

AGENDA
NAC SETAC MEETING
June 11-12, 2015

Hilton Garden Inn Freeport, Maine

THURSDAY JUNE 11

- 7:15 **CONTINENTAL BREAKFAST & REGISTRATION**, Eagle Room Foyer
- 8:15 **NACSETAC WELCOME**, Eagle Room
- 8:30 **MORNING PLENARY**, Moderator: Tim Verslycke
David Ropeik "THE RISK PERCEPTION GAP. WHY WE WORRY TOO MUCH, OR TOO LITTLE AND THE RISK OF GETTING RISK WRONG"
- 9:15 **SESSION 1: ELUCIDATING THE MEANING OF "RISK" TO THE PUBLIC AND POLICY MAKERS.**
Chair: David Page
1. Peter K. LaGoy, "RISK ASSESSMENT TO RESTRICT REMEDIATION – A CASE STUDY OF A MASSACHUSETT OPEN SPACE PARCEL."
 2. Lisa M. McIntosh, "WAITING TO INHALE: CASE STUDIES IN RISK PERCEPTION AND COMMUNICATION AT VAPOR INTRUSION SITES."
 3. Tim Verslycke, "HAZARD *VERSUS* RISK ASSESSMENT OF ENDOCRINE DISRUPTORS."
- 10:15 **COFFEE BREAK**, Eagle Room Foyer
- 10:35 **SESSION 2: RESEARCH TRANSLATION AND COMMUNITY ENGAGEMENT.** Chair: Celia Chen
1. Laurie R. Rardin, "CASE STUDY: ARSENIC IN PRIVATE WELLS IN NEW HAMPSHIRE: THE CHALLENGES OF COMMUNICATING AND TRANSLATING RISK AND RESEARCH TO LOCAL COMMUNITIES."
 2. Marcella R. Thompson, "THE ROLE OF THE KNOWLEDGE BROKER IN BUILDING COMMUNITY CAPACITY BY USING GIS TECHNOLOGY TO INFORM ENVIRONMENTAL HEALTH POLICY: A CASE STUDY INVOLVING USEPA'S DECISION-MAKING PROCESS OF REMEDY SELECTION AT A SUPERFUND HAZARDOUS WASTE SITE."
 3. Sarah J. Nelson, "THE DRAGONFLY MERCURY PROJECT: CITIZEN SCIENTISTS CONTRIBUTE TO NATIONAL-SCALE RESEARCH IN NATIONAL PARKS."
- 11:50 **SETAC NORTH AMERICA EVENTS AND MEMBERSHIP.** Jennifer Lynch, SETAC NA Representative
- 12:00 **LUNCH**, The Garden Grille and Bar
- 1:15 **KEYNOTE**, Eagle Room, Moderator: Deena Small
Jennifer Marlon, "CLIMATE CHANGE IN THE AMERICAN MIND"
- 2:00 **SESSION 3: STUDENT CONTRIBUTIONS TO ENVIRONMENTAL CHEMISTRY AND TOXICOLOGY.**
Chair: Emily Monosson
- *1. Lydia-Rose Kesich, "ACTIVATION OF THE ARYL HYDROCARBON RECEPTOR BY CRUDE OIL-DERIVED PAHS NEGATIVELY IMPACTS NEURAL CREST DEVELOPMENT IN ZEBRAFISH".
 - *2. Christopher Goodchild, "IS CELLULAR ENERGY REGULATION LINKED TO BURROWING BEHAVIOR IN A FRESHWATER MUSSEL EXPOSED TO TRICLOSAN?"
 - *3. Beruk A. Kiros, "PRINCIPLES OF DESIGNING *IN VITRO* ASSAYS TO PREDICT *IN VIVO* EFFECTS OF CHEMICALS ON THYROID HORMONE ACTION."
 - *4. Kimberly Rain Miner, "RELEASE OF LEGACY PERSISTENT ORGANIC POLLUTANTS (POPS) IN GLACIAL OUTFLOWS AND MITIGATING THEIR EFFECT ON DOWNSTREAM COMMUNITIES."
- 3:20 **COFFEE BREAK**, Eagle Room Foyer
- 3:40 **SESSION 4: CONTAMINANTS IN SEDIMENTS AND SOILS.** Chair: Jim Occhialini
1. Janet Robinson, "DEVELOPMENT OF ECOLOGICAL SEDIMENT CLEANUP VALUES USING STATISTICALLY-SELECTED SEDIMENT QUALITY GUIDELINE QUOTIENTS."
 2. Ned Beecher, "BIOSOLIDS AND SOIL – REMARKABLE MEDIA FOR MANAGING TRACE ORGANIC CHEMICALS OF POTENTIAL ENVIRONMENTAL CONCERN."
 3. Kenneth Finkelstein, "BENTHIC INJURY DOSE-RESPONSE MODELS FOR PCB-CONTAMINATED SEDIMENT."
 4. Dion Lewis, "ENVIRONMENTAL ASPECTS OF CURRENT DRILLING FLUID FORMULATIONS."

- 5:00 **POSTER SOCIAL AND RAFFLE (w/cash bar)**, Eagle Room
 6:30 **BANQUET**, Jewell Room
 8:30 **NACSETAC JAM SESSION**, Monhegan Room

POSTER SESSION

1. **THIS IS SPINAL FRACK: AN INVESTIGATION OF HYDRAULIC FRACTURING'S IMPACT ON EMBRYOGENESIS.** *Katrina Anderson (kganderson@smith.edu), Charlotte Barber, Lisa Utzig, Lydia-Rose Kesich, Caitlin Schneider, Marc Anderson and Michael Barresi.
2. **FUELING ENDOCRINE DISRUPTION: A STUDY OF THE WATERWAYS NEAR HYDRAULIC FRACTURING IN MARCELLUS SHALE, PA.** Aditi Balasubramanian, *Tara Bhat (tbhat@smith.edu), Maya Salvio (msalvio@smith.edu), Lydia-Rose Kesich, Caitlin Schneider, Marc Anderson and Michael Barresi.
3. **A TAIL OF TERATOGENESIS: THE EFFECT OF HYDRAULIC FRACTURING ON NEARBY WATERWAYS.** *Stephanie Capsuto (scapsuto@smith.edu), Vivian Morris (vmorris@smith.edu), Anisha Tyagi, Lydia-Rose Kesich, Caitlin Schneider, Marc Anderson and Michael Barresi.
4. **IS HYDRAULIC FRACTURING FRACKING YOUR BRAIN?** *Rebecca Matecha (rmatecha@smith.edu), Kalani Williams (kmwilliams@smith.edu), Athena Xia, Lydia-Rose Kesich, Caitlin Schneider, Marc Anderson and Michael Barresi.
5. **MEASURING TISSUE-SPECIFIC GLUTATHIONE UTILIZATION IN THE DEVELOPING EMBRYO.** *Sarah Brown (sarebrown@umass.edu), Karen Melendez and Alicia Timme-Laragy.
6. **DEVELOPMENT OF A COMPETITIVE ELISA TO MEASURE EE2 IN THE TISSUE OF THE MARINE MUSSEL, MYTILUS EDULIS.** *Felicia M. Woods (felicia.woods001@umb.edu), Brian J. Duphily, William E. Robinson and Helen C. Poynton.
7. **INORGANIC ARSENITE SUPPRESSES PHOSPHORYLATION OF THE KINASES SYK AND PI3K IN MAST CELLS.** *J. Shim (juyoung.shim@maine.edu), R.H. Kennedy-Smith, L.M. Weatherly, A.Velez, H.N.Hashmi and J.A. Gosse.
8. **ANTIMICROBIAL AGENT TRICLOSAN IS A MITOCHONDRIAL UNCOUPLER IN RAT AND HUMAN MAST CELLS.** *L.M. Weatherly (lisa.weatherly@maine.edu), J. Shim, R.H. Kennedy-Smith, H.N. Hashmi, K. Blais, S.E. McGillicuddy and J.A. Gosse.
9. **EVALUATING RISKS TO BENTHIC INVERTEBRATES AND FISH AT AN URBAN WATERFRONT SITE ON THE LOWER ANACOSTIA RIVER.** M. Welsch (maryann.welsch@aecom.com), B. Ruffle, H. Jones, J. Bleiler, R. Damera and Fariba Mahvi.
10. **AN ITERATIVE AND MULTIDISCIPLINARY FRAMEWORK FOR DETERMINING READ-ACROSS CHEMICAL SURROGATES.** James W. Rice (jrice@gradientcorp.com), Halle C. Ritter, Jessie M. Kneeland, Jiaru Zhang, Chase Butler and Abigail E. Noble.
11. **DEGRADATION PRODUCTS AS READ-ACROSS SURROGATES FOR HAZARD ASSESSMENT OF READILY DEGRADABLE SUBSTANCES.** Halle C. Ritter (hritter@gradientcorp.com), Daniella M. Pizzurro and Tamara D. Lunsman.
12. **DISSOLVED ORGANIC MATTER MEDIATED PHOTOLYSIS OF 17 α -ETHYNYLESTRADIOL.** *Megan M. Freiburger (mfreiburger@bowdoin.edu) and Soren Eustis.
13. **EVALUATION OF SALICYLIC ACID A PROBE FOR PHARMACEUTICAL SORPTION TO SOILS.** *A. Lopez (alopez@bowdoin.edu) and D. Vasudevan.
14. **THE ENVIRONMENTAL FATE OF AVITROL.** *J.K. Sullivan (jksulliv@bowdoin.edu) and D. Vasudevan.
15. **ASSESSMENT OF MERCURY FATE AND METHYLATION IN LOW PRODUCTIVITY SEDIMENTS.** A. Schierz (aschierz@exponent.com), Maynard, MA, J.S. Grundy, P. Bireta, L.E. Katz and D.D. Reible.

* designates student presenter

FRIDAY, JUNE 12

7:00 **CONTINENTAL BREAKFAST & REGISTRATION**, Eagle Room Foyer

8:00 **SESSION 5: METHODS IN RISK AND CHEMICAL HAZARD ASSESSMENT.** Chair: Ken Finkelstein

1. Jim Occhialini, "REVIEW OF A COMPREHENSIVE, ALTERNATE APPROACH FOR PCB CONGENER /HOMOLOG ANALYSIS."
2. Jessie M. Kneeland, THE REGULATORY FRAMEWORK FOR READ-ACROSS AND SURROGATE USE FOR HAZARD ASSESSMENT.
3. Ted Wickwire, "WHAT IS CAUSING ENVIRONMENTAL HARM? LESSONS LEARNED FROM APPLICATION OF A CAUSAL ANALYSIS APPROACH. "
4. Amy E. Nelson, "DIVING DEEPER INTO THE SCBA DATABASE: AN EVALUATION OF THE RELIABILITY OF PAH ESB TU THRESHOLDS IN PREDICTING POREWATER TOXICITY."

9:40 **COFFEE BREAK**, Eagle Room Foyer

10:00 **SESSION 6: CHEMICAL TOXICITY AND ENDOCRINE DISRUPTION.** Chair: Tim Verslycke

1. Amanda Curtis, "IMPACTS OF ELEVATED TEMPERATURE, EUROPEAN BUCKTHORN, AND THE HERBICIDE TRICLOPYR ON LITHOBATES PIPIENS TADPOLES."
2. Alicia R. Timme-Laragy, "PANCREATIC BETA CELL DEVELOPMENT AND FUNCTION ARE AFFECTED BY EXPOSURE TO PCB-126 AND OXIDATIVE STRESS IN THE ZEBRAFISH EMBRYO MODEL.
3. Courtney Carignan, "TRICLOSAN EXPOSURE AND TREATMENT OUTCOMES IN WOMEN UNDERGOING *IN VITRO* FERTILIZATION."

11:00 **STUDENT AWARDS and POSTER WINNER SHORT TALKS-** Chair: Adria Elskus

3 presenters: Best Overall Poster, Best 1st Time Presenter Poster, Best Undergraduate Poster

11:30 **NAC SETAC BUSINESS MEETING & ELECTIONS**

Nominees: See CVs on NACSETAC Website

12:00 **ADJOURN MEETING**

12:15 **NAC BOD Luncheon**, Monhegan Room

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