18th International Conference on Aquatic Invasive Species

April 21 to 25, 2013
Sheraton-on-the-Falls Hotel
Niagara Falls, Ontario, Canada
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, become established and cause significant damage to coastal and freshwater ecosystems, and to the economies that depend upon them. Next to habitat loss, invasive species are considered the greatest threat to native biodiversity.

The Invasive Species Centre is hosting the 18th International Conference on Aquatic Invasive Species that will be held in Niagara Falls, Ontario, Canada, April 21-25, 2013.

This conference series is widely considered the most comprehensive international forum on aquatic invasive species and continues to evolve to address new and emerging issues.

Sessions and presentations include the review of accumulated scientific knowledge; presentation of the latest field research; introduction of new technological developments for prevention, monitoring and control; discussion of policy and legislation; and mechanisms to raise awareness with the general public through education and outreach initiatives.

In recent years the conference has typically involved over 300 participants from over 30 countries, representing academia, industry, government agencies, NGOs and other stakeholders involved in the issues. Many are seeking opportunities for international cooperation and collaboration to address AIS issues from a global perspective.

Conference Chair
Robert G. Lambe
Executive Director, Canada-Ontario Invasive Species Centre

Technical Program Committee
Sarah Bailey, Fisheries and Oceans Canada
Margaret (Peg) Brady, National Oceanic and Atmospheric Administration
Jeff Brinsmead, Ontario Ministry of Natural Resources
Renata Claudi, RNT Consulting Inc.
Becky Cudmore, Fisheries and Oceans Canada
Alfred F. Cofrancesco, Jr., US Army Engineer Research & Development Center
Richard Everett, US Coast Guard
Cherie-Lee Fietsch, Bruce Power
Marc Gaden, Great Lakes Fishery Commission
Lyn Gettys, University of Florida, Fort Lauderdale Research and Education Center
Sharon Gross, US Geological Survey
Nick Heisler, International Joint Commission, Canada Section
Alexander Karatayev, Buffalo State College
Rob Leuven, Radboud University Nijmegen
Frances Lucy, Institute of Technology, Sligo, School of Science
Sophie Monfette, Ontario Federation of Anglers and Hunters
Don MacLean, US Fish & Wildlife Service
Linda Nelson, US Army Engineer Research & Development Center
Stephen Phillips, Pacific States Marine Fisheries Commission
Scott Poulton, Ontario Power Generation
Sanjeevi (Raju) Rajagopal, Radboud University Nijmegen
David F. Reid, Consultant
Tony Van Oostrom, Ontario Power Generation
Christopher J. Wiley, Transport Canada Marine Safety

Conference Administrator
Elizabeth Muckle-Jeffs
The Professional Edge
On behalf of the Board of Directors of the Canada-Ontario Invasive Species Centre (ISC), I am honored to host the 18th International Conference on Aquatic Invasive Species (ICAIS) in Niagara Falls, Ontario, Canada. ICAIS is renowned as a forum at which the most current international research is shared and participants are given opportunities to engage in exchanges which shape public policy and best management practices around the world.

Thanks to outstanding efforts by our partners in this conference, we have a remarkable line-up of speakers whose presentations will stimulate rich discussion among scientists, managers and policy makers engaged in addressing one of the most significant ecological and socio-economic threats of our time – alien invasive species.

The ISC was established in 2011 to enhance coordination of natural and socio-economic scientific research, technology and knowledge transfer, and public outreach and communications to mitigate the ecological and economic threats of aquatic and terrestrial invasive species. To fulfill its mandate, the ISC must establish and nurture partnerships with all levels of government, academia, First Nations, industry and non-government organizations.

ICAIS is an excellent example of this partnership in action locally, nationally and internationally. I look forward to your participation and contribution towards what I know will be a wonderful conference.

I am especially encouraged to have seen such keen interest from student participants. As people travel more both domestically and internationally, and as economies become more intertwined globally, so too will the threats of invasive species remain a growing concern. It is comforting to know that we have an emerging generation of new leaders engaged in academic studies and embracing knowledge transfer from highly-regarded experts. You are one of the reasons why we have such optimism for the future despite the challenges that lie ahead.

Finally, I thank our growing list of partners for their contributions in making the 18th ICAIS a reality. They are to be commended for their support of this important conference. I also thank members of the Technical Program Committee for their leadership and tireless efforts in reviewing over 220 abstracts and for organizing them into a cohesive conference program.

I look forward to meeting you at the conference next April.

Sincerely,

Bob Lambe

Robert G. Lambe
Executive Director
Conference Partnering Organizations

Air Travel
Niagara Falls is easily accessible from both the Buffalo International Airport in Buffalo, New York and Pearson International Airport in Toronto, Ontario. See the ICAIS website for additional travel information.

Niagara Airbus provides regular daily shuttle service from both airports directly to the hotel. Details are on the ICAIS website.

Hotel Accommodation
The Sheraton-on-the-Falls is the official Conference hotel and is offering Conference participants the rate of CAD$149.00 (plus applicable taxes) for Cityview rooms single/double occupancy and CAD$169.00 (plus applicable taxes) for Fallsview rooms, single/double occupancy.

Guest room rates include a reduced rate for round-trip transportation with Niagara Air Bus from either the Buffalo or Toronto airports. Details are on the ICAIS website.

Student Accommodation
Special arrangements have been made for low-cost student accommodation at the Skyline Inn, a sister property of the Sheraton-on-the-Falls. Students should contact the Conference Administrator for details.

Conference Registration
Please complete the form at the back of this brochure, or on-line through the Conference Web site, and send payment by cheque or money order in $CAD payable to ICAIS.

Send payment to:
Elizabeth Muckle-Jefts
Conference Administrator
1027 Pembroke Street East, Suite 200
Pembroke ON K8A 3M4 Canada
T: North America: 1-800-868-8776
T: International: (01) 613-732-7068
F: (01) 613-732-3386
E: elizabeth@theprofessionaledge.com
W: www.icais.org

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 $CAD, 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 by March 16, 2013.

Refunds will not be issued until after the conference.
### Conference at a Glance

#### Sunday, April 21, 2013

- 12:00 PM to 6:00 PM
  - Conference Registration and A/V Check-in

#### Monday, April 22, 2013

- 7:00 AM to 6:00 PM
  - Conference Registration and A/V Check-in
- 7:30 am
  - Continental Breakfast (provided)
- 8:30 AM
  - Opening Plenary Session
- 9:30 AM
  - Networking Break
- 10:00 AM to 12:00 PM
  - Concurrent Sessions
- 12:00 PM to 1:30 PM
  - Luncheon (provided)
- 1:30 PM to 3:10 PM
  - Concurrent Sessions
- 3:10 PM to 3:40 PM
  - Networking Break
- 3:40 PM to 6:00 PM
  - Concurrent Sessions
- 6:00 PM to 7:30 PM
  - Poster Session and Exhibitor Reception

#### Tuesday, April 23, 2013

- 7:00 AM to 6:00 PM
  - Conference Registration and A/V Check-in
- 7:30 am
  - Continental Breakfast (provided)
- 8:30 AM
  - Opening Plenary Session
- 9:30 AM
  - Networking Break
- 10:00 AM to 12:00 PM
  - Concurrent Sessions
- 12:00 PM to 1:30 PM
  - Luncheon (provided)
- 1:30 PM to 3:10 PM
  - Concurrent Sessions
- 3:10 PM to 3:40 PM
  - Networking Break
- 3:40 PM to 6:00 PM
  - Concurrent Sessions

#### Wednesday, April 24, 2013

- 7:00 AM to 6:00 PM
  - Conference Registration and A/V Check-in
- 7:30 am
  - Continental Breakfast (provided)
- 8:45 AM
  - Plenary Session
- 9:30 AM
  - Networking Break
- 10:00 AM to 12:00 PM
  - Concurrent Sessions
- 12:00 PM to 1:30 PM
  - Luncheon (provided)
- 1:30 PM to 3:10 PM
  - Concurrent Sessions
- 3:10 PM to 3:40 PM
  - Networking Break
- 3:40 PM to 5:40 PM
  - Concurrent Sessions
  - Evening Free

#### Thursday, April 25, 2013

- 7:00 AM to 12:00 PM
  - Conference Registration and A/V Check-in
- 7:30 am
  - Continental Breakfast (provided)
- 8:30 AM
  - Opening Plenary Session
- 9:30 AM
  - Networking Break
- 9:50 AM to 12:10 PM
  - Concurrent Sessions
- 12:10 PM
  - Conference Adjourns
- 1:30 PM to 3:10 PM
  - NAISN Workshop
    - How to Create and Operate a Successful Cooperative Invasive Species Management Area (CISMA)
- 3:10 PM to 3:30 PM
  - Networking Break
- 3:30 PM to 5:00 PM
  - NAISN Workshop continued
- 5:00 PM
  - Workshop Adjourns
Monday, April 22, Morning

Plenary Session: Great Room B/C

8:30 AM
Welcoming Remarks
Chris Goddard, Executive Secretary, Great Lakes Fishery Commission and Vice-Chair, Invasive Species Centre

8:45 AM
Invited Keynote Presentation
Why Invasions Matter: A Response to Recent Criticisms of Invasion Biology
Anthony Ricciardi, Associate Professor, Redpath Museum & McGill School of Environment, McGill University

9:30 AM
Networking Break

Session A-1: Strategy Room 3

Early Detection and Monitoring I

10:00 AM
Invited Keynote Presentation
Surveys, Surveillance and Monitoring – Strategies for Early Detection and Long-term Management of Aquatic Invasive Species
Chad L. Hewitt, Pro Vice-Chancellor (Research) and Marnie L. Campbell, Chair in Ecological Security, Central Queensland University, School of Medical and Applied Sciences

10:40 AM
Strategy for Designing a Regional Network for AIS Monitoring, Detection, and Response
Bill Bolen, U.S. Environmental Protection Agency

11:00 AM
A Multi-Jurisdictional Approach to Asian Carp in the Upper Illinois River and Chicago Area Waterway System
Kevin Irons, Illinois Department of Natural Resources

11:20 AM
AIS Integration into Existing Monitoring Programs: Lessons Learned in Michigan
Sarah LeSage and Sue Tangora, Michigan Department of Environmental Quality

11:40 AM
Early Detection and Monitoring of Exotic Invasive Plants in Quebec: Building Networks with Citizen Scientists in the Context of Climate Change
Isabelle Simard, Ministère du Développement durable, de l’Environnement, de la Faune et des Parcs, Québec

12:00 PM
Luncheon

Session B-1: Strategy Room 5/6

Crustaceans I

10:00 AM
Invited Keynote Presentation
Crustacean Invaders: Past, Present and Future
Jaimie T.A. Dick, Professor of Invasion Ecology, Queen’s University Belfast

10:40 AM
Bloody-red Shrimp (Hemimysis anomala) Populations in Montreal Harbour Waters, St. Lawrence River: Potential Risk of Species Transfer
Yves de Lafontaine, Environment Canada; Jérôme Marty, St. Lawrence River Institute

11:00 AM
Spatial and Temporal Variation in the Predatory Impact of an Invasive Mysid Shrimp (Hemimysis anomala)
Josephine Lacarella, GRIL and McGill University; Anthony Ricciardi, McGill University; Jaimie T.A. Dick and Mhairi Alexander, Queen’s University Belfast

11:20 AM
Understanding the Invasion Success and Ecological Impacts of Invasive Species: A Comparative Functional Response Methodology
Daniel Barrios-O’Neill, Jaimie T.A. Dick, Mhairi Alexander, Mark Emmerson and Helene C. Bovy, Queen’s University Belfast; Anthony Ricciardi, McGill University

11:40 AM
Novel and Emerging Tools to Assess the Impacts of Aquatic Invasive Species
Tim Johnson, Brent Metcalfe, Chris Wilson and Mike Yuille, Ontario Ministry of Natural Resources; Shelley Arnott, Meagan King and Kent McDonald, Queen’s University; Linda Campbell, Saint Mary’s University; Lucia Carreon, University of Windsor

12:00 PM
Luncheon

Session C-1: Strategy Room 2

Biology and Ecology of Asian Carps I

10:00 AM
Invited Keynote Presentations
Update on the Asian Carp Control Strategy Framework
John Goss, Asian Carp Director, White House Council on Environmental Quality

10:40 AM
Preliminary Assessment of the Suitability of Canadian Great Lakes Tributaries for Asian Carp Spawning
Nicholas Mandrak, Fisheries and Oceans Canada

11:00 AM
A Stage-Structured Population Model for Bighead and Silver Carps in the Great Lakes
Kim Cuddington, University of Waterloo; Marten Koops and Warren Currie, Fisheries and Oceans Canada

11:20 AM
Movements and Habitat Use of Silver Carp in the Wabash River, Indiana (USA)
Alison Coulter, Elizabeth Bailey and Reuben Goforth, Purdue University; Doug Keller and Tom Stefaneanu, Indiana Department of Natural Resources; Jon Amberg, U.S. Geological Survey

11:40 AM
Assessment of Non-Planktonic Food Sources for Bighead Carps in the Laurentian Great Lakes

12:00 PM
Luncheon

Session D-1: Strategy Room 3

Shipping Pathways I

10:00 AM
Invited Keynote Presentation
The Role that the Zebra Mussel and ICAIS Conferences Have Played in Reducing the Risk of AIS Being Discharged from Ships’ Ballast Water
Christopher J. Wiley, Fisheries and Oceans Canada/Transport Canada Marine Safety

10:40 AM
Examining the Role of Domestic Shipping in the Spread of Nonindigenous Species
Sarah Bailey and Elizabeta Bristki, Fisheries and Oceans Canada; Christopher J. Wiley, Transport Canada Marine Safety

11:00 AM
Hull Fouling on Domestic Vessels as a Vector for Secondary Spread of Marine Nonindigenous Species
Francisco Sylvester, Marco Meloni and Demetrio Boltovskoy, Universidad de Buenos Aires; Nancy Correa, Servicio de Hidrografía Naval; Fábio Pitombo, Universidade Federal Fluminense

11:20 AM
Estimating the Risk of Ship-mediated NIS in the Spread of Nonindigenous Species
Oscar Casas-Monroy, Jennifer Adams, Robert Linley and Sarah Bailey, Fisheries and Oceans Canada; Farrah Chan, University of Windsor

11:40 AM
Risk Assessment for Ballast Water Exchange in the Canadian Eastern Arctic
Kimberly Howland, Shannon Nudds, Charles Hannah, Tim Siferd, Jeff Higdon, Robert Stewart, Margaret Treble and Christopher J. Wiley, Fisheries and Oceans Canada; Bruce Stewart, Arctic Biological Consultants
### Session A-2: Strategy Room 1

**Early Detection and Monitoring II**

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<tr>
<th>Time</th>
<th>Session</th>
<th>Speaker(s)</th>
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<tr>
<td>1:30 PM</td>
<td><strong>How to Build an Effective Rapid Response Task Force in the Lake Champlain Basin</strong></td>
<td>Margaret Modley, Lake Champlain Basin Program</td>
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<tr>
<td>1:50 PM</td>
<td><strong>The U.S. Fish and Wildlife Service's Provisional, Early Detection Program for the Great Lakes</strong></td>
<td>Michael H. Hoff, U.S. Fish &amp; Wildlife Service, Fisheries Program</td>
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<tr>
<td>2:10 PM</td>
<td><strong>Search Strategies and Network Design Issues for Early Detection of Aquatic Invasive Species</strong></td>
<td>John R. (Jack) Kelly, Joel Hoffman, Anett Trebitz, Gregory Peterson and Erik Pilgrim, U.S. Environmental Protection Agency</td>
</tr>
<tr>
<td>2:30 PM</td>
<td><strong>Estimating Sampling Effort for Early Detection of Non-Indigenous Benthic Species in the Toledo Harbor Region of Lake Erie</strong></td>
<td>Jeffrey L. Ram, Fady Banno, Richard Gula, Jason P. Gliecki and Donna Kashian, Wayne State University</td>
</tr>
<tr>
<td>2:50 PM</td>
<td><strong>Capturing Dispersal Patterns and Tolerance of Early Invaders with Enhanced SDMs: Applications for Design of Detection Programs</strong></td>
<td>Paul Edwards and Brian Leung, McGill University; Sam Collin and Ladd E. Johnson, Université Laval</td>
</tr>
<tr>
<td>3:10 PM</td>
<td>Networking Break</td>
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</table>
### Session A-3: Strategy Room 1

**Early Detection and Monitoring III**

#### 3:40 PM
**Early Detection of Non-native Fishes Using Fish Larvae**
Joel Hoffmann, Erik Pilgrim, Annet Trebitz, John Kelly and Gregory Peterson, U.S. Environmental Protection Agency

#### 4:00 PM
**Metagenomic Approaches to Detecting Invasive Species in Lake Superior**
Erik Pilgrim, John Martinson, Joel Hoffmann, Annet Trebitz, Gregory Peterson and John Kelly, U.S. Environmental Protection Agency

#### 4:20 PM
**Assessing the Role of Genomic Surveillance Methods in Mitigating the Erie Canal Corridor Invasion Risk**
Andrew Mahon, Central Michigan University; W. Lindsey Chadderton and Andrew Tucker, The Nature Conservancy

#### 4:40 PM
**Environmental DNA Monitoring for Detecting Aquatic Invasive Species in Ontario**
Chris Wilson, Kristyne Wozney, Jennifer Bronnenhuber and Caleigh Smith, Ontario Ministry of Natural Resources; Christopher Kyle, Trent University

### Session B-3: Strategy Room 5/6

**Crustaceans III**

#### 3:40 PM
**Use of Functional Response Experiments and Modelling to Assess Intra-guild Interaction Between a Native and Invasive Amphipod in Northern Ireland**
Mandy Bunke, Melanie Hatcher and Alison Dunn, University of Leeds; Mhairi Alexander and Jaimie T.A. Dick, Queen’s University Belfast

#### 4:00 PM
**Predatory Functional Responses of Native vs. Exotic Amphipods: Effects of Predation Risk and Parasitism**
Rachel Paterson, Marilyn Ennis and Jaimie T.A. Dick, Queen’s University Belfast; Melanie Hatcher and Alison Dunn, University of Leeds

#### 4:20 PM
**Trophic Impacts of Two Invasive Decapods on Freshwater Communities**
Paula Rosewarne, Chris Wing, Christopher Grocock, Robert Mortimer and Alison Dunn, University of Leeds

#### 4:40 PM
**Combined Effects of Food Abundance and Temperature on Large Bodied vs. Small Bodied Cladoceran Species Replacement**
Irina Feniova and Yury Dgebuadze, Institute of Ecology and Evolution, Russian Academy of Sciences; Vladimir Radiutski, Anna Polach and Elena Sysaeva, The Scientific and Practical Center for Bioresources, National Academy of Sciences of Belarus; Jacek Tarnowski, Institute of Inland Fisheries; Andrew Dzialowski, Oklahoma State University

### Session C-3: Strategy Room 2

**Management and Control of Asian Carp I**

#### 3:40 PM
**Managing Asian Carp at the Detectable Population Front in the Illinois Waterway through Standardized Monitoring and Removal by Contracted Commercial Fishers**
Victor Santicucci, Kevin Irans and James Mick, Illinois Department of Natural Resources; David C. Glover, Southern Illinois University Carbondale, Center for Fisheries, Aquaculture and Aquatic Sciences

#### 4:00 PM
**The Use of Chemical Stimuli in the Control of Asian Carp**
Edward E. Little, Robin D. Calfee, H. Puglis and E. Brethan, U.S. Geological Survey, Columbia Environmental Research Center; Peter Sorensen, University of Minnesota

#### 4:20 PM
**Asian Carp (Hypophthalmichthys spp.) and the Viability of a Vulnerable Native Fish: An Ecological Risk Analysis for Paddlefish (Polyodon spathula) in the Lower Mississippi River**
Nicholas Friedenberg, Adam Laybourn and Jonathan Borelli, Applied Biomatematics; Jan J. Hoover, U.S. Army Corps of Engineers

#### 4:40 PM
**Development of a Microparticle Delivery System for the Delivery of Control Agents to Bighead Carp and Silver Carp**
Jon J. Amberg, James A. Luoma, Terrance D. Hubert and Mark P. Galliowski, U.S. Geological Survey, Upper Midwest Environmental Sciences Center

### Session D-3: Strategy Room 3

**Shipping Pathways III**

#### 3:40 PM
**Organism Patchiness in Ballast Water Tanks – Implications for Ballast Water Management Compliance Control Sampling**
Stephan Galli, GoConsult; Matej David, David Consultants

#### 4:00 PM
**‘Fouling Begets Fouling’: Can Species-Based Biofouling Biosecurity Management Work for Ships?**
John Polglaze, PGM Environment

#### 4:20 PM
**Does Transport Pathway Influence the Relationship between Colonization Pressure and Propagule Pressure of Zoonplankton in Ballast Water of Ships?**
Farrah Chan and Hugh MacIsaac, University of Windsor, Great Lakes Institute for Environmental Research; Elizabetha Briski and Sarah Bailey, Fisheries and Oceans Canada

#### 4:40 PM
**Hybrid Treatment to Control Planktonic Densities in Ballast Water Tanks**
Esteban M. Paolucci, Marco C. Hernandez, Alexei Potapov, Hugh J. MacIsaac, 1 University of Windsor, Great Lakes Institute for Environmental Research; 1University of Alberta, Center for Mathematical Biology, Department of Mathematical and Statistical Sciences

### Monday, April 22, Afternoon
Effects of the Presence of Saxitoxin and Microcystin in the Grazing Rate of Limnoperna fortunei
Vinicius Sergio Rodrigues Díaz, António Valadão Cardoso, Hellyna Regina Mota, Marcela David de Carvalho, Helena Elena da Costa, and Fabio Venceslau.

Moving Faster than a Snail’s Pace: Trends and Consequences of Invasive Freshwater Snails
Danielle M. Hauck, Noelie M. Chain, Daniel R. Uden and Bruce J. Stephen.

Are Non-native species More Likely to Become Pests?
Ahdia Hassan, Groupe de recherche interuniversitaire en limnologie et en environnement aquatique (GRIL) and Redpath Museum, McGill University and Anthony Ricciardi, Redpath Museum, McGill University.

Assessing Compliance with Ballast Water International Regulations in Argentina
Maria Fernanda Ávila Velandia, Francisco Sylvestre and Demétrio Boltovskoy, Fundação Centro de Bioengenharia; Hellen Regina Mota, Antônio Valadão Cardoso, and José Maria Aquilar Camacho.

The Experimental Evaluation of Habitat Preferences of the Ponto-Caspian Gammarid Pontogammarus robustoides
Lukasz Jermacz and Jaroslav Kobak, Nicolaus Copernicus University.

Environmental Impacts: An Examination of Inter-population Variation in the Great Room A
Maria Ana Tovar-Hernández, Beatriz Yáñez Rivera, Tulio Fabio Villalobos-Guerrero, and José Maria Aquilar Camacho.

The Non-native Aquatic Species Program: Past, Present, and Future
Matt Canister, Pamela Fuller, Amy Benson and Matthew Neilson, U.S. Geological Survey.

Assembling Compliance with Ballast Water International Regulations in Argentina
Maria Fernanda Ávila Velandia, Francisco Sylvestre and Demétrio Boltovskoy, Universidade de Buenos Aires; Pablo Almada, Prefectura Naval Argentina.

Effects of Thermal Effluent on Exotic Benthic Invertebrates in the St. Lawrence River
Kayla Hamelin and Anthony Ricciardi, McGill University.

Ballast Tank Biofilms are Protected Reservoirs of Microspecies that Challenge Native Biodiversity
Robert Baier, Robert Forsberg, Joseph Zambon and Anne Meyer, SUNY at Buffalo.

An Integrative Approach to the Study of Introduced Marine Invertebrates in the Gulf of California (Mexico)
Maria Ana Tovar-Hernández, Beatriz Yáñez Rivera, Tulio Fabio Villalobos-Guerrero, and José Maria Aquilar Camacho, Geomare; António Martin Pfeung, Instituto Nacional de Ecología.

Is a Recirculating Aquaculture System an Option for Non-native Species Management in the Polish Coastal Zone of the Baltic Sea?
Barbara Dmochowska and Anna Szaniawska, University of Gdańsk, Institute of Oceanography.

Mechanisms of Aquatic Species Invasions Across the South Atlantic States, USA

Developing a Risk Assessment Model for Identifying Potential Invasive Aquatic Weeds in Texas
Elizabeth Edgerton and Lucas Gregory, Texas Water Resources Institute; Michael Masser, Texas A&M University.

 szerako, University of Windsor, Great Lakes Institute for Natural Resources; Karie Decker, Nebraska Game and Parks Commission; Valery E. Forbes, University of Nebraska-Lincoln, School of Biological Sciences.

Determinants of Rapid Response Success for Alien Invasive Species in Aquatic Ecosystems
Boris Beric and Hugh J. MacIsaac, University of Windsor, Great Lakes Institute for Environmental Research.

Program to Control Exotic Species in the Area of Usina Hidrelétrica Serra do Facão
Daniel Simões, Maria Beatriz Ferreira, Norma Dulce de Campos Barbosa and Maria Edith Rolla, Usina Hidrelétrica Serra do Facão.

Zebra Mussel Habitat Preference, Growth, and Mortality within and among Lakes in Northeast Wisconsin and Upper Michigan
Maureen Ferry and Tim Ginnett, University of Wisconsin-Stevens Point; Gregory Sass and K. Gauthier, Wisconsin Department of Natural Resources.

Ponte-Caspian Predatory Cladocerans Cerophagus pengai (Ostrovoupi 1891) and Evadne anaonyx G.O. Sars 1897 in the Gulf of Gdansk (Baltic Sea)
Luiza Bielecka, Stella Marduk-Cegielka and Marcin Kalorus, University of Gdańsk, Institute of Oceanography, Department of Marine Plankton Research.

Parasite Effects on the Feeding Behaviour and Functional Response of the Invasive Amphipod Gammarus pulex (Crustacea; Amphipoda)
Marilyn Ennis, Jaimie T.A. Dick, Hmairi Alexander, Rachel Paterson and Sheena Cotter, Queen’s University Belfast.

Functional Responses as Predictors of Invasive Species Impacts: An Examination of Inter-population Variation in an Invasive Predator’s Functional Response
Helene C. Boyv, Jaimie T.A. Dick and Mark Emmerson, Queen’s University Belfast.

The Response to Water Chestnut in Tonawanda Creek, NY
Michael Goehle and Denise Clay, U.S. Fish and Wildlife Service.

Effects of Taxonomic relatedness and functional traits as predictors of establishment success after a massive freshwater fish invasion in Neotropical freshwater systems
Felipe Skóra and Jean Ricardo Simões Vitale, Universidade Federal do Paraná, Vinicius Abitólio, Museu de História Natural Capão da Imbuia.

Phylogeography of the Invasive Chironomus Mnemopsis leidyi in Eurasia
Sara Ghabouli, Albin Zhan, Meloní Cristina and Hugh J. MacIsaac, University of Windsor, Great Lakes Institute for Environmental Research; Tamara Shikanova, P.P. Shirshov Institute of Oceanology, Russian Academy of Sciences; Elizabeth Bröd, Fisheries and Oceans Canada.

Exploring Management Alternatives for an Invasive Species in Atlantic Canada: Chemical Analysis and the Basis for a Fishery of the European Green Crab
Cassandra Melillis, Paula Tammon Flynn, Mary McVeen, Sophie St. Hilaire and Pedro Quijon, University of Prince Edward Island.

The Neotropical Freshwater Cladoceran Cercopagis pengoi (Baltic Sea)
Maria Ana Tovar-Hernández, Beatriz Yáñez Rivera, Tulio Fabio Villalobos-Guerrero and José Maria Aquilar Camacho, Geomare; António Martin Pfeung, Instituto Nacional de Ecología.

A Cellular Automata Model for the Spread of the Golden Mussel (Limpomperna fortunei)
Vinícius Carvalho Resende, Mônica de Cásio Souza Campos, Fabiano Alcísio e Silva, Hellen Regina Mota, Marcela David de Carvalho, António Valadão Cardoso, Centro de Biogenenaria de Espécies Invasoras de Hidrelétricas (CBEMH); Fundação Centro Tecnológico de Minas Gerais (CETEC); Companhia Energética de Minas Gerais (CEMMIG).

An Automated, Flow-Through Ballast Water Sampling Device
Cameron Moser and Lisa Drake, U.S. Naval Research Laboratory; Timothy Wier, U.S. Naval Research Laboratory; Craig R. Allen and Kevin L. Pope, U.S. Geological Survey – Nebraska Cooperative Fish and Wildlife Research Unit; Valery E. Forbes, University of Nebraska-Lincoln, School of Biological Sciences.

Phylogeography of the Invasive Chironomus Mnemopsis leidyi in Eurasia
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Zebra Mussel Habitat Preference, Growth, and Mortality within and among Lakes in Northeast Wisconsin and Upper Michigan
Maureen Ferry and Tim Ginnett, University of Wisconsin-Stevens Point; Gregory Sass and K. Gauthier, Wisconsin Department of Natural Resources.

Out with the Old, in with the New: Dealing with Aquatic Weed Succession in South Africa
Grant Martin, Julie Coetzee and Martin Hill, Rhodes University.

Are There Benthic Non-indigenous Species in the Canadian Arctic?
Jesica Goldsmid and Philippe Archambault, Université du Québec à Rimouski; Kimberly Howland, Fisheries and Oceans Canada.

The Regional Euro-Asian Biological Invasions Centre (REABIC) Information System
Frances Lucy, Institute of Technology Sligo; Vadim Panov and Vladimir Shestakov, REABIC.

Out with the Old, in with the New: Dealing with Aquatic Weed Succession in South Africa
Grant Martin, Julie Coetzee and Martin Hill, Rhodes University.

The Successful Biological Control of Parrot’s Feather, Myriophyllum aquaticum (Vell.) Verdc. (Haloragaceae) in South Africa by the Flea Beetle, Lysaphis sp. (Chrysomelidae)
Grant Martin, Martin Hill and Julie Coetzee, Rhodes University.

Effects of Thermal Effluent on Exotic Benthic Invertebrates in the St. Lawrence River
Kayla Hamelin and Anthony Ricciardi, McGill University.

Are Non-native species More Likely to Become Pests?
Ahdia Hassan, Groupe de recherche interuniversitaire en limnologie et en environnement aquatique (GRIL) and Redpath Museum, McGill University and Anthony Ricciardi, Redpath Museum, McGill University.

Underwater Evaluation of Habitat Partitioning between Non-native Invader (Racer Goby) and a Threatened Native Fish (European Bullhead) in a European River
Jaroslav Kobak, Tomasz Kakareka, Malgorzata Pazanska and Lukasz Jermacz, Nicolaus Copernicus University; Gordon Cogg, CEFAS.

Moving Faster than a Snail’s Pace: Trends and Consequences of Invasive Freshwater Snails
Danielle M. Hauck, Noelie M. Chain, Daniel R. Uden and Bruce J. Stephen, University of Nebraska-Lincoln, School of Natural Resources; Karie Decker, Nebraska Game and Parks Commission; Craig R. Allen and Kevin L. Pope, U.S. Geological Survey – Nebraska Cooperative Fish and Wildlife Research Unit; Valery E. Forbes, University of Nebraska-Lincoln, School of Biological Sciences.

The Experimental Evaluation of Habitat Preferences of the Ponto-Caspian Gammarid Pontogammarus robustoides
Lukasz Jermacz and Jaroslav Kobak, Nicolaus Copernicus University.

Underwater Evaluation of Habitat Partitioning between Non-native Invader (Racer Goby) and a Threatened Native Fish (European Bullhead) in a European River
Jaroslav Kobak, Tomasz Kakareka, Malgorzata Pazanska and Lukasz Jermacz, Nicolaus Copernicus University; Gordon Cogg, CEFAS.

The Regional Euro-Asian Biological Invasions Centre (REABIC) Information System
Frances Lucy, Institute of Technology Sligo; Vadim Panov and Vladimir Shestakov, REABIC.

Out with the Old, in with the New: Dealing with Aquatic Weed Succession in South Africa
Grant Martin, Julie Coetzee and Martin Hill, Rhodes University.

The Successful Biological Control of Parrot’s Feather, Myriophyllum aquaticum (Vell.) Verdc. (Haloragaceae) in South Africa by the Flea Beetle, Lysaphis sp. (Chrysomelidae)
Grant Martin, Martin Hill and Julie Coetzee, Rhodes University.

Exploring Management Alternatives for an Invasive Species in Atlantic Canada: Chemical Analysis and the Basis for a Fishery of the European Green Crab
Cassandra Melillis, Paula Tammon Flynn, Mary McVeen, Sophie St. Hilaire and Pedro Quijon, University of Prince Edward Island.

Third Prototype Shipboard Filter Skid (p3SFS): An Automated, Flow-Through Ballast Water Sampling Device
Cameron Moser and Lisa Drake, U.S. Naval Research Laboratory; Timothy Wier, U.S. Naval Research Laboratory-Excet Incorporated; Jonathan Grant, Battenkill Technologies, Inc.
Poster Session continued: Great Room A

Monday, April 22, Evening

Containment of Knifefish (Chitala ornata) Infestation in Laguna De Bay, Philippines
Adelaida Palma, Bureau of Fisheries and Aquatic Resources

Evaluating Incentive Programs as an Effective Tool to Control Invasive Species
Susan Pasko, National Oceanic and Atmospheric Administration – ERT; Jason Goldberg, U.S. Fish and Wildlife Service

Ecological Determinants of Parasite Acquisition by Exotic Fish Species
Rachel Paterson, Queen’s University Belfast; Colin Townsend and Robert Poulin, University of Otago; Daniel Tompkins, Landcare Research

Developing and Refining a Rapid DNA Test for Invasive Fish Species
Carson Prichard, Von Sigler and Carol Stepien, University of Toledo

An Unexpected Role for an Invasive Seaweed: Uprooted Rockweeds Act as Key Subsidies of Food and Habitat for Sandy Beach Invertebrates
Pedro Quijon, Mitchell MacMillan, Tyler Wheeler and Terrie Hardwick, University of Prince Edward Island

An Investigation of the Risk Posed by Recreational Boating as a Vector in the Introduction and Spread of Aquatic Invasive Species in Newfoundland
Bobbi Rees, Government of Newfoundland and Labrador; Terri Wells, Cynthia McKee, Vanessa Reid, Michael Hurley and Kyle Mattison, Fisheries and Oceans Canada; Robert O’Donnell, Memorial University of Newfoundland; Darrell Green, Newfoundland Aquaculture Industry Association

RAMP: A Tool for Quickly Determining a Species Current and Potential Climate Envelope
Scott Sanders and Michael H. Hoff, U.S. Fish & Wildlife Service

Modeling the Population Dynamics of the Species Limnoperna fortunei in Reservoirs Influenced by the Presence of Predatory Fish
Fabiano Alcisioe Silva¹, Roberto Lopes¹, Newton Gontijo¹, Mônica de Cássia Souza Campos¹,², Hellen Regina Mota¹, Marcela David de Carvalho¹, Antônio Valadão Cardoso¹,²; ¹Centro de Bioengenharia de Espécies Invasoras de Hidrelétricas (CBEIH); ²Fundação Centro Tecnológico de Minas Gerais (CETEC); ³Companhia Energética de Minas Gerais (CEMIG)

Autonomy Mediates the Impact of an Invasive Predator: Injury Patterns and Feeding Rates in Prince Edward Island Green Crab (Carcinus maenas) Populations
Paula Tummon Flynn, Cassandra Mellish, Tyler Pickering and Pedro Quijon, University of Prince Edward Island

Utilizing Different Eradication Methods to Manage Alien Fish Populations in the Cape Floristic Region Biodiversity Hotspot: South Africa
Megan van der Bank and Johannes Adriaan van der Walt, CapeNature

Development of the Computational Tool TerraME for Modeling the Process of Invasion by the Species Limnoperna fortunei
Fabiano Alcisioe Silva¹, Thalisson Carreira¹, Newton Gontijo¹, Roberto Lopes¹, Mônica de Cássia Souza Campos¹,², Hellen Regina Mota¹, Marcela David de Carvalho¹, Antônio Valadão Cardoso¹,²; ¹Centro de Bioengenharia de Espécies Invasoras de Hidrelétricas (CBEIH); ²Fundação Centro Tecnológico de Minas Gerais (CETEC); ³Companhia Energética de Minas Gerais (CEMIG)
### Tuesday, April 23, Morning

#### Plenary Session: Great Room B/C

**8:45 AM**

*Invited Keynote Presentation*

**Practical Management of Aquatic Invasive Species in Ireland**

Joseph M. Caffrey, Senior Research Officer, Inland Fisheries Ireland

#### Session A-4: Strategy Room 1

**Other Fishes I**

**10:00 AM**

*Invited Keynote Presentation*

**Invasive Fishes: What's Next?**

Nicholas Mandrak, Executive Director, Centre of Expertise for Aquatic Risk Assessment, Fisheries and Oceans Canada

**10:40 AM**

*Influence of Phylogenetic Community Structure on Fish Introductions in the Southeast United States*

Matthew Harley and Pamela Fuller, U.S. Geological Survey

**11:00 AM**

*Biological and Ecological Features, Enough to Predict Invasion – The Round Goby Case*

Mariusz Sapota, University of Gdansk

**11:20 AM**

*In the Driver's Seat? Disentangling the Influence of Habitat Degradation and Round Goby Invasion on the Structure and Function of Benthic Communities in the St. Lawrence River*

Katherine Pagnucco, GRIL and McGill University and Anthony Ricciardi, McGill University

**11:40 AM**

*Rapid Recent Expansion of the Round Goby (Neogobius melanostomus) and the Western Tubenose Goby (Proterorhinus semilunaris) in Flanders (Belgium)*

Hugo Verreycken and Luc De Bruyn, Research Institute for Nature and Forest; Merlijn Mommaerts and Tine Huys, Katholieke Universiteit Leuven; Jan Ostermeyer, Universiteit Antwerpen

**12:00 PM**

*Luncheon*

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### Session B-4: Strategy Room 2

**Dreissenid Research I**

**10:00 AM**

*Invited Keynote Presentation*

**Spread, Population Dynamics, and Ecosystem Impacts of Zebra Mussels versus Quagga Mussels: What Do We Know and What Do We Not?**

Alexander Y. Karatayev, Director and Lyubov E. Burlakova, Research Scientist, Great Lakes Center, Buffalo State College; Diana K. Padilla, Stony Brook University, Department of Ecology and Evolution

**10:40 AM**

*Behavioural Responses of the Zebra Mussel (Dreissena polymorpha) to the Presence of Various Gammarid Species Inhabiting its Colonies*

Jaroslaw Kobak, Malgorzata Pazanska and Tomasz Kakareko, Nicolaus Copernicus University

**11:00 AM**

*Dreissena Impacts on Unionoidae: General Trends in North America and Europe and Recent Findings from the Lower Great Lakes*

Lyubov Burlakova, Alexander Karatayev, Brianne Talumella, Buffalo State College; David Zanatta, Central Michigan University; Frances Lucy, Institute of Technology Sligo; Sergey Mastotsky, RNT Consulting Inc.

**11:20 AM**

*Could Zebra Mussels Help Unravel the Mysterious Life Cycle of an Introduced and Virulent Parasite of Oysters?*

Daniel Molloy, SUNY at Albany; Nancy Stokes, Virginia Institute of Marine Science; Laure Giamberini and Bénedicte Sohm-Rederstorff, University of Lorraine

**11:40 AM**

*Evolutionary and Biogeographic Relationships of Dreissenid Mussels, with Revision of Component Taxa*

Carol Stepień, University of Toledo

**12:00 PM**

*Luncheon*

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### Session C-4: Strategy Room 3

**Risk Assessment I**

**10:00 AM**

*Invited Keynote Presentation*

**Emerging Integration of Risk Assessments in an Aquatic Invasive Species Program**

Becky Cudmore, Acting Manager, Canadian Asian Carp Program; Manager, National Centre of Expertise for Aquatic Risk Assessment; Senior Science Advisor, Aquatic Invasive Species, Fisheries and Oceans Canada

**10:40 AM**

*Managing an Establishment Pathway Using Import Records and Biological Data*

Johanna Bradie and Brian Leung, McGill University

**11:00 AM**

*Anticipating Bioinvasion Risks in a Coastal Context*

Daniel Klusa, New Zealand Ministry for Primary Industries

**11:20 AM**

*Global Changes and Biological Invasion of Aquatic Alien Species: The Case in Russia*

Yury Yu. Dgebuadze, A.N. Severtsov Institute of Evolutionary and Biogeographic Research

**11:40 AM**

*A Risk Analysis of Australia's Marine Ornamental Value Chain Focusing on Biosecurity (Diseases and Pathogens) Concerns*

Kevin Erickson, Marnie Campbell, Chad Hewitt and Nicole Flint, Central Queensland University

**12:00 PM**

*Luncheon*

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### Session D-4: Strategy Room 5/6

**Outreach and Policy I**

**10:00 AM**

*Invited Keynote Presentation*

**Is AIS Spread Inevitable: Fact or Fiction?**

Douglas Jensen, Aquatic Invasive Species Program Coordinator, University of Minnesota Sea Grant Program

**10:40 AM**

*Curbing Invasion Pathways: A Sea Grant-U.S. Coast Guard Auxiliary Pilot Partnership to Assess and Enhance Aquatic Invasive Species Awareness among Coastal Anglers and Boaters*

Nancy Balcom, Connecticut Sea Grant/University of Connecticut; William Nelson, U.S. Coast Guard Auxiliary; Eric C. Dyson, Community College of Rhode Island

**11:00 AM**

*Education and Outreach: Changing Angler and Boater Behavior Over Time*

Matt Smith, Ontario Federation of Anglers and Hunters

**11:20 AM**

*Understanding Motivations Behind the Live Release of Organisms*

Debrupa Pathak, Ontario Ministry of Natural Resources

**11:40 AM**

*Lake Simcoe Aquatic Invasive Species Community-Based Social Marketing Project*

Sophie Monfette, Ontario Federation of Anglers and Hunters; Erika Weisz, Ontario Ministry of Natural Resources; David Dilks and Jeff Garkowski, LURA Consulting

**12:00 PM**

*Luncheon*
**Tuesday, April 23, Afternoon**

### Session A-5: Strategy Room 1
- **Other Fishes II**
  - **1:30 PM**
    - Does the Racer Goby, a Pontos-Caspian Invader of Continental European Waters, Pose a Threat to the Endangered Native European Bullhead? – An Experimental Approach
      - Gordon Capp, Centre for Environment, Fisheries and Aquaculture Science; Joanna Grabowska, Dagmara Blonska and Miroslaw Przybylski, University of Lodz; Tomasz Kakareka, Jaroslaw Kobak, Malgorzata Paznanska and Lukasz Jermacz, Nicolaus Copernicus University
  - **1:50 PM**
    - Identifying Drivers of Pumpkinseed Sunfish Invasiveness Using Population Models
      - Hein van Kleet, Bargerveen Foundation; Eelke Jongejans, Radboud University Nijmegen
  - **2:10 PM**
    - Community Dynamics of an Invaded Ecosystem: Investigation of a Ptergoplichthys disjunctivus Invasion in the Nseleni River System, KwaZulu Natal, South Africa
      - Jaclyn Hill and Martin Hill, Rhodes University; Ray Jones, Ezemvelo KZN Wildlife; Olaf Weyl, South African Institute for Aquatic Biodiversity
  - **2:30 PM**
    - Reconciling Large-scale Model Predictions with Small-scale – Impacts and Interactions of the Invasive Smallmouth Bass (Micropterus dolomieu) with Native Species in British Columbiaan Lakes
      - Martina Beck, University of Victoria; John Volpe, University of Victoria; Leif-Matthias Herborg, BC Ministry of Environment
  - **2:50 PM**
    - Evolutionary and Biogeographic Patterns of an Emerging Quasispecies: The Fish Viral Hemorrhagic Septicemiva Virus (VHSV)
      - Carol Stepien, Lindsey Pierce and Jacob Blandford, University of Toledo
  - **3:10 PM**
    - Networking Break

### Session B-5: Strategy Room 2
- **Dreissenid Research II**
  - **1:30 PM**
    - Predicting the Zebra Mussel Spread: What Can We Learn From 200 Years of Continuous Invasion?
      - Alexander Karatyayev and Lyubov Burlakova, Buffalo State College; Sergey Mastitsky, RNT Consulting Inc.; Dianna Padilla, Stony Brook University
  - **1:50 PM**
    - Invasion of Western Europe by Dreissena rostriformis bugensis
      - Jonathan Marescaux and Karine Van Doninck, University of Namur
  - **2:10 PM**
    - Rapid Range Expansion of the Invasive Quagga Mussel in Relation to Zebra Mussel Presence in Western Europe
      - Rob Leuven, Jan Matthews, Gerard Van der Velde, Frank P.L. Collas and Remon (K.R.) Koopman, Radboud University Nijmegen; Abraham bij de Vaate, Waterfauna Hydrobiologisch Adviesbureau
  - **2:30 PM**
    - Exotic Species Replacement in Relation to Small-scale Environmental Heterogeneity
      - Lisa Jones and Anthony Ricciardi, McGill University
  - **2:50 PM**
    - Comparative Variation in Growth of Two Invasive Mussels in the St. Lawrence River: Do Differences in Filtering Apparatus Matter?
      - Jordan Ouellette-Plante, GRIL and McGill University; Anthony Ricciardi, McGill University; Ladd E. Johnson, Universite Laval
  - **3:10 PM**
    - Networking Break

### Session C-5: Strategy Room 3
- **Risk Assessment II**
  - **1:30 PM**
    - The Utility of Hub and Spoke Network Models to Analyse Pre-border and Post-border Dispersal of Introduced Marine Species
      - Marnie L Campbell and Chad L. Hewitt, Central Queensland University, School of Medical and Applied Sciences; Fauziah Azmi, University of Tasmania, National Centre for Marine Conservation and Resource Sustainability
  - **1:50 PM**
    - Incorporating Biotic Interactions in Species Distributions: Community Distribution Modeling of the Invasive Species Bythotrephes longimanus
      - Kristina Enciso and Brian Leung, McGill University
  - **2:10 PM**
    - Improving Model Transferability and Generality for Predictive Modeling on Invasive Species: A Case Study on Bythotrephes longimanus
      - Lifei Wang and Donald A. Jackson, University of Toronto
  - **2:30 PM**
    - Implications of Uncertainty: Bayesian Modelling of Aquatic Invasive Species Spread
      - Corey Chivers and Brian Leung, McGill University
  - **2:50 PM**
    - RAMP: A Tool for Quickly Determining a Species Current and Potential Climate Envelope
      - Scott Sander and Michael H. Hoff, U.S. Fish & Wildlife Service
  - **3:10 PM**
    - Networking Break

### Session D-5: Strategy Room 5/6
- **Outreach and Policy II**
  - **1:30 PM**
    - Go Giddy Over Guidelines for Recreational Activities
      - Douglas Jensen, University of Minnesota Sea Grant Program; Laura Noccut, U.S. Fish & Wildlife Service
  - **1:50 PM**
    - An Ounce of Prevention: AIS Education, Evaluation, and Communication in Illinois and Indiana
      - Sarah Zack, Lainey Pasternak and Patrice Charlebois, Illinois-Indiana Sea Grant & Illinois Natural History Survey; Erin Seekamp, North Carolina State University
  - **2:10 PM**
    - Working With Fishing Tournaments to Prevent the Spread of Aquatic Invasive Species
      - Philip B. May, Wisconsin Sea Grant
  - **2:30 PM**
    - Mitigating the Threats Posed by Freshwater Invasive Species in Ireland
      - Joseph M. Caffrey, Inland Fisheries Ireland
  - **2:50 PM**
    - Nab the Aquatic Invader! – Young Stewards Prevent the Spread of AIS
      - Marte Kitson and Douglas Jensen, University of Minnesota Sea Grant Program; Robin Goettel, Illinois-Indiana Sea Grant
  - **3:10 PM**
    - Networking Break
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<tr>
<th>Session</th>
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| Session A-6: Strategy Room 1 | Other Fishes III | 3:40 PM | Dispersal, Impact and Abundance Mitigation Study of Round Goby (*Neogobius melanostomus*) and Chinese Sleeper (*Percottus gleni*) in Lithuania
Saulius Stakėnas, Tomas Vėbitėkas, Vytaitė Rakauskaitė and Andrius Steponėnas, Nature Research Centre, Institute of Ecology |
| | | 4:00 PM | Detecting the Invasive Snakehead: DNA Barcoding as a First Step in Developing Species Specific Primers and Probes for Environmental DNA Detection
Natasha Serrao, Trent University, Department of Environmental Life Sciences; Dirk Steinke and Robert Hanney, University of Guelph, Biodiversity Institute of Ontario |
| | | 4:20 PM | Morphological Responses to Competition in Native and Non-Native Fish
Stan Iavno and A. Rooke, Trent University, Environmental and Life Sciences Graduate Program; M.G. Fox, Trent University, Environmental and Resource Studies Program and Department of Biology |
| | | 4:40 PM | Thermal and Biotic Influences on Life-History Traits of Pumpkinseed Introduced in Europe
Michael G. Fox¹, E. Valente², G. Masson³, Gordon H. Copp⁴, Trent University, Department of Biology and Environmental Resource Studies Program; ²Université de Lorraine, Laboratoire Interactions Ecotoxicologie Biodiversité Écosystèmes; ³Cefas, Salmon & Freshwater Team and Environmental and Trent University, Life Sciences Graduate Program |
| Session B-6: Strategy Room 2 | Dreissenid Research III | 3:40 PM | Modelling the Occurrence of Zebra Mussel Parasites According to Contamination in France and the USA
Laure Giambertini and Laetitia Minguez, University of Lorraine; Simon Devine, Pascal Paspis and François Guerold, University of Metz; Daniel Molloy, State University of New York at Albany |
| | | 4:00 PM | A Non-Destructive Method for Monitoring Dreissenid Settlement and Evaluating Treatment Efficacy
Carolyn Link, Marrone Bio Innovations |
| | | 4:20 PM | Potential Use of the Calcite Saturation Index as an Indicator of Environmental Suitability for Dreissenid Mussel Survival
Katherine Prescott and Renata Claudi, RNT Consulting Inc.; Jeffrey Jarik and Tanya Veldhuizen, California Department of Water Resources |
| | | 4:40 PM | Objective Method for Determining Mortality in Larval and Juvenile Life Stages of Dreissenid Mussel
Carolyn Link, Marrone Bio Innovations; Renata Claudi and Carolina Taraborelli, RNT Consulting Inc. |
| | | 5:00 PM | Dreissenid Veliger Detection and Enumeration Technology Enhanced to Improve Reliability and Sample Processing Using a Continuous Imaging Particle Analyzer (FlowCAM®)
Victoria Kurtz, Harry Nelson and Ben Spaulding, Fluid Imaging Technologies; Denise Houser and Kevin Bloom, Bureau of Reclamation |
| Session C-6: Strategy Room 3 | Risk Assessment III | 3:40 PM | Evaluating the Risk of Non-native Aquatic Species Range Expansions in a Changing Climate in Pennsylvania
Sara Grisé, Pennsylvania Sea Grant; Theo Light, Shippensburg University |
| | | 4:00 PM | An Empirical Analysis of the Causes, Consequences and Predictors of Aquatic Invasive Species in Inland, Freshwater Lakes in Southern Ontario
Tim Haxton, Sarah Nienhuis and Tal Dunkley, Ontario Ministry of Natural Resources |
| | | 4:20 PM | Invasive Species, Climate Change, and Emerging Infectious Disease Threats
David Bruce Conn, Berry College |
| | | 4:40 PM | Predicting Invasive Vulnerability Using Abundance-Body Mass Spectra
Yajun Sun and Mathew Wells, University of Toronto, Department of Physical and Environmental Sciences |
| | | 5:00 PM | Modelling the Likelihood of Introduction and Establishment of Marine Non-native Species in the UK and Ireland
Paul Steele, Fiona Pearce and Edmund Peeler, Centre for Environment, Fisheries and Aquaculture Science |
| Session D-6: Strategy Room 5/6 | Outreach and Policy III | 3:40 PM | A National Status Report on Aquatic Invasive Species in Canada
Åsa Kestrup and David Browne, Canadian Wildlife Federation |
| | | 4:00 PM | Assessing Needs and Developing Regulatory and Outreach Strategies for Preventing the Spread of Aquatic Invasive Species through Boating
Samuel Chan, Oregon State University |
| | | 4:20 PM | Aquatic Invasive Species Outreach for Water Gardeners and Aquarium Hobbyists
Greg Hitzroth, Illinois-Indiana Sea Grant; Patrice Charlebois, Illinois-Indiana Sea Grant & Illinois Natural History Survey; Erin Seekamp, North Carolina State University |
| | | 4:40 PM | GLANSIS Enhancements
Rochelle Sturtevant, Abigail Fusaro and Edward Rutherford, NOAA, Great Lakes Environmental Research Laboratory |
| | | 5:00 PM | Outreach on Great Lakes OIT Risk Assessments
Patrice Charlebois, Illinois-Indiana Sea Grant & Illinois Natural History Survey; Greg Hitzroth, Illinois-Indiana Sea Grant; Danielle Hillbrich, University of Illinois; Mark Farley, Oregon Sea Grant; Bob Kirschner, Chicago Botanic Garden; Reuben Keller, University of Notre Dame |
| | | 5:20 PM | Self-management: The Bane or Saviour of Non-Indigenous Marine Species Management?
Marnie L. Campbell and Chad L. Hewitt, Central Queensland University, School of Medical and Applied Sciences; Dominic E.P. Bryant, University of Tasmania, National Centre for Marine Conservation and Resource Sustainability |
### Session A-8: Strategy Room 1

**Live Bait Pathway II**

- **1:30 PM**
  - The HACCP Approach to Prevent the Spread of Aquatic Invasive Species by Aquaculture and Baitfish Operations
    Ronald Kinnunen, Michigan State University; Jeffrey Gunderson, University of Minnesota

- **1:50 PM**
  - Arkansas Certified Commercial Bait and Ornamental Fish Program: A Method to Prevent Aquatic Invasive Species Introductions
    Anita Kelly and Nathan Stone, University of Arkansas at Pine Bluff

- **2:10 PM**
  - Live Bait as a Potential Vector for Crayfish Introductions in Pennsylvania: Problem and Potential Solutions
    David A. Lieb, Pennsylvania Fish & Boat Commission and Western Pennsylvania Conservancy; John R. Wallace, Millersville University, Department of Biology

- **2:30 PM**
  - Live Bait in Maryland: What We Know, Don't Know, but Need to Know to Effectively Manage this Invasive Species Vector
    Jay Kilian and Ronald Klauda, Maryland Department of Natural Resources, Resource Assessment Service

- **2:50 PM**
  - Bait Shop "Toolkit" and Outreach: Engaging Bait Shops as Opinion Leaders in the Prevention of Aquatic Invasive Species
    Bret Shaw and Allison Howell, University of Wisconsin

- **3:10 PM**
  - Networking Break

### Session B-8: Strategy Room 2

**Dreissenid Control II**

- **1:30 PM**
  - Integrated Approach to Managing Mussels – Resources and Benefits
    Stanley B. Pickles, Bruce Power

- **1:50 PM**
  - Evaluating Aquatic Herbicides for Potential Control of Quagga and Zebra Mussels
    Carolina Taraborelli and Renata Claudi, RNT Consulting Inc.; Scott D’Meara, Bureau of Reclamation; Jeffrey Janik and Tanya Veldhuizen, California Department of Water Resources

- **2:10 PM**
  - Release Coatings Combat Fouling in Power Generation and Water Treatment Facilities – Four Case Histories
    Steve Escaravage, FUJIFILM Hunt Smart Surfaces, LLC

- **2:30 PM**
  - Control of Dreissenid Mussels through pH Adjustment
    Renata Claudi and Thomas Prescott, RNT Consulting Inc.

- **2:50 PM**
  - Protecting Irrigation Systems from Dreissenid Mussel Infestation – Case Study
    Andrew Jamieson, Agriculture and Agri-Food Canada

- **3:10 PM**
  - Networking Break

### Session C-8: Strategy Room 3

**Aquatic Plants II**

- **1:30 PM**
  - Invasion Pathways for Invasive Aquatic Species: Case Studies from Florida (USA)
    Lyn Getzys, William Haller and Kathryn Wilson, University of Florida, IFAS CAIP

- **1:50 PM**
  - Patterns of Impact of Three Invasive Plant Species on Freshwater Ecosystems
    Iris Steer and Ludwig Triest, Vrije Universiteit Brussel

- **2:10 PM**
  - Decrease of Macrophyte Species Diversity of Pond Ecosystems by an Invasive Wetland Plant: *Alternanthera philoxeroides*
    Anindita Chatterjee and Anjana Dewanji, Indian Statistical Institute

- **2:30 PM**
  - Monitoring the Spread of *Alternanthera philoxeroides* in the Indian Context
    Anjana Dewanji, Anindita Chatterjee and Achyut K. Banerjee, Indian Statistical Institute

- **2:50 PM**
  - A Mathematical Approach for Predicting the Spread of Alligator Weed (*Alternanthera philoxeroides*) in Wular Lake, India
    Anwar Masood and Fareed A. Khan, Aligarh Muslim University; Anand Sengupta, Indian Institute of Technology; Gyan P. Sharma, University of Delhi

- **3:10 PM**
  - Networking Break

### Session D-8: Strategy Room 5/6

**Other Bivalves II**

- **1:30 PM**
  - The Invasive Bivalve Genus *Corbicula* as a Key Model to Androgenesis
    Karine Van Doninck, Emilie Etoaudi and Lise-Marie Pigneur, University of Namur

- **1:50 PM**
  - The Key to Being a Successful Invader? Be Asexual!! The Case of *Corbicula Clams*
    Emilie Etoaudi, Lise-Marie Pigneur, Jonathan Marescaux and Karine Van Doninck, University of Namur; Nina Yasuda, University of Miyazaki; David Aldridge, Cambridge University

- **2:10 PM**
  - An Examination of the Potential Vectors and Pathways of Spread for *Corbicula fluminea* in Ireland
    Rory Sheehan and Frances Lucy, Institute of Technology Sligo; Joseph M. Caffrey, Inland Fisheries Ireland

- **2:30 PM**
  - Factors Affecting the Distribution, Abundance and Condition of an Aquatic Invader (*Corbicula fluminea*) along a Thermal Gradient
    Rowshyra Castaneda and Anthony Ricciardi, McGill University; Anouk Simard, Ministère des Ressources naturelles et de la Faune

- **2:50 PM**
  - Progression of Asian Clam (*Corbicula fluminea*) in the St. Lawrence River: Is the Species Restricted to the Thermal Plume of Gentilly Nuclear Station
    Anouk Simard, Rémi Bacon, Rowshyra Castaneda, Kayla Hamel, Annie Paquet, Sophie Plante and Anthony Ricciardi, 1 Ministère du Développement durable de l’Environnement de la Faune et des Parcs (MDDEFP); 2 Ministère des Ressources naturelles, Trois-Rivières; 3 Université McGill, Montréal
Wednesday, April 24, Afternoon

**Session A-9: Strategy Room 1**

**Live Bait Pathway III**

3:40 PM

**Bait Worm Packaging as a Conduit for Organism Introductions: Research and Outreach Lead to Policy Considerations**

Nancy Balcom, Connecticut Sea Grant/University of Connecticut; Charles Yarish, Senjie Lin, Senjie Lin, Robert Whittlatch, Moreen Blaschik and Huan Zhang, University of Connecticut; Christina Haska, Great Lakes Fishery Commission; George Kraemer, Purchase College

4:00 PM

**Preventing AIS Introductions through Vector Management: The Value of Connections**

Jenny Allen and Fredrika Moser Maryland Sea Grant; John Ewart, Delaware Sea Grant; Sara Mirabilio, North Carolina Sea Grant; Susan Park, Virginia Sea Grant; Peter Rowe, New Jersey Sea Grant; Sarah Whitney, Pennsylvania Sea Grant

4:20 PM

**Harvest to Hook: An Anthropological Look at the Worm Weed Vector for Aquatic Invasive Species**

Jeremy Trombley, University of Maryland College Park

4:40 PM

**Importation of Baitworms and their Live Algal Packing Materials to the Mid-Atlantic: Vector Characterization and Management**

Amy Fowler, Villanova University; Fredrika Moser, Maryland Sea Grant; April Blakeslee, Long Island University; Joao Canning-Clode, University of Lisbon; A. Whitman Miller and Gregory Ruiz, Smithsonian Environmental Research Center

5:00 PM

**Importation of Baitworms and their Live Algal Packing Materials to the Mid-Atlantic: Experimental Treatment of Algae to Reduce Live Hitchhikers**

April Blakeslee, Smithsonian Environmental Research Center and Long Island University; Amy Fowler, Smithsonian Environmental Research Center and Villanova University; A. Whitman Miller, Smithsonian Environmental Research Center; Fredrika Moser, Maryland Sea Grant College; Joao Canning-Clode, Smithsonian Environmental Research Center and University of Lisbon; Gregory Ruiz, Smithsonian Environmental Research Center

**Session B-9: Strategy Room 2**

**Dreissenid Control III**

3:40 PM

**Evaluation of New Coating Technologies for Mitigation of Zebra/Quagga Mussel Colonization – An Update**

David Tordonato, Allen Skuja and Bobbi Jo Merten, Bureau of Reclamation

4:00 PM

**Zebra Mussel Control Using Zequanox® in an Irish Waterway**

Sara Meehan and Frances Lucy, Institute of Technology Sligo; Bridget Gruber, Marrone Bio Innovations

4:20 PM

**Zequanox® Demonstration Trials at DeCew II Generating Station at Ontario Power Generation to Control Dreissenid Mussels**

Tony Van Oostrom, Ontario Power Generation; Sarahann Raki! Bridget Gruber and Carolyn Link Marrone Bio Innovations; Kelly Murray, ASI Group

4:40 PM

**Strategies for Controlling Invasive Zebra and Quagga Mussels in Open Water Bodies**

Dave Roberts and Megan Weber, Marrone Bio Innovations

5:00 PM

**Effectiveness of an Algaecide for Killing Invasive Quagga Mussels and Preventing their Colonization**

David W.H. Wong, Ashlie Watters and Shawn Gerstenberger, University of Nevada Las Vegas

5:20 PM

**Taking No Prisoners: Beating Back Invasive Species**

Leonard Willett, Bureau of Reclamation

**Session C-9: Strategy Room 3**

**Aquatic Plants III**

3:40 PM

**Establishing Research and Management Priorities for Monoecious Hydrla as it Invades Northern Tier States**

Michael Netherland, U.S. Army Engineer Research and Development Center; Mike Greer, U.S. Army Corps of Engineers Buffalo District

4:00 PM

**The Distribution and History of Myriophyllum spicatum L. (Haloragaceae) in Southern Africa, with Reference to Potential Origins, Modes of Introduction and Spread**

Philip Weyl and Julie Coetze, Rhodes University

4:20 PM

**Range and Survival of Two Alien Macrophytes (Eichhornia Crassipes and Pistia Stratiotes) in the Great Lakes**

Amanda Eyraud and Hugh MacIsaac, University of Windsor, Great Lakes Institute for Environmental Research

4:40 PM

**Linking Native and Exotic Aquatic Plant Palatability to Herbivores with Shared or Unshared Home Ranges: A Trait-Based Approach**

Bart M. Grutters and Elisabeth S. Bakker, Netherlands Institute of Ecology, Department of Aquatic Ecology

5:00 PM

**Effects of Supplemental Stocking of Milfoil Weevils (Euhrychiopsis lecontei Dietz) on Eurasian Watermilfoil (Myriophyllum spicatum L.) Density in a Heavily Infested Lake**

Paul M. Skawinski and Ronald Crunkilton, University of Wisconsin - Stevens Point, College of Natural Resources

**Session D-9: Strategy Room 5/6**

**Early Detection and Monitoring IV**

3:40 PM

**Invasive Species Surveillance of the Great Lakes Basin Commercial Bait Trade Using Environmental DNA Surveillance**

Lucas Nathan and Andrew Mahon, Central Michigan University; Michelle Budny and Christopher Jerde, University of Notre Dame

4:00 PM

**DNA Shedding Rates of Asian Carp, for Use in Understanding Field Collections of eDNA**


4:20 PM

**A Real-Time PCR Assay with Internal Controls to Detect and Quantify the Fish Viral Hemorrhagic Septicemia Virus (VHSV): Conversion from StaRT-PCR to Detect and Quantify the Fish Viral Hemorrhagic Septicemia Virus (VHSV): Conversion from StaRT-PCR to Detect and Quantify the Fish Viral Hemorrhagic Septicemia Virus (VHSV): Conversion from StaRT-PCR**

Vrushalee Palsule, Lindsey Pierre, Jiyoun Yeo, Erin Crawford, James Willey and Carol Stephens, University of Toledo

4:40 PM

**First Discovery of Golden Star Tunicate in Conception Bay, Newfoundland and a Case Study Mitigation Attempt to Control its Spread**

Terri Wells, Cynthia McKenzie, Brooks Pilgrim, Henry Ca ley and Ann Marie Tucker, Fisheries and Oceans Canada; Don Deibel, Ben Lowen, Bob O’Donnell, Mark O’Flaherty and Andrew Perry, Memorial University of Newfoundland; Trevor Lewis, Fuxtrap Marina Harbour Authority

5:00 PM

**Early Warning Program to Manage the Introduction and Spread of Invasive Species in the Wadden Sea, a World Heritage Protected Ecosystem**


5:20 PM

**Early Warning Program to Manage the Introduction and Spread of Invasive Species in the Wadden Sea, a World Heritage Protected Ecosystem**

Thursday, April 25, Morning

Plenary Session: Great Room B/C

8:30 AM
Invited Keynote Presentation
Pathways for Introduction of Alien Invasive Species Exclusive of International Shipping: A Canadian Experience
Hugh I. MacIsaac, Professor, University of Windsor, Great Lakes Institute for Environmental Research and Director, NSERC Canadian Aquatic Invasive Species Network II

9:15 AM
Conference Synthesis
Robert G. Lambe, Conference Chair and Executive Director, Invasive Species Centre

9:30 AM
Networking Break

Session A-10: Strategy Room 1

AIS Control

9:50 AM
Pilot Project to Eradicate Invasive Alien Smallmouth Bass Using a Piscicide from a Conservation Priority River in South Africa: Rationale, River Treatment and Way Forward
Johannes Adriaan van der Walt and Ben van Staden, CapeNature

10:10 AM
Biological Control of Golden Apple Snail by Black Carp in a Freshwater Wetland
Kevin K.L. Ip and Qiu Jian Wen, Hong Kong Baptist University

10:30 AM
Management of Alien Invasive Algae in Kanehoe Bay, Oahu through the Use of Mechanical Removal and Bio-control Efforts
Jonathan Blodgett and Frank Mancini, Hawaii Department of Land & Natural Resources, Division of Aquatic Resources

10:50 AM
Reproductive Sterility as a Tool for Prevention and Control of Aquatic Invasive Species
John Teem, Florida Department of Agriculture and Consumer Services

11:10 AM
Developing a Theoretical and Experimental Framework for the Trojan Y Chromosome Eradication Strategy
John Teem, Florida Department of Agriculture and Consumer Services; Juan Gutierrez, University of Georgia

11:30 AM
Integrated Pest Management of the Common Carp in the American Midwest
Peter Sorensen and Przemek Bajer, University of Minnesota

11:50 AM
Invasive Species Fouling and Industrial Cooling Water Systems
Samjew Rajooppal1, Jeroen M. Jansen2, Gerard van der Velde1, ‘Radboud University Nijmegen, Institute for Wetland and Water Research, Department of Animal Ecology and Ecophysiology; ‘Wageningen University, Institute for Marine Resources and Ecosystem Studies (IMARES)

Session B-10: Strategy Room 2

Other Pathways

9:50 AM
Non-Indigenous Species Transported on Tsunami Marine Debris: Learning and Informing Response to a Natural Disaster Driven Invasive Species Pathway of Emerging Concern
Samuel Chan, Oregon State University

10:10 AM
Are Anglers and Kayakers Acting as Vectors for Alien Invasive Species in UK Freshwaters?
Lucy Anderson1, Piran White1, Paul Stebbing1, Grant Stentiford2, Alison Dunn3, ‘University of Leeds; 2Centre for Environment, Fisheries & Aquaculture Science; 3University of York

10:30 AM
Evaluating the Risk of Direct Movement of Fishes through the Welland Canal
Jaewoo Kim and Nicholas Dorenbosch, Netherlands Institute of Ecology, Department of Aquatic Ecology (NIOO-KNAW)

10:50 AM
Fish Behavior and Abundance at the Electric Dispersal Barrier in the Chicago Sanitary and Ship Canal, Illinois, USA
Aaron Parker, P. Bradley Rogers, Jeffrey Stewart, Samuel Finney and Robert Simmonds Jr., U.S. Fish & Wildlife Service

11:10 AM
Restoring the Natural Divide: Separating the Great Lakes and Mississippi River Basins in the Chicago Area Waterway System
Erika Jensen and Tim Eder, Great Lakes Commission; Dave Ullrich, Great Lakes and St. Lawrence Cities Initiative

11:30 AM
Addressing the Champlain Canal as a Vector of AIS
Margaret Modley, Lake Champlain Basin Program

11:50 AM
Examination of Asian Swamp Eels (Synbranchidae: Monopterus spp.) from Ethnic Food Markets in Florida, Georgia, New York and Four Wild Populations in New Jersey and Florida, for the Presence of Zoonotic Advanced L3 of Gnathostoma spp. (Nematoda)
Rebecca, Coke and Kathryn Griffin, U.S. Geological Survey; National Wildlife Health Center; Leo Nico, U.S. Geological Survey, Southeast Ecological Science Center; Aninda Choudhury, St. Norbert College

Session C-10: Strategy Room 5/6

Crustaceans IV

9:50 AM
Interaction of a Chemical Stress and a Predation Risk on the Behaviour of Two Prolific Species: The ‘Killer Shrimp’ Dikerogammarus villosus and the Naturalised Amphipod Gammarus roeseli
Jean-Nicolas Beisel, Eric Gomond, Pascal Sornom and Céline Véllinger, Université de Lorraine, Laboratoire Interdisciplinaire des Environnements Continentaux (LIEC)

10:10 AM
Loss of Pathogens in an Island Population of the Killer Shrimp Dikerogammarus villosus
Grant D. Stentiford and Kelly S. Bateman, European Union Reference Laboratory for Crustacean Diseases and Centre for Environment, Fisheries and Aquaculture Science (CEHAS); Jamie Buja, CEHAS and University of Leeds; Paul Stebbing, CEHAS; James Meatsyard, Anglian Water Central Laboratory, Biology Department; Karolina Baczela-Szychalicka, University of Lódz, Department of Invertebrate Zoology & Hydrobiology; Alison M. Dunn, University of Leeds, Faculty of Biological Sciences

10:30 AM
Impact of Invasive Crayfish on Macrophytes: Are Some Species Worse than Others?
Elisabeth S. Bakker and Martijn Dorenbosch, Netherlands Institute of Ecology, Department of Aquatic Ecology (NIOO-KNAW)

Session D-10: Strategy Room 3

Shipping Pathways IV

9:50 AM
Third Prototype Shipboard Filter Skid (p3SFS): Results of Shipboard Installation and Testing
Timothy Wier, U.S. Naval Research Laboratory-Exet Incorporated; Cameron Moser and Lisa Drake, U.S. Naval Research Laboratory; Jonathan Grant, Battelle Technologies, Inc.; Matthew First, Stephanie Robbins-Wamsley and Scott Riley, SAIC, Inc.

10:10 AM
Life after Treatment: Detecting Viable, Aquatic Microorganisms following Exposure to UV Light and Chlorine Dioxide
Matthew First, Stephanie Robbins-Wamsley and Scott Riley, SAIC, Inc.; Lisa Drake, U.S. Naval Research Laboratory

10:30 AM
What is the Uncertainty Associated with the Measurements of Living Organisms’ Concentrations at Ballast Water Test Facilities?
Lisa Drake, U.S. Naval Research Laboratory; Matthew First, Stephanie Robbins-Wamsley and Scott Riley, SAIC, Inc.; Evan Parson, Vision Point Systems

10:50 AM
The ‘Sample Port Calculator’: A Design and Analysis Tool for Ballast Water Sampling Ports
Jonathan Grant, Battelle Technologies, Inc.; Cameron Moser and Lisa Drake, U.S. Naval Research Laboratory; Timothy Wier, U.S. Naval Research Laboratory-Exet Incorporated
The North American Invasive Species Network (NAISN) is hosting this workshop. Pre-registration is required. Complete the registration form on the ICAIS website or contact the Conference Administrator by telephone or email.

1:30 pm to 5:00 pm
This workshop will be conducted by Mr. Tony Pernas, Co-Chair, Everglades Cooperative Invasive Species Management Area (ECISMA) and Coordinator, U.S. National Park Service. ECISMA was awarded the U.S. Department of Interior’s 2012 Partners in Conservation Award for outstanding conservation achievements attained through collaboration and partnership with others. ECISMA has over 200 partners that tackle tough invasive species issues such as multiple public landowners with different management mandates and missions and a large diverse invasive species flora and fauna. Additional speakers may also present information at this workshop.

Topics to be discussed include:

- How to choose an initial leader or champion
- The importance of establishing trust, finding common ground
- Building support, developing an agreement
- The importance of a steering committee
- Developing an overall strategic plan
- Why communication is critical to success
- Developing successful education and outreach efforts
- Why cooperative work projects help erase bureaucratic barriers and foster team building
- Sharing resources in a multi-jurisdictional environment
Registration Form

Please complete this form, enclose payment in full by cheque in $CAD funds, payable to ICAIS, and mail to:

18th ICAIS  
Conference Administrator  
1027 Pembroke Street East, Suite 200  
Pembroke ON K8A 3M4 Canada  
You may also pay by Visa or MasterCard by completing the credit card payment information indicated below and faxing to 613-732-3386.

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Dietary Restrictions or Special Accommodations

Privacy Policy: Please indicate by checking the appropriate box to confirm whether or not you accept to have your name, organization and e-mail address included in the Conference Participants list that will be provided to all participants.

- Yes
- No

Registration Fees

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NAISN CISMAS Workshop (Thursday 1:30-5:00 pm)  
- No charge but pre-registration is required

Accredited Media  
- No charge but pre-registration and proof of accreditation is required

Contact the Conference Administrator for details: Elizabeth@theprofessionaledge.com

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

Refund Policy: Registration fees are refundable, less a $50 administration fee, provided that written notification of cancellation is provided to the Conference Administrator by March 16, 2013. Refunds will not be issued until after the conference.

Total $