



**SETAC North Atlantic Chapter
2010 ANNUAL MEETING AGENDA
June 2 - 4, 2010
Village Inn Resort, Narragansett, RI**

WEDNESDAY, JUNE 2

All day short course, 8:00AM - 5:00PM

“Introduction to Green Chemistry.” Instructors: Nicholas Anastas (Poseidon's Trident), Wei Zhang (UMass Boston), Bela Torok (UMass Boston), and Michael Viola (Warner Babcock Institute for Green Chemistry).

THURSDAY, JUNE 3

7:30 Coffee and continental breakfast

8:00 Welcome, Jim Hauri, NAC president

8:15 Welcome, SETAC North America, Greg Schiefer, President

8:30 SESSION 1

ENVIRONMENTAL CHEMISTRY (Tim Verslycke, Session Chair)

8:35 **A RETURN TO HOLISTIC ENVIRONMENTAL STEWARDSHIP THROUGH GREEN CHEMISTRY.** Nicholas Anastas (nanastas@poseidonstrident.net), Poseidon's Trident, 83 Sassamon Avenue, Milton, MA 02186

8:55 **A SIMPLE DEVICE FOR CONTROLLING pH IN AQUEOUS SOLUTIONS FOR TOXICITY EVALUATIONS.** John Williams (jwilliams@aquatecb.com), P.C. Downey, J. Garrison, K. Koch, O. Kunkel, Aquatec Biological Sciences, Inc., 273 Commerce Street, Williston, VT 05495

9:15 (student) **FLUORESCENCE SPECTROSCOPY AS A RAPID, COST-EFFECTIVE METHOD TO MONITOR AND ANALYZE LOW LEVELS OF PHARMACEUTICALS AND PERSONAL CARE PRODUCTS IN ENVIRONMENTAL WATER SAMPLES.** James Killarney (james_killarney@umit.maine.edu), H. Patterson, Department of Chemistry, University of Maine, Orono, ME 04469

9:35 (student) **USING LASER ABLATION ICP-MS TO UNDERSTAND MOOSE WITH BAD TEETH.** Cynthia S. Kendall MacKenzie (cynthia.kendall@smu.ca) and Hugh Broders. Saint Mary's University, Halifax, NS, Canada B3H 3C3

9:55 **BREAK**

10:15 SESSION 2

LOCAL ISSUES IN RHODE ISLAND (Dave Taylor, Session Chair)

10:20 **SPATIAL DISTRIBUTION OF TRICLOSAN IN A SEMI-ENCLOSED ESTUARINE EMBAYMENT; GREENWICH BAY, RHODE ISLAND.** David Katz (katz.david@epa.gov), M. Cantwell, M. Perron, R. Burgess, and K. Ho. U.S. Environmental Protection Agency, Narragansett, RI, 02882.

10:40 **INDICATORS OF ENVIRONMENTAL AND BIOLOGICAL MERCURY CONTAMINATION IN THE NARRAGANSETT BAY (RHODE ISLAND, USA).** David L. Taylor (dtaylor@rwu.edu) and Jennifer Linehan, Roger Williams University, Department of Marine Biology, Bristol, RI, 02809.

11:00 **LOBSTERS AS AN ECOTOXICOLOGICAL RESEARCH MODEL IN NEW ENGLAND COASTAL WATERS.** Tim Verslycke (tverslycke@gradientcorp.com) Gradient, 20 University Road, Cambridge, MA 02138 and Ann M. Tarrant (atarrant@whoi.edu) Biology Department, Woods Hole Oceanographic Institution, 45 Water Street, Woods Hole. MA 02543

11:20 **CAREERS IN ENVIRONMENTAL SCIENCES: VIEWPOINTS FROM ACADEMIA, GOVERNMENT, CONSULTING**

12:00 – 1:25 **LUNCHEON & CAREER SPEED DATING** (Included)

1:25 SESSION 3

CONTAMINATED SEDIMENTS. (John Williams, Session Chair)

1:30 **EFFECTS OF TRICLOSAN ON MARINE BENTHIC AND EPIBENTHIC ORGANISMS**
M.M. Perron (Monique_Perron@brown.edu), Brown University, Providence, RI, 02912; K.T. Ho, M.G. Cantwell, R.M. Burgess, M.C. Pelletier, D.R. Katz, U.S. EPA AED, Narragansett, RI, 02882.

1:50 (student) **BLACK CARBON-MEDIATED DESTRUCTION OF NITROGLYCERIN AND RDX BY HYDROGEN SULFIDE: RELEVANCE TO INSITU REMEDIATION.** W. Xu (wenqing.xu@yale.edu), K. E. Dana, and W. A. Mitch, Department of Chemical Engineering, Environmental Engineering Program, Yale University, New Haven, CT 06520

2:10 **SEASONAL PHOSPHORUS DYNAMICS IN THE SURFICIAL SEDIMENT OF SHALLOW TEMPERATE LAKES: A DIFFUSIVE EQUILIBRIUM STUDY.** B.A. Lake (bjorn.lake@umit.maine.edu), S.A. Norton, and A. Amirbahman, University of Maine, Orono, ME, 04469

2:30 **INITIAL RESULTS OF TWO FIELD DEMONSTRATIONS USING SEDIMITE.™** B. Amos (bamos@exponent.com), C. Menzie, & Susan Kane Driscoll, Exponent, Inc., Maynard MA; U. Ghosh, C. Cardona & S. Kwon, University of Maryland Baltimore County, Baltimore MD; and C. Gilmour, Smithsonian Environmental Research Center, Edgewater, MD.

2:50 **NAC SETAC Business Meeting**

3:10 **BREAK**

3:30 **POSTER PREVIEW OVERVIEWS**

4:00 SESSION 4

ENERGY AND ENVIRONMENT (Jimmy Hauri, Session Chair)

4:05 **OIL SPILL INJURY ASSESSMENT - SOME LESSON LEARNED.** David S. Page (dpage@bowdoin.edu), Bowdoin College, 29 Magean Street, Brunswick, ME 04011

4:25 (student) **ENVIRONMENTAL PERFORMANCES OF CONVENTIONAL GASOLINE AND WOOD-BASED BIOETHANOL IN U.S. NORTHEAST REGION THROUGH LIFE CYCLE ASSESSMENT.** Binod Neupane and A. Halog.

4:45 **A NEW MODEL FOR INVASIVE SPECIES: URINALMINTUS.** Walter J. Berry (berry.walter@epa.gov) U.S. EPA, Atlantic Ecology Division, Narragansett, RI 02882

5:05 **ADJOURN**

5:05 – 7:00 **POSTER SESSION AND RECEPTION** (cash bar)
7:00 – 9:00 **BANQUET**, followed by KEYNOTE SPEAKER, **DR. JON C. BOOTHROYD**
9:00 – 11:00 **NAC SETAC JAM Session** (cash bar)

POSTER SESSION

(student) **A VISUAL DOCUMENTATION OF ACUTE TOXICITY IN ZOOPLANKTON.** K. Cushing, Kathryn Frazier (kafrazier@assumption.edu), and J. Hauri, Assumption College, Worcester, MA.

(student) **USING FISH SCALES AS NON-LETHAL BIOSENSORS OF SURFACE WATER CONTAMINANTS.** Daniel G. Skall (Daniel.Skall@umit.maine.edu), University of Maine, Orono, ME 04469; and A.A. Elskus, U.S. Geological Survey, Aquatic Toxicology Section, Orono, ME.

(student) **SYNERGISM AND ANTAGONISM IN TOXICITY OF MIXTURES OF PHARMACEUTICALS TO *DAPHNIA MAGNA*.** Pooja Shakya (pooja.shakya@trincoll.edu), Richard S. Kim and Alison J. Draper, Environmental Science Program, Trinity College, Hartford, CT.

U.S. EPA WILDLIFE DATABASE: A PUBLIC RESOURCE FOR ENVIRONMENTAL QUALITY INFORMATION. Melissa Hughes^a (hughes.melissa@epa.gov), David Bender^a, Jane Copeland^b, Marguerite Pelletier^c, Anne Kuhn^c, and Diane Nacci^c. ^aRaytheon Corporation and ^bSRA International, on contract to US EPA, Narragansett, RI 02882; ^cU.S. Environmental Protection Agency, Narragansett, RI.

(student) **MERCURY ACCUMULATION IN BRAIN AND MUSCLE TISSUES OF BLUEFISH (*POMATOMUS SALTATRIX*) AND TAUTOG (*TAUTOGA ONITIS*).** Nichole L. Ares and David L. Taylor (dtaylor@rwu.edu), Roger Williams University, Department of Marine Biology, Bristol RI.

(student) **DEVELOPMENTAL EXPRESSION OF AHR IN THE LITTLE SKATE.** Daniel Reeves (dreevite@gmail.com) and R. Merson, Biology Department, Rhode Island College, 600 Mt. Pleasant Ave, Providence, RI.

CYTOCHROME P450 2AA GENES IN ZEBRAFISH (*DANIO RERIO*): EXPRESSION OF CYP2AA1 AND CYP2AA2 IN RESPONSE TO PHENOBARBITAL-TYPE INDUCERS. Akira Kubota (akubota@whoi.edu)¹, ACD Bairy^{1,2}, BR Woodin¹, JV Goldstone¹, JJ Stegeman¹, ¹Biology Department, Woods Hole Oceanographic Institution, Woods Hole, MA; and ²Departamento de Bioquímica, Universidade Federal de Santa Catarina, Florianopolis, Brazil.

(student) **OCCURRENCE AND TRANSPORT OF PBDE, TRICLOSAN, AND ALKYLPHENOLS IN AN URBAN ESTUARY DETERMINED USING PE PASSIVE SAMPLERS.** Victoria P. Sacks (vpsacks@gso.uri.edu) and R. Lohmann. University of Rhode Island Graduate School of Oceanography, Narragansett, RI.

(student) **FOOD CONTAMINATION: ANALYSIS FOR MERCURY AND COCKROACH ANTIGEN IN FOODS.** Richard S. Kim (richard.kim@trincoll.edu) and Alison J. Draper. Interdisciplinary Science Program, Trinity College, Hartford CT.

EVALUATION OF BIOGEOCHEMICAL VARIABLES AFFECTING DISTRIBUTIONS OF MULTIPLE METAL ION CONCENTRATIONS IN BOSTON HARBOR. Z.Dong (zdong@hsph.harvard.edu), C.G.Lewis, R.M.Burgess, B.Coull, J.P.Shine. Exposure,

Epidemiology and Risk Program, Department of Environmental Health, Harvard School of Public Health, 401 Park Drive, Boston, MA.

INDUCTION OF CYP1 GENES AND EFFECTS OF AHR AGONISTS IN XENOPUS

TROPICALIS TADPOLES. Maria Jönsson (maria.jonsson@ebc.uu.se), Cecilia Berg, Environmental Toxicology, Uppsala University, Uppsala, Sweden; Jared Goldstone, John Stegeman, Biology Department, Woods Hole Oceanographic Institution, Woods Hole, MA.

SETAC NORTH AMERICA 32ND ANNUAL MEETING, BOSTON, MA, NOVEMBER, 2011.

Diane Nacci (nacci.diane@epa.gov), U.S. Environmental Protection Agency, Narragansett, RI, and Erin Bennett, Bioengineering Group.

THE ENCYCLOPEDIA OF EARTH (EoE). Emily Monosson (emonosson@verizon.net)

PO Box 329, Montague MA.

(unmanned poster) **ASSESSING THE IMPACT OF LONG-TERM MERCURY CONTAMINATION ON WILDLIFE HEALTH IN NEW YORK, USING THE COMMON LOON AS SENTINAL SPECIES.** Nina Schoch (aclp2@juno.com), BioDiversity Research Institute's Adirondack Center for Loon Conservation; David Evers, BioDiversity Research Institute; Keith Grasman, Calvin College; and Stephanie James & Paul Calle, Wildlife Conservation Society's Global Health Program.

KEYNOTE ADDRESS

"UNDERSTANDING COASTAL GEOLOGIC HAZARDS, SEA LEVEL RISE AND CLIMATE CHANGE IN RHODE ISLAND." Dr. Jon C. Boothroyd, Department of Geosciences, University of Rhode Island.

FRIDAY, JUNE 4

8:00 Coffee and continental breakfast

8:30 SESSION 5

ENVIRONMENTAL TOXICOLOGY (Allison Dunn, Session Chair)

8:35 (student) **TOXICITY OF DEICING SALT COMPONENTS ON EARLY AMPHIBIAN LIFE STAGES.** S. E. J. Collins (sara.collins@smu.ca) and R. W. Russell, Saint Mary's University, Halifax, Nova Scotia, Canada.

8:55 **BEYOND THE HAZARD QUOTIENT: CASE STUDY OF RISK ASSESSMENT FOR PENINSULA HARBOUR FISH EXPOSED TO MERCURY.** R. Osborn (rosborn@environcorp.com), M.H. Henning, M. Bock, ENVIRON International Corporation, Portland, ME

9:15 **TOXICOLOGICAL IMPLICATIONS OF OCEAN ACIDIFICATION ON MARINE BIVALVES, BASED ON FREE METAL ION ACTIVITY MODELING.** William E. Robinson (William.Robinson@umb.edu) and Marianna Nappi, University of Massachusetts Boston, Environmental, Earth and Ocean Sciences Department, Boston MA

9:35 **EVOLUTION OF THE TOXIC RESPONSE.** Emily Monosson (emonosson@verizon.net) PO Box 329, Montague MA 01351

9:55 **BREAK**

10:15 SESSION 6

OTHER TOPICS IN ENVIRONMENTAL TOXICOLOGY AND CHEMISTRY (Peg Pelletier, Session Chair)

10:20 **POPULATION-LEVEL EXPERIMENTS FOR POPULATION-LEVEL RISK ASSESSMENT: AN EXAMPLE USING THE OPOSSUM SHRIMP *AMERICAMYSIS BAHIA*.** J.S. Gear (gear.jason@epa.gov), D. Borsay Horowitz and R. Gutjahr-Gobell, U.S. EPA, Atlantic Ecology Division, Narragansett, RI 02882

10:40 **ECOSYSTEM SERVICES – AN EMERGING DIRECTION FOR THE U.S. EPA.** Walter J. Berry (berry.walter@epa.gov) and W.R. Munns, Jr., U.S. EPA, Atlantic Ecology Division, Narragansett, RI 02882

11:00 **GULF OIL CRISIS.** Jack Barclay (j.barclay@att.net), University of Connecticut, NRME Wild Conservation Research Center, 1376 Storrs Road, U-87, Storrs, CT.

11:20 **SETAC NA**

11:35 **NAC SETAC Student Awards**

12:05 **ADJOURN MEETING**

1:00 **NAC SETAC Board Luncheon Meeting**

UPCOMING NACSETAC EVENTS

September 30, 2010

STATISTICS FOR ENVIRONMENTAL SCIENTISTS SHORT COURSE

Doyle Conservation Center
464 Abbott Avenue
Leominster MA 01453

June 8-10, 2011

17TH NACSETAC ANNUAL MEETING & SHORT COURSE

Hilton Garden Inn Freeport
5 Park Street
Freeport, ME 04032



November 7-11, 2010

SETAC NORTH AMERICA 31ST ANNUAL MEETING

Oregon Convention Center
Portland, Oregon