

Runoff Review

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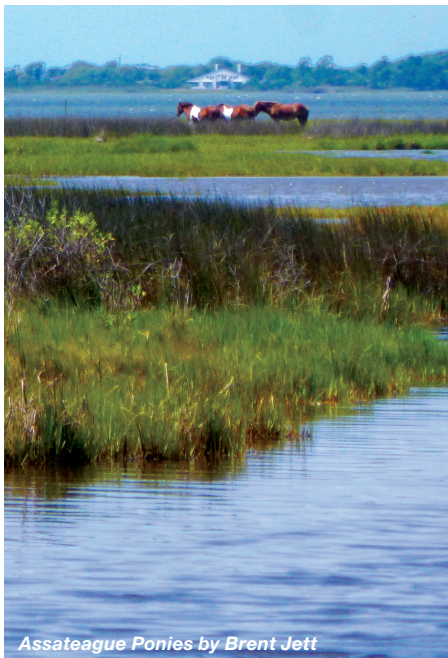
Call for Abstracts: 13th Annual MAFSM Conference

The 13th Annual MAFSM Conference will take place on October 12th, 2017 at the Maritime Institute in Linthicum, MD. We are now accepting abstracts and encourage you to submit! Presentations will be selected at the discretion of the Program Committee.

Abstracts should deal with topics relating to stormwater and floodplain management in Maryland or other areas within the United States, and will be accepted in the following subject areas:

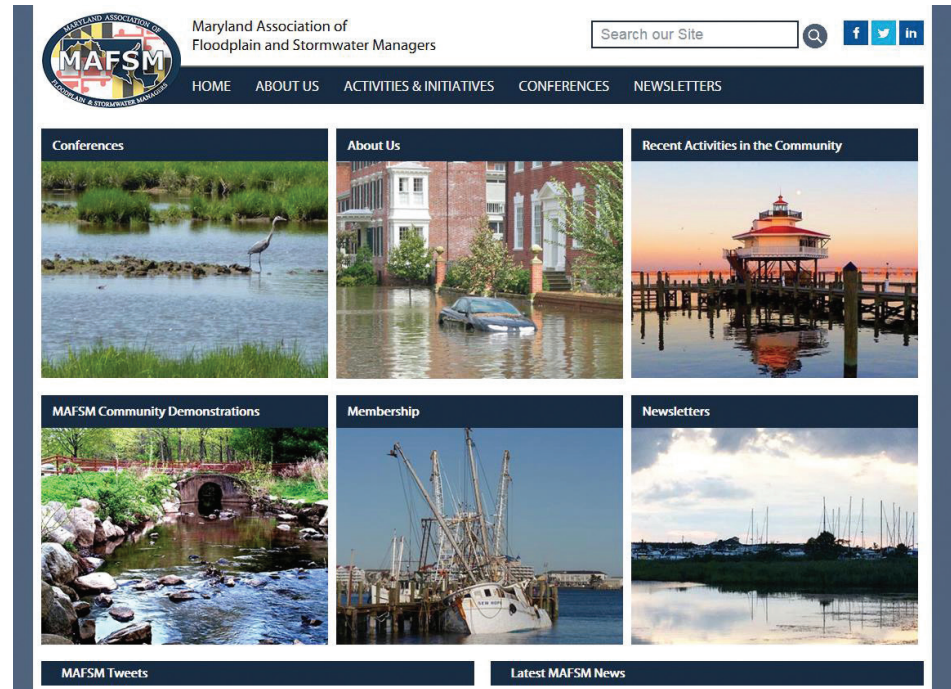
- Floodplain Management/Mapping
- Stormwater Management
- Mitigation
- Climate Change
- Outreach
- Other

The deadline for submission is June 26th. To submit an abstract [click here](#).



Assateague Ponies by Brent Jett

MAFSM's Enhanced Social Media Presence



MAFSM Redesigned Website



[@mafsm.org](https://www.facebook.com/mafsm.org)



<https://www.linkedin.com/groups/2418448>



[@mafsm_org](https://twitter.com/mafsm_org)

During the past year, MAFSM has focused on improving our presence on various social media platforms. This includes new Facebook and LinkedIn pages, a Twitter handle, and a redesigned website that was launched this spring. We are confident that this will allow us to more effectively accomplish our mission to promote public awareness, provide educational opportunities, and disseminate information concerned with sound floodplain and stormwater management.

Ward's® 3D Flood Simulation Model, Recent Demonstrations

On March 29, 2017, our Membership Chair, Paul Slonac, presented the Ward's 3D Stormwater Floodplain Simulation System to over 40 students at the Salvation Army Boys and Girls Club of Glen Burnie. There were two separate presentations, with the students being divided by age group. They learned about flooding, water quality, and how development in floodplains can have adverse impacts on the environment.

Other recent demonstrations of this model included:

- Discover Engineering Family Day, National Building Museum, Washington, DC
- Howard County Greenfest, Columbia, MD
- Children and Company Cooperative Preschool, Columbia, MD



Ward's 3D Model Demonstration at the Salvation Army Boys and Girls Club

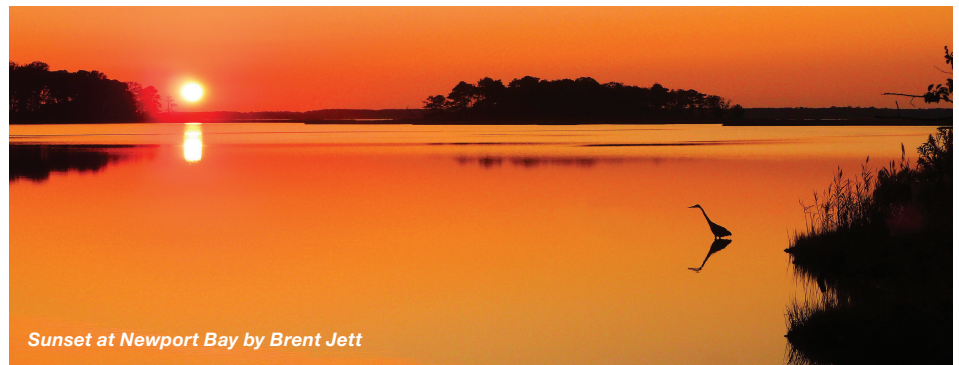
If you are interested in using the Flood Model at a local school or event, please contact Paul Slonac (PSlonac@mbakerintl.com) or Ben Kaiser (benjamin.kaiser@aecom.com).

MAFSM Participates with the Alliance for the Chesapeake Bay Local Government Advisory Committee (LGAC) in Streamlining Integrated Infrastructure Implementation

By Mary Roman, MAFSM, Stormwater Co-Chair (AECOM)

Under the leadership of Mary S. Gattis, AICP, Director of Local Government Programs/LGAC Coordinator for the Alliance for the Chesapeake Bay, MAFSM was invited to participate in the Local Government Forum held in June 2016 hosted by the Alliance for the Chesapeake Bay in collaboration with the Chesapeake Executive Council and the National Fish and Wildlife Foundation. Through presentations, case studies, and facilitated group discussion, participants identified issues and developed recommendations for streamlining project implementation. Mary Gattis also presented on this topic at the MAFSM 2016 fall conference and solicited input from the conference participants to inform the recommendations. Findings, recommendations, and next steps are presented in "Streamlining Integrated Infrastructure Implementation, "Dig Once" Strategy Development Workshop, which can be found at: http://www.chesapeakebay.net/documents/GI_Integration_Final_Workshop_Report.pdf.

The main focus of the forum was to explore ways to integrate Green Infrastructure (GI) into other types of capital projects and to streamline the implementation of projects that incorporate GI. Using case studies to identify obstacles encountered in the implementation of GI infrastructure projects, participants developed recommendations for streamlining project implementation and incorporating green stormwater infrastructure into traditional capital/maintenance projects such as streetscape enhancements. Recommendations included educating staff and elected officials about incorporating GI into a wide range of projects, pooling resources, facilitating regional collaboration through workshops, and establishing dedicated funding mechanisms for GI.



Sunset at Newport Bay by Brent Jett

Participants were all problem solvers with experience funding/implementing GI projects, and included federal funding partners (EPA, DOT, HUD, et al.), state funding partners (state revolving fund managers, etc.), local government officials from throughout the watershed (public administrators, public works directors, municipal finance directors, municipal engineers, and planning directors), U.S. and State DOTs, and associations, including MAFSM, Water Environment Federation, and Virginia Association of Metropolitan Stormwater Agencies.



Central Region Happenings

Rachel Beebe, Office of Community Sustainability, Howard County Government

Howard County Government did a lot to increase stormwater and environmental awareness in the month of April! Here are just a few highlights:

GreenFest is an annual festival at Howard Community College that brings together local vendors, residents, and educators to learn about the environment. This year, MAFSM presented its watershed model to passersby. The event, held on Earth Day 2017, drew over 2,000 people despite frequent rain showers. The Office of Community Sustainability, Bureau of Environmental Services, Department of Recreation and Parks, and several others collaborated to make this event a repeated success!

[Click here](#) to learn more.

20-Minute Cleanup

Every year on Earth Day, the Howard County Office of Community Sustainability encourages its citizens to go outside and pick up trash for just 20 minutes. This is an easy way for residents to get involved in protecting the environment and beautifying their communities. As MAFSM members know, keeping litter off the streets keeps it out of our waterways. Since 2010, the event has had 12,000 known participants. This year alone, over 1,100 participated, and the final count has not even arrived! [Click here](#) to learn more.

Rain Gardens for Clean Water Tour

On Saturday, April 29th from 10 a.m. to 12 p.m., the Office of Community Sustainability hosted a tour of residential stormwater management practices in the Ellicott City area. Participants learned about general stormwater management and had the opportunity to talk with past Rain Gardens for Clean Water participants about their experience with rain gardens and rain barrels. They were also connected with various financial and technical resources to help make their own stormwater project a reality. [Click here](#) to learn more.



Game of Floods Training Participants

Game of Floods Training for Decision-Makers and City Staff

Kristin Baja, Climate and Resilience Planner, Baltimore City

The Game of Floods is an interactive game-based exercise to help participants understand the process of conducting a vulnerability and risk assessment and think about strategies to protect city assets from existing and future flooding. The game is played in a series of steps and integrated into a presentation. Attendees progress through the steps from climate science, to asset inventory, to vulnerability, risk, and adaptation planning.

The game uses real-world examples to help develop customizable training materials for city governments. The focus is on one impact (flooding) within two sectors: transportation and stormwater management. The climate training includes a customizable toolkit that local governments can use to train their own staff on opportunities to support progress on climate adaptation and resilience. The toolkit includes real-world examples gathered from cities and partners, and customizable template training materials that embed equity and climate justice principles.

Kristin Baja, the lead on this project, is available to run this game with you and your city staff members. She can be reached at kristin.baja@gmail.com.





Hunting and Fishing by Brent Jett



Catch Ya Later! by Brent Jett

MAFSM Representation on the Board of the Association of State Floodplain Managers

Necolle Maccherone, CFM of Michael Baker International and active MAFSM member, was recently elected to the Board of the Association of State Floodplain Managers (ASFPM) as Region 3 Director representing the States of Delaware, Maryland, Pennsylvania, Virginia, West Virginia, and the District of Columbia.

MAFSM has been a state chapter of ASFPM since 2006. ASFPM is a national organization of professionals involved in floodplain management; flood hazard mitigation; the National Flood Insurance Program; and flood preparedness, warning, and recovery. ASFPM represents flood hazard specialists of local, state, and federal government; the research community; the insurance industry; and the fields of engineering, hydrologic forecasting, emergency response, water resources, and others. Its mission is to promote education, policies, and activities that mitigate current and future losses, costs, and human suffering caused by flooding, and to protect the natural and beneficial functions of floodplains.

Part of Necolle's responsibilities is to learn the interests and concerns of regional members and state and local officials in Region 3. She can be contacted at Necolle.Maccherone@mbakerintl.com.



ASFPM 2017-2018 Board of Directors

From left to right: ASFPM District 3 Chapter Director Tara Coggins (MS); District 1 Chapter Director Janet Thigpen (NY); Region 5 Director Rod Renkenberger (IN); Chair Maria Cox Lamm (SC); Region 7 Director Steve Samuelson (KS); Region 9 Director Jeanne Ruefer (NV); Region 4 Director Del Schwalls (FL); Region 6 Director Jessica Baker (TX); Treasurer Amanda Flegel (IL); ASFPM Deputy Director Ingrid Wadsworth; Region 3 Director Necolle Maccherone; Vice Chair Brian Varrella (CO); and District 5 Chapter Director Dianna Woods (WA).



Make Preventing Tick Bites a Priority

By Marilyn Williams, CFM, Floodplain Manager for Wicomico County, MD, and Executive Director of the Lyme Disease Association of Delmarva, Inc.

Ticks can be found any time temperatures are consistently above 28 degrees Fahrenheit. The three most common ticks in the Mid-Atlantic region are the deer tick (sometimes referred to as the black legged tick), dog tick, and Lonestar tick. All of these species have been found to carry Lyme disease, as well as many other organisms.

While Lyme disease receives most of the attention, ticks in our area are often loaded with other dangerous bacteria, viruses, and parasites, and each type of infection requires separate testing and treatment. What makes these illnesses unique is that they can affect each person differently.

Unfortunately, researchers have found that laboratory testing for many tick-borne diseases have limitations. A positive test can indicate the presence of an infection, but research has shown that many common tick-borne diseases cannot be excluded in the diagnostic process with a negative test result. Due to these testing challenges, many patients have reported being misdiagnosed. For a detailed list of symptoms of Lyme disease, visit <https://canlyme.com/lyme-basics/symptoms/>.

We are also seeing an increasing number of people who are contracting an allergy to red meat (beef, pork, venison) from a Lonestar tick bite. Called Alpha Gal syndrome, this allergy can range from mild symptoms to a life-threatening condition. The Lonestar tick is the most common and aggressive tick in our area (the females have a white dot on their back).

Fortunately, “an ounce of prevention is worth a pound of cure” has never been truer than when it comes to preventing tick bites. Those who work in the field or recreate outdoors should take simple steps to reduce their exposure to potentially disabling organisms transmitted by tick bites.

Treating your shoes and socks with Permethrin can reduce your chances of getting a tick bite by 73.6% according to a controlled study published a few years ago. In this study, the researchers knew that most of us would not wear long pants for protection in the summer months, so they set out to see if treating hot-weather clothing would reduce tick bites. They found that treating just canvas sneakers and socks with Permethrin greatly reduced the number of tick bites, and when the ticks traveled across the treated shoes and socks, they began to die. Only 22% of the ticks that attached themselves stayed alive after biting the test subjects, thus reducing the chance for disease transmission.

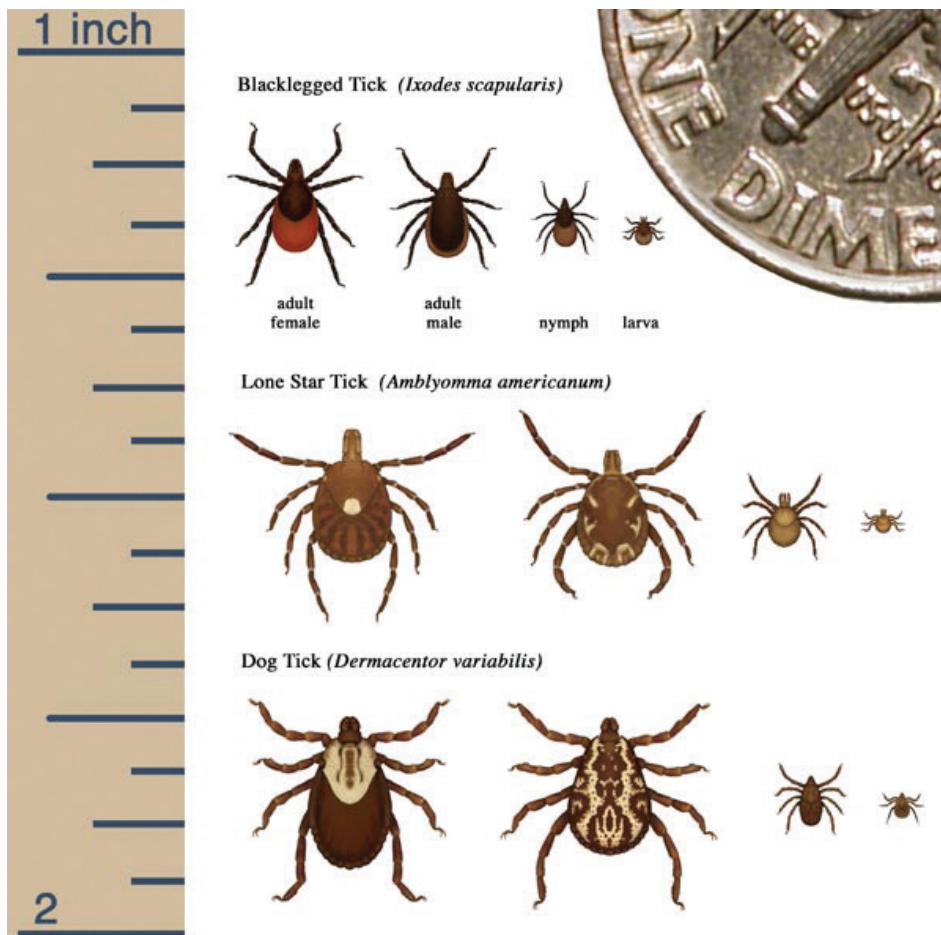
Permethrin remains on fabric, so shoes and socks only need to be treated every few wearings. Products with this chemical can be purchased in hunting sections of department or sports stores. **Permethrin should only be used on clothing and never on skin.**

Protecting the skin with a tick repellent is also important. For those who want to avoid chemicals, such as Deet, there are a few effective essential oil-based sprays available at health food stores. These healthier choices need to be reapplied every couple of hours for maximum effectiveness.

Frequent tick checks are another essential preventive tool: recent research has found the transmission of Rocky Mountain spotted fever can be transmitted in as little as 10 minutes of tick attachment, the sometimes fatal Powassan virus in 15 minutes, and Lyme disease in under 6 hours. Each of these studies was looking for only one organism, but other organisms were likely transmitted in these short time periods as well.



Becoming savvy about tick-borne diseases is important for those living in tick-endemic areas. Recognizing the symptoms of these diseases and taking quick action with the sudden onset of flu-like symptoms following a tick bite can prevent serious illness. Practicing preventive measures and performing frequent tick checks on ourselves, our kids, and our pets is important. Make enjoying the outdoors safely a priority!



For more information, please contact the Lyme Disease Association of Delmarva, Inc. at 410-749-LYME or easternshorem Lyme@yahoo.com. Visit our Facebook page at www.facebook.com/easternshorem Lyme

Treasurer's Report

Current balance = \$18,406.56.

Spring Preparedness Reminder

Welcome spring—warmer weather, longer days, flowers, and baseball! While springtime has its benefits, it also has its fair share of risks that include heavy rains, severe weather, ground thaw, and snowmelt. These events can increase our flood risk. It's important to know your risks and to take action to mitigate them.

Please take the time to visit <https://www.ready.gov/> and <https://www.floodsmart.gov/floodsmart/>, and be sure to prepare.

Lunch and Learns:

- (Recent) April 13, 2017: *Using Maryland's mdfloodmaps Website* by Dave Guignet, Maryland State National Flood Insurance Program Coordinator
- (Future) June 8, 2017: Citizens' Climate Lobby (<https://citizensclimatelobby.org/>)

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MAFSM is grateful for their support.**

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