



The Horinko Group's 2017 Summit

in partnership with

The Mannie Jackson Center of the Humanities Foundation

*The Future of Transboundary Water Management –
Cooperation, Informed Decision-Making, and
Empowering Local Actors*

October 12, 2017
Washington, DC



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Diminished freshwater availability and water quality degradation are issues affecting nearly every region of the planet. Inequities are magnified when water sources cross national boundaries, impacting the lives of those less empowered. Globally, countries are struggling to mutually agree on how to manage common water resources. Internationally, conflict in the Middle East could hinge on water supply compromises. Domestically, challenges arise at every level – national, state, and local. This multi-dimensional overlay must be properly addressed in an interconnected manner.

This year's Summit will discuss implications of big data management for improving the human condition from the conflict-torn Jordan River in the Middle East, to the complicated water rights of the Western United States, to the Mississippi River's cyclic drought and abundance. Empowering local actors to access and utilize data with purpose and confidence is an important step in positioning farm operators, utility managers, and those who govern locally to better self-determine a sustainable path forward.

The first panel will focus on transboundary water management between Israel and Palestine, a region as hydrologically complex as it is politically challenging. Israeli and Palestinian water experts will explore the creation of shared data sets that delineate watersheds by leveraging existing and new technologies. Data analytics is used as a trust-building mechanism for establishing water governance bodies to ensure data is collected scientifically, appropriately, and fairly.

The second panel will account for current and forecasted water resource challenges facing communities and rural landscapes in the Western United States. The need for interstate cooperation and compromise regarding water resources allocation will become more evident and immediate as water supply and demand imbalances become greater. Effective collaboration and an array of existing and emerging technological, policy, and management responses will prove critical for establishing pathways for cooperative water use.

The third panel will focus on the nation's most iconic large river system, the Mississippi. Panelists will describe community and interstate efforts to address key system and community stressors. Opportunities to apply big data techniques and data mining will be discussed in a joint effort to better inform watershed-scale environmental, legal, and socio-economic decision-making, while building the adaptive capacity of local actors.

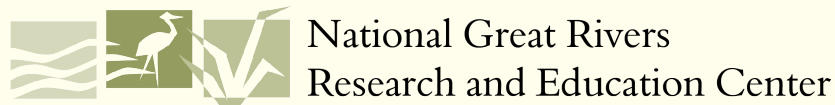
A concluding plenary session will be forward-looking, focused on advancing the panel discussions of regional challenges and solutions. This session involving all Summit participants will be a facilitated effort to identify actionable efforts that can advance the Summit's focus on cooperation, better informed decision-making, and building the capacity of local practitioners. Proof of concept projects will be considered for each region, accounting for social indicators and the human dimension of these natural systems.

We thank you for lending your expertise to today's discussion!

Saluting Our Summit Supporters

The Horinko Group and The Mannie Jackson Center for the Humanities Foundation commend its 2017 Summit Supporters for their generous contribution. Their leadership and acknowledgement of the importance of an inclusive dialogue benefits us all.

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*An informed community ensures a
sustainable future for us all.*

Agenda

REGISTRATION **8:15 – 9:00am**

WELCOMING REMARKS **9:00 – 9:10am**

Brendan McGinnis
Managing Partner, The Horinko Group

KICK-OFF REMARKS **9:10 - 9:30am**

Dr. Dale Chapman
Chair, National Great Rivers Research and Education Center
President, Lewis & Clark Community College

U.S. Congressman Rodney Davis (Illinois-District 13)
Chair, Subcommittee on Biotechnology, Horticulture, and Research
House Committee on Agriculture

Mannie Jackson
President, Mannie Jackson Center for the Humanities Foundation

PANEL ONE **9:30 - 10:45am**

Water Diplomacy and Cooperation in the Middle East – Big Data and the Road Ahead

Dr. Clive Lipchin (Moderator)
Director, Center for Transboundary Water Management,
Arava Institute for Environmental Studies

Dr. Shaddad Attili
Minister at Negotiations Department and former Head of Palestinian Water Authority

Yossi Yaacoby
Director of WaTech Division, Mekorot Water Company

Amir Peleg
Founder & CEO, TaKaDu and Chairman, Smart Water Networks Forum

BREAK **10:45 - 11:00am**

PANEL TWO **11:00am - 12:15pm**

*Sustaining Western U.S. Water –
How Information and Collaboration Are Improving Water Management*

Adam Schempp (Moderator)
Director, Western Water Program, Environmental Law Institute

Shanti Rosset
Colorado River Program Manager,
Metropolitan Water District of Southern California

Dr. Katharine Dahm, P.E
Lead Research, Water Resources and Planning Division, Denver Office,
U.S. Bureau of Reclamation

Lee Storey
Water Strategy Specialist and Partner, The Storey Lawyers

NETWORKING LUNCHEON **12:15 – 1:30pm**

PANEL THREE **1:30 - 2:45pm**

*Using Data, Law and GeoHumanities to Improve System
and Community Resiliency in the Mississippi River Basin*

Ann Mills (Moderator)
Senior Fellow, Food Institute, George Washington University and former Deputy Under
Secretary for Natural Resources and Environment, U.S. Department of Agriculture

Steve Sonka
Professor Emeritus, Department of Agriculture and Consumer Economics,
University of Illinois

John Ploschnitznig
Director, Modeling and Application Development, Riverside Research

Alexandra Campbell-Ferrari
Executive Director, Center for Water Security and Cooperation

Dr. Michael Pasquier
Associate Professor of Religious Studies and History, Louisiana State University

PLENARY SESSION **2:45 - 4:00pm**

Rallying Proof of Concept Initiatives and Key Next Steps

William Kruidenier (Facilitator)
Associate Director, National Great Rivers Research and Education Center

*Facilitated plenary session on next steps to identify and rally support around
benchmark initiatives that could demonstrate interjurisdictional cooperation,
local capacity building, and impact in fostering greater adaptive water
resource stewardship and community resiliency.*

NETWORKING RECEPTION **4:00 - 6:00pm**

Reception Greeting

David Chung
Partner, Environment & Natural Resources Group, Crowell & Moring

Executive Biographies

Welcoming Remarks



Brendan McGinnis serves as Managing Partner of The Horinko Group and Chair of this year's Summit Planning Committee. In 2008, he co-founded the organization and currently directs the firm's Water Resources Policy, Development & Sustainable Communities Group, advancing actionable strategies for addressing domestic water quality-quantity and infrastructure issues. He is also Executive Director of the Water Resources Action Project (WRAP), a purely volunteer, non-profit formed in 2009 to improve public health for underserved communities in the Middle East through greater water stewardship.

He leads the organization's efforts to fund and construct rainwater harvesting systems at schools throughout Israel, Palestine and Jordan. Previously, Mr. McGinnis served as Project Manager for the Global Environment & Technology Foundation providing research, analysis, and management of domestic and international sustainability projects, including The Global Water Challenge, U.S. Agency for International Development's Powering Health Guidebook; Green Highways Partnership, and on-site coordination of the Fourth Biennial International Waters Conference held in Cape Town, South Africa. He received his BA in Business Administration and MBA from Southern Illinois University.

Kick-off Remarks



Dr. Dale Chapman is President of Lewis and Clark Community College, Executive Director of the Lewis and Clark Community College Foundation, Chairman of the National Great Rivers Research and Education Center (NGRREC), and Secretary/Treasurer of the Mannie Jackson Center for the Humanities Foundation Board. Under Dr. Chapman's 24-year leadership as the President of Lewis and Clark, the college has established two foundations with total assets in excess of \$20 million. The

College has been the recipient of more than \$150 million in competitive grants and contracts at the federal, state, NGO, and private sector level. The largest was a \$23.8 million grant from the Department of Labor for the Mississippi River Transportation Distribution Logistics Consortium composed of nine community colleges located along the Mississippi River from the headwaters to the Gulf of which Lewis and Clark is the lead institution. Dr. Chapman chaired the national steering committee for the federal Title I of the Higher Education Act and he is currently serving as chair of the Higher Education Committee for Congressman Rodney Davis. He received his Doctorate in Education from Harvard University with a concentration in Administration, Planning and Social Policy. He earned a Master's Degree from Michigan State University, his bachelor's degree from the University of Kentucky and his associate degree from Northern Community College in Kentucky.



U.S. Congressman Rodney Davis was recently sworn into his third term in Congress serving the 13th District of Illinois, a 14-county district covering both urban and rural areas of Central and Southwestern Illinois. For the 115th Congress, Rep. Davis serves on the House Agriculture Committee, the House Transportation and Infrastructure Committee, and the House Administration Committee. He has also been appointed to serve as the Chairman of the House Agriculture Subcommittee

on Biotechnology, Horticulture, and Research. He has established himself as an effective lawmaker who is able to work with his colleagues on both sides of the aisle to pass legislation. His work on the Farm Bill helped Congress produce a five-year bill that provides certainty to our farmers, strengthens crop insurance and cuts \$23 billion in spending. Additionally, he led the way to ensure farmers, who understand agriculture better than anyone, have a seat at the table when the EPA creates new rules and regulations impacting the agriculture industry. While working to reform the Water Resources and Development Act, Rep. Davis was successful in including language that allows the U.S. Army Corp of Engineers to partner with private businesses to complete projects needed to improve our waterways. This initiative and other streamlining provisions to cut the approval process for projects from 15 years to 3 years will save millions of taxpayer dollars and significantly improve our nation's ability to move goods and products to market.



Mannie Jackson is a passionate and dedicated leader of humanitarian efforts, currently serving as the President of the Mannie Jackson Center for the Humanities in his hometown of Edwardsville, Illinois, where cutting edge research and education in the humanities is being recognized by the National Endowment for the Humanities (NEH) and globally. Mr. Jackson is a successful and award winning owner of the Harlem Globetrotters, philanthropist, entrepreneur, author, documentary producer, businessman, professional basketball player, and recipient of the NCAA's 2015 highest student-athlete award after being enshrined in the Naismith Memorial Basketball Hall of Fame in 2002 as an owner and 2017 as a player and Contributor to the multibillion dollar industry. He retired from the executive committee of the 10-billion-dollar technology leader Honeywell Inc. as the International Senior Vice-President of Marketing, Administration and Logistics while serving on the Board of Directors of six Fortune 500 companies. Mr. Jackson is a graduate of the University of Illinois as a National Science Fellow with a Bachelor of Science degree with dual majors in Physical Education and Biological Sciences. His education pursuits continued at Detroit and an executive MBA at Wharton.

Panel One: Water Diplomacy and Cooperation in the Middle East – Big Data and the Road Ahead



Dr. Clive Lipchin currently serves as Director of the Arava Institute for Environmental Studies' Center for Transboundary Water Management, where he oversees research and development projects that focus on transboundary water and environmental issues facing Israel, Jordan, and the Palestinian Authority. He also consults for a number of international water agencies such as the World Bank, EU, UNDP, and USAID and has been involved most recently with the European Union's Water Initiative project for the Mediterranean region and the USAID Conflict Management and Mitigation (CMM) program. A

native of South Africa, he resided in Israel for over twenty years. He received a BSc degree in Zoology at the University of Witwatersrand, South Africa, a BSc Honors in Wildlife Management from the University of Pretoria, South Africa, a MSc in Desert Ecology from the Ben Gurion University of the Negev, Israel, and a PhD in Resource Ecology Management from the School of Natural Resources and Environment, University of Michigan.



Dr. Shaddad Attili is Former Palestinian Minister of Water and Head of the Palestinian Water Authority (PWA) from 2008 to 2014, during which he championed water law reform in the Palestinian Authority, enhanced efficient and effective PWA services for Palestinian residents, and strongly defended Palestinian water rights. Previously, Dr. Attili served eight years as principal policy adviser on water issues for the PLO's Negotiation Support Unit. Currently, he is lead Palestinian negotiator for water at the Negotiation Department of the PLO and an international activist and consultant in the fields of environment,

equitable water rights, and responsible water and wastewater facilities development. In honor of his many contributions and accomplishments, Dr. Attili was awarded France's highest decoration, the Legion d'Honneur, by French President Francois Hollande.



Yossi Yaacoby serves as Director of Mekorot's WaTech® Division, a unique program that supports new innovative water technology solutions relevant to the day-to-day functioning of Mekorot. He is in charge of applied research in the company, including activities with academia and research institutes in Israel and abroad, in addition to the EU. He is also responsible for promoting the field of intellectual property. He started his career as a Marketing Director and Project Manager at EMS Mekorot Projects, a subsidiary of Mekorot, and has acquired extensive experience in water and wastewater

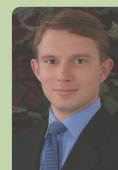
treatment, desalination, pumping equipment, pipe works, and water supply systems through engineering and sales. He has also headed projects for the supply of pumping equipment and water systems in the Palestinian Authority through international funding. He has vast experience in executing water supply projects of large magnitude in Israel and overseas. He holds a B.Sc. in Chemical Engineering and MBA from Ben-Gurion University of the Negev, Israel.



Amir Peleg is Founder and CEO of TaKaDu, a leader in Integrated Event Management solutions for the water industry, providing water utilities with a cloud-based solution for managing the life-cycle of all network issues, changing the way they provide operational benefits and strategic insights. The TaKaDu solution is deployed in leading water utilities worldwide (Australia, Europe, Israel, and South America). Mr. Peleg also serves as Chairman of the Smart Water Networks Forum (SWAN), a global industry organization convening stakeholders in the smart water space. A serial entrepreneur, he

founded YaData in 2005, serving as CEO until the company's acquisition by Microsoft in 2008. In 1999, he founded Cash-U (later named Unipier). He holds a B.Sc. in Mathematics, Physics, and Computer Science from the Hebrew University of Jerusalem and an MBA from INSEAD, Fontainebleau, France.

Panel Two: Sustaining Western U.S. Water – How Information and Collaboration Are Improving Water Management



Adam Schempp is a Senior Attorney and Director of the Western Water Program at the Environmental Law Institute. He leads the Institute's work on water rights, allocation, and use. Mr. Schempp also works extensively on water quality and marine management issues. Much of his research focuses on identifying opportunities to meet sustainability objectives through existing laws and potential legal developments. Among other reports and articles, Mr. Schempp authored *Western Water in the 21st Century: Policies and Programs that Stretch Supplies in a Prior Appropriation World*; *Five Things to*

Consider When Developing and Adapting Water Policies and Programs in the West; and *At the Confluence of the Clean Water Act and Prior Appropriation: The Challenge and Ways Forward*. Before joining ELI, Mr. Schempp clerked in the legal department of the Denver Water Board and for the Native American Rights Fund. He holds a B.A. in Ethics, Politics, and Economics from Yale University and a J.D. from the University of Virginia School of Law.



Shanti Rosset is Program Manager in Colorado River Resources at the Metropolitan Water District of Southern California. Before that, she served as an Assistant Attorney General representing the State of Colorado in Colorado River related matters, worked on water rights and property matters in private practice in Colorado, and also served as an Assistant Attorney General in the Arizona Attorney General's Office, where she represented various states agencies' water rights. She began her work in natural resource policy matters while serving as committee staff at the Arizona State Senate.



Dr. Katharine Dahm works for the Bureau of Reclamation's Policy Office in Denver, Colorado in the Water Resources and Planning Division. As a program coordinator, she works on a number of the Bureau of Reclamation's planning and grant programs under WaterSMART, including the Basin Study Program and the Title XVI Water Reclamation and Reuse Program. She holds a Bachelor's Degree in Civil and Environmental Engineering from the New Mexico Institute of Mining and Technology and a Master's and Ph.D. from the Colorado School of Mines. She is a licensed professional engineer in the State of Colorado.



Lee Storey is the Managing Member of The Storey Lawyers law firm in Phoenix, Arizona. Her distinguished legal practice focuses on water, natural resources, and Indian law. She primarily represents municipalities, water districts, developers and individual clients throughout the West on water use, resource management, and entitlements under federal, state, and county regulatory programs. Her preeminent practice includes complex water rights adjudication proceedings, several Indian water rights settlements, water importation and marketing ventures, development of assured and

adequate water supplies, water banking and recovery programs, and multi-jurisdictional municipal pipeline and wastewater projects. She is a former adjunct professor and member of the Advisory Board at the Arizona State University College of Law Indian Legal Program. She also served as former Chair of the Arizona State Bar Indian Law Section. She currently serves as a member of the Advisory Board for the Center for Comparative Studies in Race and Ethnicity at Stanford University. She is a graduate of the University of California, Los Angeles (B.A.; M.A., American Indian Studies), and the University of California, Berkeley, Boalt Hall School of Law.

Panel Three: Using Data, Law and GeoHumanities to Improve System and Community Resiliency in the Mississippi River Basin



Ann Mills is a Senior Fellow of the Food Institute at George Washington University. She previously served as the U.S. Department of Agriculture Deputy Under Secretary for Natural Resources and Environment from 2009 to January 20, 2017. In this position, she had responsibility for the Natural Resources Conservation Service (NRCS), a \$4.1 billion federal agency with a staff of 10,000 that works with the nation's farmers, ranchers and forest landowners to advance innovative conservation solutions to protecting water quality and quantity, soil health, and wildlife habitat.

She was co-chair of the federal National Drought Resilience Partnership, a collaboration of 13 federal agencies working with regional partners to ensure a more water secure nation by achieving measurable improvements in data integration, critical infrastructure protection, watershed-scale land management, market-based solutions, and innovations in water use. She holds a Master of Public Affairs from the University of Texas, and a BA in Political Science from Tufts University.

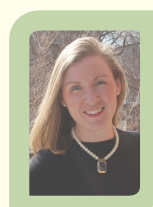


Steve Sonka is Emeritus Chaired Professor of Agricultural Strategy at the University of Illinois. Currently, he also serves as Senior Economist at the National Great Rivers Research and Education Center and Fellow at the Ed Snider Center for Enterprise and Markets at the University of Maryland. A co-founder of the Centrec Consulting Group, LLC, in Savoy, Illinois, he was a partner there for more than 25 years. Dr. Sonka's teaching and research emphasize strategic change and decision-making in the food and agribusiness sector. In 1983, he authored *Computers in Farming*, the first text devoted to computer use in the sector. His interest and involvement in the application of information technologies has continued through PC's, the Internet, precision agriculture, Big Data and now digital agriculture. He has authored or coauthored over 220 books, articles and publications.



John Ploschnitznig (JP) is Laboratory Director for Modeling and Applications Development in the Sensors and System Business Unit at Riverside Research in Centreville, VA. He has thirty years of experience in Measurement and Signature Intelligence (MASINT) and Geospatial Intelligence (GEOINT) related work. JP has extensive experience in sensor and collection-platform operations, in addition to a comprehensive appreciation for the value of the corresponding data exploitation. JP started his career as an officer in the United States Air Force at Thule AB, Greenland. He then moved to Wright

Patterson AFB to support the National Air and Space Intelligence Center as a Radar Signature Engineer, and the F-117A Development Systems Program Office as a Low Observable Engineer. As a contractor, he moved to Washington DC to support the Central MASINT Organization, the Pentagon MASINT Operations Coordination Center, the National Geospatial-Intelligence Agency, and other agencies. He earned his BS in Electrical Engineering from the University of Pittsburgh in 1986, and his MS in Electrical Engineering from the University of Dayton in 1991.



Alexandra Campbell-Ferrari is Executive Director of the Center for Water Security and Cooperation (CWSC) and Professorial Lecturer in Law at The George Washington University Law School. She has practiced with Sullivan & Worcester LLP's Environmental, Energy and Natural Resources and worked with the Office of the Connecticut Attorney General, U.S. EPA, Natural Resources Defense Council's Water Program, U.S. Department of Justice, Environment and Natural Resources Division's Environmental Crimes Section, and U.S. Department of Energy. During her time in practice, she focused

primarily on water, environmental and energy issues, and co-authored an amicus brief on water issues in a case before the U.S. Supreme Court. Ms. Campbell-Ferrari's current research concentrates on U.S. and European water law including interstate water compacts and river basin management. She is a Phi Beta Kappa graduate of Bucknell University and The George Washington University Law School, and is a member of the Massachusetts, New York and District of Columbia bars.



Dr. Michael Pasquier is Associate Professor of Religious Studies and History at Louisiana State University and Public Humanities Fellow of the Whiting Foundation (2017-18). His work on the history and culture of the Mississippi River Delta and Coastal Louisiana has been supported by the American Academy of Arts and Sciences, the National Endowment for the Arts, and the National Endowment for the Humanities. He is the editor of *Gods of the Mississippi*, a collection of essays on the history of religion in the Mississippi Valley, and co-producer of the film *Water Like Stone* (2013), a documentary that

profiles the lives of people affected by environmental change in a Louisiana fishing village. He co-curated the traveling exhibit *On Land | With Water: Tracking Change in a Coastal Community* (2014), which told the story of cultural transformation through the perspectives of those who live near Louisiana's deteriorating coastline. He is currently working on a book that explores the intersection of history, memory, and landscape in the Mississippi River Delta. Born in Louisiana, he is an alumnus of Louisiana State University, completing his graduate work at Florida State University before returning to Baton Rouge in 2008.

Plenary Session: Rallying Proof of Concept Initiatives and Key Next Steps



William Kruidenier is an academic professional at the University of Illinois at Urbana-Champaign and serves as Associate Director of the National Great Rivers Research and Education Center. Mr. Kruidenier represents the Center and its interests to private, state and federal organizations and agencies; provides facilitation, strategic planning, program evaluation and executive consulting services for small and large organizational, institutional and agencies; and has lead strategic planning efforts for various colleges and departments within the University of Illinois at Urbana-Champaign. For over thirty years, he has

served in various local, national and international leadership and executive positions. He has extensive experience in strategic planning, team building, program analysis and development, and staff and volunteer motivation often involving hundreds of staff and volunteer leaders.

Networking Reception Greeting



David Chung is a partner in Crowell & Moring's Environment & Natural Resources Group. His practice focuses on litigation and regulatory counseling involving natural resources development and environmental issues. Mr. Chung has experience with matters concerning various environmental and public lands statutes, including the Clean Water Act, Clean Air Act, National Environmental Policy Act (NEPA), Surface Mining Control and Reclamation Act, Federal Land Policy and Management Act, and National Forest Management Act.

A Brief Introduction to The Horinko Group



The Horinko Group (THG) is an environmental consulting firm based in Washington, DC operating at the intersection of policy, science, and communications. Founded in 2008, our firm has established itself as an innovator and a trusted, third-party convener. THG has a proven track record of addressing complex natural resource challenges, while meeting the needs of the broader community. We advocate for efficiency,

sustainability, and holistic solutions based on cutting-edge science and sound business practice. We work alongside federal, state, and local governments, NGOs, and the private sector to achieve measurable results for our clients, partners, and the communities and markets in which they operate.

A Brief Introduction to Mannie Jackson Center for the Humanities Foundation



The Mannie Jackson Center for the Humanities Foundation (MJCHF), a 501(c)(3), uses the humanities to gain insights into, and to communicate, environmental science research so that others will care about and seek to resolve environmental inequities for communities

of disenfranchised people throughout the world. The MJCH engages humanities faculty, working with environmental scientists, to communicate what we know about environmental science and how that impacts people's lives. The humanities can express the urgency to develop research-based policy solutions to current issues more powerfully than research briefs published in scientific journals that are read by other scientists, but not by government, private sector, or the non-governmental organization policy-makers.

A Brief Introduction to The Arava Institute for Environmental Studies



The Arava Institute for Environmental Studies is a leading environmental studies and research program in the Middle East. Arava houses academic programs in partnership with Ben Gurion University, research centers, and international cooperation initiatives focusing on a range of

environmental concerns and challenges. With a student body comprised of Jordanians, Palestinians, Israelis, and students from around the world, the Arava Institute offers students an exceptional opportunity to learn from leading professionals while forming friendships and developing skills that enable them to lead the region and the world in solving today's most pressing environmental challenges. At Arava, the idea that nature knows no political borders is more than a belief; it is a fact, a curriculum, and a way of life.

A Brief Introduction to The National Great Rivers Research and Education Center



National Great Rivers
Research and Education Center

Founded in 2002 as a collaborative partnership between the University of

Illinois at Urbana-Champaign, the Illinois Natural History Survey and Lewis and Clark Community College, the National Great Rivers Research and Education Center (NGRRECSM) is dedicated to the study of great river systems and the communities that use them. The center aspires to be a leader in scholarly research, education, and outreach related to the interconnectedness of large rivers, their floodplains, watersheds, and their associated communities.



Contact Us

The Horinko Group
1001 Pennsylvania Ave. NW, Suite 7115
Washington, DC 20004

Tel: 202.955.6202
Fax: 202.955.6207

info@thehorinkogroup.org
www.thehorinkogroup.org