



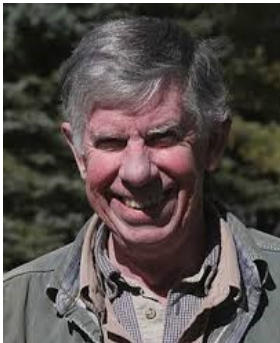
# Adirondack Research Consortium

## 23<sup>rd</sup> Annual Conference on the Adirondacks

May 25<sup>th</sup> and 26<sup>th</sup>, 2016, The Conference Center at Lake Placid, Lake Placid, NY

“Birds, Water, Ecology, and Energy Choices”

### Birds of the Adirondacks - Sponsored by The Kelly Adirondack Center at Union College



An eminent ornithologist, **Frank Gill** recently retired as the National Audubon Society's Chief Scientist and as Interim President and CEO (2010). Frank came to Audubon after 25 years at The Academy of Natural Sciences in Philadelphia. Frank is a past President of the American Ornithologist's Union. Frank's published works include his acclaimed textbook, *Ornithology* (W.H. Freeman, 1989, 1994, 2007) and over 150 scientific and popular articles. His worldwide research programs included pioneering field studies of island birds, hybridization by Blue-winged and Golden-winged warblers, flower-feeding strategies of sunbirds of Africa and of hermit hummingbirds of Middle America, and phylogeny through DNA of the chickadees of the world. For his outstanding contributions to ornithology, Frank received the William Brewster Medal of the AOU in 1998. Frank Gill has a Ph.D in Zoology from the University of Michigan (1969) and an honorary Doctorate of Science from Ohio Wesleyan University (2014).

As Science Coordinator for the Adirondack Program of the Wildlife Conservation Society, **Michale Glennon** serves a leading role in the ecological research conducted in the Adirondacks. Her research interests lie primarily at the intersection between land use management and ecological integrity, with a number of projects ranging from the impacts of low density, exurban development on wildlife to the potential changes to Adirondack lowland boreal communities resulting from climate change. Michale serves on the advisory board of the Shingle Shanty Preserve and Research Station, the Technical Advisory Committee for the Adirondack Park Agency, the Biodiversity Conservation Advisory Committee for the New York State Department of Environmental Conservation, the Forest and Land Management Task Force of the Adirondack Climate Action Plan, the Avian Taxonomic Working Group of the Adirondack All-Taxa Biodiversity Inventory, and the Paul Smiths College Fisheries and Wildlife Science Advisory Board.



**Erin Crotty** has been Executive Director of Audubon New York since April 2013. Audubon New York is a leading state program of the National Audubon Society with a \$3.5 million annual budget, 35 employees, 7 Audubon Centers & Sanctuaries, and a powerful network of members, Audubon Chapters, partners, and program participants. Erin was Commissioner of the New York State Department of Environmental Conservation from 2001-2005, and the first woman to lead this agency of then over 3,300 professional staff and a nearly \$1 billion annual budget. For nearly 5 years, Erin served as the Director of State and Community Relations for Rensselaer Polytechnic Institute (RPI), her alma mater, acting as the university's primary liaison to State and local government, businesses and non-profits throughout the community. Erin holds a Bachelor of Arts in Political Science from Russell Sage College and a Master of Science in Urban and Environmental Studies from RPI.

**Mike Burger** has been with Audubon New York since 1999, first as a forest ecologist conducting research in the Adirondacks, then as Director of Bird Conservation for seven years, and most recently as Director of Conservation and Science. Based at the Cornell Lab of Ornithology in Ithaca, Mike functions as Audubon New York's chief scientist, with a responsibility of providing a solid, science-based foundation for all of the organization's programs. Additionally, Mike oversees several of Audubon New York's conservation programs, including the Important Bird Areas, grassland bird conservation, and forest biodiversity programs. Prior to coming to Audubon, Mike earned M.S. and Ph.D. degrees at the University of Michigan where he studied climatic and physiological determinants of bird ranges and was supported by a Department of Energy Global Change Fellowship.



## Energy Panel: Reforming the Energy Vision- Opportunities for North Country Communities



**Panel Chair, Robert B. Catell**, Chairman, AERTC@SUNY Stony Brook, is currently the Chairman of the Advanced Energy Research and Technology Center (AERTC) at New York State University at Stony Brook, and Chairman, New York State Smart Grid Consortium. Mr. Catell was formerly the Chairman and Chief Executive Officer of KeySpan Corporation and KeySpan Energy Delivery, the former Brooklyn Union. His career with Brooklyn Union started in 1958. He became Chairman, National Grid, U.S., following the acquisition, by National Grid, of KeySpan Corporation. Mr. Catell is Chairman of Alberta Northeast Gas Ltd., and a member of the board of directors of KEYERA Energy Management Ltd. He is also the Chair of New York State Foundation for Science, Technology and Innovation (NYSTAR).

**Lillie Ghobrial** is a project coordinator from NYSERDA working in the NY-Sun Program. She received her Bachelor of Science Degree in Applied Physics in 2011 and Master's Degree in Advanced Energy and Fuels from Southern Illinois University in 2013. Prior to receiving her Masters, Lillie worked with Brookfield Renewable Power. She started working with NYSERDA in 2014, working in various programs and now focuses on NY-Sun Program, specifically Commercial/Industrial >200kW. Her primary roles are in the review, approval, and processing of the Commercial/Industrial MW Block Applications and as the Data Steward for Commercial/Industrial customer-sited tier solar at NYSERDA.



**Jeff Bishop** is Brookfield Renewable Energy Group's Senior Director, Governmental Affairs. Since interning for a wind company in Morocco in 2002, Jeff has spent his career with some of the world's leading renewable energy companies, in roles spanning finance, project development, corporate development, and policy. He currently leads or serves on the boards of multiple industry associations, including Renewable Energy Northeast and the Maine Renewable Energy Association. Jeff holds a MBA from the University of Chicago Booth and a BS in Electrical and Computer Engineering from Rice University.

**Rich Burns** is Manager of Community & Customer Management for National Grid in Potsdam, NY. In that role, Rich manages strategic relationships with National Grid customers in St Lawrence, Franklin and Essex counties. He is the primary point of contact for the Company's largest commercial and industrial customers as well as all the North Country's major municipalities. He has worked for National Grid for 30 years, and has been in his current capacity in Potsdam since 1991. Rich holds a Bachelor of Science degree in Electrical Engineering from Clarkson University and is a New York State licensed Professional Engineer.



**Linda Saalman** is currently Manager, Project Portfolio for AVANGRID and its subsidiaries, New York State Electric & Gas Corporation and Rochester Gas and Electric Corporation. Since joining the Companies, Linda has worked on the transition to the next generation energy company: launching retail access at RG&E, initiating and later reviving energy efficiency at NYSEG and RG&E, competitively acquiring generation and demand-side resources, selling generation, and transitioning to a ground-breakingly competitive wholesale electric market. She is now responsible for overseeing the effective realization of the Companies' new role as the Distributed System Platform Provider, with a particular focus on opportunities available to communities, developers, and customers today, and on the Clean Energy Standard plan to achieve 50% renewables in New York by 2030.



## Luncheon Guest Speakers, May 25, 2016



**Dr. Quentin Wheeler** was named the President of the SUNY College of Environmental Science and Forestry (SUNY-ESF) in January 2014. He came to the College from Arizona State University where he had served in various positions since 2006 including vice president and dean of the College of Liberal Arts and Sciences. Previously, Quentin served in distinguished academic roles for 24 years at Cornell University, where he earned the rank of tenured full professor. His research career has focused on the role of species exploration and natural history collections in the exploration and conservation of biodiversity. Quentin holds bachelor, master's and Ph.D. degrees in entomology from The Ohio State University.



**Dr. Nancy Mathews**, Dean, Rubenstein School, University of Vermont. As Dean of the Rubenstein School, Professor Nancy Mathews brings experience as former director of the Morgridge Center for Public Service, professor of environmental studies at the Gaylord Nelson Institute for Environmental Studies, and professor of wildlife ecology, all at the University of Wisconsin-Madison. Prior to her position at UW-Madison, she was the assistant unit leader for the U.S. Geological Survey's Texas Cooperative Fish and Wildlife Research Unit. Nancy served as a peer reviewer for the Higher Learning Commission from 2009-2013 and was recently elected to a four-year term on the commission's Board of Trustees. Nancy is a nationally recognized wildlife biologist and has conducted extensive research in brown-headed cowbird behavior, white-tailed deer behavior and genetics, and chronic wasting disease. She holds a B.S. in Biology from The Pennsylvania State University, and a M.S. and Ph.D. in Ecology from the SUNY College of Environmental Science and Forestry.

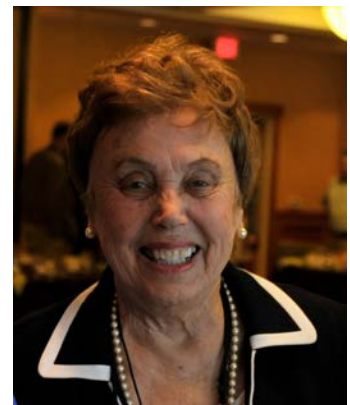
### **The Changing Role of Women and Leadership in the Adirondacks** *Sponsored by the Walbridge Fund*

#### **Session Co-Chairs:**

**Cali Brooks**, President & Chief Executive Officer, Adirondack Foundation. After working with nonprofit organizations in Southeast Asia, Central America and the United States, Cali returned to the Adirondacks on the staff of the HKH Foundation where she conducted a survey to assess the economic, social, cultural and environmental strengths of the Adirondack region. She then joined the Public Affairs office of the New York State Department of Environmental Conservation and co-founded the Wildlife Conservation Society's Adirondack Communities and Conservation Program. She has a BA from the Evergreen State College and master's degree from The School for International Training.



**Elizabeth Thorndike** has spent her professional career in the nonprofit and education sectors, and in public policy positions concerned with the environment at the local, state, and federal levels. Dr. Thorndike was founder, executive director, president, and member of the board of the Center for Environmental Information (CEI) in Rochester, NY from 1973 to 2007. She has held appointments as adjunct faculty at Cornell University since 1996. She has served as a Commissioner of the Adirondack Park Agency where she chaired the Agency's Park Policy and Planning Committee from 1980 to 1995, as a member of Governor Mario Cuomo's Environmental Advisory Board from 1985 to 1994, and as a member of NYSERDA's Board since 1997 where she chairs the Waste and Facilities Management Committee with oversight for cleanup of the West Valley nuclear waste site. Dr. Thorndike holds bachelor's and master's degrees from Stanford University and Harvard University and a doctorate in natural resource policy and planning from Cornell University.



## Keynote:



**Dr. Sue R. Faerman**, Interim Dean of UAlbany's College of Computing and Information. Faerman, a professor of public administration at Rockefeller and UAlbany alumna, has a long and notable career at the University at Albany as a faculty member and administrator and is currently serving as the Senior Vice Provost for Undergraduate Education. Dr. Faerman is Academic Chair of the Women's Leadership Academy at the Center for Women in Government & Civil Society at Rockefeller College. In 2000, Dr. Faerman received the SUNY Chancellor's Award for Excellence in Teaching, and in 2003, she received the Leslie A. Whittington Excellence in Teaching Award from the National Association of Schools of Public Affairs and Administration. She earned her BS in Applied Mathematics and Statistics from Stony Brook University, her MS in Applied Mathematics from George Washington University, and her PhD in Public Administration from the University at Albany, State University of New York.

## Panel Members:

**Zoe Smith** joined WCS in 2000 and is currently the Landscape Coordinator for the Wildlife Conservation Society's Adirondack Program. Her conservation interests lie in working with communities on local issues particularly wildlife conflict on the human/wild interface and building local leadership for conservation. Zoe is an active member of the Adirondack Common Ground Alliance core group and participates in various regional Smart Growth projects. Zoe was an appointed member of the Northern Forest Center's Sustainable Economy Initiative that developed a 4-state economic strategy for rural Northern Forest communities. Zoe has lived and worked in the Adirondack Park for almost 20 years and is an active member of her local community. She holds a BA in Natural Resource Economics from SUNY Fredonia.



**Barbara Rice** is a native of the Adirondacks and a partner in Rice Furniture, a third generation local business that she co-owns and operates. She received her BA from SUNY Plattsburgh in Business and Economics, and later attended Physician Assistant (PA) school at Albany Medical College and worked as a PA specializing in Urology in Vermont and Massachusetts. In 2005 she returned to Saranac Lake with her husband and son to assist in the operation of the family business. Barbara was elected to the Franklin County Legislature in 2013 and currently serves as the Vice Chair of the board. She served as a Saranac Lake Village Trustee from 2012 - 2016 and as a member of the Harrietstown Board of Assessment and Review from 2006 - 2008. Barbara has been very active in many local business and community organizations.

**Dr. Kristine D. Duffy** was named President of SUNY Adirondack in 2013. Dr. Duffy brings significant experience in New York State higher education. Prior to her current position, she served as Vice President of Enrollment Services at Onondaga Community College and Dean of Enrollment Management at SUNY's Cayuga Community College. Dr. Duffy also has experience working in the Capital Region, having served as Director of Admission at Sage Junior College of Albany and as a Guidance Counselor at Colonie Central High School. She holds an Ed.D. in Executive Leadership from St. John Fisher College, where her dissertation focused around the study of community college student retention. She also earned a M.S. in Guidance and Counseling from Russell Sage College and a B.S. in Business Administration from SUNY Brockport.



## Water Quality in the Adirondacks

Sponsored by *Placid Boatworks*, Lake Placid, NY

### Session Chair:



**Cornelius B. Murphy Jr.**, is currently a SUNY Senior Fellow involved in numerous projects for Chancellor Nancy Zimpher. Since his retirement as President of SUNY ESF at the end of 2013, Neil has also been teaching classes at the College. Neil was the President of ESF from May 2000 through December 2013 fostering green initiatives at the heart of the institution and driving a passion and commitment to be an economically responsible member of a global society that is evolving to use more friendly practices and resources. Prior to that Neil held various positions at O'Brien & Gere, a global consulting firm based in Syracuse, starting as a Laboratory Technician in June 1970 and working his way up to President in 1993 and Chairman of the Board in 1998.

### Keynote:

**Scott Kishbaugh** has been the Chief of the Lake Monitoring and Assessment Section of the Division of Water for the New York State Department of Environmental Conservation since 2010. He has also been the Director of the New York Citizens Statewide Lake Assessment Program since 1985, and the fledgling DEC HABs program since 2012. He received a B.S. and M.S. in Environmental Engineering from Cornell University, and has been a licensed Professional Engineer since 1990. Scott has served on the Board of Directors of the Northeast Aquatic Plant Management Society for several terms, and was also a consultant for the Governor's Commission on the Adirondacks in the 21st Century and a member of the EPA National Nutrient Team. He is the senior author of both editions of *Diet for a Small Lake: A New Yorker's Guide to Lake Management*, and has given numerous presentations on a variety of lake management topics for NALMS, NEAPMS, the New York Federation of Lake Associations, and lake associations throughout the state.



### Panelists:

**Dan Kelting** is the Interim Dean of the School of Natural Resource Management & Ecology at Paul Smith's College. Dan joined the faculty at the College in 2003 as Executive Director of the Adirondack Watershed Institute (AWI). Under his leadership, the AWI has developed the largest water quality monitoring and aquatic invasive species programs in the Adirondacks. Dan also teaches upper level courses in Forest Soils and Laboratory Methods, and mentors students for their undergraduate capstone projects. Previously, Dan was a faculty member at North Carolina State University from 1999 to 2003, where he served as Co-Director of the Forest Nutrition Cooperative and Assistant Professor in the Department of Forestry. Dan received his Ph.D. in Forest Soils from Virginia Tech and he also holds an A.A.S. in Forest Technology and a B.S. in Resource Management from SUNY-ESF, and an M.S. in Forestry from Virginia Tech.



**Chris Navitsky** has been the Lake George Waterkeeper for over ten years; a program initiated by the Fund for Lake George in 2002. The Lake George Waterkeeper program utilizes engineering and science based approach to defend the natural public resources of Lake George and its basin for the common good of the watershed and community. Chris is a graduate from the SUNY - ESF in environmental engineering and a licensed Professional Engineer in New York and Pennsylvania. Prior to becoming the Waterkeeper, Chris worked for 16 years in consulting engineering focused on site development and municipal engineering with strengths in wastewater design, stormwater management and erosion control. The Lake George Waterkeeper is a member of Waterkeeper Alliance which has over 175 waterkeepers protecting waterbodies around the world.





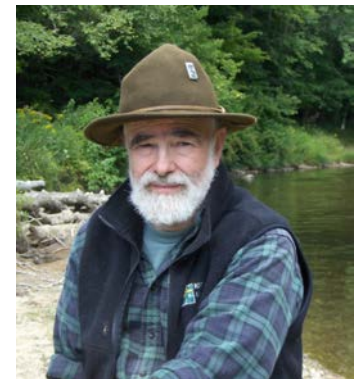
**Margaret H. Murphy** is currently the owner and principal scientist at Integrated Aquatic Sciences, LLC in Lake Placid as well as an adjunct assistant professor at SUNY-ESF. She has more than 20 years of experience in aquatic ecology and fisheries biology. Margaret developed and implemented biological monitoring programs, habitat assessments and restoration plans, water quality surveys, and fisheries assessments within lakes, rivers, and streams. She has participated in and managed extensive sampling of water, sediment, fish, aquatic and wetland habitat, and aquatic invertebrates using a variety of methods. Data from many of the sampling efforts were then analyzed to develop an understanding of species composition and diversity, tissue contamination, and habitat quality within the study area. Margaret holds a B.S. Biology from Siena College, and a M.S. and Ph.D. in Fisheries Biology/Aquatic Ecology from SUNY-ESF.



## **Understanding the Ecology of the Adirondacks**

*Sponsored by The Adirondack Council*

**Jerry Jenkins** is an ecologist with the Wildlife Conservation Society Adirondack Program. He is the author of *Climate Change in the Adirondacks: The Path to Sustainability*, a newly-released book on the local implications of climate change, published through Cornell University Press. Jenkins brings decades of research experience in the field and the library to his current projects. In addition to focusing on energy and climate, his work has included botanical and ecological inventories, research on sugar maple regeneration and acid rain, and a focus on the ecological value of conservation easements. Jenkins is the lead author of several comprehensive books on the Adirondack region, including *The Adirondack Atlas: A Geographic Portrait of the Adirondack Park*, coauthored by Andy Keal, and published as a project of the Wildlife Conservation Society in 2004. The Atlas is cited as one of the most comprehensive volumes of information available on the Adirondack region. Jenkins is also the lead author of *Acid Rain in the Adirondacks: An Environmental History*, published in 2007. He recently was honored by the Ecological Society of America with the William S. Cooper award for his role in a botanic survey of Harvard Forest published in collaboration with Forest staff.



Charles Canham is a forest ecologist at the Cary Institute of Ecosystem Studies. Dr. Canham's research includes: Development and application of SORTIE, a spatially-explicit model of forest dynamics; neighborhood dynamics of forest ecosystems; effects of vertebrate consumers on forest dynamics; effects of hurricanes on temperate and tropical forest dynamics; watershed-scale analyses of variation in lake chemistry; likelihood estimation methods and modeling. Much of his research uses novel statistical methods, based on likelihood principles, for the analysis of spatially-explicit processes. He is currently wrapping up long-standing research projects on forest ecology in British Columbia (forest dynamics and sustainable forestry), New Zealand (effects of introduced vertebrate species on forests) and Puerto Rico (effects of hurricanes on tropical forests). Dr. Canham's research on watershed controls on the chemistry of Adirondack lakes has been completed, and he remains involved in the Lyme disease research, primarily in analysis and modeling. He holds a Ph.D. in Ecology and Evolutionary Biology from Cornell University in 1984, a M.S. in Botany from the University of Wisconsin (Madison) in 1978, and a B.S. in Botany from Montana State University in 1975.

