

## WORKSHOP DESCRIPTIONS

### Friday Workshops | 3:00 to 3:45 pm

#### TRACK 1: RESTORATION SCIENCE & PRACTICE

##### ***Emerging Work: Fecal Coliform Bacterial Monitoring***

How does bacterial monitoring – including fecal coliform – help communities better prioritize their restoration work to reduce the impacts to human health through either contact or drinking water-related exposures? The Rivanna Conservation Alliance has led monitoring in a Virginia watershed and the Smithsonian Environmental Research Center (SERC) is slated for a MD-based approach. *MODERATOR: Jake Reilly, National Fish & Wildlife Foundation; Jessica Dodds and Julia Ela, Rivanna Conservation Alliance; Speaker (TBD), SERC*

#### TRACK 2: WATERSHED CONSERVATION

##### ***Trees 101, All the Benefits***

What healthful impacts can a tree have? Can one tree in the city compare to a forest of trees? Trees provide oxygen and shade but you might be surprised at all their benefits. Trees fight free radicals, stave off asthmas, improve cognitive skills, and more. Trees are the answer! *Frank Rogers, Cacapon Institute*

#### TRACK 3: PLANNING & REGULATION

##### ***Watershed Devastation: Ellicott City Flood***

On Saturday, July 30, 2016, in Ellicott City Maryland, over six inches of rain fell and the Patapsco rose 13 feet in over two hours. This session will share information on the historic flood and the past efforts and future flood control plans in this area. *Alan Schneider, Sierra Club Maryland Chapter (invited)*

#### TRACK 4: ORGANIZATIONAL DEVELOPMENT & FUNDRAISING

##### ***Don't Hesitate, Collaborate!***

This session will feature a conversation between two partner organizations - the Maryland Environmental Health Network, and Blue Water Baltimore spotlighting the challenges and opportunities of collaboration. Leaders from each organization will discuss real-world challenges to building trust, increasing capacity, and forming cross-sector networks. Attend this session if you are interested understanding what occurs when organizations collaborate in the crowded, urban, and underserved areas for the good of the whole. *Carl Simon, Blue Water Baltimore; Tamara Toles O'Laughlin, Maryland Environmental Health Network; Kacey Wetzel, Chesapeake Bay Trust*

#### TRACK 5: CHESAPEAKE FORESTS

##### ***E. coli and Forest Buffers***

E. coli pollution is the leading cause of stream impairment in Virginia. Public beaches close because of high levels of E. coli. Why are rivers any different? Learn about E. coli, other pathogens, forest buffers, how E. coli enters streams, and how to reduce its presence. *Bobby Whitescarver, Chesapeake Bay Foundation*

#### TRACK 6: COMMUNICATIONS & ADVOCACY

##### ***You Can't Spell Earth Without "Art"***

Art has always had a dynamic role with the sciences. This session will present a brief overview of the crossroads between art and sciences, as well as teach participants to use art to engage their community and become more effective communicators. *Emily Natase, University of Maryland Center for Environmental Science*

#### TRACK 7: CITIZEN & COMMUNITY ENGAGEMENT

##### ***Model for a Model Watershed Friends Organization***

This presentation will provide information on activities, successes, failures, and lessons learned during the process of restarting the "Eyes on Paint Branch" a subwatershed of the Anacostia River watershed; and, how to engage stakeholders as partners, including local government agencies, existing watershed organizations, educational institutions, businesses, and individual citizens. *Emily Franc, Anacostia Riverkeeper*

**TRACK 1: RESTORATION SCIENCE & PRACTICE**

***The Intersection of Green Infrastructure for Stormwater Management and Urban Agriculture***

Coupling green infrastructure for stormwater management with urban farms is on the rise. How can stormwater help grow food without compromising food safety? The potential for heavy metals or other toxics to enter the food system must be considered in the cultivation of food in its potential to impact human and environmental health. *Jake Reilly, NFWF/Kristen Saacke Blunk, Headwaters LLC; Invited Project Lead (TBD), Henricopolis SWCD, Cornerstone Community Farm; Invited Report Author (TBD), American Rivers, "Urban Farms: A Green Infrastructure Tool for the Chesapeake Bay"*

**TRACK 2: WATERSHED CONSERVATION**

***SouthWings: Conservation through Aviation***

Water quality and safe shorelines impact human health in the Chesapeake Bay watershed. Join SouthWings for a visually stimulating overview of their programming within the watershed and around the county. Gain an aerial perspective on these issues and how they can significantly impact policy change, public awareness, and healthy communities. *Shannon Lyons, SouthWings Chesapeake Program Director; Jeremy Jacobsohn, SouthWings Pilot*

**TRACK 3: PLANNING & REGULATION**

***Collaborative Models for Financing MS4 Programs in Smaller Communities***

This session will help small Phase 2 MS4 Communities understand the diversity of approaches in meeting state and local level WIP goals. It will give watershed associations, nonprofits, municipal engineers and township managers the skills: (1) to develop collaborations; (2) determine where cost savings and economies of scale can be achieved; and (3) evaluate factors or metrics that can facilitate developing cost sharing formulas. *Jen Cotting, Environmental Finance Center, University of Maryland*

**TRACK 4: ORGANIZATIONAL DEVELOPMENT & FUNDRAISING**

***Sharing Is Caring: Digital Engagement to Boost Online Campaigns***

Find out how to grow your organization's email list, get educational programs and volunteer opportunities in front of more people, and learn more about your current members using Conservation Voters of Pennsylvania's new tools. *Kristin Zilcosky, Conservation Voters of Pennsylvania; Kristin Reilly, Choose Clean Water Coalition*

**TRACK 5: CHESAPEAKE FORESTS**

***News on Reforestation Methods by Stroud***

This session summarizes new research on reforestation methods by Stroud Water Research Center. Topics: deer fencing, success on legacy sediments, initial stock type, "center hole" bird net method, methods to reduce vole damage, tree shelter options for shade, pre-emergence herbicide used inside shelters, overcoming multiflora rose and reed canary grass. *David Wise, Stroud Water Research Center*

**TRACK 6: COMMUNICATIONS & ADVOCACY**

***Health Professionals Fight Fracking in Maryland***

Public health evidence supported a moratorium on fracking in Maryland in 2015, then a ban in 2017. Health professionals acted in well-structured ways to ensure that Maryland leaders understood adverse health consequences of allowing fracking to begin. This session will examine the importance of health professionals weighing in on policy. *Annie Bristow, TBD; Ann Nau, TBD*

**TRACK 7: CITIZEN & COMMUNITY ENGAGEMENT**

***Community Engagement Through Student Experiences***

Participants will be able to enhance their watershed work by leaving the session with resources for educational experiences, such as FOR's student action how-to guides, partnership ideas and several case studies that can be translated to their own watershed. *Daria Christian, Friends of the Rappahannock; Lowery Becker, Friends of the Rappahannock (FOR)*

**TRACK 1: RESTORATION SCIENCE & PRACTICE**

***Project Management: Stream Restoration Case Study***

Following the in-depth 2016 project management training, this year's session will be a cradle to cradle walk through the project management schema, choices, and considerations for a specific, real time stream restoration project, including permitting challenges and resolution, technical, regulatory, timeline and other complexities of building and implementing a stream restoration. *MODERATOR: Jeffrey Popp, Chesapeake Bay Trust; Jeremy Koser, JMT Consulting (tentative); Jim Morris, JMT Consulting (tentative)*

**TRACK 2: WATERSHED CONSERVATION**

***Conserving Land, Passing a Legacy***

Nearly 80% of the watershed's forests are owned by approximately 900,000 private landowners. Transitioning these acres intact and in forest to the next generation is paramount and something we can impact. The conservation options available, and the collective decisions they make, will largely determine the future of the watershed. *Adam Downing, Virginia Cooperative Extension Agent; Mike Santucci, Virginia Department of Forestry*

**TRACK 3: PLANNING & REGULATION**

***Incorporating GI into Municipal Codes***

This session will share information and experience from Lancaster Pennsylvania to municipal officials, staff and local nonprofit and volunteer organizations when trying to incorporate green infrastructure and stormwater management mitigation requirements and provisions into land use and development codes and ordinances. *Karl Graybill, City of Lancaster*

**TRACK 4: ORGANIZATIONAL DEVELOPMENT & FUNDRAISING**

***Collaborative Fundraising for the Greener Good***

Learn about a unique fundraising event that harnessed the power of collaboration and cooperation to engage donors. Timelines, toolkits, and take-aways - you will leave with solid and useful information about how to organize and implement a collaborative effort. After fundraising events...What's next? Kelly Swartout will show you how to build on fundraising success to engage donors, focusing on tips and tricks to build donor relationships when resources and time are scarce. *Suzanne Etgen, Watershed Academy; Suzanne Martin, South River Federation; Elvia Thompson, Annapolis Green; Kelly Swartout, Chesapeake Bay Trust*

**TRACK 5: CHESAPEAKE FORESTS**

***Lessons from an Environmental Justice Workshop***

Over 100 environmental practitioners attended Trees for All: Chesapeake Regional Environmental Justice Workshop. As part of the Growing Tree Canopy through Environmental Justice project, the workshop featured national and regional experts in environmental justice, health, and urban forestry. Join us for insight on sustaining authentic community engagement with community trees. *Sarah Anderson, Lillie Leaf Solutions, LLC*

**TRACK 6: COMMUNICATIONS & ADVOCACY**

***Effective Digital Storytelling***

This presentation will first introduce user-centered web communications, exposing participants to leading research, writing and testing techniques to work smarter and gain confidence in telling only those stories their audience wants to hear. Part two introduces basic concepts and best practices that will produce successful photographs and visually-driven stories. *Stephanie Smith, Catherine Krikstan, Will Parson, Alliance for the Chesapeake Bay*

**TRACK 7: CITIZEN & COMMUNITY ENGAGEMENT**

***Measuring Stewardship***

The Chesapeake Bay Program has developed a powerful survey tool to help practitioners target public outreach. Learn the results and how to apply this rich dataset to your work. The tool measures current and likely future adoption of stewardship practices to help practitioners put limited outreach resources to best use. *Kacey Wetzel, Chesapeake Bay Trust; Steve Raabe, Opinionworks*

**TRACK 1: RESTORATION SCIENCE & PRACTICE**

***Innovative Best Management Practices***

Innovations in nutrient removal in the Delmarva include the use of bioreactors, a subsurface trench or container filled with a carbon source (wood chips), fostering denitrification with the water that flows through it. With subsurface N issues, what are the opportunities to address this in tiled/nontiled ag systems? Are bioreactors applicable to non-agricultural systems? *Ron Ohrel, American Dairy Association; Drew Koslo, Ridge to Reef*

**TRACK 2: WATERSHED CONSERVATION**

***Protected Land for Healthy Water***

Land trusts in the Chesapeake watershed already steward nearly one million acres of preserved lands—and are conserving more land every day—making them natural leaders and partners in water quality protection and restoration. Two leading examples from Pennsylvania land trusts—one protecting their community’s drinking water supply, and one improving farm practices to reduce pollution and achieve regulatory compliance. *Jennifer Herzog (moderator), Land Trust Alliance; Jeff Swinehart, Lancaster Farmland Trust; Deb Nardone, ClearWater Conservancy*

**TRACK 3: PLANNING & REGULATION**

***Chesapeake Bay Program***

The Chesapeake Bay Program Office (CBPO) will provide an overview of the issues being addressed under the Chesapeake Bay TMDL through the 2017 Mid-Point Assessment, including climate impacts, projected land use, lag times, phosphorous saturated soils, Conowingo Dam, James River chlorophyll-a, Phase 6.0 Watershed Model, water quality trends, new and revised BMP's, as well as EPA expectations for Phase III Watershed Implementation Plans. An update on the implementation of the goals and outcomes of the 2014 Watershed Agreement and the latest health and restoration indicators, as well as highlights from the September 27, 2017, CBP Executive Council meeting, will also be provided. *Nick DiPasquale, Director, EPA Chesapeake Bay Program Office*

**TRACK 4: ORGANIZATIONAL DEVELOPMENT & FUNDRAISING**

***Better Together: Tools for Collaborating in Complex Times***

Joining forces with others can achieve more and strengthen your work. Are you looking for leadership approaches to help you navigate the complexity of collaboration and working with others? In this workshop you will identify your strengths and your growing edge for leading in a network or coalition, strengthen your influencing skills to increase effectiveness, and share ideas and practices with colleagues from other organizations. You’ll also leave with practical steps for your work in a network or coalition. *Sarah Clark, Institute for Conservation Leadership*

**TRACK 5: CHESAPEAKE FORESTS**

***Winter Tree ID***

Take a crash course on the most common trees and shrubs found in regional forests using site characteristics and morphology to identify trees after leaf fall. We begin indoors with a review of dichotomous keys and web resources before heading outside for a woods walk on the NCTC campus to practice tree and shrub identification. *Alliance for the Chesapeake Bay, Chesapeake Forest team; Bud Reeves, Anne Arundel Forestry Board*

**TRACK 6: COMMUNICATIONS & ADVOCACY**

***5 Elements of Branding Your Cause***

Want to break through to reach the audience across the aisle? Or reach new people who are not paying attention? You can. Take a new look at branding and communications that’s about promise and commitment, about being true to your organization’s values, not marketing your political agenda. It’s how Apple sells phones and Subaru sells cars. It’s based on the premise: Know thyself! Know your audience. *David Lillard, West Virginia Rivers Coalition*

**TRACK 7: CITIZEN & COMMUNITY ENGAGEMENT**

***Advancing a Diversity, Equity and Inclusion Strategy***

*Sarah Malpass, Skeo*

**TRACK 1: RESTORATION SCIENCE & PRACTICE**

***Digging into Soil Health and Water Quality***

A continued exploration of soil health and practices that bolster soil health in supporting and sustaining water quality, this session, a follow up to the 2016 one, will explore agricultural and stormwater practices that integrate soil health for ensuring water quality outcomes. How do we take these soil health benefits and bring them into our projects?

*MODERATOR: Ron Ohrel, American Dairy Association; Stu Schwartz, Center for Urban Environmental Research and Education, UMBC; Speaker (TBD) – Agricultural Producer*

**TRACK 2: WATERSHED CONSERVATION**

***Invasive Removal – You and Your Park!***

Learn how creating a centralized management plan to address invasive plant problems on at Rock Creek Park is improving the health of the land, building partnerships, and engaging diverse community members that visit the park. Then walk the outside to discuss the management of invasive exotic plants found at NCTC. *John Maleri, Rock Creek Conservancy; Phil Pannill, NCTC Land Manager*

**TRACK 3: PLANNING & REGULATION**

***Amplifying Citizen Voices on Maryland NPDES Permits***

This session will provide information on the opportunities for public involvement in the NPDES permit process and how to most effectively get involved in the NPDES permitting process for local facilities of concern. Techniques including reviewing and analyzing NPDES permits, identifying and finding technical experts, commenting on permits, and engaging citizens in the effort. *Matt Pluta, Midshore Riverkeeper Conservancy*

**TRACK 4: ORGANIZATIONAL DEVELOPMENT & FUNDRAISING**

***My Problem - Your Problem: Public Health & Environment Intersection***

In recent years, there has been growing and evolving partnerships between the environmental community and those focused on public health. This session will explore lessons learned and ingredients for success through three diverse case studies that underscore the power of the public health and environment intersection. *Tamara Toles O’Laughlin, Maryland Environmental Health Network; Angie Rosser, West Virginia Rivers Coalition; Ashley Traut, Blue Water Baltimore*

**TRACK 5: CHESAPEAKE FORESTS**

***Connecting Trees to Water Quality***

Trees and canopy cover provide multiple benefits including stormwater reduction and water quality improvements. Learn how trees reduce stormwater and pollutant loads through interception, infiltration, evapotranspiration, and phytoremediation. Explore how to connect trees to community stormwater management goals and nutrient load reduction plans. *Vincent Cotrone, Penn State University*

**TRACK 6: COMMUNICATIONS & ADVOCACY**

***Polluted Runoff Solutions: MOST Case Study Map (Computer Lab)***

Learn how to use an exciting new interactive online map available at the Municipal Online Stormwater Training (MOST) Center which showcases some of the most innovative projects around the watershed and tour the stormwater projects at NCTC. You will learn how to use this online toolkit and the successful projects already in the ground to arm yourself, your educators and advocates in your area with the tools they need to bring simple visual messages that will resonate in your target audiences and show them the importance of projects that solve polluted runoff. This session will be part computer lab tutorial, part outdoor tour and strategy session. *Ben Alexandro, Maryland League of Conservation Voters*

**TRACK 7: CITIZEN & COMMUNITY ENGAGEMENT**

***Collaboration in Practice: Tools for Engagement***

Come participate in an interactive workshop and learn how to communicate with your stakeholders! Participants will learn three engaging games that facilitate collaborative decision making, and gain hands-on experience creating a shared vision to improve the health of an ecosystem and its human communities. *Suzanne Spitzer, Dylan Taillie, Alexandra Fries, Vanessa Vargas Nguyen - UMCES Integration & Application Network*

**TRACK 1: RESTORATION SCIENCE & PRACTICE**

***Restoration Science and Considerations for Legacy Sediments***

The Chesapeake Bay's Scientific and Technical Advisory Team is considering the impact of "legacy" sediment deposits generated by historical changes in the landscape and the degree they represent a significant but under-addressed source of pollution. This session examines a case study of legacy sediment remediation and explores different science views on the issue. *MODERATOR: Kristen Saacke Blunk, Headwaters LLC; Speaker (TBD), Water Science Institute; Andrew Miller, University of MD Baltimore Co and STAC Member (Tentative)*

**TRACK 2: WATERSHED CONSERVATION**

***Flow Path Mapping Methodology and Application***

High-resolution data gathered from satellite imagery and GIS technology is changing the conservation world as we know it. Take this opportunity to get more familiar with high-resolution flow path mapping, its origins, methodologies, and applications in this hands-on interactive session! *Adrienne Gemberling, Jake Leizear, Carly Dean, Chesapeake Conservancy*

**TRACK 3: PLANNING & REGULATION**

***Stormwater Meets Healthcare in Baltimore***

This session will provide information on how to effectively engage the healthcare community on the topic of stormwater. Including understanding the basics of developing an institutional green infrastructure master plan, making stronger connections between environmental degradation and public health issues and developing non-traditional partnerships with large, high visibility, influential local medical institutions. *Ashley Traut, Blue Water Baltimore*

**TRACK 4: ORGANIZATIONAL DEVELOPMENT & FUNDRAISING**

***Cultivating a Healthy, Productive Team***

Is your calendar full of meetings but no time to tackle projects? Is burnout a challenge in your office? When developing your organizational strategy, it is important to balance the workload while taking care of your team. This interactive session will examine time management, self-care, and yoga tools to foster a healthy internal organizational structure. *Julie Vastine, Alliance for Aquatic Resource Monitoring*

**TRACK 5: CHESAPEAKE FORESTS**

***Forest Health Assessment***

Poor tree or forest health can derail a restoration project. In this outdoor session, learn the basics to assessing forest health, and identifying stressors such as overcrowding, diseases, insect pests, and invasive species. This session will enable the participant to recognize when a forest or individual trees are in need of intervention to preserve their health. *Bud Reeves, Anne Arundel Forestry Board*

**TRACK 6: COMMUNICATIONS & ADVOCACY**

***Buzzard Point's Story Continued***

Last year we presented the Buzzard's Point story to raise awareness of environmental justice concerns in a DC neighborhood with limited resources. Join community leader Rhonda Hamilton to learn how the Buzzard's Point narrative continues to unravel, and how one story shared by many has played a critical role in facilitating change. This session will be supplemented with a film screening (updated from last year). *Rhonda Hamilton, DC Advisory Neighborhood Commission 6D; Alisha Camacho, Independent Filmmaker*

**TRACK 7: CITIZEN & COMMUNITY ENGAGEMENT**

***Fun, Fund-raising Events (45 min)***

By hosting solar boat competitions, book signings, concerts, pirate encampments, or other fun, fund-raising events during the first Watershed Moments/Healthy Oceans Maritime Festival, your organization can raise money and draw attention to ocean debris and plastics, marine protected areas, and sustainable seafood and contribute to a direct action stewardship activity benefiting the Chesapeake. *Lynn Fitzpatrick Integrity Team USA (ITUSA); Charlotte Rich, Bay Region Advisory*

**AND . . .**

### ***Getting Clean (45 min)***

This workshop will discuss how a new approach (picking up litter, rather than stopping littering), well-designed formative research, and a willingness to ask very broad questions and follow the trail where it led has brought together a large coalition of motivated partners, including medical clinicians, to address litter in new ways. Co-Presenters: Julie Lawson, Trash Free Maryland. Steve Raabe, OpinionWorks

## **Sunday Half-Day Workshops | 9:00 to 12:00**

### **Farm Tour (off-site)**

Beginning at 11 am, American Dairy Association North East and Cow Comfort Inn are pleased to offer a free tour of a fully operating dairy farm! You'll meet local dairy farmers and learn first-hand about their farming operations, including efforts to protect the Chesapeake Bay. Your 90-minute, ¼-mile walking tour will include discussions of environmental conservation practices and challenges, a visit to the milking parlor, and more. Ask any questions you've ever had about dairy farming. Oh, and we'll end the tour with a free surprise dairy treat!

The farm is roughly 20 miles north of Frederick, Maryland. (Directions to the farm will be provided later). Stop by on your way home from the Chesapeake Watershed Forum. The tour is rain or shine. Bring your rain gear and boots in case of inclement weather.

The tour is free, but registration is required. The tour is open to the first 30 registrants.

*Tour Leader: Ron Ohrel, American Dairy Association North East*

### **Stormwater Site Assessment of National Conservation Training Center**

Participants will learn to assess properties for potential stormwater BMP implementation. The session will start in the classroom to learn BMP techniques, flow calculations and site assessment strategies. Then you will walk the grounds, establishing flow direction and water volumes and determining the best BMP for a particular site. From this session, participants will have trained their eye to see existing and potential stormwater issues, determine the best and most cost effective solutions, and learn the process for installing bmp's. *Kit Gage, Friends of Sligo Creek*

### **Project WET**

Are you interested in providing hands-on, environmental, cross-curricular activities for students? Do you know teachers looking for new ways to teach the same thing? Participants of this workshop will receive the award-winning Curriculum and Activity Guide 2.0 as well as online access to a Watershed Education Portal. Project WET provides teachers and non-traditional educators the tools they need to integrate water education into their work. All the activities correlate to the Common Core and Science standards and are valuable in communicating with your watershed constituents. They can also be used to develop a Meaningful Watershed Education Experience (MWEE) as described in grant applications. Come join Meredith for a learning experience you won't forget and door prizes! *Meredeth Dash, Alliance for the Chesapeake Bay (certified Project WET Facilitator)*

### **Privilege Walk (Gymnasium)**

This is a powerful group activity that examines the intricacies of privilege or lack thereof). The Privilege Walk provides participants with an opportunity to better understand personal, community, and societal privilege, and the role it plays in our collaborative work towards healthy and flourishing watershed communities. Reflective discussion to follow. *Chesapeake Collective*

### **Scales & Tales**

Scales & Tales, an environmental education program of the Maryland Park Service, affords people the opportunity to see live wildlife, mostly native to Maryland, up close and personal. This informative and entertaining program uses live non-releasable birds of prey and reptiles to promote stewardship of our wildlife and other natural resources. Through the stories, or "tales" of how these animals come into the care of the program, Scales & Tales naturalists discuss very important environmental issues, such as loss of habitat, environmental pollution, resource management and biodiversity. *Maryland Park Service*