

LET'S
KEEP
IT
CLEAN



Exploring A Collaborative Approach
to Groundwater Protection

2011 Groundwater Foundation National Conference
and Groundwater Guardian and Green Site
Designation Celebration

October 4-5-6, 2011 ~ Omaha, Nebraska



CONFERENCE AGENDA

Tuesday, October 4

12:00 p.m. Conference registration desk opens (Grand Foyer)
Tickets for Wednesday evening's raffle drawing are available for purchase at the registration desk throughout the conference.

12:45 p.m. **FIELD TOUR**
Load bus for field tour (Main hotel entrance)

WELLHEAD PROTECTION NETWORK SESSION
Conference participants attending the Wellhead Protection Network session should remain at the Omaha Marriott.

1:00 p.m. Nitrates and Other Potential Contaminants:
Issues and Solutions
Groundwater Foundation Welcome

Concerns and Issues Round Robin
Conference participants share and discuss what groundwater issues they face in their own communities.

Contamination Risks: Nitrates and Other Threats
Dick Ehrman, Lower Platte South Natural Resources District, Lincoln, NE


2:30 p.m. Arrive Seward, NE Water Treatment Plant
Host: David Lathrop, City of Seward Water Department, Seward, NE
Learn about the community's nitrate issues and solutions, including a tour of the reverse osmosis treatment plant, use of weather stations, soil probes, and evapotranspiration gauges, and how they've addressed the location of an oil pipeline.

Wellhead Protection Network: Connections and Collaborations (Salons BC)
Facilitator: Jamie Oltman, The Groundwater Foundation, Lincoln, NE

Successes and Challenges from Michigan
Guest Presenter: Christine Spitzley, TriCounty Regional Planning Commission, Lansing, MI

4:00 p.m. Load bus to return to Omaha
Phytoremediation in Murdock, Nebraska
Lorraine Lafreniere, Argonne National Laboratory, Argonne, IL; Robert Sedivy, Argonne National Laboratory, Lincoln, NE

Using Groundwater Models to Perform a Nitrate Alternatives Analysis for the City of Edgar, Nebraska
Karen Griffin O'Connor, Olsson Associates, Lincoln, NE



CONFERENCE AGENDA

5:30 p.m. Tour participants arrive at conference hotel Wellhead Protection Network session adjourns

6:30 p.m. Networking Dinner, Sponsored by Rain Bird Corporation (Salon D)
Speaker: Dave Johnson, Rain Bird Corporation
Presentation of Intelligent Use of Water Award to Grand Island Groundwater Guardians

Wednesday, October 5

7:00 a.m. Continental breakfast (Grand Foyer)

7:15 a.m. Conference registration desk opens (Grand Foyer)
Exhibits open (Grand Foyer and Salon E)

7:45 a.m. **GENERAL SESSION** (Salons AB)

Let's Keep It Clean – The Collaborative Approach
Jane Griffin, President, The Groundwater Foundation, Lincoln, NE

Panel Discussion – Components of Collaborative Groundwater Protection
Moderator: Mike Jess

Panelists: Eugene Glock, Farmer/Ag Producer, Rising City, NE
Rachael Herpel, City of Lincoln, NE Groundwater Guardian Team
Megan Kolaczyk, Elkhart Environmental Center, Elkhart, IN
Dick Ehrman, Lower Platte South Natural Resources District, Lincoln, NE

8:40 a.m. Networking break, exhibits open (Grand Foyer and Salon E)

BREAKOUT SESSIONS

Urban/Rural Partnerships (Salons AB)

Moderator: Jay Beaumont

Community Engagement (Salons CD)

Moderator: Don Kraus

9:00 a.m. Sustaining Groundwater Systems through
Ecosystem Functions in the Built Environment
Ted Hartsig, Olsson Associates, Omaha, NE

Connecting Community through Groundwater
Guardian and Green Sites
*Theresa McGeady, Miami Conservancy District,
Dayton, OH; Jennifer Wemhoff, The Groundwater
Foundation, Lincoln, NE*

9:30 a.m. Refinement of an Existing Regional Groundwater
Model to Implement a Wellhead Protection Plan for
Nitrates: A Hastings, Nebraska Case Study
Luca DeAngelis, HDR Engineering, Kansas City, MO

Water Replenishment District Engaging and
Educating Latinos on Water Conservation
*Elsa Lopez, Water Replenishment District,
Lakewood, CA*

CONFERENCE AGENDA

10:00 a.m. Unique Aquifer Storage and Recovery will Restore Depleted Aquifer
Denice Bruce, Professional Engineering Consultants, Wichita, KS

Kendall County Health Department Private Well Education & Mapping Project
Todd Drefcinski, Kendall County Health Department, Yorkville, IL

10:25 a.m. Networking break, exhibits open (Grand Foyer and Salon E)

BREAKOUT SESSIONS

Urban/Rural Partnerships (Salons AB)

Moderator: Rick Karlin

Community Engagement (Salons CD)

Moderator: James Burks

10:45 a.m. Using Zoning Regulations to Promote Low Impact Development and Water Quality
Steve Miller, Olsson Associates, Lincoln, NE

Sustaining Water Conservation for the Long-Term
Rachael Herpel, University of Nebraska-Lincoln, Lincoln, NE

11:15 a.m. Wellhead/Groundwater Protection Audit Tool
Christine Spitzley, Tri-County Regional Planning Commission, East Lansing, MI

Inspiring Action through Community-wide Awareness Program: The Results
Brian Reetz, The Groundwater Foundation, Lincoln, NE and Lois Shelton, former Mayor, Wayne, NE

11:45 a.m. Business Leadership in Sustainability
Tom Henning, Assurity Life Insurance Company, Lincoln, NE

Linking Systems: Insights for Sustainability from an Integrated Coupled Hydrological, Social and Ecological Model of Groundwater and Surface Water
Stephen Gasteyer, Michigan State University, Lansing, MI

12:15 p.m. Networking Lunch, Sponsored by Central Nebraska Public Power and Irrigation District and T-L Irrigation (Regency A)

Presentation of the Kremer Award to Lee Orton

Speaker: Cliff Treysen, National Ground Water Association, Westerville, OH

BREAKOUT SESSIONS

Land-Use Planning (Salons AB)


Moderator: Cathy Lotzer

Contamination Challenges/Solutions (Salons CD)

Moderator: Chandler Mazour

1:30 p.m. Taking the E out of ET
Robert Klein, University of Nebraska-Lincoln, Lincoln, NE

Identification of Potential Nitrate Sources to a Shallow Aquifer in Southeastern Nebraska
Dana Divine, Lower Platte South Natural Resources District, Lincoln, NE




CONFERENCE AGENDA

- 2:00 p.m. Groundwater Protection in an Urban Landscape Hydraulic Fracturing: Facts and Questions
Chris Barnett, Marion County Wellfield Education Corp. and John Mundell, Mundell Associates, Indianapolis, IN *John Albert, Water Research Foundation, Denver, CO*
- 2:30 p.m. Environmental Impacts of Increased Ag Production Nebraska Grout Task Force: Unexpected Results –
Marc Andreini, Water for Food Institute, University of Nebraska, Lincoln, NE New Solutions
Tom Christopherson, NE Department of Health and Human Services, Lincoln, NE
- 3:00 p.m. Networking break, exhibits open (Grand Foyer and Salon E)
- 4:00 p.m. Groundwater Guardian and Green Site Designation Ceremony (Salons ABCD)
All conference participants are invited to attend!
- 5:30 p.m. Celebratory Reception, sponsored by Gothenburg Water Utilization Research
Center and Rembolt Ludtke (Regency Ballroom)
- 6:30 p.m. Celebratory and Networking Dinner (Regency Ballroom)
Raffle drawings (participants must be present to win)
Speaker: Dean Jacobs, Author/Photographer, Fremont, NE

Thursday, October 6

- 6:45 a.m. Continental Breakfast (Regency A)
- 7:30 a.m. Load bus for tour (Main hotel entrance)
- 7:45 a.m. **FIELD TOUR**
Low Impact Development
Tour of low impact development areas at the Douglas County Health Center Campus, Omaha, NE
Kent Holm, Douglas County Environmental Services, Omaha, NE
- 9:00 a.m. Travel to Valmont Irrigation
Smart Utilization of Irrigation to Feed the World
James Burks, Senninger Irrigation, Clermont, FL and Tom Spears, Omaha, NE
- 9:45 a.m. Arrive at Valmont Irrigation
Tour Valmont's facility and learn about trends that will shape the future of agriculture and how they will affect the demand for irrigation water.



CONFERENCE AGENDA

- 11:00 a.m. Lunch at Valmont
- 12:00 p.m. Wrap up/Summary of the 2011 Groundwater Foundation National Conference
Ann Bleed, Ann Bleed and Associates, Lincoln, NE
- 12:30 p.m. Load bus to return to Omaha
Closing remarks by Groundwater Foundation Staff
- 1:00 p.m. Arrive at hotel, conference adjourns

POSTER PRESENTATIONS

- Can You Afford Nitrates in Your Drinking Water?
Ryan Chapman, Nebraska Department of Environmental Quality, Lincoln, NE
- Coordinating Resources for Assessing Impacts to Groundwater Quality
Craig Romary, Nebraska Department of Agriculture, Lincoln, NE
- Using a Simulation-Optimization Model to Evaluate Effects of Groundwater Withdrawals for Irrigation on Stream Base Flow in the Elkhorn River, Nebraska
Steve Peterson, US Geological Survey, Lincoln, NE
- The WATER Machine
Wayne Woldt, University of Nebraska, Lincoln, NE

EXHIBITORS

- Douglas County Health Department, Omaha, NE
- The Groundwater Foundation, Lincoln, NE
- Lower Platte South Natural Resources District, Lincoln, NE
- Nebraska Association of Resources Districts, Lincoln, NE
- Nebraska Section AWWA, Lincoln, NE
- Olsson Associates, Lincoln, NE
- Sector Now, Lincoln, NE
- Senninger Irrigation, Inc., Clermont, FL
- University of Nebraska Public Policy Center Water Regulator Survey, Lincoln, NE
- US EPA Region 7, Kansas City, KS
- Water Research Foundation, Denver, CO



SPEAKER BIOGRAPHIES

John Albert is a Sr. Account Manager at the Water Research Foundation and is the liaison between utilities and the research the Foundation. Previously, he was a project manager at the Foundation for five years with focus areas in microorganisms, biological filtration, and biofilms. He received a BA in Biology from St. Anselm College and a MS in Environmental Science and Engineering from the Colorado School of Mines.

Dr. Marc Andreini is a hydrologist and Registered Civil Engineer with over 30 years of domestic and international experience. He has done research on shallow groundwater irrigation, small reservoirs, solute movement, and basin scale decision support systems for integrated water resource management. He is presently an International Research Fellow at the University of Nebraska's Water for Food, Robert B. Daugherty Institute.

Chris Barnett is economic development coordinator for Near North Development Corporation, a community development organization operating in a groundwater protection district of Indianapolis. His professional responsibilities include commercial redevelopment and tenanting, brownfield redevelopment, and planning/zoning advocacy. Since 1997, Chris has been a board member and officer of Marion County Wellfield Education Corporation, a city-chartered 501c3 which is Indianapolis' Groundwater Guardian team.

Ann Bleed spent much of her career with the Nebraska Department of Natural Resources, where she helped negotiate settlements of interstate lawsuits on the North Platte and Republican Rivers. Ann currently provides facilitation and consulting services on water allocation issues and teaches a water law course at the University of Nebraska Law School. She has masters degrees from Penn State and the University of Nebraska, a PhD from the University of Wisconsin, Madison, and is a registered Professional Engineer in Nebraska.

Denice Bruce works for Professional Engineering Consultants in Wichita, Kansas, where she is the communication specialist for the City of Wichita's Aquifer Storage and Recovery program. As spokesperson for the \$220 million municipal project, she is in charge of all stakeholder communication, media relations, publications, government interface, and rate payer education. Prior to joining PEC, Bruce worked for consulting firms and served on the communication faculty for Wichita State University.

James Burks has enjoyed over 28 years of working in the field of agricultural irrigation and having the opportunity to serve this industry while living in Nebraska, Kansas, California, Idaho, and Florida. James currently serves as President of Senninger Irrigation Inc. in Clermont, Florida. He is a proud graduate of the University of Nebraska College of Agriculture and is a member of The Groundwater Foundation's Board of Directors.

Tom Christopherson has been the program manager for the Water Well Standards and Contractors' Licensing Program for the Nebraska Department of Health and Human Services since 2004. Since 1999 he has served as public information contact and co-coordinator for the Nebraska Grout Task Force project. He holds a Nebraska Water Well Drilling and Pump Installation Contractors' license and is the 2011 William A. McElhiney Distinguished Lecturer in Water Well Technology for the National Ground Water Association.

Luca DeAngelis is a registered professional engineer and professional geologist with HDR Engineering. He has 15 years experience in the environmental and water supply industries and has helped numerous communities in the Midwest locate, develop, and protect water supplies and his experience includes designing over 100 water supply wells in most major Midwestern aquifers.

Dana Divine has a BS in Geology from the University of Nebraska-Lincoln and a MS in Geology from Washington State University. After finishing her master's degree, she became a licensed hydrogeologist and worked as a consultant for five years in the Seattle area. In 2007, Dana returned to Nebraska and is the Project Coordinator for the Eastern Nebraska Water Resources Assessment.

Todd Drefcinski is a Sanitarian with the Kendall County Health Department in Yorkville, Illinois, and a Licensed Environmental Health Practitioner. He is responsible for inspecting food facilities, conducting well and septic permit reviews and installation inspections, managing the county's non-community water supply program, and integrating GIS into the department's Environmental Health programs. He is a member of the Northeastern Illinois Regional Groundwater Protection Planning Committee.

Dick Ehrman is a Water Resources Specialist for the Lower Platte South Natural Resources District in Lincoln, Nebraska, where his duties include managing the ground and surface water monitoring programs for the District and assisting in implementation of



SPEAKER BIOGRAPHIES

the District's Ground Water Management Plan. He is a licensed Professional Geologist in Nebraska, and is also an adjunct instructor of geology and astronomy at Doane College.

Dr. Stephen Gasteyer is an Assistant Professor of Sociology at Michigan State University. Dr. Gasteyer's research focuses on rural community leadership, decision-making and management capacity around key natural resources and development sectors, specifically the dynamic social networks and systems involved in water and wastewater infrastructure systems and the processes and systems around economic and agricultural development. Note: This paper will be co-presented with Nicholas Brozovic, Associate Professor, Department of Agriculture and Consumer Economics, University of Illinois and Ximing Cai, Associate Professor, Department of Civil and Environmental Engineering, University of Illinois.

Eugene Glock was born and raised in Butler County, Nebraska where he farms 720 acres with his son. He has served a wide variety of organizations over the years, including the Butler County Soil and Water Conservation District Board (until the formation of Natural Resources Districts), Ag Builders of Nebraska Board, University of Nebraska's Chancellor's Advisory Council and President's Advisory Council, State Agriculture Representative for Senator Bob Kerrey, and Nebraska's Water Policy Task Force.

Jane Griffin serves as president of The Groundwater Foundation; she has been with the Foundation since 2008. Jane's education and professional career have been both in the United States and Italy. She received a BA from Smith College in Northampton, Massachusetts and a diploma from the Università Internazionale dell'Arte in Florence, Italy. Jane has always believed in the power of education and strives to fulfill the mission of The Groundwater Foundation through effective and creative educational programs.

Ted Hartsig is a soil scientist and senior project manager with more than 27 years of experience in natural resources management and restoration, including restoration of streams and riparian resources, stormwater management, land planning, and restoration of disturbed and contaminated land. In addition to his project-related experience, Ted has been prominent in addressing soil science issues of national scope, including chairing the committee that established soil science practice standards. He is a founding member of the National Council of Soil Science Examiners.

Tom Henning is Chairman, President, and CEO of Assurity Life Insurance Company. Tom has served as President of Assurity Life or successor companies for over 22 years. He is active in many industry groups including the American Council of Life Insurers. Tom serves many civic organizations including the University of Nebraska Foundation and Innovation Campus, the Lincoln Chamber of Commerce, Lincoln Chamber Economic Development Corporation. Tom and his wife Candy also operate Henning Farms.

Rachael Herpel is an education and outreach specialist housed in the University of Nebraska-Lincoln Water Center. She serves as a liaison between the University's water faculty and the Nebraska Legislature, Natural Resources Districts, and other water resources decision-makers from across the State. Rachael returned to UNL in 2008, after 10 years working on community education and action programs for The Groundwater Foundation.

Kent Holm is the director of Environmental Services for Douglas County. Kent is responsible for county planning and zoning, building permits and inspections, landfill operations, weed control, landscape maintenance, snow removal, and County stormwater permit program. He is a certified Stormwater Manager and a Certified Arborist in Nebraska. Kent coordinated the County's update of its Comprehensive Plan and zoning regulations that require conservation design and progressive stormwater management.

Dean Jacobs, a native of Nebraska, left a secure job with corporate America to pursue a dream to travel around the world and understand the world we share. Sharing his experiences during four years of exploring in over 50 countries that exposed him to the goodness of humanity and the magnificent natural beauty in the world, he offers audiences the opportunity to see these qualities in others and themselves, and leaves them with many choices and decisions on how to make their world a better place to live.

Dave Johnson is Rain Bird Corp.'s Director of Corporate Marketing. He is a certified landscape irrigation auditor and was a member of a national committee that worked with U.S. EPA to develop its WaterSense program. Dave is also an active member in the Home Improvement Research Institute and Hardware Marketing Council. He has over 20 years of marketing, sales and product development experience, and has developed, launched and marketed hundreds of products and holds patents on product merchandising systems.



SPEAKER BIOGRAPHIES

Robert Klein is the Western Nebraska Crops Specialist at the University of Nebraska West Central Research and Extension Center in North Platte, Nebraska. His work includes both rain fed and irrigated crop production using herbicides and limited tillage to conserve soil, water, energy and labor. To improve ground herbicide application, he has used computer analysis of spray patterns, which employs a laser analyzer to study the effects pesticides and additives have on spray particle size and distribution.

Megan Kolaczyk works for the City of Elkhart, Indiana based at the Elkhart Environmental Center, and helps provide environmental education and outreach to youth and adults. She is charged to help local businesses and industries protect drinking water and meet wastewater discharge standards, as well as educate them about stormwater runoff. In addition, she has been working to increase local recycling efforts and market the City's composting operations. Megan is also coordinator for the Groundwater Guardian team.

Lorraine Lafreniere received a PhD in Geology from the University of Wisconsin-Madison. She worked in the petroleum industry for 18 years, and is currently Manager of the Applied Geosciences and Environmental Management Section of the Environmental Science Division for Argonne National Laboratory in Argonne, Illinois where she is the project manager and principal investigator for a program dealing with carbon tetrachloride contamination at former grain storage facilities in Kansas, Nebraska and Missouri.

David Lathrop is the superintendent for water and wastewater for the City of Seward, Nebraska. David is a registered professional chemical engineer in the state of Nebraska, and a Nebraska Grade VI Wastewater and Grade I water operator. He serves on the executive board of the Nebraska Section of AWWA and is the current coordinator for the Seward Groundwater Guardian team. He also coordinated the Groundwater Guardian Green Site designation for three department areas.

Elsa Lopez is the External Affairs Manager for the Water Replenishment District of Southern California. The District manages groundwater supplies for nearly four million residents in 43 cities of southern Los Angeles County.

Theresa McGeady is the Program Coordinator at The Miami Conservancy District in Dayton, Ohio. She coordinates and interacts with community members, businesses, and federal, state, and local

agencies in the Great Miami River Watershed, a 15 county region in Southwest Ohio. She manages Miami Conservancy District's Phase II Stormwater Program and leads a team that helps communities in the watershed meet the requirements of the stormwater program. She has also helped several organizations earn Groundwater Guardian Green Site status.

Steve Miller has over 20 years experience as a planning consultant and city planner with expertise in land use planning, urban design, and community engagement. As a planning consultant with Olsson Associates in Lincoln, Nebraska Steve assists in the development of comprehensive and master plans, transportation models, and design guidelines for large and small communities. He believes the best plans and processes empower community members to use their time and talents and to become investors in their community.

John Mundell is president and senior environmental consultant for Mundell & Associates in Indianapolis, Indiana. He earned BS and MS degrees from Purdue in Civil Engineering. He has broad experience in hydrogeology, groundwater modeling, geochemistry, plume stability evaluation, remediation design, and brownfield redevelopment. He has served as a contract zoning officer to conduct technical reviews of new construction and addition projects in the city's Wellfield Protection zoning districts.

Jamie Oltman began her career at The Groundwater Foundation as an intern in 2001. She received a BA in Environmental Studies from the University of Nebraska-Lincoln with an emphasis in sociology in 2004. She was the co-recipient of the 2007 Environmental Protection Agency Region 7 Educators Environmental Excellence Award, and is currently a Program Manager working on the development and implementation of community and youth education programs and activities.

Karen Griffin O'Connor has more than 20 years of experience managing multidisciplinary projects focused in the fields of geology and hydrogeology. She received a bachelor's degree in geology from Smith College in Northampton, Massachusetts and master's degree from the University of California in Santa Barbara. She began her career in environmental geology in Santa Barbara working for Metcalf & Eddy, Inc. and worked on the restoration and cleanup of the Rocky Mountain Arsenal National Wildlife Refuge in Denver for over 10 years. She is currently part of the Hydrogeology Team at Olsson Associates in Lincoln, Nebraska.

SPEAKER BIOGRAPHIES

Brian Reetz has been a program coordinator with The Groundwater Foundation for two years. A News-Editorial major at the University of Nebraska at Kearney, Brian began his career in print communication at a number of newspapers and magazines. At The Groundwater Foundation, he is involved in community engagement with the Let's Keep it Clean program. He also teaches a communications class at the University of Nebraska-Lincoln and does freelance writing for publications in Lincoln.

Bob Sedivy is a hydrogeologist in the Environmental Science Division with Argonne National Laboratory, where he develops models of groundwater flow and contaminant transport for remediation and water supply alternatives. He also works to develop innovative remedial technologies. He has a BS in geology and an MS in Geophysical Science/Geochemistry.

Lois Shelton is the former mayor of Wayne, Nebraska. Her commitment to the environment started when she became involved with the recycling movement. When she moved to Wayne from New York state, she began composting and her environmental interests expanded from there. She has been a City Council member and President, as well as Mayor. She feels that the highlight of her time as Mayor is the new Wastewater Treatment Plant which uses technology new to the U.S., resulting in a sludge-free effluent.

Tom Spears was the President of Valmont Irrigation from 1998 to 2004. He helped Valmont improve the mechanical performance of their Center Pivot irrigation products to give farmers better and more precise control over water application to crops. He then was group President for Valmont's North American Lighting, Specialty Structures, Coatings and Wind Energy Structures divisions. Tom

left Valmont in 2008, and after a brief time as President of Lindsay Manufacturing's Infrastructure Business, he retired to pursue his interest in writing fiction.

Christine Spitzley has served as the Environmental Programs Planner at Tri-County Regional Planning Commission in East Lansing, Michigan since 1990. She works with municipalities, counties, authorities and boards to create effective, economical programs to protect the environment, including solid waste plans, land-use planning, air quality, watershed planning, a children's water festival, groundwater protection, abandoned wells and wellhead protection programs. She is also responsible for grant writing, administration and reporting for these programs.

Cliff Treyns is public awareness director for the National Ground Water Association, a professional and trade association representing the groundwater industry. Cliff began his career in newspapers and was part of a team that won the 1983 Pulitzer Prize for Distinguished Public Service for coverage of public education issues. He also spent seven years in politics, serving as communications director for former Mississippi Governor Ray Mabus and the longest serving Speaker of the Ohio House of Representatives, Vern Riffe.

Jennifer Wemhoff is a Program Manager at The Groundwater Foundation. She joined the Foundation staff in 2000 as a part-time project assistant, and began full time in 2001 after receiving a BA in Communication. She works with the Foundation's community-based education programs, organizing and delivering workshops and trainings, managing the Groundwater Guardian and Green Sites programs, and developing community education materials. She is also the editor of *The Aquifer* quarterly newsletter.



Conference proceedings and copies of speaker presentations will be available on The Groundwater Foundation's website following the conference. Visit www.groundwater.org and click on the "Conference Proceedings" button for instructions on how they can be downloaded in PDF format.

Special thanks to the following donors who provided items for the raffle drawings:

BKelley Metalworks, Lincoln, NE
The Groundwater Foundation, Lincoln, NE
James Beaumont, Walden, NY
Michael Forsberg Photography, Lincoln, NE
Rocky Ford Outfitters, Kerry and Lisa Krueger, Valentine, NE

AWARDS

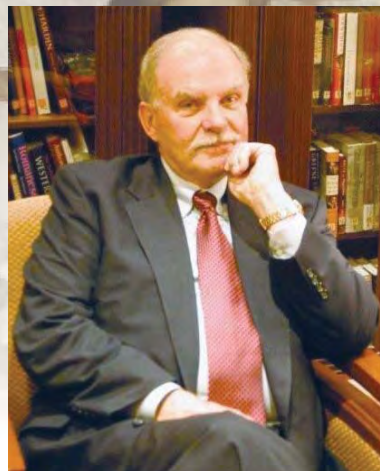
Maurice Kremer Groundwater Achievement Award - Lee Orton, Lincoln, NE

Lee Orton has been actively involved in water issues in the State of Nebraska since 1969. Beginning his career as legal counsel for the Nebraska Soil and Water Conservation Commission which later became the Natural Resources Commission, Lee was actively involved with the law portions of the framework study of the Nebraska Water Plan and with several special recommendations of the plan. His work involved many aspects of Nebraska Water Law Study and extensive activity with the implementation of Nebraska's Natural Resources Districts.

Lee served as the first executive director of the Nebraska Association of Resources Districts for 10 years before entering private practice, which he devoted to representing business and agribusiness on all nature of water resources problems.

Today Lee is principle of the Orton Law Office and remains actively involved with natural resources and environmental issues. Lee also serves as the executive director of the Nebraska Well Drillers Association, the Nebraska State Irrigation Association, and the Nebraska On-site Waste Water Association and works with the Bureau of Reclamation, irrigation and public power districts and other environmental programs and issues.

The Maurice Kremer Groundwater Achievement Award was established in 1985 to recognize outstanding Nebraskans who have made a substantive contribution to the conservation and protection of Nebraska's groundwater. The Kremer Award is chosen annually by a selection committee appointed by The Groundwater Foundation Board of Directors.



Rain Bird's Intelligent Use of Water Award - Grand Island Groundwater Guardians, Grand Island, NE



The Grand Island, Nebraska Groundwater Guardian team and partners were the winners of \$10,000 from Rain Bird's 2011 Intelligent Use of Water Awards to go towards the development of an outdoor learning area at the Nebraska State Fair at Fonner Park in Grand Island. The team won the contest by garnering the most votes in the awards' \$10,000 category.

The Intelligent Use of Water Awards is an interactive grant program that awards funds to water conservation and environmental sustainability projects that promote green spaces. Now in its fourth year, the annual program recognizes individuals and organizations whose innovation, leadership, and dedication to the management and protection of Earth's most precious natural resource through improved landscape water-efficiency raises the standard for outdoor water conservation. The 2010-11 Intelligent Use of Water Awards program aimed at encouraging and funding future water conservation projects worldwide.

The goal of the learning area is to educate the public about water quantity, water quality and stewardship of water resources in Nebraska; various types of vegetation and water uses across the state of Nebraska; natural filtration techniques; efficient water use and the Ogallala Aquifer.

GROUNDWATER GUARDIANS

Groundwater Guardian Communities

AL Eufaula
 AL Madison County
 AL New Brockton/Coffee County
 CA Atascadero
 CA Desert Hot Springs
 CA Desert Hot Springs High School
 CA Desert Springs Middle School
 CA Lompoc
 CA Orange County Water District
 CA Yucca Valley
 FL Escambia & Santa Rosa Counties
 FL Hernando County
 GA Chatham County
 IA Atlantic
 ID Boise City
 IL Loves Park
 IL McDonough County
 IL Pekin
 IL Rock Falls
 IN Carmel
 IN Elkhart
 IN Indianapolis-Marion County
 IN Valparaiso
 KS McPherson County
 MA Barnstable County (Cape Cod)
 MI Battle Creek, City of
 MI Coldwater
 MI Greater Lansing Area
 MI Kalamazoo, City of
 MI Marshall, City of
 MI Michigan State University
 MI Texas, Charter Township of
 MN Detroit Lakes, City of
 MN Holy Rosary Catholic School
 MN Rossman School - Detroit Lakes
 MO Greene County
 MO Independence
 MO Sedalia
 MS Alcorn State University
 NC Mecklenburg County
 NC Orange County
 NE Beatrice

NE Cargill Team Blair
 NE Grand Island & Surrounding Area
 NE Lincoln
 NE Offutt Air Force Base
 NE Seward County
 NE Sidney
 NE Trenton, Village of
 NE Wayne
 NH Merrimack
 NJ Pompton Lakes
 NJ Stafford Township
 NV Las Vegas Valley
 NY Montgomery, Village of
 NY Orange County Audubon Society
 NY Otisville, Village of
 NY Pine Bush Water District
 NY Suffolk County
 NY Walden, Village of
 NY Wallkill, Town of
 OH Brown County
 OH Dayton Multi-Jurisdictional Source Water Protection Program
 OH Hamilton to New Baltimore
 OH Wright-Patterson Air Force Base
 ONT Cambridge, City of
 OR Southern Willamette Valley Groundwater Management Area
 OR Springfield
 PA Buhl Community Water
 PA Carbon County
 PA Meadville Area
 PA Shrewsbury Borough
 PA Washington County
 RI North Kingstown
 SC Rural Aiken County
 TN Memphis & Shelby County
 TX North Plains Groundwater Conservation District
 WA Renton
 WA Sequim-Dungeness
 WI Calumet
 WI Chippewa Falls
 WI Kewaunee County

WI Marshfield Area
 WI Milladore Area
 WY Casper Aquifer Protection Network

Groundwater Guardian Affiliates

AL Alabama Department of Agriculture & Industries
 AL Alabama Department of Environmental Management
 CA Alameda County Water District
 CA Mission Springs Water District
 CA Santa Clara Valley Water District
 CA Water Education Foundation
 IL Central Regional Groundwater Protection Planning Committee
 IL Northeastern Regional Groundwater Protection Planning Committee
 IL Northern Regional Groundwater Protection Planning Committee
 IL Southern Regional Groundwater Protection Planning Committee
 IN Indiana Department of Environmental Management
 MI U.S. Geological Survey Michigan Water Science Center
 NC Mecklenburg County Groundwater & Wastewater
 NE Central Nebraska Regional Water Conservation Task Force
 NE South Platte Natural Resources District
 NE U.S. Geological Survey Nebraska Water Science Center
 NE University of Nebraska-Lincoln Water Center
 OH Miami Conservancy District
 OR Lane County Water Quality Affiliate
 PA Pennsylvania Rural Water Association Source Water Protection Program
 PA Pennsylvania Water Resources Education Network
 WI Kewaunee County Land & Water Conservation Department

GROUNDWATER GUARDIAN GREEN SITES

CA	Cabot's Museum, Desert Hot Springs	NE	Alda Crane Viewing Site, Alda	NE	Lindsay Corporation, Omaha
CA	Mission Springs Water District, Desert Hot Springs	NE	Auburn Recreational Complex, Auburn	NE	Lone Star Recreation Area
CO	Ballyneal Golf Club, Holyoke	NE	Bayside Golf Course, Brule	NE	Lower Platte South Natural Resources District Headquarters, Lincoln
CO	Broadmoor Golf Courses, Colorado Springs	NE	Beatrice Country Club, Beatrice	NE	Madonna ProActive, Lincoln
CO	Down Valley Park, Placerville	NE	Bressler Park, Wayne	NE	Madonna Rehabilitation Hospital, Lincoln
CO	San Miguel County Fairgrounds & Regional Park, Norwood	NE	Calamus State Recreation/Wildlife Management Area, Burwell	NE	Mahoney Golf Course, Lincoln
CT	Oronoque Country Club, Stratford	NE	Central Community College	NE	Monsanto Water Utilization Learning Center, Gothenburg
FL	Marriott's Grande Pines Golf Club, Orlando	NE	Columbus Campus, Columbus	NE	Nebraska Nature and Visitor Center, Wood River
IA	Brooks National Golf Club, Okoboji	NE	Chautauqua Park, Minden	NE	Northeast Park District, Lincoln
IA	Northwestern College, Orange City	NE	City of Seward Sludge Field, Seward	NE	Northwest Park District, Lincoln
IA	Troublesome Creek Wellhead Protection & Education Area, Atlantic	NE	City of Seward Wastewater Treatment Plant, Seward	NE	Pioneers Golf Course, Lincoln
IN	Valparaiso Country Club, Valparaiso	NE	City of Seward Wellhead Protection Area, Seward	NE	Platte River State Park, Louisville
KS	Lawrence Country Club, Lawrence	NE	College Heights Country Club, Crete	NE	Ponca State Park, Ponca
KS	Salina Country Club, Salina	NE	Community CROPS, Lincoln	NE	Quail Run & Van Berg Golf Courses, Columbus
KS	Sand Creek Station Golf Course, Newton	NE	Country Club of Lincoln, Lincoln	NE	Ricky and Lucy's Country Greenhouse, Sidney
KS	Sunset Zoo, Manhattan	NE	Crete Area Medical Center, Crete	NE	South Platte Natural Resources District Offices, Sidney
MA	Quail Ridge Country Club, Acton	NE	Crete City Park, Crete	NE	Southeast Park District, Lincoln
MD	Falls Road Golf Course, Potomac	NE	Dana College, Blair	NE	Southern Hills Golf Course, Hastings
MD	Hampshire Greens Golf Course, Silver Spring	NE	Doane College, Crete	NE	Southwest Park District, Lincoln
MD	Laytonsville Golf Course, Gaithersburg	NE	Eastern Nebraska 4-H Center, Gretna	NE	Spirit Park, Lincoln
MD	Little Bennett Golf Course, Clarksburg	NE	Eugene T. Mahoney State Park, Ashland	NE	Spring Creek Prairie Audubon Center, Denton
MD	Needwood Golf Course, Rockville	NE	First-Plymouth Congregational Church, Lincoln	NE	State Farm Insurance, Lincoln
MD	Northwest Golf Course, Silver Spring	NE	Friend Country Club, Friend	NE	Strategic Air and Space Museum, Ashland
MD	Poolesville Golf Course, Poolesville	NE	Gifford Farm Education Center, Bellevue	NE	Summer Sports Complex, Wayne
MD	Rattlewood Golf Course, Frederick	NE	Good Shepherd Lutheran Church, Lincoln	NE	Tuxedo Park, Crete
MD	Sligo Creek Golf Course, Silver Spring	NE	Heritage Hills Golf Course, McCook	NE	North Well Field, Trenton
MI	Radrick Farms Golf Course, Ann Arbor	NE	Hidden Valley Golf Club, Lincoln	NE	Wayne State College, Wayne
NC	Cedar Grove Park, Hillsborough	NE	Highlands Golf Course, Lincoln	NE	Wellington Greens Homes Association, Lincoln
NC	Eurosport Soccer Center, Efland	NE	Holmes Park Golf Course, Lincoln	NE	Wild Horse Golf Club, Gothenburg
NC	Highlands Country Club, Highlands	NE	Indian Cave State Park, Shubert	NE	YMCA Camp Kitaki, Louisville
ND	Northern Prairie Wildlife Research Center, Jamestown	NE	Jaycee Park, Minden	NE	YMCA Wright Park, Lincoln
		NE	Jim Ager Junior Golf Course, Lincoln		
		NE	Joslyn Castle, Omaha		
		NE	LaVista Falls Golf Course, LaVista		
		NE	Lincoln Children's Zoo, Lincoln		

GROUNDWATER GUARDIAN GREEN SITES

NJ	Neshanic Valley Golf Course, Neshanic Station	TN	Fall Creek Falls Golf Course, Pikeville	TN	The Bear Trace at Tims Ford, Winchester
NJ	Quailbrook Golf Course, Somerset	TN	Montgomery Bell Golf Course, Burns	TN	Warriors Path State Park Golf Course, Kinsport
OH	Forest Hills Cemetary, Piqua	TN	Old Stone Fort State Park Golf Course, Manchester	VA	U.S. Geological Survey National Center, Reston
OH	Hickory Hills Golf Club, Grove City	TN	Paris Landing State Park Golf Course, Buchanan	WA	The Golf Club at Newcastle, Newcastle
OH	Historical Covered Bridge Park, Miami	TN	Pickwick Landing State Park Golf Course, Pickwick Dam	WI	Marshfield Clinic, Marshfield
OH	Miami Conservancy District, Dayton	TN	The Bear Trace at Cumberland Mountain, Crossville	WI	Marshfield Utilities, Marshfield
Oh	City Prairies/Wellfields, Tipp City	TN	The Bear Trace at Harrison Bay State Park, Harrison		Saint Joseph's Hospital Ministry Health Care, Marshfield
OH	Vandalia Sports Complex, Dayton				
OH	Wright State University, Dayton				
TN	Buford Ellington Golf Course, Chapel Hill				

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