

SEBAGO LAKE SYMPOSIUM - SPEAKER INFORMATION

FEBRUARY 2, 2019, SAINT JOSEPH'S COLLEGE



Alyssa Charette is a junior at Saint Joseph's College pursuing a BS in Biology and Secondary Education. Originally from Fort Kent, Maine, she served as an intern in 2018 focussing on creating an innovative lake science curriculum using the Sebago Lake buoy data for high school earth/environmental science students that will be implemented at Windham High School this spring. She will be presenting in the Educator's workshop.



Adam Daigneault is an Assistant Professor of Forest, Recreation, and Conservation Policy at the University of Maine's School of Forest Resources and a Faculty Fellow at the Mitchell Center for Sustainability Solutions. He received a PhD in Environmental and Natural Resource Economics from Ohio State University in 2006 and has spent the past decade developing quantitative models to assess the socio-economic impacts of environmental and land use policy on the natural resource sectors. Adam's research has focused on a wide range of issues, including freshwater management, climate change mitigation and adaptation, invasive species control, and valuing ecosystem services. His work typically follows an integrated approach to address complex policy issues that have a direct impact on stakeholders. Dr. Daigneault has conducted dozens of watershed-level economic analyses over his career, and nearly all of them have focused on identifying potential trade-offs of alternative policy and land use interventions.



Senator Bill Diamond represents District 26 in the Maine Senate.



Ryan Dorland is an Assistant Professor of Sciences at Saint Joseph's College and is a resident of Windham. Ryan teaches Physics and Chemistry courses and labs. His research interests include development of inexpensive environmental monitoring sensors and platforms, nanosatellite technology, and numerical modeling of lake circulation and transport, including effects of environmental change on lakes. His early degrees were from Minnesota, where he learned to love fishing and spending time on lakes.



Nina Eduljee is an Associate Professor of Psychology at Saint Joseph's College. Nina B. Eduljee is a professor of psychology at Saint Joseph's College. She actively presents her research at various national and international conferences on topics including attitudes toward the use of technology, specifically examining students' attitudes towards technology, with a focus on cross-cultural research. Her current research endeavors include a collaborative long-term project examining memory strategies, efficacy of using digital tools in the classroom, learning strategies and motivation of college students, examining student engagement in college, and investigating statistical anxiety.



Susan Gallo has over 25 years of experience in the conservation field. She has managed programs in wildlife monitoring, citizen science, conservation policy, and land management. Her education includes a B.S. in Natural Resources from Cornell University, and an M.S. in Organismal Biology and Ecology from the University of Montana. She has worked as a certified Stewardship Advisor for the state of Montana, monitored avian nesting success for timber companies out west, and lived on a small Maine off-shore island capturing and banding puffins and terns. She was a wildlife ecologist with Maine Audubon for 20 years, where she directed the Maine Loon Project, including the annual Loon Count, many different assessments of loon habitat quality and productivity, an analyses of loon mortality, and outreach and education programs, including the *Common Loons in the Classroom* curriculum and the *Fish Lead Free* initiative. Susan started in 2018 as the Executive Director of the Maine Lakes Society where she will focus on fund raising, advocacy, expanding LakeSmart, and growing the Lakes Alive! education program. Susan is a 2011 TogetherGreen Conservation Leadership Fellow, and a 2018 Source Sustainability Award Winner.



Roberta Hill is an aquatic ecologist and environmental educator. She has been active in the field of lake protection and community outreach in Maine for over twenty years, leading community-based projects that have ranged from watershed surveys, to non-point source remediation, to invasive aquatic plant monitoring. She has also been instrumental in the creation and development of some of Maine's most successful and long-standing lake education programs. Currently the Invasive Species Program Director for the Lake Stewards of Maine, Roberta is the originator and coordinator of LSM's Invasive Plant Patrol (IPP) program. Working in close collaboration with lake associations, conservation groups and State Government, the IPP program has now trained over 4,500 individuals, including volunteers, professionals, agency personnel, students, teachers and others, to screen Maine waterbodies for the presence of invasive aquatic plants. LSM's Invasive Plant Patrol program is seen nationally and internationally as a model for citizen-based early detection. Roberta is the principal author of the Maine Field Guide to Invasive Aquatic Plants and co-author of Citizens' Guide to Invasive Aquatic Plant Management.



Brie Holme is a water resources specialist at the Portland Water District and has been involved with source protection on Sebago Lake since 2003. She monitors water quality in the lake and tributaries, designs storm-water solutions, inspects lake front properties for regulatory compliance, participates in outreach efforts, and coordinates the Lakescaping Grant program. Brie holds a degree in Environmental Studies and Biology from Mount Holyoke College.



Colin Holme is the executive director of Lakes Environmental Association (LEA) and has been working on lake protection and monitoring initiatives in Maine for the last 18 years. Colin has run LEA's water testing, mapping, and mitigation programs and has led, worked on, and implemented numerous watershed projects aimed at finding and correcting non-point source pollution. He regularly works with municipal planning boards and staff to review large and small development projects. He has coordinated GPS photo inventories of many of the nearby lakes and created the official shoreland zoning maps for six surrounding towns. Colin has served on the previous two statewide Shoreland Zoning study groups and plays an active role in his hometown's local government. Colin graduated from the University of Maine after studying environmental science and oceanography in 1999.



Paul Hunt has been the Environmental Manager for the Portland Water District, Maine's largest water and wastewater utility, since 1999. For the first five years he thought his job was to protect Sebago Lake, the District's source. Since then he has been working to protect both the lake AND the quarter-million acres of forests that carpet the lake watershed since they are the critical first step in the treatment process. He has geology degrees from the University of Maine at Farmington and the University of Oregon.



As a Water Resources Specialist for the Portland Water District, **Laurel Jackson's** duties revolve around the protection of Greater Portland's drinking water source, Sebago Lake. She provides assistance to lakefront homeowners, conducts water quality monitoring, participates in outreach efforts and manages the land conservation program. Laurel has a biology degree from the University of Southern Maine and has worked at the Portland Water District for twelve years.



Mary Jewett has a long history in the Lakes Region. She grew up in Bridgton and attended Lake Region High School, where she discovered a love for environmental science. After receiving a degree in Ecology from Unity College, Mary spent time doing field work in North Carolina. Upon returning home, in 2009, there was an opening for an Americorps position at LEA working in their education program. Since being hired full time in 2010, Mary has worn many hats. She is currently still part of the education department but also manages the Courtesy Boat Inspection program and collaborates with the Department of Environmental Protection to improve their Invasive Aquatic Species work.



Emily Lesher is an assistant professor of chemistry at St. Joseph's College in Standish with expertise in aquatic, analytical, and environmental chemistry. She is particularly interested in the chemistry and transport of elements in both the natural and engineered environments with projects on lead contamination in drinking water and Sebago Lake water and sediment chemistry. She also investigates how chemistry education can involve the local community and is interested in training future science teachers.



Jessie Meeks currently teaches about water resources at Bates College, following a two-year term as the Hydrogeologist and Source Water Protection Team Leader in the Drinking Water Program (DWP) at the Maine Center for Disease Control and Prevention. While at the DWP, Jessie worked to assess current and potential impacts to drinking water and promote strategies that ensured the sustainability of Maine's drinking water supplies. Jessie has a Ph.D. in Hydrogeology from the University of Neuchatel in Switzerland and a M.S. in Geology from Syracuse University.



Spencer Meyer is a co-founder of the Sebago Clean Waters initiative and a senior conservationist at Highstead, where he builds partnerships to develop conservation finance strategies to accelerate New England forest conservation. Spencer is a co-author of the Wildlands and Woodlands vision and an associate at the Harvard Forest, where he conducts research on landscape ecology, land protection trends, and ecosystem services. Previously, Spencer worked jointly at the Yale School of Forestry and Environmental Studies and with the global science team at The Nature Conservancy. Before that, Spencer spent 12 years in Maine, working on sustainable forestry research with academic, forest industry, and conservation partners. Spencer holds degrees from Dartmouth College and the University of Maine. Spencer is based in Guilford, CT, but returns to Maine regularly. He hopes you won't hold that against him.



Firooza Pavri is director of the Muskie School of Public Service at the University of Southern Maine and professor of Geography. Firooza teaches and conducts research in the area of environmental geography, with a focus on society-environment interactions, natural resource conservation & policy, sustainable development, and geospatial technologies, including remote sensing. Her research uses satellite imaging and other geospatial tools and techniques to monitor landscape changes across wetland, freshwater, urban, and forested ecosystems, both in the United States and India. She is currently collaborating with researchers from the University of Maine to assess the vulnerability of Maine lakes to water quality decline. Her part in this project considers role of lake associations and stakeholders in data collection, monitoring and conservation management vis-à-vis lake stewardship.



Jim Pellerin, Regional Fishery Biologist for the Sebago Lake Region of the Maine Department of Inland Fisheries and Wildlife, has a 21+ year career in natural resource management, consisting of research, conservation, planning, regulation, policy and implementation. He is responsible for assisting in the protection and enhancement of freshwater fishery resources in southern Maine, which involves monitoring and assessing fish populations, developing stocking programs, developing commercial and recreational fishing regulations, developing and enhancing public access to public waters of the state, and serving as a review agent for various state and federal environmental review agencies.



Sarah Plummer has been the Environmental Education Coordinator at Portland Water District since 2013 working on school education programs and outreach efforts related to water and stewardship of our water resources. She has also worked on watershed protection and various education and outreach initiatives both at PWD and Cumberland County Soil & Water Conservation District. Sarah served on the Board of the Friends of the Presumpscot River and the Presumpscot Regional Land Trust, and has been on the Planning Committee of the Southern Maine Children's Water Festival committee since 2000. In 2008, she was awarded a US EPA Environmental Merit Award for her involvement in the Southern Maine Children's Water Festival, and received the Alumni of the Year Award from USM's Department of Environmental Science in 2009. An avid outdoor enthusiast, Sarah finds herself in the Maine woods often, whether it's trail running, skiing, biking, or exploring with her two kiddos and dog. She finds inspiration in our local lakes and rivers, and is passionate about sharing her love for conservation, science, and the outdoors with students of all ages.



Jeff Riddle wears many hats at Windham High School. He is an earth and space science teacher, adventure physical education teacher, advises the Windham Outing Club, is the varsity girls' and boys' cross country coach, and is a girls' assistant outdoor track & field coach. In his time at Windham, starting in 1999, Jeff has served on advisory boards and other committees. In 2011, Jeff was awarded the Cumberland County Soil & Water Conservation District Educator of the Year Award. In 2013, Jeff earned an SMAA Boys Cross Country Coach of the Year Award. And in 2015, Jeff traveled to R.I.T., Rochester Institute of Technology, to be honored as one of their Distinguished Teachers within R.I.T.'s Teacher Recognition Program. Outside of Windham programming, Jeff has been an adjunct instructor at Saint Joseph's College, a sea kayaking guide, a co-host of The Maine Show, worked at L.L. Bean's and The Chewonki Foundation, and was an original board member of Teens to Trails (T3).



Todd Rodgers and his wife Laura live in Boston, MA, but have a second home on the western shore of Sebago. Todd has a degree in physics from Johns Hopkins University and a graduate degree in computer science from New York University. He currently runs a consulting firm (Rodgers Research Group, LLC) that focuses on low cost, Internet connected sensors for environmental monitoring. He has worked for NASA, IBM Research, Pearson Education and a variety of “start-ups” in the Boston area. He is also an Adjunct Professor at Endicott College in Beverly, MA.



Chad Thompson is the Source Protection Coordinator for the Portland Water District and has worked in several water quality roles for the District over his 20 year tenure. In his current role, he coordinates four water resources specialists based out of the Sebago Lake Protection Office in Standish. He has a degree in Biology from Eckerd College.