



2014 CLEAN WATER SUMMIT

Green Infrastructure for Clean Water: Costs & Benefits to Our Communities

Thursday, September 11, 2014

PRESENTER BIOGRAPHICAL SKETCHES



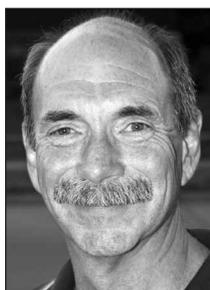
KIM BARTMANN

Kim attended the University of Minnesota for way too long, and then opened Café Wyrd on Lake & Irving in Uptown [in Minneapolis] in 1991 after having vowed to never work in a restaurant again. She still has yet had to don a cook's uniform, so it's sort of working out. She re-imagined the Bryant Lake Bowl in 1993 with the help of Danny Schmitz, who created the BLB Theater. Café Wyrd was transformed into a brasserie, Barbette, in 2001 and has won several awards for its food, wine, and ambiance. In November 2007, Kim opened Minnesota's first LEED-CI certified restaurant, the Red Stag Supperclub, in an old warehouse in Northeast Minneapolis. Since then, she has opened Pat's Tap, Bread & Pickle, and, most recently, Tiny Diner in the Powderhorn neighborhood of Minneapolis. Kim's businesses are all committed to serving sustainably farmed and sourced foods as much as possible and exploring the vision of a world where restaurants are people- and planet-positive and not just for profit.



JOHN BILOTTA

John Bilotta is an Extension Educator with the University of Minnesota Extension and Minnesota Sea Grant Programs and leads the Northland NEMO Program (Nonpoint Education for Municipal Officials). John's efforts focus on providing effective education programs for local elected and appointed community leaders to enhance their knowledge about water management and land use and on providing train-the-trainer programs for colleagues in water resource education. John also assists with training and education programs for stormwater professionals through the Stormwater Education Program and with various watershed-wide education programs. John's background includes sixteen-plus years in Extension education at the University of Minnesota and six-plus years in other public and private capacities in soil and water resource management. John has a B.A. in environmental studies and natural resources, with an emphasis in soil resources and an M.S. in soil science, with a focus on fertility and nutrient management.



TOM BROWNLOW

Tom has more than twenty-seven years of service in local government, the last seven as City Administrator in Charles City, Iowa; he retired in 2014.

In 2013 Tom was awarded the Iowa Stormwater Award for Excellence from the Iowa Municipal Utilities/Iowa Stormwater Education Program and in 2012 was named City Manager of the Year by the Iowa City/County Management Association. During Tom's tenure, Charles City was awarded a 2013 National Award for Smart Growth Achievement from the United States Environmental Protection Agency, a 2012 All-Star Community Award from the Iowa League of Cities; was named the River Town of the Year by Iowa Rivers Revival in 2011; and in 2010 received the Governor's Iowa Environmental Excellence Award in Water Quality.

Tom has a B.A. in liberal arts from Southern Illinois University, a M.S. in industrial administrative sciences from Iowa State University, and a Ph.D. in marketing from Southern Illinois University. He enjoys running, biking and spending time with his wife, Sandy.



BRIAN DAVIS

Brian Davis is a Senior Environmental Scientist with the Metropolitan Council Water Supply Planning unit, where he conducts hydrogeologic and water resource studies, water supply planning, and community outreach. Prior to joining the Metropolitan Council, Brian worked as an engineering consultant, designing treatment wetlands for industrial and domestic wastewater as well as conducting groundwater supply and contaminant transport modeling. He began his career as an environmental hydrogeologist with the Chevron Energy Technology Company. Brian has a B.S. in geography from the University of Wisconsin-Whitewater, an M.S. in environmental science and policy from the University of Wisconsin-Green Bay, and a Ph.D. in civil (environmental) engineering from Oregon State University. He is a registered professional geologist (Minnesota) and a registered professional engineer (Minnesota).



ANNA ELERIA

Anna Eleria is a Water Resource Project Manager at Capitol Region Watershed District (CRWD). She holds an M.S. in water resources engineering from Tufts University and a B.S. in natural resources and environmental studies from the University of Minnesota. She works on numerous stormwater-related projects and initiatives including the green infrastructure practices for the Central Corridor Light Rail Transit Project. She also manages CRWD’s storm sewer infrastructure, coordinates development and implementation of lake management plans, and administers the BMP cost-share grant program. Prior to working at CRWD, Ms. Eleria spent nearly twelve years at the Charles River Watershed Association in Boston, Massachusetts.



BOB ENGSTROM

Bob develops environmentally friendly communities including Cloverdale Farms and Minnesota’s first conservation community, the nationally acclaimed Fields of St. Croix in Lake Elmo. In 1976 he was a pioneer developer and builder of Summit Place, a three-block urban restoration and new construction neighborhood in St. Paul’s Cathedral Hill Historic District. In 1988, he received the first annual Robert O’Donnell Award for extraordinary contributions to the enhancement of land and quality of life. In 2004, Bob was named Champion of Open Space by the Embrace Open Space organization, the only developer to receive this recognition. A longtime member of the Urban Land Institute, he is a Life Trustee.



CHARLES FISHMAN

As a reporter, Charles Fishman has tried to get inside organizations, both familiar and secret, and explain how they work.

In the course of reporting about water to write *The Big Thirst*, Fishman has stood at the bottom of a half-million-gallon sewage tank, sampled water directly from the springs in San Pellegrino, Italy, and Poland Spring, Maine, and carried water on his head for 3 kilometers with a group of Indian villagers.

Fishman’s previous book, the New York Times bestseller, *The Wal-Mart Effect*, was the first to crack open Wal-Mart’s wall of secrecy, and has become the standard for understanding Wal-Mart’s impact on our economy and on how we live. The Economist named it a “book of the year.”

Fishman is a former metro and national reporter for the Washington Post, and was a reporter and editor

at the Orlando Sentinel and the News & Observer in Raleigh, NC. Since 1996, he has worked for the innovative business magazine Fast Company. Fishman has won numerous awards, including three times receiving UCLA's Gerald Loeb Award, the most prestigious award in business journalism.

Fishman grew up in Miami, Florida, and went to Harvard. He lives outside Philadelphia with his wife, also a journalist, their two children, their two Labradors, and their two parakeets. He likes his water from the refrigerator spigot, with ice, or splashing across the bow of a Sunfish.



ANNE GELBMANN

Anne Gelbmann is the Green Infrastructure Coordinator at the Minnesota Pollution Control Agency (MPCA). She is responsible for coordinating information and agency activities related to green infrastructure. She has been working in the stormwater program at the MPCA for more than six years and was instrumental in the development of the Minimal Impact Design Standards (MIDS).



JOHN HINK

John Hink is the President and Co-founder of Solution Blue. He is an innovative and passionate environmental engineer with more than twenty years of experience in sustainable site design, Brownfield re-development, water resources, project management and integrated construction administration. Mr. Hink has successfully managed several athletic complex, commercial center, church campus, housing and public facility projects from conception through design, concluding with construction. Some of his more notable projects include St. Paul's Upper Landing, University of Minnesota's TCF Bank Stadium, Target Field, FIFA World Cup Nelson Mandela Stadium and, currently, stormwater management at the Lowertown Ballpark. John and his firm led the design and construction management of the recently completed Grand Entry and new gatehouse here at the Landscape Arboretum. John is widely known as a leader and speaker in "Restorative Development – Pioneering Beyond Sustainability."



ANNE HUNT

Since January 2006, Anne Hunt has served in a new position, created by St. Paul Mayor Chris Coleman, as the City's first Sustainability Director. Anne has more than 25 years of experience in non-profit management and community organizing. Her work for the City of Saint Paul has focused on policies and programs that: encourage energy-efficiency and conservation; development of clean and renewable energy technologies; and alternative transportation options to reduce carbon dioxide emissions; promote resource conservation through recycling and waste reduction; improve water quality; and strengthen habitat for wildlife in a built environment. Anne recently received ICLEI's* 2010 Sustainability Leadership Award for Local Government Staff.



KOBY JESCHKEIT-HAGEN

As the Urban Farm Manager and Community Outreach Coordinator of the Tiny Diner restaurant and Honey House Farm, Koby aims to add another strong layer of re-skilling workshops and local food production to the multitude of whole-system planning efforts happening across the Twin Cities.

Born and raised in south Minneapolis, Koby has a broad range of community-building and farming experience, as well as plenty of practice as a teacher and researcher on organic farms in New Mexico, Colorado, Iowa, Wisconsin, and California, including Seeds of Change, Seed Savers, and JD Rivers' Children's Garden. Along with applied experience, she holds a B.A. in anthropology and Spanish from Macalester College, an M.A. in community and regional planning:

* *International Council for Local Environmental Initiatives (initially and until the year 2003)*

natural resources and the environment from the University of New Mexico, a permaculture design certificate from the Permaculture Drylands Institute, and a permaculture teaching certificate from the Permaculture Research Institute Cold Climate.

When you can't find her at the Tiny Diner or the Honey House Farm, she is probably hiking/biking/running/dancing, playing dulcimer, coaching, camping, exploring Minnesota, and saving seeds.



PEGGY KNAPP

Dr. Peggy Knapp is the Director of Programs at the Freshwater Society, where she oversees civic engagement initiatives including the Master Water Stewards program. The Master Water Stewards program is a community leadership development program that educates and certifies community members to work at the local level to reduce urban runoff and non-point pollution. Prior to her work with Freshwater, Dr. Knapp was an assistant professor at Hamline University's School of Education and the Center for Global Environmental Education, where her teaching and scholarship focused on effective strategies for science and environmental education, project-based learning, and a systems-based approach to environmental literacy. In her earlier work, Knapp was a reporter, producer and writer with CNN's award-winning Earth Matters, and field reporter on PBS' nationally acclaimed science education program, Newton's Apple. Knapp holds a doctorate in education from Hamline University.



MATT METZGER

Matt Metzger has been a Civil Engineer with Barr Engineering for nine years. Matt's background is in water resources, infrastructure and sustainability engineering with emphasis in green infrastructure and flood risk reduction projects. Matt is currently enrolled in the graduate program in sustainable systems engineering at University of Wisconsin-Madison. He is a registered professional engineer in Minnesota and North Dakota and is credentialed in the use of the ISI Envision™ sustainable infrastructure rating system.



STEVE POLASKY

Steve Polasky is Fesler-Lampert Professor of Ecological/Environmental Economics and Regents Professor at the University of Minnesota. He received a Ph.D. in economics from the University of Michigan in 1986 and a B.A. from Williams College in 1979. He served as senior staff economist for environment and resources for the President's Council of Economic Advisers 1998-1999. His research interests focus on issues at the intersection of ecology and economics and include the impacts of land use and land management on the provision and value of ecosystem services and natural capital, biodiversity conservation, sustainability, environmental regulation, renewable energy, and common property resources. He has been elected into the National Academy of Sciences, the American Academy of Arts and Sciences, and is a Fellow of the American Association for the Advancement of Science and the Association of Environmental and Resource Economists.



WES SAUNDERS-PEARCE

Wes Saunders-Pearce is the Water Resource Coordinator for the City of Saint Paul. He joined Saint Paul in 2011 after practicing water resource management for over a decade, mainly as a consultant. Wes works across departments to provide leadership for green infrastructure, water resource protection, and climate resiliency strategies. Successfully overseeing the city's first green alley project, he engages city staff and agency stakeholders to problem-solve policy and administrative barriers to green infrastructure

and sustainability. Wes's efforts to innovate resulted in the city's – and Minnesota's – first municipal project to harvest rainwater for indoor use. Wes received the 2014 Sustainable City Staff Award for his collaboration and leadership in environmental stewardship.

Wes holds a master's degree in water resource science from the University of Minnesota and an undergraduate degree in environmental studies from Macalester College in St. Paul.



JUDITH VAN CLEVE

Judith Van Cleve is the Building/Facilities Improvements Manager and Environmental Representative for 7-SIGMA, Inc. 7-SIGMA is a successful designer and manufacturer of innovative polymer solutions and precision metal components for the printer and copier industry. Additionally 7-SIGMA designs and manufactures high-performance precision components for industrial markets.

Judith has been employed by 7-SIGMA since 1999. She holds a Minnesota real estate broker's license for Kristol Properties, the holding company for 7-SIGMA. Previously she was employed by Mississippi State University as a research assistant for the School of Architecture and its Center for Small Town Research and Design. Judith has a Master of Science degree in architecture from Mississippi State University, a Bachelor of Architecture degree from the University of Minnesota, and a Bachelor of Fine Arts degree from the California Institute of Arts.



TOM WHALEY

The St. Louis, Missouri, native is a recovering attorney who began a career in baseball accidentally in 1992, when he sold a team sponsorship package to a client on the courthouse steps.

Having just completed their 22nd season, the Saints are an independent, professional minor league baseball club that will play its games at the new Lowertown Regional Ballpark in St. Paul, beginning next May. From 1993 through 1998, Whaley served as the Saints' Director of Operations and Assistant General Manager. In addition to sales, marketing and operations duties with the Saints, he handled legal matters for the Saints and other minor league clubs in the areas of contract, intellectual property, immigration and litigation. During 1999 and 2000, he was Corporate Sales Director for Major League Baseball's Tampa Bay Devil Rays.

Whaley joined The Goldklang Group, a sports management consulting firm affiliated with the Saints, in 2001 and was principally responsible for the Group's development of a minor league baseball stadium and conference center facility in the Boston area. He returned to St. Paul in 2002 in his current capacity, acquired an ownership interest in the team, and has been extensively involved with the Saints' effort to secure funding and develop the Regional Ballpark in Lowertown, St. Paul.

Whaley is a board member of the St. Paul Area Chamber of Commerce and the St. Paul Festival and Heritage Foundation and is a past chair of the Midway Chamber of Commerce. He is a graduate of St. Louis University School of Law.

Tom lives in Lino Lakes with his wife, Kathleen, and their three children, Ruth, Tom and Jack.



CRAIG WILSON

Craig Wilson is a Principal and Managing Partner at Sustology, a Minneapolis-based business that focuses on creating sustainable solutions for people and businesses with attention to the financial impact of clients' sustainable investments. He is adjunct faculty at the University of Minnesota College of Design, past president of the American Society of Landscape Architecture Minnesota Chapter; a member of the American Planners Association; and is a LEED accredited professional. He is also affirmed by the Minnesota State Supreme Court as a certified neutral alternative dispute resolu-

tion mediator under Rule 114 of the Minnesota General Rules of Practice for the District Courts, specializing in environmental and land use issues. Mr. Wilson brings sixteen years of experience in sustainable development and consulting.



LESLIE YETKA

Leslie Yetka is the Horticulture Education Manager and Extension Educator with the Minnesota Landscape Arboretum, where she focuses on developing education programs in horticulture, green infrastructure and sustainable landscape practices for multiple audiences. Leslie has more than twenty years of experience working in the upland habitat and water resource management field and with diverse audiences, including private landowners, businesses, non-profit groups, professional staff, municipalities, and community groups engaged in sustainable landscape practices and protecting clean water. Leslie has a bachelor's degree in biology from Macalester College and a master's degree in horticulture and water resources science from the University of Minnesota.

PRESENTATION SUMMARIES

How We Think About Water, and Why We Need to Change

This presentation will explore our often strange and complex relationship to water. We delight in watching waves roll in from the ocean; we take great comfort from sliding into a hot bath; and we will pay a thousand times the price of tap water to drink our preferred brand of the bottled version. We love water – but at the moment, we don't appreciate it or respect it. Just as we've begun to reimagine our relationship to food, a change that is driving the growth of the organic and local food movements, we must also rethink how we approach and use water, including stormwater. The good news is that we can. As Charles writes, "Many civilizations have been crippled or destroyed by an inability to understand water or manage it. We have a huge advantage over the generations of people who have come before us, because we can understand water and we can use it smartly."

InVEST and The Natural Capital Project: Emerging Economics of Natural Capital and Ecosystem Services

Nature provides a wide range of valuable goods and services (ecosystem services), but current economic systems typically do not account for these values nor provide adequate incentives for conserving the natural capital necessary for the continued provision of ecosystem services. Correcting this situation requires a base of natural and social science knowledge to understand the links between: a) human actions and impacts on ecosystem functions, b) ecosystem functions and the provision of ecosystem services, and c) provision of ecosystem services and human well-being. Correcting this situation also requires incorporating this knowledge into economic incentives affecting the everyday decisions of individuals, businesses and government agencies. This talk will provide a brief overview of efforts to value ecosystem services and how this information can be linked to incentives for protecting or restoring natural capital and applications of these efforts to ecosystem services to value ecosystem services in Minnesota and in urban areas.

Community Change Using Green Infrastructure

Charles City went through a transformative change in their community. Driven initially by stormwater flooding, this community incorporated the use of low-impact development and green infrastructure practices that worked to resolve those concerns and also resulted in a change in the way the community looked, felt and the way people and business viewed public infrastructure projects and water. This presentation will focus on the aspects of this city project, the drivers, and the changes in the attitudes and perceptions of local leaders, citizens, and private businesses in the community. A pervious pavement project turned out to be much more than that, providing multiple social, economic, and environmental benefits.

Weighing the Triple Bottom Line: Tools to Demonstrate the Value of Green Infrastructure to Your Community

This workshop will explore how new sustainability engineering tools can assist in building a project's triple-bottom-line benefit/cost profile. How can a defensible story about the bigger picture community benefits of green infrastructure be useful to you? A high-level review of available tools, frameworks and project examples will explore this growing engineering focus.

CASE STUDY SUMMARIES

From Fields to Wildflowers – A Developer's Perspective on Green Infrastructure in Residential Development

Ten years ago, Bob developed the Fields of St. Croix in Lake Elmo, one of Minnesota's first and finest examples of conservation design. It is also one of the more comprehensive conservation projects in the country, thanks to the diversity of important elements: ecological restoration in the open space; historic preservation; organic agriculture; innovative stormwater and wastewater management; and architectural integrity. A decade later, Bob is undertaking a new development called Wildflower at Lake Elmo – a 115-acre development that is urban in nature with over 60 acres set aside for pollinators. Bob will draw on the lessons he has learned over the years on the multiple benefits of implementing green infrastructure practices in a private community development project.

Small Sites, Big Results – Lessons Learned in Green Infrastructure for Small Businesses

This presentation will discuss the incorporation of green infrastructure, low-impact development practices, and other stormwater and sustainability practices into small business sites. Topics discussed will include the motivations, barriers, the calculation and communication of the costs and benefits, and lessons learned used to overcome the challenges, or perhaps be applied to future projects on small business sites. This presentation will also feature a panel question-and-answer session featuring two-three small business owners or managers who have incorporated these practices in recent years. They will share their motivations, their frustrations, costs and benefits, and lessons learned as private property business owners. Business that will participate in the panel include 7-Sigma, Tiny Diner, and the Firm, all located in Minneapolis.

Aiming Out of the Ballpark for Sustainable Stormwater Management

This case study will highlight an innovative approach to implementing a rainwater harvesting program at St. Paul's new Lowertown Regional Ballpark, currently under construction. The Ballpark will have a capacity of 7,000 spectators and will host approximately 400,000 visitors annually. The Ballpark presents the City of Saint Paul, the St. Paul Saints, and their partners with unprecedented opportunities to demonstrate sustainable water management techniques that will reduce environmental impacts and reduce potable water consumption.

An array of stormwater management approaches is bringing visible treatment opportunities to the site. Through a multi-agency partnership between St. Paul, Capitol Region Watershed District, and the Metropolitan Council, a unique arrangement is being leveraged to meet multiple water sustainability goals. In addition to meeting site stormwater requirements, rainwater will be harvested from an off-site property to reduce potable demand at the Ballpark. The harvested rainwater will be shared between adjacent properties to irrigate turf grass and flush toilets within the Ballpark.

The presentation will address the benefits and constraints of a design-build approach in the project process as well as the drivers for the partners, the multiple benefits of the project, how the team assessed options, lowered barriers, and made decisions.

