

Day 1 Track 1	
Session	Speaker(s)
Introduction to Risk Rating 2.0	Richard J. Sobota, CPCU - FEMA Richard J. Sobota is a Senior Insurance Specialist and Regional CRS Coordinator for DHS/FEMA Region III in Philadelphia, PA.
Elevation Certificate FAQ: Risk	Del Schwalls PE, CFM – Schwalls Consulting
Rating 2.0 & More	Del Schwalls is President of Schwalls Consulting, the Immediate Past Chair of the Florida Floodplain Managers Association, and Region 4 Director of ASFPM. He has more than 20 years of experience in floodplain management, hydrologic and hydraulic analyses, and water resources engineering. He specializes in working with communities to achieve their floodplain management goals, including refining their Community Rating System
	program, floodplain ordinances, and overall regulatory framework. He conducts trainings across the country on accurately completing FEMA Elevation Certificates (ECs) and addressing EC deficiencies. Mr. Schwalls has extensive experience with the FEMA Hazard Mitigation Assistance (HMA) grant programs, and serves as a subject matter expert (SME) in HMA grants and FEMA benefit cost analysis for states and communities. He has developed floodplain modeling and mapping across the nation, and specializes in conducting independent QA/QC of FEMA Flood Risk projects. He has repaired numerous LOMAs and LOMRs across the Southeast US, and began his career in Washington, D.C. reviewing LOMRs and FISs for FEMA. He is currently the Hydrology/Hydraulics SME to the Florida Commission on Hurricane Loss Projection Methodology. Mr. Schwalls holds a BS in environmental engineering from Mercer University, is a registered PE in FL, AL, GA, and SC, and earned his CFM in 2003.
MDE Stormwater Program	Jennifer Smith, P.E Maryland Dept of the Environment
	Jennifer Smith is the Program Manager of the Maryland Department of the Environment's Stormwater, Dam Safety and Flood Management Program. Ms. Smith directs the Program's implementation of Maryland's laws and regulations for erosion and sediment control, stormwater management, and dam safety, the issuance of



	Phase I and Phase II Municipal NPDES permits and Maryland's FEMA floodplain mapping and community assistance responsibilities.
	Ms. Smith is a Maryland registered professional engineer with 33 years of experience working with stormwater management and sediment and erosion control programs in Maryland. She has worked for the state of
	Maryland for 8 years and for many Maryland jurisdictions both as an employee and as a private consultant. Ms. Smith is a graduate of Virginia Tech with B.S and M.S degrees in Engineering.
Identifying relationships	Gary Conley - 2NDNATURE Software
between urban greenness,	dary comey 2NDNATORE Software
hydrologic changes, and green stormwater infrastructure across the United States	Gary is Chief Scientist at 2NDNATURE Software, bringing 15 years of experience in both public and private sectors working to understand water quality problems and identify practical solutions. With expertise in hydrology, pollution dynamics, numeric modeling, and applied math, his work focuses on identifying water quality impacts and understanding patterns of change to improve environmental decision making. At 2NDNATURE Software, his team develops the basis for turning data into actionable knowledge via web-based geospatial tools. He leads scientific development of the 2NDNATURE platform, a first-of-its-kind modeling and progress tracking system now used by 56 cities across the US in 13 different states. He has also developed Integrated Regional Watershed Management Plans, Stormwater Management Plans, Climate Change Adaptation Plans, Reasonable Assurance Analysis modeling studies, and provides ongoing technical support for
	NPDES MS4 permit compliance for communities throughout the US.
Today's Climate Resilient	Robert G. Bathurst, MS, PE, D.WRE - Century Engineering, Inc.
Stormwater Management Infrastructure Turns to the	Mr. Bathurst is a Principal at Century Engineering in Hunt Valley, MD. Bob graduated from Drexel University
Cloud	with a BS degree in Civil Engineering and MS degree in Industrial Administration from Carnegie Mellon University. He has advanced education in civil engineering with specialization in water resources and has
Cloud	testified as an expert witness in matters regarding stormwater management throughout the course of his 30- year career. Bob holds D.WRE Board Certification from the American Academy of Water Resources Engineers
	(the highest level of advanced post-license certification offered in the water resources engineering profession for professional engineers) and holds Professional Engineer licenses in Maryland, Pennsylvania, DC & West



	Virginia. Bob has served as a consultant to the Maryland Department of the Environment - Water & Science
	Administration since 2002 and City of Baltimore - Office of Plans Review and Inspections since 2004.
	Day 1 Track 2
Designing Passive	Kurt Luecke, CFM - Floodproofing.com
Floodproofing Solutions Using	Over 30 years experienced in national channel and direct sales management. Product expertise in Wet and Dry
Floodproof Windows and Wall	Flood proofing solutions, NDT using XRF, OES and LIBS Spectrometers, renewable energy / photovoltaic,
Systems	structured wiring, consumer electronics, security, telecommunications, VOIP, satellite TV and diamonds.
Dry Flood Proofing – Flood	Michael MacGowan, CFM - ILC Dover
Loading Analysis for Mitigation	Mr. MacGowan is a design engineer for the Infrastructure Protection and Flood Mitigation business at ILC
Solutions	Dover with extensive experience in designing solutions for dry flood proofing for many types of clients and
	situations. He graduated from East Carolina University with a Bachelors in Mechanical Engineering and
	currently is a certified flood plain manager.
Mapping Floodplains Using HEC	Katie Scott, PE - Coastal Resources, Inc.
RAS 2D	Katie Scott, PE, works for Coastal Resources, Inc (CRI), a dynamic environmental consulting firm in Annapolis
	Maryland. Coastal is a small, woman-owned certified MBE/DBE with some of the most experienced
	environmental professionals in the area. About 30 people work at CRI in two teams: Natural Resources Team
	with environmental scientists who inventory wetlands, forests, and wildlife; and the Water Resources Team
	with engineers, environmental scientists, and a landscape architect who design stream restoration, wetland
	creation, and stormwater best management practices. Katie is the senior professional engineer on staff with an
	expertise in hydrologic and hydraulic modelling. For the past 6 years, Katie has provided the support needed
	to ensure that the designs proposed will remain stable during storm events. Katie has worked for other
	consulting firms and USDA NRCS in the past. In her spare time Katie volunteers with the Anne Arundel County
	Master Watershed Stewards.
Can HEC-RAS Be a 'One Stop	Vahid Zahraeifard – Atkins North America Inc.
Shop'?	Vahid Zahraeifard is a water resources engineer with about 10 years of combined experience (academic and
	industry) in the field of water resource. He has been with Atkins since 2017 during which he has been involved
	in FEMA studies in different regions across the county. Vahid has PhD, MSc, and Bsc degrees all in Civil



	Engineering. He is a CFM and PE.
My Property is just Inside the SFHA – Does Cross Section Spacing Make a Difference?	Valdete Celaj – Atkins North America Inc. Valdete Celaj is a Water Resources Engineer with 24+years of experience. 21+ of those years are dedicated to Floodplain Mapping Management throughout the country. She has worked for ATKINS for 5 years and PBS&J for 2.5 years. She holds a MSc and BSc degree in Civil Engineering. Paramjit Chibber, PE, CFM - ATKINS North America Inc Paramjit Chibber has more than fifteen year experience in civil engineering working as an Engineer with Atkins. In his role as an engineer with Atkins, he has performed and reviewed H&H studies. LOMRs, CNMS validations, terrain, survey and floodplain mapping tasks as it pertains FEMA's National Flood Insurance Program.
Day 2 Track 1	
GISHydroWEB: A GIS-based online hydrologic modeling tool for Maryland	Javier Mardones - Michael Baker International Javier's background currently lies in hydroinformatics, GIS applications, hydrologic and hydraulic (H&H) modeling, and fluid mechanics. After graduating as a Civil Engineer from the Pontificia Universidad Católica de Chile with an Associate Degree in Hydraulic Engineering, he spent two years working for Arcadis (Chile) providing technical support for large-scale projects such as hydroelectric and irrigation dams, mine tailings transportation systems, mudflow mitigation measures, among others. While pursuing a M.Sc. in Civil Engineering at University of Maryland, College Park., Javier was the lead programming developer for Maryland GIS-Based Hydrologic Modeling tool "GISHydro", along with actively participating with the Maryland Hydrology Panel. Since then, Javier has been working for Michael Baker International for more than 2 years, involved in several water resources projects such as storm drain system analysis, hydrologic programming, and floodplain modeling.
Flood Forecast Alerting based on NOAA's National Water Model	Jennifer McGee, PE, CFM, GISP – Wood PLC Ms. McGee is a Water Resources Engineer with Wood. She has a background in FEMA's NFIP program and Public Assistance program for disaster recovery. Her overall focus is on developing data science applications for engineering projects. She is also the Digital Skills Lead for the Wood Consulting business focusing on training for the Microsoft Office 365 platform.



	Thomas Williams, PE – Wood PLC
	Mr. Williams is Water Resources Engineer and Software Engineer with Wood, leading the Water Technology practice. On the water side he has a background in hydrology, hydraulics, GIS, and water resources planning; on the software side he builds web applications and develops specialized tools for Wood's water resources engineers and GIS analysts.
Guidance to Enhance Climate	Christopher Overcash, PE, BCEE, ENV SP, LEED AP – EA Engineering, Science, and Technology, Inc., PBC
Resilience of Tidal and Near-	Mr. Overcash is the Deputy Director of Coastal Resilience and a Senior Engineer with EA Engineering, Science
Tidal Waterway	and Technology, Inc. PBC in Hunt Valley, Maryland. He is a licensed professional engineer in 10 states, a Board
Crossings	Certified Environmental Engineer, and is also credentialed by the Institute for Sustainable Infrastructure and the U.S. Green Building Council. He holds a Masters of Environmental Engineering from John Hopkins University where he is also an adjunct professor and program manager.
	Nicole Wildart, CFM
	Ms. Wildart is a Scientist and Certified Floodplain Manager with EA Engineering, Science and Technology, Inc., PBC in Hunt Valley, Maryland. She is a member of the Association of State Floodplain Management Social Justice Task Force and Maryland Water Monitoring Council Stream Restoration Subcommittee. Ms. Wildart has over 10 years of experience in climate change adaptation and resiliency and waterway and floodplain studies and holds a Masters of Environmental Science and Policy from Johns Hopkins University.
Building A Community-	David Alexander, PhD - Science & Technology Directorate, Department of
Oriented Decision Support for	Homeland Security
Compound Flood Events	DAVID ALEXANDER is the Senior Science Advisor for Resilience at the Department of Homeland Security,
	Science and Engineering Directorate. He has served as Senior Science advisor since 2019 and has worked for
	the Department of Homeland Security since 2007. David earned his PhD from George Mason University with a
	focus in Earth Sciences and Geospatial Information.
	Claire Jeuken - Deltares USA



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	Dr Claire Jeuken is a marine system consultant with a background in coastal and estuarine morphology and
	physical processes. She specializes in the integration and application of physical, ecological and engineering
	knowledge for multi-disciplinary projects focusing on sustainable marine infrastructure development and
	coastal adaptation to mitigate flood risks.
Local Climate Vulnerability	Jeremy Scharfenberg - Columbia Association
Assessment Informs Future	Mr. Scharfenberg has 18 years of experience involving institutional sustainability, energy
Investment and	management/efficiency, greenhouse gas (GHG) emission inventory and mitigation, climate change adaptation,
Educates the Community	life-cycle analysis (LCA), and water resource management. He is currently serving as the Energy Manager for
	the Columbia Association where he is responsible for implementing energy and sustainability projects for the
	community of Columbia, Maryland; this responsibility includes overseeing the sustainable operations of more
	than 50 buildings and designing and implementation of comprehensive energy and sustainability initiatives.
	Necolle Maccherone, CFM - Michael Baker International
	Necolle supports national, state and local projects that deal with flood risk reduction, hazard mitigation and
	climate change. Her efforts with FEMA's community engagement and risk communication contract builds local
	awareness and creates tools for communities to analyze and assess their risk. Necolle has helped Maryland
	jurisdictions become more resilient from flooding through her work updating local hazard mitigation plans,
	supporting the Maryland Flood Awareness Month social media campaign, and as Chair of the Maryland
	Association of Floodplain and Stormwater Managers. She has contributed locally to create partnerships with
	like-missioned organizations such as the Maryland Resiliency Partnership, Howard County Watershed
	Improvement Network, Long Reach Watershed Committee, and the City of Annapolis Weather It Together
	Team. She is a Certified Floodplain Manager, a professional certification through the ASFPM.
Day 2 Track 2	
Cloudburst Analysis Tools and	Zachary H. Ranstead, P.E., LEED-AP, CFM - T&M Associates
Methods	Mr. Ranstead is a Project Manager with 23 years of experience in Civil Engineering. His work involves the
	design and management of residential, commercial, industrial, and institutional projects with an emphasis on
	stormwater, flood study, erosion control and BMP designs. His experience includes permitting work for PADEP,



	County Conservation Districts, FEMA and PennDOT on projects throughout Pennsylvania and New Jersey. Mr.
	Ranstead is also an advisor for a private client involved with nationwide real estate investments. Mr. Ranstead
	was selected as Deputy Task Order Manager for FEMA Region III RTO FY21. Mr. Ranstead developed new
	PADEP-approved stormwater volume management credits achieved through the design of baseflow replication
	facilities for sites with infiltration limitations. These methodologies were vetted with the Stormwater Technical
	Workgroup, a consortium working with PADEP to revise the Stormwater BMP Manual. PADEP favorably
	considered his work as Standard Guidance.
Relative Sea level rise at tide	Yi Liu, P.G Morgan State University
gauge Sewells Point, Virginia	Dr. Yi Liu is Assistant Professor in Department of Civil Engineering, Morgan State University (MSU). He got his
	Bachelor in 1985 and Master in 1988 in hydrogeology and geotechnical engineering from China University of
	Geosciences and Doctorate in civil engineering from MSU in 2006. His research interest includes land
	subsidence and sea level rise. He worked on geotechnical engineering, hydrogeology and land subsidence in
	Shanghai, China from 1988 to 2002 and agricultural hydrology in the U.S. Southwest from 2007 to 2014. He is a
	registered Professional Geoscientist in Texas Board of Professional Scientists. His relative sea level rise research
	is supported by two current NSF projects "Identification of absolute sea level rise and land subsidence from
	long-term tide gauge records along coasts of the Gulf of Mexico and the Chesapeake Bay" and "Identification
	of urban flood impacts caused by land subsidence and sea level rise in the Houston-Galveston region."
eLOMA – A Collaborative Tool	David Mummert - Michael Baker International
for Licensed Professionals,	David Mummert has over 19 years of National Flood Insurance Program (NFIP) experience with Michael Baker
Communities, and	International in the MT-1 (LOMA) Group. He is a graduate of St. Mary's College of Maryland with a degree in
FEMA	Biology with a specialization in Environmental Science. He is currently the Northwind Resource Consulting
	(NWRC) eLOMA Coordinator for all 10 FEMA Regions, Technical Manager for the NWRC MT-1 Group, and
	Subject Matter Expert for LOMA and eLOMA processing through FEMA's Mapping Information Platform (MIP)
	website.
Cumulative Substantial	Susanna Pho, CFM – Forerunner
Improvement Tracking:	Susanna Pho is a co-founder of Forerunner, a software company working with government agencies to
	leverage per-property flood risk information to streamline planning, compliance, and outreach. The company



Addressing the Challenge of	has partnered with U.S. communities of all sizes to mobilize data for applications ranging from regulation
Day⊡to-Day Enforcement	enforcement to adaptation planning. Susanna is a Certified Floodplain Manager based in California with
	experience working with local government in research and community development capacities. She holds an
	M.Des degree in Risk and Resilience from Harvard University and an M.Arch degree from MIT.
Digital Transformation	Michelle Tanner- 2nd Nature Water
Revolutionizing Stormwater	Michelle works at an environmental software company that brings science to decision-makers. She is a product
Programs: How to be Ready	manager responsible for guiding and leading the research, development, and ongoing improvements of new
for Changes Ahead	and upcoming software features.