# Spring into ACTION!



Seventh Annual Conference February 24, 2018 Northeast High School













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### The WSA Seventh Annual Conference would not have been possible without the fabulous Conference Committee and special assistance from:

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Lara Mulvaney Jennifer Vaccaro



#### **Spring into ACTION! Conference Overview**

8:00 am **Annual Steward Action Summit and Breakfast: Connecting Stewards to Action** 9:15 am Registration 9:30 am **Opening Keynote Address: Steve Raabe** 10:30 am Session 1 Track A. Nature Knows Best Cafeteria Lincoln Smith Restore Ecosystems & Produce Food with Forest Gardens Second Floor, C283 Track B. Detoxing Our Landscapes Land Management without Pesticides Jay Feldman First Floor, Media Center A Track C. Dynamic Engagement Increasing Diverse Engagement through Citizen Stewardship Kate Fritz Track D. WSA PRO Second Floor, Lounge Getting it Right: Rain Garden Retrofits in Public Spaces Kate Austin 11:45 am Session 2 Track A. Nature Knows Best Second Floor, C282 Lincoln Smith 1. Restore Ecosystems & Produce Food with Forest Gardens Track A. Nature Knows Best Cafeteria 2. Trees 101 Frank Rogers Track B. Detoxing Our Landscapes Second Floor, C283 Land Management without Pesticides Jay Feldman First Floor, Media Center A Track C. Dynamic Engagement Understanding Behavior Change Steve Raabe Second Floor, Lounge Track D. WSA PRO Liam O'Meara Schools of Thought: A Review of Stream Restoration Design Approaches from a Builder's Perspective



#### **Spring into ACTION! Conference Overview**

#### 12:45 pm Lunch Awards Program

#### 1:45 pm Gallery and Exhibit Walk

Zone 1: Funder Office Hours

Zone 2: Sponsors, Non-Profits and Vendor Exhibits

Zone 3: The Doctor Is In: Ask an Expert

Zone 4: Engagement Tools and Techniques

Zone 5: What's New with GIS?

#### 3:00 pm Session 3

Track A. Nature Knows Best

How Healthy Soil Can Help Restore the Chesapeake Bay

Cafeteria

Rich Mason

#### Track C. Dynamic Engagement

First Floor, Media Center A

Let's Do Something BIG: Lessons learned from the trenches of large project implementation Bob Royer, Chris Becraft, Betsy Love, Lou Etgen, Molly LaChapelle, Trish Hennessy-Webb and Claudia Donegan

Track D. WSA PRO
Watershed Protection and Restoration Program and YOU

Second Floor, Lounge Erik Michelsen

### 4:15 pm Closing Remarks: Spring into Action! Watershed Raffle and Silent Auction

Cafeteria

#### 4:30 pm Conference After-Party immediately following the Conference Closing:

The Greene Turtle 20 Magothy Beach Rd. Pasadena, MD 21122 410-437-0075



#### Session One

#### A. Nature Knows Best

Cafeteria

Restore Ecosystems & Produce Food with Forest Gardens

Lincoln Smith

Forest gardens produce an abundance of food and supplies while restoring a healthy forest ecosystem. In this workshop, we will review the principles of forest gardening with examples from Forested's 10-acre research site in Bowie, MD. Lincoln will discuss forest garden methods, some of the great plants you can grow and how to take care of them. Learn from Lincoln's 10 years of forest garden successes and learning experiences.

#### **B.** Detoxing Our Landscapes

Second Floor, C283

Land Management without Pesticides

Jay Feldman

Because of their hazards to human health, adverse impacts on air, land, water and ecosystems, as well as their contribution to global climate change, pesticide use and chemical-intensive pest management practices must be shifted to sustainable land management systems that eliminate a reliance on toxic chemicals. Learn why and how people and communities are moving to adopt organic systems that recognize the power of biological systems at a time when increasingly smaller doses of systemic chemicals wreak havoc on pollinators and biodiversity.

#### C. Dynamic Engagement

First Floor, Media Center A

Increasing Diverse Engagement through Citizen Stewardship

Kate Fritz

What do diversity, equity and inclusion mean to you? How can we, as a restoration community, make meaningful progress to increase the diversity of those engaged in restoring Anne Arundel County waterways? Join this dynamic work session that will lay the foundation for the upcoming WSA Diversity Summit. We need you! Be part of changing the landscape of citizen engagement.

D. WSA PRO Second Floor, Lounge

Getting it Right: Rain Garden Retrofits in Public Spaces

Kate Austin

Six years into Lancaster's Green Infrastructure Plan, inspections, maintenance and retrofits are key to keeping the City's GI practices functioning at optimum. Ms. Austin will present on the challenges of operating and maintaining GI practices in parks, right of ways and public properties and opportunities to improve upon previously implemented designs. This session will provide design, operation and corrective maintenance case studies of bioretention practices built on public land in the City of Lancaster, including rain gardens and vegetated curb extensions.



#### **Session Two**

#### A.1. Nature Knows Best

Second Floor, C282

Restore Ecosystems & Produce Food with Forest Gardens

Lincoln Smith

Forest gardens produce an abundance of food and supplies while restoring a healthy forest ecosystem. In this workshop, we will review the principles of forest gardening with examples from Forested's 10-acre research site in Bowie, MD. Lincoln will discuss forest garden methods, some of the great plants you can grow and how to take care of them. Learn from Lincoln's 10 years of forest garden successes and learning experiences.

A.2. Nature Knows Best Cafeteria

Trees 101 Frank Rogers

This TED style talk will quickly cover the science of exactly how forests improve lands and protect waters. Most of us know trees produce oxygen and offer shade that fights the urban heat island effect. Attendees will learn about many more benefits. To name a few, trees fight free radicals, stave off asthma, and improve cognitive skills. One study showed that people who have a view of trees from their hospital recovery room heal faster! "Food forests" are an emerging urban trend but people have been eating trees, every day, for years. What? My cereal has cellulose! Wood pulp in my parmesan is good for me! Along with fun factoids, attendees will pick up some quick, sharp, "elevator talk" about the science of how living with trees and protecting healthy forests have a direct impact on personal health. Attendees will leave equipped with tools to explore scientifically and quantify the benefits of trees to engage policy makers and municipal managers in making protree decisions.

#### **B.** Detoxing Our Landscapes

Second Floor, C283

Land Management without Pesticides

Jay Feldman

Because of their hazards to human health, adverse impacts on air, land, water and ecosystems, as well as their contribution to global climate change, pesticide use and chemical-intensive pest management practices must be shifted to sustainable land management systems that eliminate a reliance on toxic chemicals. Learn why and how people and communities are moving to adopt organic systems that recognize the power of biological systems at a time when increasingly smaller doses of systemic chemicals wreak havoc on pollinators and biodiversity.

#### C. Dynamic Engagement

First Floor, Media Center A

Understanding Behavior Change

Steve Raabe

Dig deep into the behaviors and motivations of the citizens of Anne Arundel County as understood through a special Anne Arundel County fielding of the Citizen Stewardship Indicator. How does behavior adoption in Anne Arundel County compare to the rest of Maryland and the Chesapeake Bay Watershed? How can these data inform your work on the community level to change behaviors and increase the adoption of beneficial practices?

D. WSA PRO Second Floor, Lounge

Schools of Thought: A Review of Stream Restoration Design Approaches from a Builder's Perspective Liam O'Meara

This is a review and discussion of the most commonly employed approaches to stream restoration in our region today from the perspective of someone who implements them. Design practitioners largely have the same goal, but there are several different philosophies when it comes to the best method for improving the natural function of streams. Surprisingly, in relatively small field, these can be radically different views and science has yet to prove which is most optimal. We'll review Natural Channel Design (NCD), Regenerative Stormwater Conveyance (RSC), Legacy Sediment Removal (LSR) and Passive Restoration/Beaver Dam Analogs (BDAs), while briefly looking at examples of each approach.



#### Gallery and Exhibit Walk

#### The Gallery and Exhibit Walk Has Expanded!

Float between any of five Gallery Zones and enjoy a variety of interactive exhibits and stimulating conversations. Specific times apply to Zones 1 and 5. A detailed map of the zones can be found in your conference folder.

#### **Zone 1: Funder Office Hours**

Second Floor of the Media Center, Room B202

\*\*\* By Appointment Only. Sign up at the Registration Desk through lunch.

Sign up for a one-on-one appointment with the region's most prominent funders. Sign-up sheet is located at the Registration Desk. A full list of funders is in your conference folder.

#### **Zone 2: Sponsor, Non-profit and Vendor Exhibits**

Atrium and Second Floor Hallway

Connect with the area's most active restoration companies. Learn about how local watershed organizations are working for clean water. Shop for products and services that will help you reduce your pollution to local waterways.

#### Zone 3: The Doctor Is In: Ask An Expert

First Floor, Media Center A

Do you have an environmental problem that needs a diagnosis? Not sure what you should do about that pesky invasive vine in your woods? Want to know which plants are best to attract pollinators? This zone is staffed by the area's experts in invasive plant management, native plants and pollinators, horticulture and design. We'll get hands on too with a demonstration on proper pruning and mulching techniques.

#### **Zone 4: Engagement Tools and Techniques**

First Floor, Media Center B

This hands-on zone will reinvigorate your stormwater outreach! From eco art, to interactive games for students, to mindfulness techniques, learn and share ideas for engaging your community.

#### **Zone 5: What's New with GIS?**

Second Floor, Room C231

\*\*\*One Session Only: 1:45-2:15 pm

Master Watershed Stewards Lara Mulvaney and Dave Gillum will provide a refresher course on the updated Watershed Protection and Restoration Program's GIS Mapping Application. Recent system updates provide powerful new tools and expanded potential to help you identify, plan and communicate about restoration projects in your community. This session will also include an introduction to other mapping applications such as MD iMap. Previous experience with mapping applications is suggested to get the most out of this session.

Thanks to you, dedicated Master Watershed Stewards, for volunteering your time and energy to engage your communities.

Your efforts are bringing about real change, and healthier waters!



**Steve Raabe, President** 

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#### **Session Three**

#### A. Nature Knows Best

Cafeteria

How Healthy Soil Can Help Restore the Chesapeake Bay

Rich Mason

A presentation and hands on demonstration of how soil provides clean water for people and our waterways. A discussion of how accelerating the use of soil as a restoration tool can have profound benefits for clean water, healthy food production and climate change. Included will be a primer on soil biology which provides the foundation for the cycling of carbon, nutrients, water and terrestrial life on our planet.

#### C. Dynamic Engagement

First Floor, Media Center A

Let's Do Something BIG: Lessons learned from the trenches of large project implementation Betsy Love, Lou Etgen, Molly LaChapelle, Trish Hennessy-Webb, Chris Becraft, Bob Royer and Claudia Donegan

Stewards Betsy Love and Molly LaChapelle are tackling projects that challenge even the most seasoned restoration professionals. Learn how they and their partners from Underwood & Associates, the Alliance for the Chesapeake Bay, WSA and their communities have navigated the pitfalls of community engagement, permitting and project management.

D. WSA PRO

Second Floor, Lounge

Erik Michelsen

Watershed Protection and Restoration Program and YOU

Learn about the steps being taken to improve Anne Arundel County's water resources. We'll detail the restoration, implementation and ecological evaluation work associated with the County's clean water obligations under its Municipal Separate Storm Sewer System (MS4) permit and the Chesapeake Bay Total Maximum Daily Load (TMDL).





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#### **Speaker Biography and Contact Information**

*Kate Austin* is the Green Infrastructure Asset Technician for the City of Lancaster, Pennsylvania. In this role, she reviews permits, inspects stormwater management practices, coordinates and, with her staff, performs maintenance on the city's 75 rain gardens and vegetated curb extensions. This is no small feat in a city of 7.4 square miles with an average of 50% impervious surface.

AustinK@cityoflancasterpa.com

Chris Becraft works for Underwood & Associates. From contract award through final construction, Chris supervises and coordinates the planning, design/permitting, and construction of all ecosystem restoration projects to ensure they are completed on time and within budget. In particular, Chris works collaboratively with clients, inspectors, client engineers, project partners, and all Underwood & Associates staff to ensure all expectations are met and all deliverables are achieved. Chris has a Bachelor of Science in Economics and minor Environmental Science from St. Mary's College of Maryland and previously worked for the Maryland Department of Natural Resources

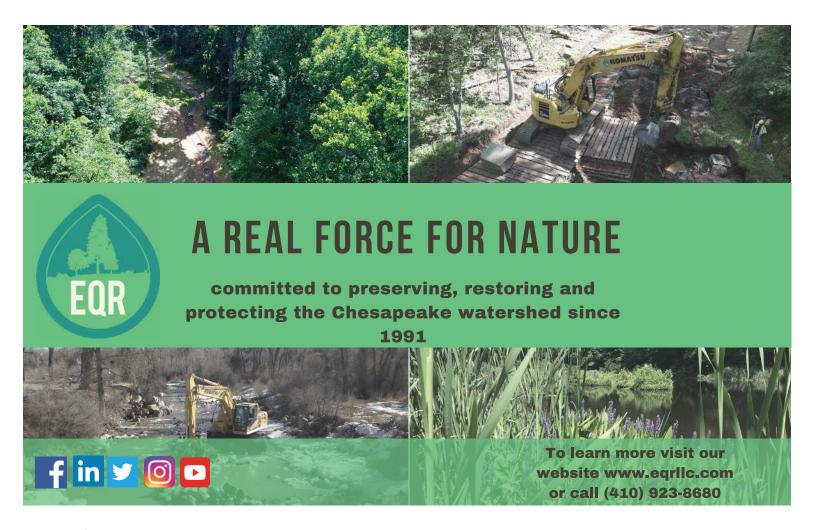
chris@ecosystemrestoration.com

Claudia Donegan is a 1982 graduate of St. Mary's High School in Annapolis. In 1986 she graduated from Denison University where she received a degree in Geology and immediately returned to Maryland to work on the Chesapeake Bay restoration movement. After 9 years with the Chesapeake Bay Foundation she began working in Montgomery County as a Stream Ecologist, which led to her present work at the Maryland Department of Natural Resources working with local governments throughout Maryland on nutrient pollution issues and outreach and education. For 7 years, Claudia served as the Chair of the City of Annapolis Environmental Commission, and is a founding member of the St. Mary's Parish Environmental Stewardship Committee. At DNR, she is proud of her 10 years as a Tributary Team Coordinator, her involvement in the establishment of the Maryland Children In Nature Partnership and recently, the completion of the first ever national local-level TMDL-focused Watershed Implementation Plans. Claudia now works to further ecosystem restoration projects throughout the State as part of the Habitat and Restoration Conservation Program, in the Chesapeake and Coastal Conservation Service. Claudia lives in Annapolis with her husband Mike and their two children, Eva and Fiona.

cdonegan@dnr.state.md.us

**Lou Etgen** is currently the Alliance's Maryland/DC Director after serving several stints as the Interim Director and Deputy Director. His interest in the support of local watershed groups has led to the creation of our annual Chesapeake Watershed Forum and our community networking tool, the Chesapeake Network. His Anne Arundel County work includes managing several large scale restoration projects that emanated from the RiverWise Congregations partnership.

letgen@allianceforthebay.org



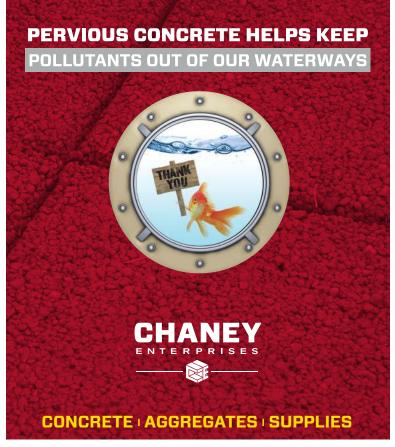


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#### **Speaker Biography and Contact Information**

Jay Feldman, Executive Director of the national environmental and public health group Beyond Pesticides, has a 30-year history of working with communities nationwide on toxics and organic policies, and agricultural and land management practices that maintain ecological balance, biodiversity, and avoid reliance on toxic chemicals. Jay has successfully fought for the removal of some of the most hazardous chemicals ever on the market and helped draft the Agricultural Productivity Act, which established the Low-Input Sustainable Agriculture (LISA) program at USDA that became the Sustainable Agriculture Research and Education (SARE) program, and later the Organic Foods Production Act. He currently serves on the executive board of the National Organic Coalition. Jay has written extensively in his organization's journal, Pesticides and You, and in opinion pieces from the New York Times to the Los Angeles Times, about the unnecessary use of pesticides given the effectiveness of sustainable and organic practices. He is now heading up a project with the National Park Service to adopt sustainable turf management throughout the system. Jay has dedicated his life to working with local people and community groups to empower and support action where government and chemical companies failed to provide adequate protection of health and the environment. Prior to his founding Beyond Pesticides in 1981, he served as the health programs director of Rural America, an advocacy group for rural areas and small towns. Jay has a Masters in urban and regional planning with a focus on health policy from Virginia Polytechnic Institute and State University (1977), and a BA from Grinnell College (IA).

jfeldman@beyondpesticides.org

*Kate Fritz* is the Executive Director of the Alliance for the Chesapeake Bay. Her interest in the Chesapeake extends beyond her love of kayaking and fishing, and has led her to many volunteer opportunities locally. She is a certified Master Watershed Steward, and was a founding member of the Board of Directors for the Anne Arundel County Watershed Stewards Academy (WSA).

kfritz@allianceforthebay.org

**Trish Hennessy-Webb** is the part-time Systems Administrator for WSA and maintains the WSA database and manages day to day financial processing for the office. Her background includes almost 20 years of environmental engineering and project management experience, including creating Watershed Management Plans and working alongside EPA developing the Stormwater Phase II Rule. In 2009, while she was a Steward in Class 2, she stepped in to help WSA while Suzanne was on maternity leave. After intermittently assisting WSA over the years, Trish joined the staff in 2015. Since moving to Maryland in 2008, Trish is enjoying her semi-retirement by spending her time with her family on the Magothy River.

thennessy-webb@aacps.org

*Molly LaChapelle*, Master Watershed Steward Class 7, used the skills and connections gained through that experience to win design funding for Berrywood Community Association Cattail Creek Stream Restoration Project. Molly is currently leading her community through the collaborative design process. The Cattail Creek Restoration project is unique because the design coordinates Cattail stream restoration with the restoration of the community recreation area. Molly was awarded the WSA Steward of the year in 2017 and is a member of Magothy River Association.

Mlachapelle125@gmail.com



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#### **Speaker Biography and Contact Information**

**Betsy Love** is a former convention director who brings organizational and development skills to her passion for clean water, native habitat, and climate resiliency. As a Master Watershed Steward, she led a successful initiative to mitigate a 28 acre municipal stormwater pipe drainage system polluting Back Creek at St. Luke's Episcopal Church and Watergate Pointe in Annapolis. This 1.2 million dollar project serves 8 best management practices of the Chesapeake Bay Program at a very accessible site. She is currently working to develop a 4 acre looped trail with teaching signage to offer environmental organizations, nature groups and public/private schools with the end goal of facilitating growth in environmental stewardship. Betsy became actively involved in cleaning up waterways as an officer of the Severn River Association in 2005 when a friend became seriously ill after swimming in the Severn with a scratch on his leg. She serves St. Luke's Episcopal Church as Environmental Committee Chair and is a director at Back Creek Conservancy and Severn River Association. Awards include Master Watershed Steward of the Year, Sierra Club's leadership award, the Alliance for the Chesapeake Bay's Maryland leadership award, and the Severn River Association's Green Heron Award.

betslove@icloud.com

**Rich Mason** grew up in Anne Arundel County Maryland and spent time messing around on the Chesapeake Bay and several of its tidal rivers. This led to a career in natural resources and his current position with the US Fish and Wildlife Service's Chesapeake Bay Field Office. He leads a small team that works to restore wetlands, streams, forest, and grassland habitat throughout Maryland. He developed a program for schools to restore wildlife habitat on school grounds and has been involved with several water quality studies on streams and rivers. He has also worked with for the Chesapeake Bay Foundation leading three day field trips on Chesapeake Bay for high school students. His passion for the outdoors and wildlife led him to develop the FrogLog which is a wildlife saving device used in swimming pools. He lives in Crownsville Maryland with his wife Barb, and two children Joe and Lilia.

rich\_mason@fws.gov

**Erik Michelsen** is currently the Administrator of Anne Arundel County's Watershed Protection and Restoration Program and is charged with managing a \$250 million dollar restoration program to clean up the county's waterways and satisfy its Municipal Separate Storm Sewer System (MS4) and Chesapeake Bay TMDL requirements. He previously served as Executive Director of the South River Federation where he helped attain funding for and implement over \$6 million in water quality improvement projects as well as spearhead the passage of a statewide requirement for stormwater utilities in Maryland's Phase 1 MS4 jurisdictions. Mr. Michelsen graduated from the University of Richmond and did graduate work in experimental psychology at Villanova University.

pwmich20@aacounty.org

Liam O'Meara is President of EQR, the largest and most accomplished ecological construction company of its kind. His background in infrastructure construction and his passion for the environment has brought him to lead over 200 employees in the charge to reshape the Chesapeake Bay Watershed into the pristine natural treasure it's meant to be. His project portfolio includes miles of stream restoration for federal, state, local, and private clients. Liam holds a MS in Development from the University of Maryland, and is a USGBC LEED Accredited Professional. However, his most important joint venture, with his wife Emily, has brought them to lead their 3 tiny eco-warriors in the fight to be the happiest and greenest family they can be. Liam grew up playing in the streams, creeks, and rivers of Anne Arundel County, and strives to deliver that experience to future generations.

lomeara@eqri.com



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#### **Speaker Biography and Contact Information**

Steve Raabe is president of OpinionWorks, a full-service market research firm based in Annapolis, Maryland. Steve Raabe founded OpinionWorks in 2001 to provide mission-driven clients with critical insights into consumer behavior and public attitudes based on scientifically-sound survey research. He has built an active survey research firm specializing in helping for-profit, non-profit, and public sector clients reach and engage their customers, stakeholders, and the public on important issues. His expertise is understanding the cues to individual and consumer behavior through probative interviewing and representative sampling. Mr. Raabe attended American University in Washington, D.C., earning a Bachelor's Degree in Political Science and graduating cum laude in 1986. He is a past member of the City of Annapolis, Maryland Conservancy Board and has founded a park and heads the tree-planting initiative in the West Annapolis neighborhood. He is an active community volunteer, having served on the Board of the Lighthouse Shelter, a homelessness prevention organization located in Annapolis, and for various other local projects. Steve and his wife are active historic preservationists, having restored an 1812 Federal-style house and operated it as a bed and breakfast for five years.

steve@opinionworks.com

*Frank Rodgers*, Director of Cacapon Institute, is a member of the CBP Forestry Work Group, leader in the Potomac Watershed Partnership, and ISA Certified Arborist. Frank was involved in early urban tree canopy mapping in Baltimore and made the breakthrough of mapping land cover by property parcel—the scientific foundation of today's stormwater utility fees. Frank dates his environmental legacy back to his 1978 Eagle Scout project on Rock Creek. He served Parks & People Foundation (Baltimore) as an Urban Watershed Forester and currently works across the Upper Potomac and Potomac Highlands in urban, suburban, and rural communities.

frodgers@cacaponinstitute.org

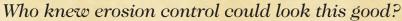
**Bob Royer** is a retired vice president of Northrop Grumman International Systems and enjoys volunteering on the Berrywood Community Watershed Committee. The committee is launching a \$950k restoration project for Cattail Creek, funded by Maryland State DNR and AA County/Chesapeake Bay Trust. The committee is also coordinating this restoration project with a Berrywood Community recreational space infrastructure improvement program which will further enhance the restoration efforts by enabling the removal of existing bulkheaded areas to become a living shoreline habitat. In preparation for the execution of the restoration project, Bob led a separate grant effort funded by AA Forestry/ Chesapeake Bay Trust for invasive vegetation removal and reforestation planting. Bob also volunteers his time with the Magothy River Association (MRA) in support of the MRA's extensive water quality measurement program of both open river and shore emplaced monitoring stations. Bob has also participated on the circumnavigation of the river to monitor the health and growth of the Magothy's grasses and sub aquatic vegetation.

robert.royer@verizon.net

*Lincoln Smith* runs Forested, a 10-acre forest garden in Bowie, MD. He tests forest farming methods; designs forest garden landscapes, farms, and parks; trains aspiring forest farmers; holds forest-to-table events; and generally helps people reconnect with the forest. www.Forested.us

lincoln@forested.us







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#### **Architectural Gardens**

Missy Jones, owner of Architectural Gardens, is a Master Watershed Steward in Anne Arundel County. In 1969, her father a landscape contractor, moved to Round Bay on the Severn River where she enjoyed daily recreational activities of swimming, boating and crabbing. Her passion is everything water related and aspires to do what is right, to apply common sense and a practical attitude to problem solving. In 2004, Missy created Architectural Gardens, a landscape company specializing in design/build and maintenance of residential landscapes with an environmental approach. Over the years, Missy and her team have encouraged homeowners to be mindful of conservation landscaping techniques when making improvements to their property, thus reducing the negative impact of storm water runoff into the local watersheds. The list of services for Architectural Gardens includes but is not limited to: drainage solutions to manage storm water runoff, design services for conservation landscaping, installation of permeable hardscapes and maintenance of bioswales for HOAs, county owned BMPs or for privately owned homeowners. As a certified woman owned business, Architectural Gardens believes in conservation of our natural resources, preservation of our 'sense of place' and protection of our wildlife.

Please visit www.arch-gardens.com for more information.



#### **Chesapeake Bay Roasting Company**

Chesapeake Bay Roasting Company (CBRC) is a certified organic coffee roaster established in Crofton Maryland in 2002. Our Mission is to create, roast and distribute the region's finest specialty grade, fair trade & organic coffees and to contribute back to environmental causes and community events that directly impact the health of our regional treasure, the Chesapeake Bay. Over the years CBRC has contributed coffee, time and funding to various local watershed clean-up groups, community composting organizations, local schools and both national and worldwide non-profit organizations that can help in the education and improvement of water quality. Taste the Difference. Making a Difference.



#### **Environmental Quality Resources, LLC**

At EQR, we are environmental construction experts, who work to improve our natural world in a positive way each day. We work hard to restore each watershed and building a legacy in environmental construction. We are immersed in the business of saving watersheds for future generations to enjoy. EQR is a local, Maryland-based company working to save our beautiful Chesapeake Bay and associated tributaries to lessen negative impacts on nature's most precious resource, water.



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McHale Landscape Design is a residential landscape architecture company and design-build firm dedicated to designing and constructing extraordinary residential gardens, pools, outdoor living areas, and home additions. Since 1981, the firm has designed, constructed and planted many residential projects, including more than 300 award-winning landscapes. Combining landscape architecture, horticulture knowledge, and field experience, our professionally licensed and certified staff help you create beautiful gardens and living spaces. With an interactive design-build process, McHale Landscape Design views every client as an important part of the team. Our goal is to be your single source for the entire project, from design to implementation to aftercare.

#### **OpinionWorks**



OpinionWorks is a full-service research and strategy firm, founded in 2001. Our home base is the Chesapeake Bay region, but our work has expanded to be national in scope. We are experts in conducting opinion studies for non-profits, public sector agencies, issue advocates, and the news media. Our specialty is understanding audience motivations, identifying their barriers to action, and testing messages and techniques to overcome those barriers and bring about engagement and change. View our work at www.OpinionWorks.com.

#### **South River Federation**



The South River Federation, located in Edgewater, Maryland is a local environmental non-profit whose mission is to protect, preserve, restore, and celebrate the South River watershed and its interdependent community. We have completed over 70 restoration projects during our 17 years of operation. We also conduct comprehensive water quality monitoring across the watershed, engage almost 1,100 volunteers a year, and actively advocate for protective measures for the river.





### Sweetbay Magnolia Sponsors

#### BayLand Consultants & Designers, Inc.

BayLand Consultants & Designers, Inc. (BayLand) is a full-service engineering and environmental firm specializing in ecological restoration and development of essential infrastructure projects that are located at or near the land-water interface. We are committed to smart and sensitive development around all types of waterways and we thrive on environmental restoration and ecological uplift of wetlands, streams, ponds, lakes, rivers, bays and the ocean. Services – watershed assessment and restoration; stream, wetland and ecological restoration; stormwater management and BMPs; estuarine restoration; shoreline protection and restoration; dredging and navigation; marine infrastructure; permitting and regulatory compliance.

#### Cavano's Perennials, Inc.

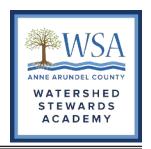
Cavano's Perennials, Inc. is a wholesale container nursery located on two properties in Kingsville, Maryland just northeast of Baltimore MD. We offer to the trade top quality Perennials, Ornamental Grasses, Ferns, Vines, Herbs, Low Impact, Natives and other Seasonal Plants grown in our own greenhouses. We deliver on our trucks to garden centers, nurseries, landscape contractors, and re-wholesalers in the northeastern US. Our plants can be found in various high visibility institutions and residences in Maryland, Delaware, Pennsylvania, New Jersey, Washington DC, Virginia & West Virginia and New England. We have over 1265 choices of plants and sizes throughout the season over 1/3 of which are native or native selection, and our primary container sizes are: #1, 1 quart, and #2 pots.

#### **Chaney Enterprises**

Founded in 1962 by Eugene "Babe" Chaney and built on a foundation of integrity, every member of the Chaney Enterprises team pours their heart and soul into every job. We are passionate about providing ready-mix concrete, sand, gravel, stone, blended soils, and related construction supplies to our customers throughout Maryland, Northern Virginia and the Delmarva Peninsula. The entrepreneurial spirit and hard work ethic started by Babe Chaney continues to this day. From our headquarters in Gambrills, Md., the company operates 18 ready-mixed concrete plants, nine sand and gravel facilities and BuilderUp, a professional building supply operation with locations in Waldorf and Owings, Md. For more information visit www.ChaneyEnterprises.com

#### GreenVest, LLC

GreenVest is an environmental development and consulting firm, specializing in ecological restoration, mitigation services, and sustainable land planning. We align financial goals with sustainable solutions to develop meaningful projects that have a positive impact on future generations. Our team of professionals offers a diverse array of skills that cross multiple disciplines including, ecological restoration, sustainable land planning, real estate services, regulatory compliance, and funding of restoration efforts leading to the development of mitigation values.



### Sweetbay Magnolia Sponsors

#### **Homestead Gardens**

Located in Davidsonville and Severna Park, MD. Homestead Gardens is the premier garden center in the Baltimore and Washington, D.C. metropolitan areas. Founded in 1973 by Don Riddle, Jr., our landmark nursery in Davidsonville boasts the area's largest selection of annuals, perennials, trees and shrubs, patio furniture, garden decor and more. From our humble beginnings as a roadside stand, Homestead Gardens has since expanded. Our stores are on the forefront of advances in garden technology, soil conservation and sustainability, hydroponics and more. Our Davidsonville store has an entire department dedicated to 'Modern Homesteading', where we sell indoor gardening supplies from seed starting to hydroponics and more. We offer workshops and meet - ups to the public on topics ranging from pollinator gardens, storm water management to composting, landscaping and more. Our Fall Festival and Holiday weekends are a tradition in the community. Visit www.homesteadgardens.com.

#### **Hustead Landscape Architecture**

Through a systematic approach we discover the unique features of each site and build upon this to create memorable spaces. A main focus of HLA is exploring creative stormwater design solutions that celebrate rain as a resource and an amenity. Our projects include all different scales and seek to incorporate creative designs for that one unique location or strategically designed throughout a project.

#### **Insurance Management Associates**

IMA has been providing their professional services since 1989. As an independent agency, they represent over 30 different carriers. To their clients, IMA provides a full range of insurance services, from home and auto to Commercial insurance and bonding. Michael Wagener is the lead agent for their Environmental insurance section. His career began in 1982, and he is currently Vice President, as well as a WSA graduate and a founding Board Member. Insurance Management Associates' clients represent some of the area's leading environmental companies ranging from design firms to natural resource management and remediation firms. Our knowledge of insurance products and risk management combined with our passion for the environment drive our professional commitment to all our clients.

#### **McKenzie Contracting**

An environmental construction and landscaping organization that specializes in stormwater management maintenance and install. Licenses and Certifications include: MD Licensed Tree Expert, MD Licensed Marine Contractor, MD Home Improvement License, MDE Sediment & Erosion Control Green Card, and Chesapeake Bay Landscape Professional. Bio-Retention Ponds, Living Shorelines, Tree Removal/Trimming, Pervious Paver installation, Rain Gardens, Concrete Demolition, and Sediment/Erosion Control Devices are all services provided to Southern MD and surrounding areas. All services provided are meant to enhance the landscape both environmentally and aesthetically, as well as help customers meet State and Federal regulations. Visit our website at mckenzie-contracting.com.





### Sweetbay Magnolia Sponsors

#### Schwartz Realty, Inc.

Serving the Bay Country for over 60 years! Let your search for a real estate professional end here. Our office of qualified real estate professionals are ready to assist you with any of your real estate needs. Our local home-town approach is customized for each client.

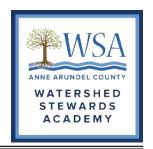
Please view our website as an introduction of our services and capabilities in this local area. Give us a call or send an email when you are ready to visit some homes, or to schedule a free home selling consultation. We look forward to working with you!

#### **Straughan Environmental**

Straughan is a Maryland-based company with over 90 employees focused on environmental management and engineering to support development while improving the human and natural environment. Founded in 1995, Straughan promotes a multidisciplinary approach to environmental assessment, planning, and design to produce better project outcomes. We strive to advance sustainable solutions for our clients and our communities, which requires the relentless pursuit of ideas to improve the projects and programs of our clients. For more information, please visit www.straughanenvironmental.com.

#### **Underwood & Associates**

For over thirty years Underwood & Associates, Inc. has been developing methods and techniques to restore and reintegrate watershed ecosystems into the human occupied landscape. U&A invented and has subsequently been the leader in research, development, education, and construction of Sand Seepage Wetlands, integrated streams and wetlands, Regenerative Stormwater Conveyance, and Coastal Plain Outfall systems. During this time we have developed a regenerative and holistic approach to stream, wetland, and shoreline restoration. We provide design, permitting, and construction services based on our in-depth understanding of water cycles and ecosystem processes in order to restore degraded ecosystems, wetlands, streams, and stormwater systems.



### **Serviceberry Sponsors**

#### **Atlantic White Cedar Conservation, LLC**

Atlantic White Cedar Conservation was established in 2011. Our goal is to restore this threatened species and make it available for ecological restoration, storm water management, stream restoration and coastal plain outfall projects in Maryland to help establish a thriving population again.

We grow the trees from seeds which are collected locally in the Delmarva area including Maryland, Virginia and Delaware. Our nursery is located at Ivy Neck Farm, a 10th-generation family farm which is dedicated to preserving the environment. The Ivy Neck Farm takes part of Community Supported Agriculture (CSA) through the Ivy Brand Farm. We prefer to start our trees from seedlings. This way, no two are exactly alike and pathogens are less likely to affect the trees which could decimate single-clone populations.

#### **Bray Hill, LLC**

Bray Hill, LLC is an environmental planning and design firm specializing in water quality projects, including stream restoration, living shorelines, wetland creation and stormwater retrofits. The owner, Colin MacLachlan, is a Maryland registered landscape architect with more than 20 years of experience successfully designing and implementing environmental projects in Maryland. Bray Hill's services include:

- environmental site assessments
- construction-ready plan preparation
- local, State, and Federal permitting

Recent clients include:

- Fort Belvoir Department of Public Works
- American Water
- Arundel on the Bay, Inc.
- Carroll County Government

- construction supervision
- post construction monitoring
- Loch Haven Community Association
- West Rhode Riverkeeper
- ShoreRivers

#### Ciminelli's Landscape Services, Inc.

Our Commitment: to provide our customers with quality landscape construction and maintenance as well as friendly and responsive customer service. Our goal is to meet the needs of our customers by enhancing and beautifying their homes as well as solving any existing landscape problems. We specialize in landscape renovation and construction with craftsmanship and Eco-landscaping incorporating environmentally sensitive solutions to landscapes using Rain gardens, Storm water management, Green roofs, Living walls, Native plantings, Permeable pavement and more.

We run our business with integrity in all areas while designing and installing landscapes that meet the needs and exceeds the expectations of our customers.

We provide respectful working conditions for our employees and commit to the community by participating in charitable outreach in local schools, Christmas in April, See Forever Foundation, Annapolis Historic Society, The River Keepers, The Chesapeake Bay Foundation and more. Matt Ciminelli was in the first group of professionals in the nation to obtain the certification as a Green Roof Professional. We are certified LiveRoof installers and Interlocking Concrete Products Industry and National Concrete Masonry professionals.

Ciminelli's Landscape Services has over 20 years of experience and will work with you to create a landscape that is beautiful, creative, functional and within your budget. As always, all of our work is guaranteed. Your satisfactions is our goal.



### Serviceberry Sponsors

#### Deborah M. Schwab Landscape Architecture

Deborah Schwab Landscape Architecture has been providing environmentally sensitive landscape design services for over 20 years in Maryland. Our focus is construction plans for projects of all types to satisfy Critical Area, Forest Conservation and Historic Preservation requirements, as well as working with other design professionals and contractors on stormwater management projects.

#### EcoGardens, LLC

Mel Wilkins is a founding member of Spa Creek Conservancy (SCC) and program developer and manager for the Back Creek Nature Park Stormwater Education Experience (SEE) and Quiet Waters Park Watershed Education Experience (WEE) initiatives. He was awarded the distinguished 2004 Ellen Fraites Wagner Award from the Chesapeake Bay Trust. The award recognizes a Maryland citizen for his or her exceptional contributions to the protection and restoration of the Chesapeake Bay and its rivers. In addition to acting as a watershed restoration and mitigation project development and management consultant for over seventeen years, he has executed over 50+ SCC watershed programs consisting of 100's of stormwater Best Management Practices; including green roof, wetland restoration, filtration and infiltration systems, living shorelines, streambed - ravine restoration, conservation landscaping, and pervious concrete installations. All with a focus on ultra-urban Environmentally Sensitive Design and Low Impact Development challenges. He has developed and implemented several community small watershed assessment and action plans. His ecologically sensitive gardens have been nationally recognized, e.g., ARC of Central Maryland Sensory Garden for individuals with developmental disabilities.

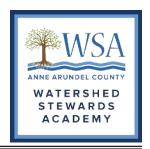
#### **Ecosystem Planning & Restoration**

EPR was established in 2012 to be a premier environmental planning and ecosystem restoration company. Our desire is to provide environmental services with the highest quality products, and to improve the science and application of stream and wetland restoration through innovative projects and applied research. Ecosystem Restoration: We tailor innovative solutions to meet our client's goals and objectives, within the real-world constraints that are a part of every project. Environmental Planning: Our environmental planning services assist federal, state, municipal organizations, and private clients with their regulatory compliance needs.

#### **Good Earth Gardeners**

Good Earth Gardeners provides landscape design and fine garden maintenance services. We create gardens that are ecologically sensible, working to combine elements of your style and vision with site conditions. Utilizing 15 years of experience and a vast knowledge of plant material, our modern landscaping style is 'carefully wild', resulting in spaces that are not only beautiful, inviting spaces but fully incorporate a complete system - managing storm water, creating habitat and nurturing your connection to your natural surroundings for a joyful experience.

GoodEarthGardeners.com info@goodearthgardeners.com 410.212.7014



### **Serviceberry Sponsors**

#### Hyatt & Weber, P.A.

Founded in 1979 by Alan Hyatt, a real estate attorney, and expanded in 1993 when Paul Weber merged his established civil litigation practice into the firm, Hyatt & Weber has grown into one of the leading law firms in the Mid-Atlantic region. Headquartered in Annapolis, Maryland, the firm has three additional offices in Baltimore and Northern Virginia to serve clients living and doing business throughout the state of Maryland. The many legal capabilities offered by Hyatt & Weber provide businesses and individuals with creative solutions they need to achieve their goals, sound tactics to protect their interests, practical options to resolve difficult disputes and strategic advice to expand their horizons. Our practice areas encompass: Commercial Litigation, Estate Planning and Probate, Insurance Coverage, Land Use and Zoning and Real Estate.

#### Langton Green, Inc.

Langton Green, Inc. has provided residential services for adults with disabilities for over 30 years. For the past 9 years we have also offered innovative Day Programming options including vocational training and work opportunities on a 13 acre sustainable farm in Millersville, MD.

#### Sylva Native Nursery

Sylva Native Nursery is a wholesale grower of Mid-Atlantic native plants for rain gardens, reforestation, meadows, riparian areas, and wetlands. We specialize in large landscape-ready native trees and shrubs.



#### **Connect and Collaborate**

Stay connected to the WSA network using the tools below.

#### **Vendors and Contractors**



http://aawsa.org/connect/

Find the right contractor or vendor for your next project!

#### **WSA Consortium of Professionals**



http://aawsa.org/consortium/

Learn about the many professionals who support Steward work. If you have professional skills to share, read about the role of our Consortium, and consider joining the consortium via our online form.

#### Find Watershed Stewards in Your Area



http://aawsa.org/contact-a-steward

Use our interactive map to find a Watershed Steward in your area, or use one of the email forward accounts to communicate to the whole network of Stewards in your watershed.

#### **Local Watershed Groups**



http://aawsa.org/local-watershed-groups

Connect with a local watershed group and stay involved with local waterway action!

Connect with WSA on social media:



@h2Oshedstewards

facebook.com/H2Oshedstewards



#### **Tools for Stewards**

The tools below were developed to support the work of Watershed Stewards and Consortium. Some resources are password protected. Please contact the WSA office for more details.



#### **Tools for Stewards**

http://aawsa.org/tools/

Visit our Tools for Stewards page to find resources and tools such as the Conservation Landscape Design Tool, WSA Rainscaping Manual, Funding Spreadsheet, Permitting Spreadsheet and more!



#### **Report Your Steward Action**

http://aawsa.org/steward-action-landing-page/

Use our online form to easily report on your work for clean water and recertify as a Master Watershed Steward. We depend on your activity reports for grant reporting, updating publications, and garnering additional support for WSA's work in Anne Arundel County.



#### **Outreach Materials**

http://aawsa.org/request-for-outreach-materials/

Stewards, please us this page to request all of your outreach materials.



#### Quickly Access Steward Forms

http://aawsa.org/stewardforms/

Master Watershed Stewards can easily access forms frequently used for outreach and restoration activities including rain barrel order forms, RSA templates, media release forms, release of liability forms, and more.



#### **Steward Only Resources**

http://aawsa.org/courseresources/

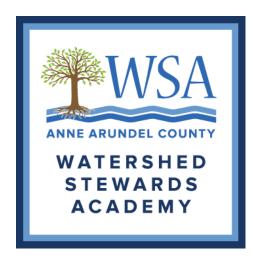
Certified Master Watershed Stewards and Consortium Members can access the newest materials and resources from the current certification course, and view presentations from the latest continuing education session. Contact the WSA office for passwords.

#### **WSA Office and Staff Contacts**

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Katie Foster, Development and Communications Coordinator
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### **OUR IMPACT**

Since 2009, WSA has certified over **200** Master Watershed Stewards representing over **100** communities and **25** houses of worship from Brooklyn Park to Herring Bay.

Collectively these Stewards have:

- Installed over **2,300** projects, from rain barrels to stream restoration
- Provided 142,491 Anne Arundel County residents with environmental education and technical assistance
- Donated over **34,580** hours towards work to ensure clean waters

### **OUR IMPACT FUND**





In 2018, the Watershed Stewards Academy aims to raise \$100,000 for two important initiatives:
RiverWise Congregations and Steward Projects.

With your support we can **empower more congregations** and **provide critical support** to Master Watershed Stewards as they pursue projects large and small, **engaging communities across Anne Arundel County.** 

For more information and to donate, visit www.aawsa.org/impactfund

With your help, we can make a BIG IMPACT on Anne Arundel County.

WSA is grateful for the support and partnership of











