Approach to Ballast Water Management
David Yard, Transport Canada Marine, Canada

2:10 PM
Joint Ballast Water Inspection Program for Ocean Going Vessels Entering the Great Lakes
Christopher J. Wiley, Fisheries and Oceans Canada, Central and Arctic Region and Transport Canada, Ontario Region, Canada

2:30 PM
The Canadian Ballast Water Database Application
Sonya C. Santavy, Transport Canada, Ontario Region, Canada

2:50 PM Break
**Concurrent Session A**

**Amphipods and Cladocera**

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<tr>
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<th>Title</th>
<th>Speaker</th>
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<tr>
<td>3:20 PM</td>
<td>Factors Influencing Predatory Behaviour in an Invasive Gammaridean Species, <em>Dikerogammarus villosus</em></td>
<td>Gerard van der Velde, Radboud University Nijmegen, The Netherlands</td>
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<tr>
<td>3:40 PM</td>
<td>Small-scale Heterogeneity in the Physico-chemical Environment Limits the Local Dominance of an Aquatic Invader</td>
<td>Asa Kestrup, McGill University, Redpath Museum, Canada</td>
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<tr>
<td>4:00 PM</td>
<td>Phylogeography of <em>Crangonyx pseudogracilis</em>: Modelling an Alien species’ progressive invasion of British waterways</td>
<td>Elise Michele Heinz, Middlesex University, Institute of Social and Health Research, UK</td>
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<tr>
<td>4:20 PM</td>
<td>Modelling the Migration and Ecological Impact by Alien Macroinvertebrates in Flanders: Case Study of Crustaceans in the Bocholt-Herentals Canal</td>
<td>Marjolein Messiaen, Ghent University, Laboratory of Environmental Toxicology and Aquatic Ecology, Belgium</td>
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<tr>
<td>4:40 PM</td>
<td>Established <em>Gammarus roeseli</em> Withstands Invasive <em>Dikerogammarus villosus</em> in Lake Constance: Experimental Evidence</td>
<td>John Hesselschwerdt, University of Konstanz, Limnological Institute, Germany</td>
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<tr>
<td>5:00 PM</td>
<td>Why are <em>Pontogammarus robustoides</em> and <em>Dikerogammarus haemobaphes</em> (crustacea, Amphipoda) such Successful Invaders?</td>
<td>Karolina Bacila, University of Lodz, Department of Invertebrate Zoology and Hydrobiology, Poland</td>
</tr>
<tr>
<td>5:20 PM</td>
<td>Ecological Patterns of Distribution in Alien Amphipods: A Case Study in Poland</td>
<td>Alicja Konopacka, University of Lodz, Department of Invertebrate Zoology and Hydrobiology, Poland</td>
</tr>
<tr>
<td>5:40 PM</td>
<td>Parasitism and Biological Invasion: How Manipulator Parasites Could Promote a Gammarid Species Replacement</td>
<td>Vincent Médoc, Université Paul Verlaine, Metz, France</td>
</tr>
<tr>
<td>6:00 PM</td>
<td>Controlling Non-indigenous Crustaceans: A Case Study for <em>Charybdis japonica</em> in New Zealand</td>
<td>Daniel McClary, Golder Associates (NZ) Ltd., New Zealand</td>
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**Concurrent Session B**

**Risk Assessment and Monitoring**

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<tr>
<td>3:20 PM</td>
<td>Assessment of Zebra Mussel (<em>Dreissena polymorpha</em>) Infestation Risk Using GIS for Water Basins in Northwest Bulgaria</td>
<td>Teodora Trichkova, Bulgarian Academy of Sciences, Institute of Zoology, Bulgaria</td>
</tr>
<tr>
<td>4:00 PM</td>
<td>European Water Framework Directive, Ecological Quality Indicators and Alien Species</td>
<td>Sergej Olenin, Klaipeda University, Coastal Research and Planning Institute, Lithuania</td>
</tr>
<tr>
<td>4:20 PM</td>
<td>A Dreissenid Rapid Response Plan for the Columbia River Basin, USA</td>
<td>Stephen H. Phillips, Pacific States Marine Fisheries Commission, USA</td>
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<tr>
<td>4:40 PM</td>
<td>Aquatic Exotic Invertebrates in Belarus: Past, Current, and Future Inversions</td>
<td>Alexander Y. Karatayev, Stephen F. Austin State University, Department of Biology, USA</td>
</tr>
<tr>
<td>5:00 PM</td>
<td>Rapid Assessment Surveys: Different Strokes for Different Folks</td>
<td>Dan Minchin, Marine Organism Investigations, Ireland</td>
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<tr>
<td>5:20 PM</td>
<td>Possible Introduction of Marine Species by Long Distance Drift: An Example with a Crustacean from USA to France</td>
<td>Pierre Y. Noël, Muséum national d’Histoire naturelle, France</td>
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**Concurrent Session C**

**Shipping: Policy**

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<tr>
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<th>Speaker</th>
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<tbody>
<tr>
<td>4:00 PM</td>
<td>Managing Ballast Water – A Multi-Disciplinary Challenge</td>
<td>Dandu Pughuc, Marine Biosafety Section, International Maritime Organization, UK</td>
</tr>
<tr>
<td>4:20 PM</td>
<td>A Journey Through Contemporary Australian Ballast Water Management</td>
<td>Rowan Ward, Australian Department of Agriculture, Fisheries and Forestry, Australia</td>
</tr>
<tr>
<td>4:40 PM</td>
<td>An Overview of Australia’s Proposed Biofouling Management Requirements</td>
<td>Peter Neimanis, Australian Quarantine and Inspection Service, Australia</td>
</tr>
<tr>
<td>5:00 PM</td>
<td>Ocean Shipping in North America’s Great Lakes: Invasive Species Costs vs. Transportation Cost Savings</td>
<td>John C. Taylor, Grand Valley State University, Seidman College of Business, USA</td>
</tr>
</tbody>
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Monday, September 24, 6:00 PM to 7:30 PM

Poster Session

Spatial and Temporal Distribution of Zebra Mussel (Dreissena polymorpha) Veliger Larvae in the Lower Ebro River (NE Spain)
Jorge Alcázar, University of Lleida, Department of Environmental and Soil Science, Spain

Some Approaches to Prediction of New Invasions in Aquatic Ecosystems
Boys Aleksandrov, National Academy of Sciences of Ukraine, Institute of Biology of Southern Seas, Ukraine

Successful Colonization of Palaemon elegans Rathke in the Gulf of Gdańsk – Diet and Reproduction
Anna Barariska, University of Gdansk, Institute of Oceanography, Poland

Recent Invasion of European Estuaries by the Asian Shrimp Palaemon macrodactylus
Rathbun, 1902: The Case of the Gironde Estuary
Mélanie Béguer, EDF/Cemagref, France

Limnornysis benedeni Czerniavsky (Crustacea, Mysidae) – A New Species in the Fauna of Croatia
Iriela Bogut, J.J. Strossmayer University, Department of Biology, Croatia

Non-indigenous Species and Plankton Dynamics of the Lower Columbia River Estuary
Stephen M. Bollens, Washington State University, USA

Evaluating the Biological Efficacy of NaCl Brine as a Ballast Water Treatment Technology for Transoceanic Vessels Entering the Great Lakes
Johanna Bradie, University of Windsor, Great Lakes Institute for Environmental Research, Canada

Gametogenesis and Population Dynamics of Alien Bivalves in Brazilian Wetland
Cláudia T. Callil, University of Mato Grosso, Biology and Zoology Department, Brazil

The Alteration of Lake Ecosystems by Invasive Alien Species. A Case Study on a Potential Keystone Species: Orconectes limosus
Ana Cristina Cardoso, European Commission, Joint Research Centre, Institute for Environment and Sustainability, Italy

INCOFISH: From Local Knowledge to Global Understanding of Sustainable Coastal Management Strategies
Christine Marie V. Casal, FishBase, WorldFish Center

An Analysis of the Diffusion of Selected Federal Policies Relating to the Coordination of Aquatic Invasive Species Management Efforts Among States Within the Chesapeake Bay Watershed, USA
John F. Christmas, Jr., George Mason University, Environmental Science and Policy Department, USA

Navigational Buoy Survey of Invasive and Native Benthic Invertebrates of the St. Lawrence River, Lake Ontario, and the Welland Canal
David Bruce Conn, Berry College, School of Mathematical and Natural Sciences, USA

Is the Diversity of Aquatic Invertebrates Affected by the Red Swamp Crayfish?
Alexandra M. Correia, Universidade de Lisboa, Portugal

Golden Mussel Abundance After Eight Years of Invasion in the Paraguay River, Brazil
Márcia Divina de Oliveira, Embrapa Pantanal, Brazil

The Invasion of Gammarus tigrinus Sexton, 1939 in the Gulf of Gdańsk (Southern Baltic) and its Adaptive Pattern of Osmoregulation
Alonda Dobryzcka-Krahel, University of Gdańsk, Department of Experimental Ecology of Marine Organisms, Poland

Balanus improvisus (Darwin 1854) in the Gulf of Gdańsk (Poland) – An Important Component of Macrobenthic Community
Anna Dzubiłska, University of Gdańsk, Department of Experimental Ecology of Marine Organisms, Poland

The Impact of the Invasive Ponto-Caspian Hydroid, Cordylophora caspia, on Benthic Macroinvertebrate Communities in Southern Lake Michigan: Effects on Fish Prey Availability
Nadine Folino-Rorem, Wheaton College, Biology Department, USA

Inventory and Mapping of Aquatic Invasive Plants in Kenya
Patrick Gang, Department of Resource Surveys and Remote Sensing, Kenya

The Introduced Clam Ensis americanus: Ecological Aspects and Genetic Diversity as Revealed by Nuclear and Mitochondrial Genes
Ana González-Tizón, Universidade da Coruña, Department of Cell and Molecular Biology, Spain

Habitat Preference of Alien vs. Native Gammarid Species in a Lowland Lake, Poland
Michał Grabowski, University of Lodz, Department of Invertebrate Zoology and Hydrobiology, Poland

High Phytoplankton Densities Reduces Feeding Rate of Ctenophores
Jamilah Javidpour, Leibniz Institute of Marine Science, Germany

Global Advances in the Ecology and Management of Golden Apple Snails
Ravendra C. Joshi, Philippine Rice Research Institute, Philippines

Distribution and Hatching Success of Resting Eggs of Cercopagis pengoi in the Gulf of Finland
Tarja Katajisto, Leena Karjala and Maiju Lehtiniemi, Finnish Institute of Marine Research

Selective Behaviour of Procambarus clarkii in the Channel Under Different Light Conditions
Pavel Kozák, University of South Bohemia in České Budějovice, Czech Republic

Impacts of Introduced Fish on the Feeding Habits of the Ichthyofauna in a Caribbean Estuary
Jenny Leal-Hárez, Center for Marine Tropical Ecology, Germany

Canada’s Centre of Expertise for Aquatic Risk Assessment
Nicholas E. Mandrak, Fisheries and Oceans Canada, Centre of Expertise for Aquatic Risk Assessment, Canada

Eliminating Bacteria in Ballast Water by a Compact System of Ultraviolet Radiation
Lucía F. Martínez, University of Oviedo, Spain

Too Hot to Handle: Evaluation of Steam Sterilization as an Aquatic Biosecurity Response Tool
Daniel McClary, Golder Associates (NZ) Ltd., New Zealand

Shipwreck Ahoy! Incursion Response to the Semi-Submerged Wreck of a Fishing Vessel from Southeast Asia in New Zealand Waters
Daniel McClary, Golder Associates (NZ) Ltd., New Zealand

Reproductive Periodicity of the Invasive Tunicate Styela clava in Auckland, New Zealand
Daniel McClary, Golder Associates (NZ) Ltd., New Zealand

Distribution and Expansion of Two Ornamental Aquatic Plants in an Irish Lake
Dan Minchin, Marine Organism Investigations, Ireland

Microparasites of Alien and Native Gammarids (Crustacea, Amphipoda) in Poland with First Record of Hyperparasitic Infection in the Invasive Amphipod Pontogammarus robustoides
Mykola Ovcharenko, W. Stefanski Institute of Parasitology, Polish Academy of Sciences, Poland

Impact of the Planktonic Larvae of the Invasive Asian Bivalve Limnopena fortunei on the Growth of Larvae of the “Sábaló”, Prochilodus lineatus (Pisces) in South America
Esteban Marcelo Paolucci, Museo Argentino de Ciencias Naturales “Bernardino Rivadavia”

The New European On-line Journal “Aquatic Invasions” as an Effective Early Warning Tool
Vadim Panov, Zoological Institute of the Russian Academy of Sciences, Russia

Free Choice Learning Initiatives to Mobilize Community Action Against Aquatic Invasions
Alan Power, University of Georgia, Marine Extension Service, USA
Developing a Policy on Invasive Aquatic Plants at the Canadian Food Inspection Agency
Élizabeth Powles, Canadian Food Inspection Agency, Canada

Learning Time Versus Prey Capture: How Does Learning Time Affect Successful Prey Capture by Large Mouth Black Bass?
Ricardo O. Ramalho, University of Évora, Institute of Marine Research, Portugal

Integrating Economics into Invasive Aquatic Plants (IAP) Management in Sri Lanka: Alien Aquatic Plants, is this an Economic Problem?
Leel Randeni, Ministry of Environment, Promotion and Environmental Education Division, Sri Lanka

Control of Golden Mussel by Ozonation of Cooling Water in Power Plants
Matthias Rothe, ProMinent ProMaqua GmbH, Germany

Eradication of Common Carp (Cyprinus carpio) with Rotenone in Laguna De Zonar, Spain
Sigmund Sevatdal, Centre for Veterinary Contract Research and Comercial Services Ltd. (VESO), Norway

Modeling Habitat Capability for Invasive Species Using the ShoreZone Mapping System
Linda Shaw, National Marine Fisheries Service, Alaska Region, USA

The Global Invasive Species Information Network
Annie Simpson, US Geological Survey, National Biological Information Infrastructure, USA

Orconectes virilis: a North American Crayfish
Menno Soes, Bureau Waardenburg bv, The Netherlands

Distribution of American Crayfish Orconectes limosus (Raf., 1817) in European Waters
Anna Szaniawska, University of Gdańsk, Institute of Oceanography, Poland

Bactericidal Effects of Lime Stabilization and Recarbonation to Bacterial Fish Pathogens and Aquatic-Environmental Bacteria
Barnaby J. Watten, US Geological Survey, Leetown Science Center, USA

Toxicity of CO² to New Zealand Mudsnails (Potamopyrgus antipodarum): Implications for Control
Barnaby J. Watten, US Geological Survey, Leetown Science Center, USA

The Baltic Sea Alien Species Database: Ten Years Online
Anastasija Zaiko, Klaipeda University, Coastal Research and Planning Institute, Lithuania
**Tuesday, September 25 Morning**

**Concurrent Session A**

**Marine Invasions**

8:30 AM  
**Byssogenesis of Invasive Marine Mussels *Perna viridis* and *Perna perna*: Implications for Their Invasion Race**  
Sanjeevi Rajagopal, Radboud University Nijmegen, Institute for Water and Wetland Research, The Netherlands

8:50 AM  
**The Ecological Role of the Invading Species *Cercopagis pengoi* (Crustacea, Cladocera) in the Gulf of Finland and in the Baltic Proper**  
Larisa F. Litvinchuk, Zoological Institute of the Russian Academy of Sciences, Russia

9:10 AM  
**Natural Currents: A Pathway for the Spread of Marine NIS in Tasman and Golden Bays, New Zealand**  
Hernando Acosta, Auckland University of Technology, Earth and Oceanic Research Centre, New Zealand

9:30 AM  
**Changes in Macrozoobenthos of the Eastern Gulf of Finland After Introduction of Alien Annelids**  
Alexey A. Maximov, Zoological Institute of the Russian Academy of Sciences, Russia

9:50 AM  
**Break**

**Invasive Crayfish**

10:20 AM  
**Aquatic Invasive Invertebrates in the United States: Rusty Crayfish as a Case Study**  
Angela M. Bobeldyk, University of Notre Dame, Department of Biological Sciences, USA

10:40 AM  
Ricardo O. Ramalho, University of Évora, Institute of Marine Research, Portugal

11:00 AM  
**Reproduction and Growth of *Orconectes limosus* Raf. in Baltic Brackish Waters – Is it Possible?**  
Joanna Jaszczot, University of Gdańsk, Institute of Oceanography, Poland

11:20 AM  
**The Effect of Water Temperature on Number of Moults and Growth for Invasive Crayfish *Procambarus clarkii D.* During the First Three Months of their Life**  
Pavel Kozák, University of South Bohemia in České Budějovice, Czech Republic

11:40 AM  
**Evaluating Recruitment Dynamics of the Chinese Mitten Crab, *Eriocheir sinensis*: Methods for Early Detection, Monitoring and Determining Year Class Strength**  
Carolynn S. Culver, University of California Cooperative Extension Program and Marine Science Institute, University of California Santa Barbara, USA

12:00 PM  
**Luncheon**

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**Concurrent Session B**

**Population Genetics and Invasion**

8:30 AM  
**Appraisal of Molecular Detection Methodologies for Identifying and Enumerating Aquatic Pests**  
Kirsty Smith, Cawthron Institute, New Zealand

8:50 AM  
**Phylogeny and Population Genetics of Invasive Asiatic Clams (*Corbicula spp.*) in the Meuse**  
Lise-Marie Pigneur, Facultés Universitaires Notre-Dame de la Paix, Unité de Recherche en Biologie des Organismes, Belgium

9:10 AM  
**Identifying the Origin of the Cryptogenic Ascidian *Molgula manhattensis* (De Kay, 1843)**  
Deniz Haydar, University of Groningen, Centre for Ecological and Evolutionary Studies, The Netherlands

9:30 AM  
**Genetic Structure of an Invasive Species *Dreissena polymorpha* in Ebro River, Spain: Results of PCR Based AFLP-Fingerprinting**  
Sanjeevi Rajagopal, Radboud University Nijmegen, Institute for Water and Wetland Research, The Netherlands

9:50 AM  
**Break**

**Tracking Aliens**

10:20 AM  
**Aquatic Invaders in the European Alien Species Database**  
Sergej Olenin, Klaipeda University, Coastal Research and Planning Institute, Lithuania

10:40 AM  
**The Most Invasive and Impacting Introduced Aquatic Species in Europe**  
Stephan Gollasch, GoConsult, Germany

11:00 AM  
**Alien Species in European Seas: Regions at Risk**  
Bella S. Gaill, National Institute of Oceanography, Israel Oceanographic and Limnological Research, Israel

11:20 AM  
**Online Database “Aquatic Invaders of Belarus”: Goals and Structure**  
Sergey E. Mastitsky, Belarusian State University, Institute of Marine Biology, Belarus

11:40 AM  
**Harmonia, an Information System Dedicated to Non-native Invasive Species in Belgium**  
Etienne Branquart, Belgian Biodiversity Platform/Research Centre for Nature, Forest and Wood, Belgium

12:00 PM  
**Luncheon**

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**Concurrent Session C**

**Shipping: Research**

8:30 AM  
**A Computational and Experimental Approach to Prediction of the Effectiveness of Flow-through Ballast Water Exchange**  
Peter A. Chang, Naval Surface Warfare Center, Carderock Division, USA

8:50 AM  
**Biological Effectiveness of Open-ocean Ballast Exchange for Preventing Invertebrate Invasions Between Freshwater Ports**  
David F. Reid, National Oceanic and Atmospheric Administration, USA

9:10 AM  
**Estimating Probability of Establishment for Parthenogenetic Taxa with Small Founding Populations: An Assessment of the Proposed IMO Ballast Water Treatment Standards**  
Sarah Bailey, Fisheries & Oceans Canada, Great Lakes Laboratory for Fisheries & Aquatic Sciences, Canada

9:30 AM  
**Assessing the Importance of Biological Uncertainty in the Management of Species Introductions Via Ballast Water**  
Joana F. Tavares, University of Belo Horizonte, College of Marine Studies, USA

9:50 AM  
**Break**

10:20 PM  
**Results and Lessons Learned from the ETV Beta Test**  
Jonathan F. Grant, Naval Research Laboratory, USA

10:40 AM  
**Automated Methods for Planktonic Enumeration and Viability Analysis**  
Bruce N. Nelson, Naval Research Laboratory, USA

11:00 AM  
**Counting Viable Phytoplankton and Bacteria in Ballast Water**  
Marcel J. W Veldhuis, Royal Netherlands Institute for Sea Research, The Netherlands

11:20 AM  
**Using a Continuous Imaging Particle Analyzer (FlowCAM®) as an Integrated System for Ballast Water Analysis and Regulatory Compliance**  
Kent A. Peterson, Fluid Imaging Technologies, USA

11:40 AM  
**Microzooplankton Response to Variable UV Treatment in Ballast Water Mesocosms**  
Gretchen Rollwagen-Bollens, Washington State University, School of Earth & Environmental Sciences & School of Biological Sciences, USA

12:00 PM  
**Luncheon**
Tuesday, September 25 Afternoon

Concurrent Session A

Dreissenology

1:30 PM
From Lakes to Rivers – the Downstream Larval Distribution of Dreissena in Irish River Basins
Frances E. Lucy, Institute of Technology, Sligo, School of Science, Ireland

1:50 PM
Dreissena polymorpha (Zebra Mussels) Versus Dreissena rostriformis bugensis (Quagga Mussels): A Review of Their Different Invasion Dynamics
Daniel P. Molloy, New York State Museum, Division of Research and Collections, USA

2:10 PM
The Invasive Zebra Mussel Dreissena polymorpha as a Habitat Engineer in a Boreal Coastal Lagoon
Anastasija Zaiko, Klaipeda University, Coastal Research and Planning Institute, Lithuania

2:30 PM
The Zebra Mussel Shells as a Substrate for Periphyton
Sergey E. Mastitsky, Belarusian State University, Belarus

2:50 PM Break

3:20 PM
Physiological and Ecological Traits in Invasive Zebra Mussel and Local Unionids
Marina Orlova, Zoological Institute, Russian Academy of Sciences, Russia

3:40 PM
Impact of the Zebra Mussel Dreissena polymorpha on the Ecological Integrity of Lough Sheelin
Michael Millane, University College Dublin, School of Biology and Environmental Science, Ireland

4:00 PM
Daniel P. Molloy, New York State Museum, Division of Research and Collections, USA

4:20 PM
Assessment of Waterborne Parasites in Irish River Basin Districts – Use of Zebra Mussels (Dreissena polymorpha) as Bioindicators
Thaddeus K. Graczyk, Johns Hopkins Bloomberg School of Public Health, USA

4:40 PM
Recent Invasion of the Zebra Mussel: The Spanish Experience
Concha Durán Lalaguna, Ministerio de Medio Ambiente, Confederación Hidrográfica de Ebro, Spain

5:00 PM
Does the Biofouling by Dreissena polymorpha in Waterways Impact Rhodes sericeus Reproductive Success? A Potential Competitive Interaction Between Two Common Aquatic Invaders in Europe
Philine zu Ermgassen, University of Cambridge, Department of Zoology, UK

Concurrent Session B

Education and Outreach: The Information Highway

1:30 PM
Evaluating the Stop Aquatic Hitchhikers! Campaign to Prevent the Spread of Aquatic Invasive Species by Recreational Boaters in Three States
Douglas A. Jensen, University of Minnesota Sea Grant Program, USA

1:50 PM
Hydrolina: From Rapid Response Planning to Reality
Carol Swinehart, Michigan Sea Grant, Michigan State University, USA

2:10 PM
Alaska Green Crab Monitoring Project
Dan Gilson, Prince William Sound Regional Citizens’ Advisory Council, USA

2:30 PM
Of Gods and Government: What Can Cherax quadricarinatus in Black River, Jamaica Teach Us About Invasive Species Communication and Management?
Wei Ying Wong, Brown University, Center for Environmental Studies, USA

2:50 PM Break

3:20 PM
NSIbase and GISIN: Building a Pilot System to Cross Search Invasive Species Online Databases
Pam Fuller, US Geological Survey, Florida Integrated Science Center

3:40 PM
Invaders of the United States National Parks: Using Film as an Education Tool to Conserve Resources
Linda Drees, National Park Service, Natural Resource Program Center, USA

3:20 PM Break

4:20 PM
How to Gift-Wrap a Frigate: Hull Encapsulation of Gods and Government: What Can Cherax quadricarinatus in Black River, Jamaica Teach Us About Invasive Species Communication and Management?
Wei Ying Wong, Brown University, Center for Environmental Studies, USA

Concurrent Session C

Shipping: Technology

1:30 PM
Understanding the Realities of a Private Sector Technology Provider in the Ballast Water Treatment (BWT) Market
Mike Hasson, Echochor Inc., USA

1:50 PM
Treatment of Ballast Water with Chlorine Dioxide to Control Invasive Species Under Actual Shipping Conditions
Lucie Maranda, University of Rhode Island, Graduate School of Oceanography, USA

2:10 PM
Shipboard Testing of Seakleen® as a Ballast Water Treatment to Eliminate Non-indigenous Species Aboard a Working Tanker in Pacific Waters
David A. Wright, University of Maryland Center for Environmental Science, USA

2:30 PM
Barnaby J. Watten, US Geological Survey, Leetown Science Center, USA

2:50 PM Break

3:30 PM
How to Make Your Link: From Information to Action
Douglas A. Jensen, University of Minnesota Sea Grant, USA

3:50 PM
Concerto for Invasive Species: Cross Search Invasive Species Online Databases
Pam Fuller, US Geological Survey, Florida Integrated Science Center

4:10 PM
How to Use an Invasive Species Database to Identify a New Invasive Species: A Case Study of the American Zebra Mussel
Douglas A. Jensen, University of Minnesota Sea Grant, USA

4:30 PM
Evaluating the Information Highway: Technology Provider in the Ballast Water Treatment to Eliminate Non-indigenous Species Aboard a Working Tanker in Pacific Waters
David A. Wright, University of Maryland Center for Environmental Science, USA

4:50 PM
Barnaby J. Watten, US Geological Survey, Leetown Science Center, USA

5:10 PM
Break

5:30 PM
Inventorying Invasive Species by Recreational Boaters in Three Coastal Lee Hudson, University of Rhode Island, Graduate School of Oceanography, USA

5:50 PM
Invaders of the United States National Parks: Using Film as an Education Tool to Conserve Resources
Linda Drees, National Park Service, Natural Resource Program Center, USA

6:10 PM
How to Gift-Wrap a Frigate: Hull Encapsulation Of Gods and Government: What Can Cherax quadricarinatus in Black River, Jamaica Teach Us About Invasive Species Communication and Management?
Wei Ying Wong, Brown University, Center for Environmental Studies, USA
Concurrent Session A

Invasive Plants: Macrophytes on the Move

8:00 AM
Chokeberry (Aronia spec.), an Invasive Species in the Marshlands of The Netherlands?
Wil L.M. Tamis, Leiden University Institute of Environmental Sciences, The Netherlands

8:50 AM
Understanding Eurasian Watermilfoil: Nutrients, Growth and Invasion
Mark W. Swinton, Darrin Fresh Water Institute and Rensselaer Polytechnic Institute, Department of Biology, USA

9:00 AM
Lessons from Four Freshwater Invasive Plants in New Zealand
John Clayton, National Institute of Water and Atmospheric Research, New Zealand

9:30 AM
The Quantitative Abundance of Lagarosiphon major in Lough Corrib Ireland
Liam Gavin, Western Regional Fisheries Board, Ireland

9:50 AM Break

10:20 AM
Lagarosiphon major in Irish Watercourses – Awareness and Control
Joseph M. Caffrey, Central Fisheries Board, Swords Business Campus, Ireland

10:40 AM
The Invasion of the Water Hycinth (Eichhornia crassipes) in SW Europe
Trinidad Ruiz Téllez, University of Extremadura, Faculty of Sciences, Spain

11:00 AM
Leel Randeni, Ministry of Environment, Promotion and Environmental Education Division, Sri Lanka

11:20 AM
Physiological Age-Grading Techniques to Assess Reproductive Status of Insect Biocontrol Agents of Aquatic Plants
Jennifer Lenz, US Army Engineer Research and Development Center, Germany

11:40 AM
An Ecological Approach to Aquatic Plant Management
R. Michael Smart, US Army Engineer Research and Development Center, USA

12:00 PM Luncheon

Concurrent Session B

Invasion Impacts

8:30 AM
Predicting Lake Vulnerability to Species Invasion Using a Hierarchical Approach
Hugh MacIsaac, University of Windsor, Great Lakes Institute for Environmental Research, Canada

8:50 AM
Phenology and Population Dynamics of the Invasive Ctenophore Mnemiopsis leidyi in Recipient Areas of the Eurasian Seas - Changes Linked with Environmental Variability and Climate Forcing
Tamara Shiganova, P.P. Shirshov Institute of Oceanology, Russian Academy of Sciences, Russia

9:10 AM
Invading Ecosystem Engineer Dramatically Alters Benthic Communities In and Out of Marine Reserves
Dianna K. Padilla, Stony Brook University, Department of Ecology and Evolution, USA

9:30 AM
The Economic Impact of Aquatic Nuisance Species
Alfred F. Cofrancesco, Jr., US Army Engineer Research and Development Center, USA

9:50 AM Break

10:20 AM
Introduced Marine Crustacea Decapoda and Stomatopoda in Syria: An Overview and Recent Data
Hassan Hasan, Muséum national d’Histoire naturelle, France

10:40 AM
Non-indigenous Species Invading Italian Inland Waters: Distribution, Case Studies and Threats
Francesca Gherardi, Università di Firenze, Dipartimento di Biologia Animale e Genetica, Italy

11:00 AM
Environmental Modulation of the Reproductive Activity of the Invasive Mussel Limpnoperna fortunei in South America
Francisco Sylvester, Universidad de Buenos Aires, Argentina

11:20 AM
Effects of Nile Perch on the Ecology of the Spot-Necked Otter and Competition with Fishermen in Lake Victoria, Kenya
Mordecai Ogada, National Museums of Kenya, Department of Ichthyology, Kenya

11:40 AM
Invasion of the Asian Clam Corbicula fluminea in Lake Constance
Stefan Werner, University of Konstanz, Limnological Institute, Germany

12:00 PM Luncheon

Concurrent Session C

Biofouling: Keeping Aliens in Check

8:30 AM
Successful Control of Zebra Mussels in a Fouled Waterworks Using Microencapsulated BioBullets
David C. Aldridge, University of Cambridge, Department of Zoology, UK

8:50 AM
Update on Pseudomonas fluorescens Strain CL145A as a Zebra Mussel Control Agent
Daniel P. Molloy, New York State Museum, Division of Research and Collections, USA

9:10 AM
The Use of Ozone to Control Zebra Mussels, Ontario Power Generation, Lennox Generating Station
Terry Brady, Ontario Power Generation, Canada

9:30 AM
Control of Golden Mussel by Ozonation of Cooling Water in Power Plants
Matthias Rothe, ProMinent ProMaqua GmbH, Germany

10:40 AM
Proactive Approach to Zebra Mussel Treatment at a Spanish Nuclear Power Plant: A Case Study
Miguel Angel Cortes Cabanero, Santa Maria de Garona Nuclear Plant, Spain

11:00 AM
On-site Evaluation of Fouling Release Coatings for the Protection of Cooling Circuits Against Macro-organisms
Lieve Verelst, Laborelec, Belgium

11:20 AM
Zebra Mussels in Russia: Past, Present and Towards its Control in Service Water Systems
Marina I. Orlova, Zoological Institute of the Russian Academy of Sciences, Russia

11:40 AM
An Electric Barrier to Prevent Aquatic Invasive Species Dispersal in a Commercial Navigation Canal
Philip B. May, University of Wisconsin Sea Grant, USA

12:00 PM Luncheon
**Concurrent Session A**

**Fish and Gobies**

1:30 PM  
Non-native Armored Catfishes in Florida: Description of Nest Burrows and Burrow Colonies with Preliminary Assessment of Shoreline Impacts  
Leo G. Nico, US Geological Survey – Florida Integrated Science Center, USA

1:50 PM  
Do Introduced Pumpkinseed Sunfish Have an Impact on Native Species in European Streams?  
Gordon H. Copp, CEFAS, Salmon and Freshwater Team, UK

2:10 PM  
Aspects of Successful Invasion of English Inland Waters by Introduced Topmouth Gudgeon, Pseudorasbora parva  
Kathleen Beyer, Centre for Ecology and Hydrology, Dorset, Natural Environment Research Council, UK

2:30 PM  
Distribution of Racer Goby *Neogobius gymnotrachelus* Along the Cross Section of a Dam Reservoir on the Lower Vistula River (Central Poland)  
Tomasz Kakareko, Nicolaus Copernicus University, Poland

2:50 PM  
Break

3:20 PM  
Modification in the Reproduction Strategy – Reason for the Round Goby (*Neogobius melanostomus*) Invasion Success in the Gulf of Gdansk?  
Mariusz R. Sapota, University of Gdansk, Institute of Oceanography, Poland

3:40 PM  
Alien Fish Species in Southeast Asia: Pathways, Biological Characteristics, Establishment and Invasiveness  
Christine Marie V. Casal, FishBase Project, WorldFish Center, Philippines

4:00 PM  
Invasive Fishes and their Effects on the Native Fish Fauna of the Upper Rio Grande Basin, USA  
Bob Calamusso, Tonto National Forest, USA

**Concurrent Session B**

**Invasion Impacts**

1:30 PM  
Predicting the Impacts of Introduced Mussels on Aquatic Communities  
Jessica M. Ward, McGill University, Redpath Museum, Canada

1:50 PM  
Drastic Change of Peracaridan Assemblage in Lake Dusia, Lithuania, After the Introduction of Ponto-Caspian Aliens  
Kestutis Arbacauskas, Vilnius University, Institute of Ecology, Lithuania

2:10 PM  
Invaders Are Not a Random Selection of Species  
Alexander Y. Karatayev, Stephen F. Austin State University, Department of Biology, USA

2:30 PM  
Invasibility of Small Lakes and Impact on a Non-indigenous Plant  
Helena Berglund, Lund University, Department of Ecology, Sweden

2:50 PM  
Break

3:20 PM  
Policy  

3:40 PM  
Beyond the Lacey Act: Improving the Enforcement of Aquatic Invasive Species Regulations  
Jill Finster, Great Lakes Fishery Commission, USA

4:00 PM  
Assessment of Sea Lamprey (*Petromyzon marinus*) Populations in the Laurentian Great Lakes Basin  
Todd B. Steeves, Fisheries and Oceans Canada, Sea Lamprey Control Centre, Canada

4:20 PM  
Fighting the Sea Lamprey in the Great Lakes: 50 years of AIS Management  
W. Paul Sullivan, Fisheries and Oceans Canada, Sea Lamprey Control Centre, Canada

**Concurrent Session C**

**Biofouling: Keeping Aliens in Check**

1:30 PM  
A Study of an Unidentified Energy Field to Determine its Potential Value in Excluding Fish from Water-Intakes, Ship Canals, etc.  
A. Garry Smythe, Shaw Environmental Inc., USA

1:50 PM  
Use of Rotenone to Eradicate the Round Goby (*Neogobius melanostomus*) in Pefferlaw Brook  
Brian E. Stephens, Fisheries and Oceans Canada, Central and Arctic Region, Canada

2:10 PM  
Potential Economic Impacts of Zebra Mussels on the Hydropower Facilities in the Columbia River Basin  
Stephen Phillips, Pacific States Marine Fisheries Commission, USA

2:30 PM  
Technology, Psychology and Bullfrog Eradication  
Stan A. Orchard, BullfrogControl.com Inc., Canada

2:50 PM  
Break

3:20 PM  
Distribution, Density, and Population Dynamics of Invasive Applesnail *Pomacea insularum* in Southeast Texas  
Lyubov E. Burlakova, Stephen F. Austin State University, Department of Biology, USA

3:40 PM  
Biological Control of Invasive Aquatic Weed *Eichhornia crassipes* in Tamiraparani River Basin (India)  
R. Ramanibai, University of Madras, Department of Zoology, India

4:00 PM  
Prevention of Dispersion Strategy of Golden Mussel in Central Part of South America  
Cláudia T. Calii, University of Mato Grosso, Biology and Zoology Department, Brazil

4:20 PM  
Golden Apple Snail: Global Invasion and Management  
Ravindra C. Joshi, Philippine Rice Research Institute, Philippines
Registration Form

Please complete this form, enclose payment in full by check in $USD funds, payable to ICAIS, and mail to: Conference Administrator 1027 Pembroke Street East, Suite 200 Pembroke ON K8A 3M4 Canada

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If you are paying by electronic bank wire transfer, there is an additional service charge of USD$30.00, please add that to the applicable fee.

Registration fees include participation in all sessions, registration materials, luncheons each day and a networking reception.

Late Registration
(May 19, 2007 or later) .......................................................... $USD
Speaker/Poster Presenter/Session Chair .................................. $450
Conference Participant ......................................................... $550
Full-time Student ................................................................. $350

Total $

Workshops and Technical Tours

☐ I plan to participate in the Workshop on Invasive Bivalves: Soup to Nuts
☐ I plan to participate in the Technical Tour of the River Rhine (additional cost)
☐ I plan to participate in the Technical Tour of the Port of Rotterdam (additional cost)

Refund Policy
Registration fees are refundable, less a $50 administration fee, provided that written notification of cancellation is provided to the Conference Administrator at the address indicated above by August 12, 2007. Refunds will not be issued until after the conference.