



THE UPPER YELLOWSTONE: EXAMINING THE CONFLUENCE OF PAST LESSONS & FUTURE NEEDS

WEST CREEK RANCH, SEPTEMBER 4-7, 2018

SPEAKER BIOGRAPHIES

Suzanne Apple, Associate Director, Arthur M. Blank Family Foundation, AMB West Stewardship Committee

Suzanne Apple, of Atlanta, Georgia and Avery Island, Louisiana, served as Senior Vice President of Private Sector Engagement at World Wildlife Fund-U.S until her retirement in January, 2016. She led the corporate engagement activities for WWF-US including work around responsible sourcing and sustainable business practices, corporate philanthropy and cause-related marketing. Suzanne and her team worked with companies that included Procter & Gamble, Sodexo, McDonald's, Wal-Mart, Hilton, Cargill, General Mills and others. In addition, she led WWF-U.S.'s largest corporate partnership with The Coca-Cola Company and served as WWF-U.S.'s representative on WWF International's Global Partnerships Committee, an international governance body overseeing corporate partnerships for the WWF Network. Before joining WWF, Suzanne served as Vice President, Community Affairs and Environmental Programs for The Home Depot from January, 1992 until October, 2002, where she managed the company's annual community relations and charitable contributions budget of over \$30M, and its sustainability and environmental programs. The company was ranked number one in corporate social responsibility in the Harris Interactive/Wall Street Journal survey on corporate reputation and the company rose to fourth in corporate reputation. She joined The Home Depot after a career in banking and finance, corporate marketing and communications. Suzanne serves as an Associate Board Member of the Arthur M. Blank Family Foundation, as a Board Member of the Audubon Society of Louisiana and as a Trustee of Hix and Bertha Green Family Foundation.

Barb Beck, Regional Supervisor, Montana Fish, Wildlife, and Parks

Barb Beck is the Regional Supervisor for Montana Fish, Wildlife and Parks, Region Five based in Billings-- a position she has held for just under three years. In this role Barb has fish and wildlife responsibilities for the middle stretch of the Yellowstone River. She came to FWP from the private sector, running a consulting business based in Red Lodge, focused on natural resource management and conflict resolution. As a contractor Barb worked on projects for FWP, DNRC and other clients in 26 states and Washington D.C. One of these projects was to facilitate and compile the work of the Yellowstone Basin Advisory Council. Some of Barb's other clients have included non-profits, counties, and state and federal agencies, such as Idaho Fish and Game, the National Park Service, U.S. Fish and Wildlife Service, Bureau of Land Management, National Marine Fisheries Service, Forest Service, and U.S Bureau of Reclamation. Prior to starting her firm, Barb worked for the Forest Service as a District Ranger in Montana and Idaho. Barb has bachelor's and master's degrees in anthropology from the University of Montana and has also completed courses at Colorado State University, Montana Tech, and the University of Idaho Law School in public administration and natural resource management. Barb has served as a conservation district supervisor, city alderman, and as a reserve county sheriff's deputy.

Karin Boyd, Principal Geomorphologist, Applied Geomorphology

Karin Boyd, P.G. is a registered professional geologist, with 30 years of experience in applied fluvial geomorphology. As a principal geomorphologist for Applied Geomorphology, Inc. (AGI), Karin specializes in the development of process-based strategies for aquatic resource management and restoration design. She has worked with the Yellowstone River Conservation District Council on the Yellowstone River Cumulative Effects Analysis since 2002, serving on the Technical Advisory Committee and contributing to the hydrologic, hydraulic, and geomorphic analyses of human influences on the river. In



that unprecedented-scale project that was authorized by the US Congress in 1999, she collaborated for over a decade with the Corps of Engineers, Montana Fish Wildlife and Parks, the YRDC, and numerous other stakeholders and agencies, providing technical input, delivering outreach workshops, and compiling results. Currently, Karin is serving as the lead geomorphologist on remediation/restoration design on 43 miles of the Upper Clark Fork River Operable Unit, which is part of the Milltown Reservoir/Clark Fork River Superfund Site. In June of 2013, Karin was awarded the Distinguished Alumna Award from the Department of Earth Sciences at the University of California at Santa Barbara.

Jennifer Boyer, Facilitator

Jennifer's professional work as a facilitator for conservation and community development projects has offered challenges and celebrations as local citizens collaborate to develop local solutions and visions for a better tomorrow. Jennifer and her husband and young son are the owner-managers for Farm 51, a goat farm that supplies sustainably raised goat meat to local restaurants and grocers. Jennifer dedicates her remaining hours to the causes and campaigns that inspire her and has fishing and running habits.

Chuck Dalby, Surface-Water Hydrologist, Montana Department of Natural Resources and Conservation

Chuck Dalby is a hydrologist and geomorphologist with 33 years of experience in surface-water hydrology, fluvial geomorphology, open-channel hydraulics, water quality, and computer methods for water resource data analysis. His education (B.S. and M.S. degrees in geology from University of Montana) emphasized sedimentary and glacial geology, geophysics, surface-water hydrology, and fluvial geomorphology. Chuck's professional interests include, watershed management and cumulative effects of land use; measurement and monitoring of sediment transport and channel changes in gravel-bed rivers; application of river-channel classification and historic stability assessment to river-corridor management and channel restoration; design and implementation of channel maintenance flows; analysis and maintenance of irrigation water quality (salinity and trace elements); and surface-energy balance methods for measuring evapotranspiration and consumptive use of water. Chuck is a native of Forsyth and resides in Helena where he works for Montana DNRC-Water Resources.

Andrew Dana, Owner, PMD Ranch

Andrew Dana owns PMD Ranch in the Paradise Valley with his three brothers, and the ranch has been in the family for 50 years. PMD Ranch has over 3 miles of Yellowstone River frontage, and includes the lands surrounding the headwaters and mouth of Nelsons Spring Creek. The ranch is a working cattle ranch and has been protected by a conservation easement since 1981, now held by The Montana Land Reliance. He was appointed by Gov. Racicot to the Upper Yellowstone River Task Force in 1997. He is also the founder and principal of Conservation Law Associates in Bozeman, Montana. A graduate of Stanford Law School in 1989, he has practiced land conservation and open-space real-estate law since 1991, representing land trusts in Montana and the Northern Rockies and consulting as a nationally known expert on private land conservation law. He also has degrees in Geography (M.A., University of Washington; B.A., Middlebury College). His Master's thesis focused on interstate water allocation issues between Montana and Wyoming and the Yellowstone River Compact.

Darrin Kron, Section Supervisor Monitoring and Assessment, Montana Department of Environmental Quality

Darrin Kron leads a section of MT Department of Environmental Quality that monitors water quality across Montana and engages and supports citizen monitoring efforts. He has worked at DEQ almost 20 years within water quality monitoring and restoration planning programs. He started his career by earning a master's degree in aquatic toxicology and chemistry in Wisconsin and worked on agricultural and urban water quality improvement projects while employed by a Conservation District in Minnesota.



John LaFave, Senior Hydrogeologist, Ground Water Assessment Program Manager, Montana Bureau of Mines and Geology

John LaFave is a senior research hydrogeologist with the Montana Bureau of Mines and Geology where he manages the Montana Groundwater Assessment Program, also serves as an associate director of the Montana Water Center. John has been evaluating groundwater supply and quality of the state's principal aquifers for the past 25 years. He has geology degree from the University of Wisconsin and a master's degree in hydrogeology from the University of Texas.

Marco Maneta, Associate Professor, Department of Geosciences, University of Montana

Dr. Maneta's research focuses on water and energy flows in the landscape at the watershed and regional scales. Specifically, he is interested on how vegetation and agriculture drive the apportionment of available water and energy and are thus a primary control on hydrologic processes. After finishing his Ph.D. (University of Extremadura, Spain) on integrated physics-based hydrologic modeling for semiarid rangelands, he worked as a postdoctoral researcher at UC Davis on the interactions between hydrology and agriculture in tropical regions. During this period, he developed hydro-economic models understand how climate, agricultural markets, and water policy differently affect industrial, small scale, and subsistence farmers. Currently he is an Associate Professor of hydrology and hydrologic modeling in the Geosciences Dept. at the University of Montana. He is currently collaborating with DNRC, the MCO and MSU on the development of state-of-the-art models and analyses to investigate the impact of droughts on Montana's water resources and agriculture.

Lawson Moorman, CFM, Park County Planner and Floodplain Administrator, Park County Planning Department

Growing up in Montana, Lawson learned at an early age the landscapes and people in Montana are some of the best in the West. While attending Montana State University as an archaeology undergraduate, and after a few seasons of field work throughout Montana, Lawson decided he could better serve Montana and its residents by planning for growth and taking on some of the challenges Montanans face in a time of unprecedented growth. Lawson's decision to pursue a career in planning started taking shape after receiving a Master's in Public Administration from Montana State University and working as a planner for Flathead County for two years. He moved to Livingston in 2016 after accepting a position in the Planning Department for Park County. Lawson enjoys working with members of his community and strives to preserve what makes Park County such a special place to visit and live.

Adam Sepulveda, Research Zoologist, U.S. Geological Survey

Adam is a research zoologist with the U.S. Geological Survey's Northern Rocky Mountain Science Center. His research focus is on early detection and risk assessment of aquatic invasive species in the West and Alaska, including Northern pike, American bullfrogs, Eurasian watermilfoil, dreissenid mussels, New Zealand mudsnails and aquatic parasites. Adam has been with the USGS for 8 years. He did his PhD and post-doc at the University of Montana and received his A.B. from Dartmouth College.

Paul Shea, Director: The Yellowstone Gateway Museum of Park County

Paul Shea has lived and worked in and around Yellowstone National Park since 1979. He was elected as President of the West Yellowstone, Montana Historical Society in 1993. He served as Historian/Archivist and President for the historical society. In 1998, Paul was the Founding Executive Director of the newly formed Yellowstone Historic Center, located in West Yellowstone, Montana. Paul oversaw the restoration of West Yellowstone's historic railroad district and opening of a new museum. Paul moved to Livingston, Montana in 2009, and is now the Director of the Yellowstone Gateway Museum of Park County. At Livingston he managed the project to completely re-exhibit the entire museum and install a



heating and cooling system in the 100-year-old Historic North Side School. Paul was a member of the Board of Directors for the Museums Association of Montana from 2000 to 2010, he served four years as President.

Kerri Strasheim, Bozeman Water Resources Regional Manager, Montana Department of Natural Resources and Conservation

Kerri Strasheim has been employed with DNRC (in the Bozeman office) since June of 2005, starting in the adjudication program. In February of 2008, she started training to move into the new appropriations program. In August of 2008, Kerri was promoted into the Manager position. Previous to that, she worked for the USFWS investigation New Zealand Mud Snails and performing lab work with relation to fish health. For her education, (Go Cats!), Kerri received her BS in Earth Sciences from MSU-Bozeman, emphasizing in geohydrology with a microbiology option. She completed her MS in Earth Sciences from MSU-Bozeman, studying septic system influence on water quality in surface water and ground water. Kerri was born and raised on a flood-irrigated farm (tubes and gated pipe) in Eastern Montana (Terry), appreciating water from the Yellowstone River from a young age. Outside of work, her hobbies include fishing, birding CrossFit, volunteering (ARC and GAL/CASA), and volleyball.

Larry Swanson, Director, O'Connor Center for the Rocky Mountain West, University of Montana

Larry Swanson is a Ph.D. economist who is widely known for his many projects and studies evaluating regional and sub-regional economies and patterns of growth and change in the region. He's done major projects for state and federal agencies, foundations, non-profit organizations, county and city governments, and private firms, including hundreds of studies on population and labor force trends, demographics, and metro and non-metro economic change and restructuring. He received a B.S. degree in business and journalism from the University of Nebraska in 1973 and a doctorate in economics and community and regional planning from Nebraska in 1980. He edited a quarterly state publication on natural resource management for five years in the 1970s. In the early '80s he headed the Great Plains Office of Policy Studies at the Nebraska's Center for Great Plains Studies and became widely known for his work on rural and agricultural issues and affairs and energy strategies. His Ph.D. dissertation on rural community decline in the agricultural Midwest was often cited during the mid-80s Farm Crisis. He worked as a private economist and consultant for several years, initially in association with a Washington, D.C., consulting firm. During that time, he helped produce and co-author two state-funded studies leading to landmark state legislation and programming in the mid-80s, including the Nebraska Energy Independence Act and Nebraska Groundwater Quality Protection Act. This work led to his appointment to the advisory panel of the Office of Technology Assessment, U.S. Congress, in the first nation-wide assessment of groundwater contamination in America.

Whitney Tilt, Director, Land and Wildlife Conservation, Arthur M. Blank Family Foundation

Whitney serves as Director of Land and Wildlife Conservation for The Arthur M. Blank Family Foundation and AMB West in Emigrant, Montana, working with the Mountain Sky Guest and West Creek Ranches, and addressing larger natural resource issues in the Northern Yellowstone ecosystem. Whitney is also a founder of High Country Apps LLC, developing interactive field guides for smart phones and tablets, and author of the Flora of the Yellowstone. Throughout his career Whitney has focused on natural resource conservation issues, working from the "radical center" to identify common ground, and sustainable solutions. Issues addressed range from Colorado River water allocations and black-footed ferret recovery to Asian tiger conservation and evaluation of federal fisheries programs. Whitney has worked for the National Fish and Wildlife Foundation and the Sonoran Institute, among others. He earned a Masters of Environmental Science from the Yale School of Forestry and began his introduction to the Greater Yellowstone Region by ranching in the Tetons of Idaho.



Erin White, Park Hydrologist, Yellowstone Center for Resources, National Park Service

Erin White is the Park Hydrologist at Yellowstone National Park. Within the Yellowstone Center for Resources, she oversees the hydrologic concerns of Yellowstone National Park and supports the development of research projects, in collaboration with federal and state agencies, regional universities, organizations or individuals, to further the park's ability to incorporate hydrologic information and data into park management decisions. Erin received her education in the Department of Environmental Engineering Sciences at the University of Florida (B.S., M.E., and Ph.D.). As a research hydrologist and hydraulic engineer, Erin has been involved in diverse water resources projects in Florida, California, Spain, Puerto Rico, and the U.S. Virgin Islands. She has participated in disaster response and special programs for multiple Federal sponsors, including NOAA, U.S. Dept. of Defense, U.S. Army Corps of Engineers, FEMA, and U.S. Department of Energy. Erin joined the National Park Service in June 2018 from the U.S. Army Corps of Engineers where she served as a Civil Engineer (Hydraulics) for projects and assessments related to the Comprehensive Everglades Restoration Plan and Hurricane Maria recovery.

Cathy Whitlock, Professor of Earth Sciences and Fellow of the Montana Institute on Ecosystems, Montana State University

Dr. Cathy Whitlock is a professor of Earth Sciences at Montana State University and a fellow of the Montana Institute on Ecosystems. She is also the lead author of the 2017 Montana Climate Assessment. Dr. Whitlock is nationally and internationally recognized for her research and leadership activities in the field of past climatic and environmental change. Dr. Whitlock has published over 190 reviewed journal articles and book chapters on the topic of vegetation, fire, and climate history, and her current research extends from Yellowstone and the western U.S. to New Zealand, Tasmania, and Patagonia. The MSU Paleoecology Lab, established in 2004, supports post-docs, graduate students, undergraduates and visiting scientists from around the world. Dr. Whitlock's research has been funded by grants from the National Science Foundation, Joint Fire Sciences Program, National Park Service, Department of Energy, USDA Forest Service, and US Geological Survey. She earned her Ph.D. in geological sciences from the University of Washington in 1983 and her BA from Colorado College in 1975. She is a Fellow of the Geological Society of America as well as the American Association for the Advancement of Science; in 2014, she received the international EO Wilson Biodiversity Technology Pioneer Award; and she was elected to the National Academy of Sciences in 2018.