

**MARYLAND WATER MONITORING COUNCIL  
22<sup>nd</sup> Annual Conference - Friday, December 2, 2016**

**A RIVER RUNS THROUGH IT – STRENGTHENING NETWORKS AND CONNECTIONS**

7:30 Registration/Poster Set-up/Continental Breakfast

[Morning Plenary Session \(8:30-10:00\) in the Auditorium \(simulcast in Classroom 2\)](#)

- 8:30 **MWMC Board Chair's Call to Order** – Clark Howells; Baltimore City Department of Public Works; Chairman, MWMC Board of Directors  
 8:45 **Knowledge is the Solvent for Danger** – Wayne Gilchrest; Former US Representative from Maryland's 1<sup>st</sup> District  
 9:15 **Upstream Downstream: an Imperative Alliance** – George Hawkins; CEO and General Manager - District of Columbia Water and Sewer Authority  
 9:45 **Carl S. Weber Awards** – Sandy Hertz; Maryland Department of Transportation and Cathy Weber  
 10:00 **Break/Poster Session** – Authors Present

The Student/Professional Networking Session will be held in A-306 from 10:30 to 11:30

Only speakers are listed for oral presentations. The Conference Program contains the full list of authors and co-authors and contact information

	<b>Auditorium</b>	<b>Room A-300</b>	<b>Classroom 3</b>	<b>Room A-111/113</b>	<b>Classroom 2</b>	<b>Bridge Room</b>
<b>10:30 – 12:00</b>	<p><b>STREAM RESTORATION MONITORING RESULTS – WHAT ARE WE LEARNING?</b> - Moderator, Mark Southerland (AKRF)</p>	<p><b>SALT OF THE EARTH?: UNINTENDED CONNECTIONS BETWEEN DE-ICERS AND OUR WATER RESOURCES</b> – Moderator, Mat Pajerowski (USGS)</p>	<p><b>NUTRIENT TRADING - FROM BASEBALL CARDS TO WATER QUALITY – TRADING IS THE GAME</b> – Moderator, Jim Caldwell (Howard Co.)</p>	<p><b>CREATING RESILIENCY THROUGH NATURE: ROLES FOR GREEN INFRASTRUCTURE IN A CHANGING CLIMATE</b> – Moderator, Clark Howells (Balto. City)</p>	<p><b>AIR POLLUTION IMPACTS ON SURFACE WATERS</b> – Moderator, Lew Linker (EPA)</p>	<p><b>ADVOCACY AND OUTREACH</b> – Moderator, Tim Goodfellow (Fred. Co.)</p>
	<p><a href="#">RESTORATION RESEARCH AWARD PROGRAM</a> - Sadie Drescher (Ches. Bay Trust)</p> <p><a href="#">PERFORMANCE OF HEADWATER REGENERATIVE STREAMWATER CONVEYANCE (RSC) STRUCTURES</a> - Michael Williams (SERC)</p> <p><a href="#">TRADING NITROGEN AND PHOSPHORUS FOR ORGANIC CARBON AND HYPOXIA IN A STREAM RESTORATION</a> - Thomas Jordan (SERC)</p> <p><a href="#">STREAM AND WETLAND RESTORATION THROUGH THE LENS OF MS4 COMPLIANCE AND THE CHESAPEAKE BAY TMDL: CAN WE GET THERE WITHOUT IT?</a> – Erik Michelsen (Anne Arundel Co.)</p>	<p><a href="#">STORMWATER MANAGEMENT BASINS AS A YEAR-ROUND SOURCE FOR NA AND CL TO URBAN AND SUBURBAN STREAMS</a> - Joel Moore (Towson Univ.)</p> <p><a href="#">CONTINUOUS MONITORING OF INSTREAM TEMPERATURE AND SPECIFIC CONDUCTANCE VALUES TO REFINE CONCENTRATION AND LOAD ESTIMATES OF CHLORIDE IN AREA STREAMS</a> - Joseph Bell (USGS)</p> <p><a href="#">SODIUM, CALCIUM AND CHLORIDE REMOVAL EFFICIENCIES OF SELF-CONVERTED DRY DETENTION PONDS IN BALTIMORE COUNTY, MD</a> - Rob Owen (KCI)</p>	<p>THREE EXPERTS WILL PROVIDE THEIR PERSPECTIVE ON MARYLAND'S UPCOMING NUTRIENT TRADING PROGRAM</p> <p><a href="#">THE MARKET PERSPECTIVE</a> - Brent Fewell (Earth &amp; Water Group)</p> <p><a href="#">THE GOVERNMENT PERSPECTIVE</a> - Susan Payne (MD Dept. of Ag.)</p> <p><a href="#">THE ENVIRONMENTAL PERSPECTIVE</a> - Doug Myers (CBF)</p>	<p><a href="#">COASTAL PLANNING: MAPPING NATURAL SOLUTIONS FOR RESILIENT COASTAL COMMUNITIES</a> - Nicole Carlozo (MDNR)</p> <p><a href="#">INLAND RESILIENCY PLANNING THROUGH THE GREATER BALTIMORE WILDERNESS COALITION</a> - Jeff Lerner (American Forests/Greater Baltimore Wilderness Coalition)</p> <p><a href="#">GREEN INFRASTRUCTURE FINANCING</a> - Megan Granato (MDNR)</p> <p><a href="#">PERSPECTIVES ON ELLICOTT CITY FLOOD MITIGATION</a> - Lori Lilly (Lori A. Lilly – Env. Solutions)</p>	<p><a href="#">LONG-TERM RESPONSE OF SURFACE WATER ACID NEUTRALIZING CAPACITY IN A WESTERN MARYLAND RIVER BASIN TO DECLINING ACID DEPOSITION</a> – Katie Kline (UMCES)</p> <p><a href="#">INTEGRATING AIR AND WATER ENVIRONMENTAL MANAGEMENT IN THE CHESAPEAKE BAY PROGRAM</a> - Lew Linker (EPA)</p> <p><a href="#">WHERE DOES THE MERCURY IN MARYLAND COME FROM?</a> - Mark Cohen (NOAA)</p>	<p><a href="#">REDUCING SANITARY SEWER OVERFLOWS THROUGH TARGETED OUTREACH CAMPAIGNS</a> - Eric Eckl (Water Words That Work) and Lori Lilly (Lori A. Lilly – Env. Solutions)</p> <p><a href="#">HOW FISH MONITORING AND ADVOCACY SAVED CHARLES COUNTY</a> - Kimberly Brandt (1000 Friends of MD) and Jim Long (Mattawoman Watershed Soc.)</p> <p><a href="#">THINKWATER: BUILDING A MOVEMENT OF PEOPLE WHO CARE AND THINK DEEPLY ABOUT WATER</a> - Jeremy Solin (ThinkWater; Univ. of Wisc.) and Ken Belt (USDA Forest Service)</p> <p><a href="#">MEETING EVOLVING WATER CHALLENGES THROUGH INNOVATIVE EDUCATION PLATFORMS</a> – John Munro (UMUC)</p>

Two Lunch Groups – 12:00 – 1:00 (Orange Nametag Sticker) - 12:30 – 1:30 (Blue Nametag Sticker)

12:00 - 12:30 and 1:00 – 1:30 Poster Session – Authors Present

	<b>Auditorium</b>	<b>Room A-300</b>	<b>Classroom 3</b>	<b>Room A-111/113</b>	<b>Classroom 2</b>	<b>Bridge Room</b>
<b>1:30 – 3:00</b>	<p><b>STREAM RESTORATION MONITORING RESULTS – WHAT'S LEFT TO LEARN?</b> - Moderator, Mark Southerland (AKRF)</p>	<p><b>SUSTAINABLE BAY FISHERIES</b> – Moderator, Charlie Poukish (MDE)</p>	<p><b>COLLABORATING WITH COMMUNITY PARTNERS</b> – Moderator, Kathy Stecker (MDE)</p>	<p><b>URBAN WATERS: LIFE IN THE BIG CITY</b> – Moderator, Brian Smith (MDNR)</p>	<p><b>NATIONAL AQUATIC RESOURCE SURVEYS</b> – Moderator, Richard Mitchell (EPA)</p>	<p><b>TEACHERS, TIDEWATER, AND TRIBUTARIES - CITIZEN SCIENTISTS GET THE JOB DONE!</b> – Moderator, Amanda Sullivan (MDNR)</p>
	<p><b>INTERACTION OF TEMPERATURE AND BROWN TROUT AFFECT BROOK TROUT HABITAT USE</b> - Nathaniel Hitt (USGS)</p> <p><b>PREDICTING THE BENEFITS OF STREAM AND WATERSHED RESTORATION ON BIOTA THROUGH AN IMPROVED QUANTITATIVE UNDERSTANDING OF IMPACT MECHANISMS: USING RIVER CHUB AS AN EXAMPLE</b> - Stanley Kemp (Univ. of Balt.)</p> <p><b>CHANGES THROUGH TIME IN THE BENTHIC MACROINVERTEBRATE COMMUNITIES OF SITES NEAR AND WITHIN RESTORED STREAMS IN ANNE ARUNDEL COUNTY, MARYLAND</b> - Christopher J. Victoria (Anne Arundel Co.)</p> <p><b>MONITORING CREATED VERNAL POOLS AND WETLANDS IN BALTIMORE COUNTY</b> - Kate Traut (Straughan Env.)</p>	<p><b>MANAGING CHESAPEAKE BAY'S LAND USE, FISH HABIT AND FISHERIES: DEVELOPING AND APPLYING IMPERVIOUS SURFACE REFERENCE POINTS</b> – Jim Uphoff (MDNR)</p> <p><b>HAS STRIPED BASS MOVEMENT CHANGED IN THE POTOMAC AND LOWER BAY?</b> Tom Parham and Jim Uphoff (MDNR)</p> <p><b>PLANNING WITH THE FUTURE IN MIND: INCORPORATION OF IMPERVIOUS SURFACE ECOLOGICAL THRESHOLDS IN THE COMPREHENSIVE DEVELOPMENT PLAN PROCESS</b> - Marek Topolski (MDNR)</p> <p><b>OYSTERS: TWO SHELLS BUT MANY FACETS. A PRIMER ON BIOLOGY, ECOLOGY, AND MANAGEMENT</b> - Christopher Judy (MDNR)</p>	<p><b>HOA LANDSCAPING REVISIONED: COMMON SPACE FOR THE GREATER GOOD</b> - Gem Bingol (Piedmont Envir. Council)</p> <p><b>AMEN! REACHING BEYOND THE CHOIR</b> - Jodi Rose (Interfaith Partners for the Chesapeake)</p> <p><b>IT'S EVERYONE'S BUSINESS TO BE GREEN</b> - Corinne Stephens (Alliance for the Chesapeake Bay)</p>	<p><b>DEFINING THE BEST NATURAL ENHANCEMENTS AND INNOVATIVE TECHNOLOGIES TO DELIVER ECOSYSTEM SERVICES TO HIGHLY URBANIZED WATERFRONTS</b> - Charmaine Dahlenburg (National Aquarium)</p> <p><b>GHOST STREAMS OF BALTIMORE AND THEIR VALUE TO SCIENCE, THE SOCIAL FABRIC, AND HISTORY</b> - Kenneth Belt (USDA)</p> <p><b>THE EVOLUTION OF ION CHEMISTRY IN URBAN STREAMS IN THE MARYLAND PIEDMONT AND IMPLICATIONS FOR FRESHWATER BIOTA</b> - Darcy Bird (Towson Univ.)</p> <p><b>ACTIONABLE SCIENCE IN THE BALTIMORE URBAN WATERS PARTNERSHIP</b>-Robert Shedlock (USGS)</p>	<p><b>NATIONAL WETLAND CONDITION ASSESSMENT: FINDINGS, DATA APPLICATIONS, AND FUTURE DIRECTIONS</b> - Gregg Serenbetz (EPA)</p> <p><b>THE NATIONAL COASTAL CONDITION ASSESSMENT: 2010 RESULTS AND STATUS OF THE 2015 ASSESSMENT</b> – Hugh Sullivan (EPA)</p> <p><b>NUTRIENT POLLUTION ACROSS THE CONTINENTAL UNITED STATES: AN OVERVIEW OF FINDINGS FROM THE NATIONAL LAKES ASSESSMENT AND NATIONAL RIVERS AND STREAMS SURVEY</b> - Amina Pollard (EPA)</p>	<p><b>CHESAPEAKE MONITORING COOPERATIVE: STRENGTHENING CONNECTIONS BETWEEN CITIZEN SCIENCE AND MANAGEMENT AGENCIES</b> - Lea Rubin (IWLA)</p> <p><b>STATEWIDE WATERSHED REPORT CARD: STUDENTS SCIENTISTS IN ACTION</b> - Ann Stroyvk (Howard Co. Public Schools) and Sara Weglein (MDNR)</p> <p><b>CITIZEN SCIENCE - THE BACKBONE OF WATERSHED GROUPS</b> - Timothy Rosen (Midshore Riverkeeper Conservancy)</p>

**3:00 – 3:30 Break/Poster Session – Authors Present – Announcement of Student Poster Award Winners (Auditorium)**



	<b>Auditorium</b>	<b>Room A-300</b>	<b>Classroom 3</b>	<b>Room A-111/113</b>	<b>Classroom 2</b>	<b>Bridge Room</b>
<b>3:30 – 4:30</b>	<b>STREAM RESTORATION MONITORING RESULTS – PUTTING LESSONS INTO ACTION</b> - Moderator, Mark Southerland (AKRF)	<b>THOSE BLUE-GREENS (AKA CYANOBACTERIA), PRIMITIVE PHOTOSYNTHETIC MACHINES? –</b> Moderator, Kevin Sellner (Hood College)	<b>CLIMATE CHANGE- WETLANDS, THE BAY AND BEYOND –</b> Moderator, Zoe Johnson (NOAA)	<b>URBAN WATERS: LIFE IN THE BIG CITY II –</b> Moderator, Matt Stover (MDE)	<b>SAVE THE TROUT! – LAND USE, BMPS AND STRONG PARTNERSHIPS –</b> Moderator, Caroline Donovan (UMCES)	<b>WHY DID THE STREAM CROSS THE ROAD? –</b> Moderator, Joel Moore (Towson Univ.)
	<p><a href="#">GORGAS RUN STREAM RESTORATION: INNOVATIVE APPROACHES FOR NATURAL CHANNEL DESIGN IN A WOODLAND PARK SETTING</a> -Shandor Szalay (AKRF)</p> <p><a href="#">HOW MUCH MONEY IS GOOD DATA WORTH?: AN EXAMINATION OF THE MONETARY IMPACTS THAT OCCUR WITHIN THE RANGE OF VARIABLES ASSOCIATED WITH NUTRIENT REDUCTION ESTIMATES FROM TMDL BASED STREAM PROJECTS IN MARYLAND AND VIRGINIA</a> – Josh Running (Stantec)</p> <p><b>*CANCELLED*</b> - URBAN STREAM RESTORATION AND CONSERVATION: A CASE STUDY OF HERRING RUN - Archana Sharma (Morgan State Univ.)</p>	<p><a href="#">DISTRIBUTIONS AND POTENTIAL EFFECTS OF BENTHIC CYANOBACTERIA IN THE UPPER POTOMAC RIVER</a> - Josh Henesy (MDNR)</p> <p><a href="#">CYANOBACTERIAL PERSISTENCE IN MARYLAND LAKES: YEAR-ROUND PRESENCE OF COLD-ADAPTED SPECIES</a> - Jeff Mattheiss (Hood College)</p> <p><a href="#">CYANOBACTERIA BLOOM MITIGATION: BARLEY STRAW (HORDEUM VULGARE) AND OTHER APPROACHES</a> - Kevin Sellner (Hood College)</p>	<p><b>*CANCELLED*</b> - CLIMATE CHANGE AND MONITORING IN AQUATIC ECOSYSTEMS: DATA NEEDS AND GAPS – Britta Bierwagen (EPA)</p> <p><a href="#">BUILDING CLIMATE RESILIENCY: MONITORING, ASSESSING AND DETECTING TRENDS AND IMPACTS</a> - Zoe Johnson (NOAA) and Peter Tango (USGS)</p> <p><a href="#">INCREASING SALT MARSH ACREAGE AND RESILIENCY FOR BLACKWATER NATIONAL WILDLIFE REFUGE</a> - David Curson (Audubon MD-DC)</p>	<p><a href="#">BACKSCATTER AS A SURROGATE FOR SUSPENDED SEDIMENT, NUTRIENT, AND BACTERIA CONCENTRATIONS IN AN URBAN STREAM WITHIN ROCK CREEK NATIONAL PARK, WASHINGTON D.C.</a> - Joseph Bell (USGS)</p> <p><a href="#">NUTRIENT DYNAMICS IN URBAN HEADWATER STREAMS: THE ROLE OF LEAF LITTER</a> - Neely L. Law (Center for Watershed Protection) and Sadie Drescher (Ches. Bay Trust)</p> <p><a href="#">OPTIMIZING MONITORING DESIGN TO ASSESS THE EFFECTS OF STORM WATER BEST MANAGEMENT PRACTICES ON WATER RESTORATION</a> - Dong Liang (UMCES)</p>	<p><a href="#">MONITORING RESULTS TO VERIFY CONTINUOUS MONITORING AND ADAPTIVE CONTROL BMPS</a> - Jamie Lefkowitz (OptiRTC)</p> <p><a href="#">DATA AND WEB TOOLS FOR IMPROVING WATER QUALITY</a>- Cassandra Pallai and Colin Stief (Chesapeake Conservancy)</p> <p><a href="#">2016 STATUS REPORT - UPPER GUNPOWDER FALLS WATERSHED BROOK TROUT CONSERVATION PARTNERSHIP</a> - Adam Nabors (Trout Unlimited) and Mark Staley (MDNR)</p>	<p><a href="#">THE INFLUENCE OF ROADS AND IMPOUNDMENTS ON AQUATIC COMMUNITY STRUCTURE IN HEADWATER STREAMS</a> - Sean Sipple (Coastal Resources)</p> <p><a href="#">ROAD-STREAM CROSSING ASSESSMENTS IN MARYLAND: WORKING WITH PARTNERS TO SET FISH PASSAGE PRIORITIES</a> - Chris Reilly (USFWS)</p>



**4:30 Adjourn - SOCIAL AT HEAVY SEAS BREWERY STARTING AT 5:00 (registration required)**

### Poster Presentations (In Order of Primary Author's Last Name)

- (STUDENT POSTER) - THE SMALL SCALE SPATIAL EFFECT OF CONSERVATION AREAS ON WATER QUALITY: IMPLICATIONS FOR CHESAPEAKE BAY AND ITS TRIBUTARIES** - Lark Amoa (Stevenson Univ.)
- THE TENTH ANNUAL MARYLAND STREAMS ROUNDTABLE** - Andy Becker (KCI Technologies, Inc.) and Dan Boward (MDNR)
- GHOST STREAMS OF BALTIMORE AND THEIR VALUE TO SCIENCE, THE SOCIAL FABRIC, AND HISTORY** - Kenneth Belt (USDA Forest Service), Sujay Kaushal (Univ. of MD), Jeremy Solin (Univ. WI Cooperative Extension) and Raymond Bahr (Watershed Advocate)
- USING ENTEROCOCCI TO MONITOR WATER QUALITY OF STREAMS IN HARFORD COUNTY, MARYLAND** - John Biondo, Gracie Shannahan and Tami Imbierowicz (Harford Comm. College)
- HOW SAFE ARE SAFENERS? A BENTHIC MICROCOSM STUDY** - Kasey Bolyard, Susan Gresens, John Sivey and Christopher Salice (Towson Univ.)
- (STUDENT POSTER) - THE EFFECT OF DEVELOPMENT ON THE HYDROLOGY OF THE UPPER GWYNNS FALLS** – Laura Brezinski (Stevenson Univ.)
- (STUDENT POSTER) - USING LOGGERS TO INCREASE TEMPORAL COVERAGE OF SURFACE WATER-GROUNDWATER INTERACTIONS** - Joseph Broome, Gregory Woodward and Joel Moore (Towson Univ.)
- BANK-DERIVED SEDIMENT DOMINATES SUSPENDED SEDIMENT FINGERPRINTS IN A SUBURBAN CHESAPEAKE BAY WATERSHED, UPPER DIFFICULT RUN, VIRGINIA, USA** - Matthew J Cashman, Allen Gellis, Lillian Gorman Sanisaca (USGS), Vanessa Cogliandro (Università degli Studi Mediterranea di Reggio Calabria, Italy), Anna Baker (University of Minnesota), and Greg Noe (USGS)
- (STUDENT POSTER) - THE SMALL SCALE EFFECT OF CONSERVATION BUFFERS ON SOIL MICROBE ACTIVITY AND IMPLICATIONS FOR WATER QUALITY** - Debra-Leigh Corbie and Erin McLoughlin (Stevenson Univ.)
- (STUDENT POSTER) - QUANTIFYING CARBON SPECIES FROM A RURAL TO URBAN GRADIENT** - Seth Dobbis, Amy Williams and Joel Moore (Towson Univ.)
- (STUDENT POSTER) - USING QPCR FOR MICROBIAL SOURCE TRACKING OF FREDERICK COUNTY WATERWAYS** - Bria Dunlap, Fatimah Spall, Craig Laufer, Drew Ferrier, and Susan Carney (Hood College)
- FRAMEWORK TO PREDICT TOXICITY OF ION PULSES IN BALTIMORE REGION STREAMS** - Andrew East, Tim Woo and Chris Salice (Towson Univ.)
- INTEGRATED WATER QUALITY MODELING IN TIDAL STREAM: A MARYLAND CASE** – Amanuel Ghebreegziabher and Reza Khanblivardi (City College City Univ. of NY)

**IMPACT OF CHURCH CREEK'S REGENERATIVE STREAM CONVEYANCE SYSTEM ON WATER QUALITY DURING LARGE RAIN EVENTS** - Sarah Giordano and Wayne Martin (South River Fed.)  
**(STUDENT POSTER) - THE SIGNIFICANCE OF SMYD1B\_TV1 AND SMYD1B\_TV2 IN ZEBRAFISH** - Carentxa Goede (Coppin State University) and Mengxin Cai, Chien Chien-Ju, Dr. Jim Du (Univ. of MD)

**FACTORS CONSIDERED FOR CONDUCTING A FISH CROSSING ANALYSIS FOR CULVERT PROJECTS IN MARYLAND** - Jeff Gring and Sean Sipple (Coastal Resources, Inc.)  
**(STUDENT POSTER) - ESTIMATING THE WHITE-TAILED DEER (ODOCOILEUS VIRGINIANUS) POPULATION IN THE UPPER GWYNN'S FALLS WATERSHED AND THE EFFECT OF BROWSING ON FOREST ECOLOGY** - Marissa Hoffman (Stevenson Univ.)

**INFLUENCE OF WATERSHED-SCALE STORMWATER MANAGEMENT PRACTICES ON SEDIMENT AND NUTRIENT EXPORT** - Krissy Hopkins (USGS), J.V. Loperfido (McAdams Co.), and Dianna Hogan and Greg Noe (USGS)

**EFFICACY EVALUATION OF A NOVEL COLD ATMOSPHERIC AIR PLASMA FOR WATER DECONTAMINATION** - Hosan Kim and Salman Izadjoo (Trideum Biosciences), Huan Truong (ChiScan LLC) and Mina Izadjoo (Trideum Biosciences)

**PERSISTENTLY ELEVATED CONDUCTANCE IN MATTAWOMAN CREEK AND BIOLOGICAL IMPLICATIONS** - Jim Long (Mattawoman Watershed Soc.), Margaret McGinty, Alexis Park, Carrie Hoover, Marek Topolski and Jim Uphoff (MDNR) and Laurie Fortis Snow (Mattawoman Watershed Soc.)

**(STUDENT POSTER) -POTENTIAL OF INVASIVE CRAYFISH IN GWYNN'S FALLS RIVER** - Jonathan Mann and John Prettyman (Stevenson Univ.)

**FISHERIES RESOURCE INVENTORY NEAR ABERDEEN PROVING GROUND, MARYLAND** - Martha McCauley, Elizabeth Methratta and Michael Stephens (EA Engineering, Science, and Technology, Inc.)

**MONITORING NUTRIENTS AND CHLOROPHYLL NEAR A WASTEWATER TREATMENT PLANT OUTFLOW IN THE WESTERN BRANCH, PATUXENT RIVER ESTUARY** - Amy Moody (Friends of Jug Bay)

**(STUDENT POSTER) - AN ANALYSIS OF THE EFFECTIVENESS OF STREAM CLEANUPS TO IMPROVE FISH HABITAT AND POPULATIONS IN MARYLAND RIVERS** - Mark Moody and Joseph Matanoski (Stevenson Univ.)

**(STUDENT POSTER) OXYGEN DEPLETION IN A RECENTLY RESTORED STREAM DOMINATED BY AN IRON OXIDIZING BACTERIUM** - Lauren Mosesso (Univ. of Mary Washington and SERC) and Joshua Thompson and Thomas Jordan (SERC)

**(STUDENT POSTER) - WATER QUALITY IN THE BALTIMORE WATERSHED: A SOCIO-ENVIRONMENTAL AND PHYSICO-CHEMICAL ANALYSIS** - Jannett North, Aisha Ward, Brije Smith, Christodia Forson, Tatiana Roth and Mintesinot Jiru (Coppin State University)

**TRACKING METHYLMERCURY PRODUCTION AND EXPORT IN FIRST-ORDER STREAM ECOSYSTEMS** - Jacob Oster (Ches. Biol. Lab./UMCES), Andrew Heyes, and Laura Lapham (Ches. Biol. Lab.) and William Lamp (Univ. of MD, College Park)

**(STUDENT POSTER) REGENERATIVE STORMWATER CONVEYANCE AND ITS EFFECT ON CARBON LABILITY AND PRIMING** - Brendan Player (Christopher Newport Univ. and SERC), Joshua Thompson and Thomas Jordan (SERC)

**HART-MILLER ISLAND EXTERIOR MONITORING: EXAMINATION OF SPATIAL AND TEMPORAL TRENDS IN SEDIMENT METALS CHEMISTRY** - Michael Powell (EA Engineering, Science, and Tech., Inc.), Holly Miller (Maryland Port Administration), George Harman (Phoenix Engineering), Amanda Peñafiel (Maryland Environmental Service) and Peggy Derrick (EA Engineering, Science, and Tech., Inc.)

**ANACOSTIA RIVER CONTAMINANTS: AN INTERJURISDICTIONAL PROBLEM** - Sania Rose and Harriette Phelps (Univ. of the District of Columbia)

**CITIZEN SCIENCE FROM COMMUNITY CLEANUPS** - Julia Saintz and Hannah Seligmann (Alice Ferguson Foundation; Trash Free Potomac Watershed Initiative)

**(STUDENT POSTER) - AN INVENTORY OF NATIVE AND NON-NATIVE PLANTS WITHIN A CONSERVATION AREA OF THE GWYNN'S FALLS WATERSHED** - Lydia Shreeve (Stevenson Univ.)

**(STUDENT POSTER) BIOENERGETIC ENDPOINTS FOR STREAM ASSESSMENT: LIPID CONTENT IN SURFACE WATER AND CADDISFLY LARVAE VARIES ACROSS AN URBAN TO RURAL GRADIENT** - Madison Smith, Andrew East and Christopher Salice (Towson Univ.)

**HOWARD COUNTY COMMERCIAL STORMWATER SOLUTIONS WORK GROUP** - Mark Southerland (AKRF), Jim Caldwell (Howard Co. Office of Community Sustainability) and Cole Schnorf (Manekin)

**CONCENTRATION OF DISSOLVED METALS IN MINIMALLY DISTURBED STREAMS** - Bronson Waite and Matthew Ashton (MDNR), Katie M. Kline and Raymond P. Morgan (AL; Univ. of MD)

**(STUDENT POSTER) - FINGERPRINTING SOURCES OF NITROGEN POLLUTION ON SCHOOLYARDS IN WESTERN MARYLAND** - Gabriella White, Colton Houser, Jenna Ruggiero and Rebecca Kenyon-Sisler (Northern Garrett High School), Andrew Elmore, Cassie Doty, David Nelson, Joel Bostic, and Cathlyn Stylinski (UMCES; Appalachian Lab.)

**STREAM HEALTH OF TOWSON UNIVERSITY CAMPUS WATERWAYS** - Amy Williams, Seth Dobbis, Jeremy Becraft and Joel Moore (Towson Univ.)

**SEDIMENT AND CONTAMINANT LOADS IN TRIBUTARIES TO THE ANACOSTIA RIVER** - Timothy Wilson, Brian Banks, Brenda Majedi, Melanie Mathesz and Charles Walker (USGS)

**HEALTH OF MONTGOMERY COUNTY STREAMS** - Cathy Wiss (Audubon Naturalist Society)

**ROAD SALT (NACL) INPUTS SIGNIFICANTLY ALTER SOIL PH AND CATION EXCHANGE CHEMISTRY IN SOIL AND AQUIFERS** - Gregory Woodward and Joel Moore (Towson University)

**LAKE LINGANORE WATER QUALITY AND POTENTIAL FOR CYANOBACTERIA BLOOMS** - Hannah Zinnert, K. Sellner, D. Ferrier, J. Mattheiss, S. Simonson, and C. Hudson Hood College Center for Coastal and Watershed Studies) and J. Cornwell (UMCES-HPL)

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**PLEASE NOTE – A full program with talk and poster abstracts and committee reports is available on the MWMC website at [www.marylandwatermonitoring.org](http://www.marylandwatermonitoring.org)**



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