

Jim Cummins: “When Trees Were Old: Humans and Environmental Change in the Potomac River Watershed”

Retired, MS from George Washington University, 1985. From 1984-87, started DC’s Fisheries Program. Most of career (1988-2016) was the Director of the Living Resources for the Interstate Commission on the Potomac River Basin. Projects at ICPRB included biological assessments of streams in WV, MD, PA and DC, environmental flow studies, habitat restoration, fish passage, especially in regard to the Little Falls Dam near Washington, DC and a linked American shad stocking program with integrated student and volunteer involvement. Passions include family and home, improving and protecting the environment, fishing, and playing blues and rock and roll.

Dr Ed Snyder: Fossils and Geology at Cacapon State Park

#### Sideling Hill and Nearby Sites of Geologic Interest

Dr Ed Snyder is a Professor of Geology at Shepherd University. He has his PhD in Geology from the University of Illinois focusing on paleobiology and historical geology. Research areas include paleoecological reconstruction of ancient marine limestone environments, bryozoan paleobiology and taxonomy, water resource management and protection, and treatment of authigenic clays in production oil wells. Recently he and his students have been studying the Silurian/Devonian Tonoloway Formation identifying its fossil composition and depositional environment. In his spare time he and his wife enjoy traveling and studying geology around the country and around the world.

James R Remuzzi: Prescribed Fire 101

James R Remuzzi is the President of Sustainable Solutions, and ecological land management based in Shepherdstown, WV. He has been planning, permitting and implementing prescribed fire across the Mid Atlantic since 2002. He is a National Wildfire Coordinating Group certified wildland firefighter, firing boss, and Burn Boss.

Dotti Mozden: Solitary/Native Bees: How to Provide Nesting Support

Dotti’s degree from Trinity College was in Biology, reflective of her wide interests in the natural world. She has a long-time fondness for bumble bees and through that interest became concerned about the loss of native bee nesting habitat. Over this past year, Dotti has immersed herself in researching the life cycles of native mason and leafcutter bees and the opportunities and hazards of providing them with human-created nests.

#### W Neil Gillies: WV Save Our Streams/Water Quality Testing

W Neil Gillies, Cacapon Institute's Director of Science, (Director Emeritus, semi-retired) is an environmental scientist with over 30 years of experience. In the 70's and early 80's, he worked in South Florida on diverse studies including using estuarine invertebrate communities to determine impacts from point source discharges and studies on the endangered American Crocodile at a nuclear power plant. Since joining Cacapon Institute in 1996 he has built a solid water quality research program focusing on land use influences on water quality. Neil co-authored a baseline study of West Virginia's Greenbrier River. He developed the Potomac Highlands Watershed School, an online Chesapeake Bay-region education activity used by more than 10,000 students annually. He has run many federal-state-local partnerships including "Petit Beef", an agricultural niche market for "environmentally-friendly" beef; "Once There Were Beavers," research on an innovative approach to increasing groundwater storage and summer stream flows; "Farmers As Producers of Clean Water," an economic experiment on agricultural incentives that culminated in construction of a wetland designed to remove nitrogen from groundwater: and "Failure Is Not An Option," an ongoing study of an inexpensive enclosure to protect riparian plantings and upland forests from deer. He has a BS from the University of Miami, Florida, and a MS from Florida International University.

#### Heather Tokas: Butterflies of West Virginia

Entrepreneurial Consultant, (2004) Founder of West Virginia Monarch Butterfly Day (Sept 12<sup>th</sup>), Owner of Butterflies from Heather (the first and only butterfly farm in WV)(2000 est), Founder of WV Monarch Butterfly state festival (est 2005); President of the WV Chapter of "Butterfly Rescue International". Social work/education degree from Bethany College, West Virginia native; (conserving, rearing, studying Lepidoptera since 1974). Represented WV at the National Boy Scout Jamboree 2013 under the "Best of WV" tent, Gold medalist for: 40 years of volunteer conservation of butterflies in WV award by the National Society of DAR (a national award). Currently working on WV Monarch Butterfly Summit and continued native butterfly conservation.

#### Darla Spencer: Early Native People of WV: The Fort Ancient Culture

Currently retired, I am a Registered Professional Archaeologist with a Masters degree in Sociology/Anthropology from Marshall University. My first book about the Fort Ancient culture was published in October 2016. I am currently working on a second book on the mound building Adena culture in West Virginia.

### Ellen Murphy: Sharing Nature With Children

Ellen has been a Master Naturalist since 2007. She has recently retired from Potomac Valley Audubon Society where she was Program Director for 11 ½ years. She's passionate about getting kids outside as well as her 2 dogs and husband. She lives in Harpers Ferry.

### Andrew Wilson: Using Drones for Wildlife Studies

Andy Wilson is an Assistant Professor at Gettysburg College, where he enjoys working with undergraduates on novel research projects, including using drones to monitor songbirds. Andy has 25 years of experience as a professional ornithologist, working for non-government, government, and educational institutions. Andy edited the 2<sup>nd</sup> Atlas of Breeding birds in Pennsylvania and is now assisting several states with bird atlas projects, including the forthcoming Second Atlas of Birds in West Virginia.

### Tony Maciorowski: Seen & Rarely Seen Vertebrates & Invertebrates

Dr Anthony F Maciorowski received a BS in biology from Eastern Michigan University, a PhD in Zoology from Virginia Tech, and completed post-doctoral studies at the Department of Environmental Sciences and Engineering at the University of North Carolina – Chapel Hill. He served as an adjunct instructor in the Environmental Sciences and Policy Program at the American Public University System where he taught: Federal Environmental Organization; Ecosystems and Environmental Management; Environmental Policy, Law and Regulation; Environmental Risk Assessment. His professional duties have included research, research management, and regulatory positions in the private sector, and state and federal government. Dr Maciorowski retired from the US Environmental Protection agency in 2011. For the last eight years of his EPA career, he served as the Associate Director for Science and Deputy Director of EPA's Science Advisory Board. Before that he held senior scientist and regulatory management positions in EPA's Office of Pesticide Programs, Office of Science Coordination and Policy, and the Health and Ecological Criteria Division of the Office of Water. He has also held positions in the US Fish and Wildlife Service, the Texas Parks and Wildlife Department, and Batelle Memorial Research Institute. He has experience in Aquatic Ecology, Fisheries Resource Management, Environmental Toxicology, and Risk Assessment. Dr Maciorowski is a certified Fisheries Scientist (American Fisheries Society No. 1837, June 30,1987) and had been listed in Marquis Who's Who in Science and Engineering, Who's Who in Medicine and Healthcare; and Who's Who in the World. He has authored or co-authored articles in scientific and technical journals, book chapters in workshop and symposium proceedings, over state and federal technical reports, and presented papers at national and international scientific meetings, symposia, and workshops.

Kevin Oxenrider: Diseases of Vernal Pools

Kevin Oxenrider serves as both the District Wildlife Diversity Biologist for the Eastern panhandle, as well as the Statewide Amphibian and Reptile Project Leader. He has multiple years of experience working as a state wildlife biologist, managing and researching non-game wildlife resources. Not only has Kevin worked with a variety of amphibian and reptile species, Kevin also specializes in the ecology and conservation of bats, passerine birds, and other non-game species.

Katelyn (KC) Walters: Forest Succession

I have a BS in biology with a concentration in environmental studies from Shepherd University and an MS in biology, with a focus in forest ecology, from James Madison University. I currently work as a Lead Natural Resource and GIS Technician at Sustainable Solutions in Shepherdstown, WV. I am a certified type II wildland firefighter and am working towards becoming an ISA certified arborist. I am a member of the Shepherd University tree committee and lead the tree committee at my church. In my free time, I enjoy stewarding my family property and revitalizing the family farm, utilizing organic and sustainable methods.

Doug Pifer: John James Audubon: Interpretation of the artist and naturalist

25 years in publishing business for national organizations in Washington, DC – 40 years as a professional writer and illustrator of wildlife and conservation publications. Also fine artist, muralist, and nature writer. BA English Education, Indiana U of PA; MA Journalism at Penn State. Nature column: "As the Crow Flies" won several awards from VA Press Association (2001-2018) Demonstrate wildlife art and conduct workshops. Also I am an Art Educator and assist in activities in Nursing Homes.