

**From Mountain Creeks to Metro Canals – River Management Symposium Draft Program – April 9, 2021 – *subject to change***

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We are excited to partner with [American Trails](#) to offer learning credits for most sessions. Learning credits are available for the **American Planning Association (APA)**; sessions are also eligible for CEU equivalency petition for park professionals with the **National Recreation and Park Association (NRPA)**. These credits are available by payment of a small fee to American Trails and completion of appropriate paperwork. Sessions that qualify for credits provided through American Trails are indicated by an AT within the block. The Virginia Chapter of the **American Society of Landscape Architects (ASLA)** is offering LACES credits for selected sessions. Those sessions are indicated by an L within the block. Note that for both L and AT courses, additional requirements may apply to obtain credits. Additional information on learning credits is posted on the RMS symposium web page. Four sessions, Visual Resource Management, WSR 101, Drone piloting and mapping and Visual Resource Assessment, are listed in DOI Talent (See footnotes for DOI Talent links – only available to USDI employees)

<b>Monday, April 12, 2021 – pre-symposium events</b>				
<b>1:00 p.m.</b>	<b>James River Room – Welcome, orientation and introduction, Risa Shimoda and Judy Culver</b>			
	<b>Appomattox River Room</b>	<b>Rivanna River Room</b>	<b>Chickahominy River Room</b>	<b>James River Room</b>
1:15 pm	<p>Orientation &amp; Visual Resource Workshop (DOI Talent<sup>1</sup>) (L, AT)</p> <p>Lynn Crump, Leighton Powell: Opening Session: Welcome, introductions, why we’re here, why it matters, and what we’re going to do.</p> <p>John McCarty, Karla Rogers, Mark Meyer: Why scenic resources matter: Basic need, vitality &amp; economic development, VA &amp; other state support of the importance of scenic resources &amp; documenting &amp; rating them. (overview, drivers &amp; outcomes)</p>	<p>Orientation &amp; Workshop – Risa Shimoda, Moses Chun, Nathan Burrell: Adding depth to understanding diversity in the workplace</p> <p>1) We will identify the components of equity in attendees’ environments based on participants’ experiences.</p> <p>2) We will learn about one of the nation’s first state-wide program for hiring, interviewing, promoting, allocating resource, and developing job descriptions through a diversity lens; and how</p>	<p><b>Cancelled</b></p> <p><del>Orientation &amp; Drone piloting &amp; custom mapping workshop (DOI Talent)<sup>2</sup> (AT)</del></p> <p><del>This workshop is designed for individuals who desire knowledge using Unmanned Aerial Systems (UAS) for mapping projects. Attendees will learn skills to safely capture UAS imagery and will be given examples of recent projects involving UAS.</del></p> <p><b>Cancelled</b></p>	<p>Orientation &amp; Policy and Practice (L, AT)</p> <p>Dusty Vaughan Liz Lacy, Elizabeth Townley: WSR 101 – An introduction to the Wild &amp; Scenic Rivers Act (DOI Talent<sup>3</sup>)</p>

		one department is applying them.		
2:15	Break – all rooms			
2:30	Visual Workshop (L, AT)  Mark Meyer: Language of Landscapes: Describing the Scenic Attributes of the landscape and visual resources vocabulary. Landscape Character & Scenic Quality. EXERCISE  Julie McGrew, Mark Meyer, Leighton Powell: Overview of different agency approaches to visual landscape inventory/ assessment presentation with panel on commonalities & complementary & unique aspects of each	(Adding depth to understanding diversity in the workplace, continued)  3) Participants will consider what they can do themselves, in their organization and with their communities to create and support change.	<del>Drone mapping/GIS Workshop (continued)</del> <b>Cancelled</b>	Christopher Armatas, Bill Borrie, Alan Watson: A public engagement protocol to apply social science in planning efforts: An application in support of comprehensive river management planning on the Flathead River system, Montana, USA
				Steve Chesterton, Eric Sandeno: Creating data tools to inform Wild & Scenic River planning
				Kevin Colburn: New Wild & Scenic River Coalition Launched for Rivers
3:30	Break – all rooms			
3:45	Visual Workshop (L, AT)  Julie McGrew, Mark Meyer, Leighton Powell: Scenic Value Inventory (Continued): Overview of different Agency approaches to visual landscape inventory/assessment		<del>Drone mapping/GIS Workshop (continued)</del> <b>Cancelled</b>	Technical Tools (AT)  Mike Foreman: What factors help ecosystem collaboratives succeed?
4:45	Wrap up & end day – all rooms			

<sup>1</sup>Visual Resource Management - NPS-NRS1804 <https://doitalent.ibc.doi.gov/course/view.php?id=17765>

<sup>2</sup>Drone Piloting and Custom Mapping - NPS-NRS1802 <https://doitalent.ibc.doi.gov/course/view.php?id=17512>

<sup>3</sup>Scenic Assessment - NPS-NRS1803 <https://doitalent.ibc.doi.gov/course/view.php?id=17737>

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Tuesday, April 13, 2021 – Day 1			
10:30 am	James River Room - Open time – orient/answer questions, sponsors, videos, etc.		
11:00 am	James River Room -Welcome and technical intro – how it will work brief Q&A		
11:10	James River Room -Opening Keynote: -(L, AT) Ralph Hambrick, Falls of the James River Scenic Advisory Committee and Nathan Burrell, Virginia Dept. of Conservation & Recreation – <b>From sewer to park: Transforming a metro river.</b>		
12:15 pm	Break – all rooms		
	<b>Appomattox River Room</b>	<b>Rivanna River Room</b>	<b>Chickahominy River Room</b>
12:30	Visual Resource Workshop (L, AT)  John McCarty: <b>Visual Design Fundamentals:</b> Research on Visibility of Constructed Encroachments and Integrating built features into the landscape	Tech Tools (AT)  James Vonesh, Denielle Perry, John M. McLaughlin, Mathieu Brown: Building a framework for the River-based ImmersiVe Education & Research (RIVER) Field Studies network	Urban (L, AT)  Chris DeWitt, Bryce Wilk: Conserving an urban wilderness: the James River park system master plan  Justin Doyle: Reconnecting Richmonders to the James River  Robin Fehlau: Boise River: Economic driver and heart of the community
1:30	Break – all rooms		
1:45	Visual Resource Workshop (L, AT)  Mark Meyer: Impact Analysis and mitigation – review of agency impact assessment protocols NPS  Allysia Angus: Impact Analysis and mitigation – review of BLM’s contrast rating process	Tech Tools (L, AT)  James Vonesh, Denielle Perry, Mathieu Brown: Linking academics & practitioners to train tomorrow’s river professionals	Partner & Community (AT)  George Lindemann: Economic, Environmental, Social, Political: The recipe to save a river  Tim Eling: Innovative Restoration in Kentucky’s Red River Watershed  Maura Christian: Grassroots growth of the Virginia Conservation Assistance Program
2:45	Long Break – all rooms / Breakout rooms set up for BLM, NPS, USDAFS and others, as requested		

3:45	Visual Resource Workshop (L, AT) Monica Zimmerman, Hector Santiago: Scenic Resources & River Management – discussion of both river & upland recreation settings & ecological sites – the benefits, applications & challenges from the NPS and BLM perspective.	Rural (L, AT) Charles Evans: The Lost Rapid project Dan Mahon: The Rivanna River Renaissance	Partner & Community (L, AT) Lynn Crump: Scenic River designation process for Virginia: An exercise in community efforts (DOI Talent <sup>4</sup> )
4:45	Wrap up/formal end	Wrap up/formal end	Wrap up/formal end
5:00	Break	Break	Break
5:00 – 6:00	<p><b>Poster Session - James River Room</b></p> <p>Todd Lookingbill: A campus, trail, and stream restoration on the University of Richmond campus.</p> <p>Brian Dagliano: Harrison Lake mussel hatchery – internship presentation</p> <p>Grace Lumden-cook: A quantitative approach to scenic river assessment using simple smartphone apps and panoramic imagery</p> <p>Catherine Steele: Same river, same risks, higher demand. What does COVID 19 mean for whitewater recreation management on an urban river?</p> <p>Joe Underhill: Diversity and equity in river studies: Lessons from the river semester</p>	<p><b>Poster Session - Rivanna River Room</b></p> <p>Tim Owen: Spatiotemporal assessment of a diverse fish assemblage subject to varied intensities of anthropogenic land-use change</p> <p>Joshua Armstrong: Modeling invasion drivers of an invasive macrophyte, Hydrilla verticillate, in riverine rock pools</p> <p>Charles Stunkle: Hydrological connectivity and species life histories shape patterns of invertebrate abundance in a riverine metacommunity</p> <p>Erica Byerley: Remote sensing and GIS for debris flow hazard modeling</p>	

<sup>4</sup>Scenic Assessment

NPS-NRS1803 <https://doitalent.ibr.doi.gov/course/view.php?id=17737>

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<b>Wednesday, April 14, 2021 - Day 2</b>			
10:30 am	<b>James River Room</b> - Open time – orient/answer questions, sponsors, videos, etc.		
11:00 a.m.	<b>James River Room</b> - Welcome and technical intro – how it will work brief Q&A		
11:10 a.m.	<b>James River Room</b> - Opening Keynote: (L, AT) <b>Reclaiming the Anacostia River to be swimmable and fishable.</b> Arial Trehan and Dennis Chestnut		
12:15 pm	Break – all rooms		
	<b>Appomattox River Room</b>	<b>Rivanna River Room</b>	<b>Chickahominy River Room</b>
12:30	Visual Resource Workshop (AT)  <i>Note: This presentation is 20 minutes from 12:30 to 12:50 so time afterwards to attend other sessions before next Visual Resource Workshop session at 2:30</i>	Technical Tools (L, AT)  Brett Connell, James E. Parham: High-definition stream surveys: A new method to managing rivers & streams	Water Trails (AT)  Renee Powers: How to manage a blueway? Starting from the water up
	Dr. Andrew Lothian: Public Sensitivity – Objective way to get public reaction? Rivers?	James Major: National Rivers Project: Mapping & showcasing the Units State’s recreational rivers	Cora Gnegy, Becky Nave: New River Water Trail: An adventure of partnerships, promotions & paddling
		David Hirschmann, Kip Mumaw: Retrofitting to restore the River	Nicole Hersch: New River Water Trail: A dual approach
1:30	Long Break – all rooms / RMS Chapter Breakouts		
2:30	Visual Resource Workshop (L, AT)  Dan Holmes, Adam Gillenwater: Section 106 and NEPA and VRM: Processes which work with visual requirements and how it related to local land use plans	Technical Tools (AT)  Alex McCrickard, Dr. Michael Bednarski, Edward Herndon, Rene Xavier Valdez: Building upon success – Virginia’s FishLocalVA Program  Nathaniel Hitt: Fish abundance trends indicate destabilized flows in the Potomac  Daniel McGarvey: Fish & invertebrate abundances are	Partner & Community (L, AT)  Heather Barrar, Valerie Liggins, Aaron Reid Miller, Janit Llewellyn, Daniel Jones: Regional renewal and Riverfronts Part 1

		near universal functions of body size in U.S. streams	
3:30	Break – all rooms		
3:45	Visual Resource Workshop (AT)  Parker C. Agelasto, Kat Imhoff: The role of conservation easements in managing scenic resources and the steps to success.	Policy and Practice (L, AT)	Partner & Community (L, AT)  Heather Barrar, Valerie Liggins, Aaron Reid Miller, Janit Llewellyn, Daniel Jones: Regional renewal and Riverfronts Part 2
		Renee Powers: Stream navigability in Virginia  Jenelle Dowling, Steve Chesterton: A collaborative initiative to assess the water quality of national Wild & Scenic Rivers	
		Peter Krebs: Connecting communities	
4:45	Wrap up/formal end	Wrap up/formal end	Wrap up/formal end
5:00 – 5:30	<b>James River Room –</b>  Stephanie Pooler: The River James: River that made Virginia  Overview of the history of James River and the human connection with it. A 20 minute presentation will be followed by a Q & A with National Park Service rangers.		
5:30 – 6:00	Various rooms open for informal activities		

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<b>Thursday, April 15, 2021 - Day 3</b>			
	<b>Note: The James River Room will be open along with the three concurrent session rooms all day</b>		
10:30 am	Open time – orient/answer questions, sponsors, videos, etc.	Open time – orient/answer questions, sponsors, videos, etc.	Open time – orient/answer questions, sponsors, videos, etc.
11:00 a.m.	Welcome/tech asst	Welcome/tech asst.	Welcome/tech asst.
	<b>Appomattox River Room</b>	<b>Rivanna River Room</b>	<b>Chickahominy River Room</b>
11:10 a.m.	Visual Resource Workshop (L, AT)  John McCarthy, Debbie Spiliotopoulos, Kat Imhoff: Panel discussion: Building scenic resource partnerships, networks and landowner relationships	Technical tools (AT)  Dan Shelby, Bo Shelby, Doug Whittaker: Good, bad, unusual – access opportunity spectrum data base  Tammi Laninga, Andrew Graminski: Wild & Scenic River management in the context of private property: Experience from Washington State  Tom Martin: Cruise Control: The history of western river allocations	Policy & Practice (L, AT)  Denielle Perry, Amy Newssock et al.: Protecting rivers in a changing climate: Blended solutions for resilient riverine ecosystems Part 1  IUCN resolutions & the need to protect connectivity and climate refugia  Framework for durable protection  Free-flowing rivers within protected areas: Extent & limitations
12:10	Break – all rooms		
12:25	Visual Resource Workshop (AT)  John McCarty, Jonathan Doherty: Research on Visibility of Constructed Encroachments and Integrating built features into the landscape	Tech Tools (AT)  Rob White, Brian McCormick: Granite Boat Chute & Fish Ladder Reconstruction – Arkansas River  Robert Burgholzer, Joseph Kleiner: Developing an adaptively managed instream	Policy & Practice (L, AT)  Denielle Perry, Amy Newssock et al.: Protecting rivers in a changing climate: Blended solutions for resilient riverine ecosystems Part 2

		flows assessment via integrated data management, modeling & analysis	The use of the WSRA for water quality & river restoration
		Todd Janeski, Kirsten Hazler: An approach for conserving Virginia's Healthy Water	Enhancing riparian buffers for climate adaptation  Rights of rivers as an emerging policy framework to protect riverine ecosystems
1:25	Long Break – all rooms		
2:25	Visual Resource Management (L, AT)  Erin A. Degutis: Best Management Practices for reducing visibility of electrical transmission features & pipeline corridors – Part I	Urban (L, AT)  Todd Lookingbill, Bob Siegfried, Jennifer Hatchett, Rob Anderejewski, Jill Nolt: The Gambles Mill Eco-Corridor: A collaborative stream restoration project in Richmond	Partner & Community (AT)  Claire Catlett, Celia Vuocolo: Building better rivers and roads for Virginia's Eastern Brook Trout  Rachel Pence, Alyssa Wittenborn: Monitoring mutualism: How investing in Level III volunteer monitoring benefits all  Jessica Steelman: Rural Coastal Virginia Alliance – collaborative efforts, methodology and successes
	Michael Miller: Best Management Practices for reducing visibility of electrical transmission features & pipeline corridors – Part II		
3:25	<b>James River Room - Closing silent auction, live auction and break</b>		
3:50	<b>James River Room - Closing Plenary (L, AT)– Dr. Richard Smardon, Ph.D., Professor Emeritus SUNY College of Environmental Sciences and Forestry: <b>Revitalizing Urban Waterway Communities: Streams of Environmental Justice</b></b>		
	<b>James River Room - Closing remarks</b>		
5:00 – 6:00	Various rooms open for informal activities		

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