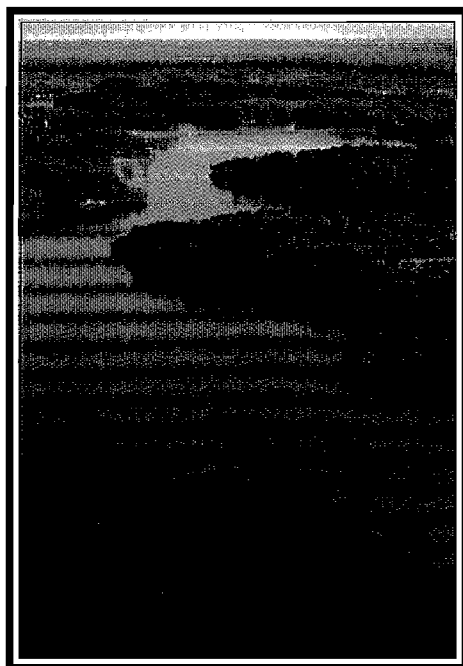


# ILLINOIS WATER

November 16-17, 1998, Urbana, Illinois  
Conference Program

'98



 **ILLINOIS**  
UNIVERSITY OF ILLINOIS AT URBANA-CHAMPAIGN

November 1998

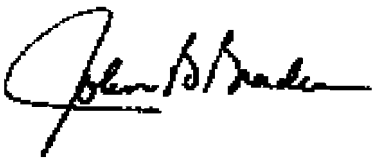
Dear Conference Participant:

"By thy waters gently flowing..." aptly begins Illinois' state song. From Lake Michigan in the northeast to the Ohio and Mississippi Rivers in the south, with abundant rainfall and gigantic aquifers, Illinois is indeed blessed with water. Our water supplies are so plentiful in most regions of the state that it is easy to forget our economy and quality of life depend on the integrity of our water resources. **ILLINOIS WATER '98** is a time for Illinois citizens and organizations to recognize and celebrate the importance of water resources to our state, and to address stresses on these resources. Good science and strong institutions for managing water resources are essential to maintaining and improving these resources and for ensuring the future prosperity of Illinois. The Water Resources Center of the University of Illinois is delighted to be your host.

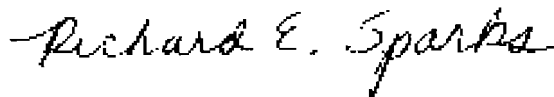
Many different water organizations have come together to plan and organize **ILLINOIS WATER '98**, as you will see from the lists of co-sponsors and planning committee members on the inside of the program cover. We are grateful indeed for their interest and involvement! These organizations recognize that water resources are important beyond the specific issues of water supply, waste treatment, channel and shoreline management, or aquifer protection. They recognize that the integrity of water resources depends on working together across political jurisdictions, agency authorities and responsibilities, and disciplinary specialties. It is this recognition of common interest that led to **ILLINOIS WATER '98** and that we hope will lead to biennial Illinois Water conferences.

We hope you will enjoy your stay in Urbana and benefit from **ILLINOIS WATER '98**. We would like to have your comments on this conference and your suggestions for the next Illinois Water conference. You will find a short conference evaluation questionnaire in your folder of conference materials. Please complete the questionnaire and leave it in the box provided at the rear of the conference room. You can also contact us at any time at the Water Resources Center by mail at 1101 W. Peabody Dr., Rm. 278, Urbana, IL 61801-4723, phone (217-333-0536), or e-mail (iwrc@uiuc.edu).

Sincerely,



John B. Braden  
Associate Provost  
University of Illinois at Urbana-Champaign



Richard E. Sparks  
Director  
Water Resources Center

The Water Resources Center at the  
University of Illinois at Urbana-Champaign Presents

# ILLINOIS WATER

November 16-17, 1998  
Holiday Inn Conference Center  
Urbana, Illinois  
Program Contents

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## MONDAY, NOVEMBER 16, 1998

**7:30 CONTINENTAL BREAKFAST (Ballroom Lobby)**

**8:30 REGISTRATION (Ballroom Lobby)**

**9:30 OPENING REMARKS (Salon F)**

**10:15 PLENARY SESSION I: SEDIMENT MANAGEMENT (Salon F)**

*Moderator*

Gary Clark, Illinois Department of Natural Resources, Office of Water Resources

*Speaker*

Marcelo Garcia, University of Illinois, Department of Civil Engineering  
*Sedimentation Issues in Illinois*

*Panelists*

John Pauling, Roy F. Weston, Inc.  
Mike Platt, Heartland Water Resources Council  
Brett Roberts, USDA, Natural Resources Conservation Service

**11:00 BREAK (Salon D/E)**

**11:15 PLENARY SESSION I: SEDIMENT MANAGEMENT, CONT. (Salon F)**

**12:30 LUNCHEON AND KEYNOTE SPEECH (Salon A/B/C)**

Dr. Yacov Y. Haimes, Quarles Professor of Engineering and Applied Science, University of Virginia  
*Risk of Willful Hazard to Water Infrastructure*

**2:00 PLENARY SESSION II: WATER EDUCATION (Salon F)**

*Moderator*

Mark Werth, Illinois Department of Agriculture

*Speakers*

Bill Beckman, Coordinator for the Central Region Groundwater Middle School Project for Illinois, and  
Dennis Kief, Public Water Works Department, Pekin, Illinois  
*Preventing Water Problems Through Awareness*

*Panelists*

Dan Injerd, Illinois Department of Natural Resources, Office of Water Resources  
Karol Keppy, Purdue University, Conservation Technology Information Center  
Doug Knox, USDA, Natural Resources Conservation Service  
Dave Soller, U.S. Geological Survey

**3:45 BREAK (Salon D/E)**

**4:00 TECHNICAL SESSIONS I - III**

***I. Education and Public Involvement in Water Resources (Salon B)***

*Farm\*A\*Syst/Home\*A\*Syst - A Tool for Resource Conservation Planning*  
Douglas C. Knox, NRCS National FAS/HAS Coordinator

*Nonpoint Source Pollution Prevention - You are the Solution*  
Lawrence E. Ziemba, Illinois Environmental Protection Agency

*USGS Outreach in Water Education*

Kelly L. Warner, U.S. Geological Survey (Patrick C. Mills, co-author)

*Contrasting Watershed Planning Frameworks*  
David C. White, University of Illinois Water Resources Center

**II. Stream and River Quality (Salon C)**

*After the 1993 Flood: A Water and Bed Sediment Quality Scenario on the Upper Mississippi and Illinois Rivers*  
TaWei Soong, Illinois State Water Survey

*The Use of Naturally Occurring Microorganisms for Environmental Restoration*  
Jun Yoshitani, EME Environmental, Inc.

*Total Maximum Daily Loadings (TMDL) and Ammonia Conditions in the Fox River Waterway*  
James E. Huff, Huff & Huff, Inc. (Sean LaDieu, co-author)

*The Illinois Ammonia Water Quality Standards: Effluent Implications & Strategies for Compliance*  
Lee R. Cunningham, Gardner, Carton & Douglas (James E. Huff, co-author)

**III. Surface Water Hydrology (Salon A)**

*Lake Michigan Diversion Accounting:  
A Review of the Historical, Legal, and Technical Aspects of Resource Management*  
James J. Duncker, U.S. Geological Survey (Kevin A. Oberg, co-author)

*History of Water Level Fluctuations in the LaGrange Pool of the Illinois River*  
Misganaw Demissie, Illinois State Water Survey (Renjie Xia and H. Vernon Knapp, co-authors)

*Vulnerability of Midwestern Streams to Irrigation Induced by Climate Change*  
J. Wayland Eheart, University of Illinois, Department of Civil and Environmental Engineering  
(D.W. Tornil, co-author)

*Near Real-Time Flood-Simulation System for Salt Creek in DuPage County*  
Terry Ortel, U.S. Geological Survey (Chris Vonnahme, co-author)

*Dynamic Modeling of the Big Ditch Watershed in Central Illinois*  
Deva Borah, Illinois State Water Survey  
(Maitreyee Bera, Susan Shaw, Laura Keefer, and Misganaw Demissie, co-authors)

**6:00 CONFERENCE RECEPTION AND POSTER PRESENTATIONS (Hotel Atrium)**

**Posters**

*Dynamic Modeling of the Upper Sangamon River Basin in Illinois*  
Maitreyee Bera, Illinois State Water Survey  
(Deva Borah, Susan Shaw, Laura Keefer, and Misganaw Demissie, co-authors)

*Zebra Mussel Videos*  
Patrice Charlebois, Illinois-Indiana Sea Grant College Program (Robin Goettel, co-author)

*Exotic Species Day Camp: Motivating Youth to Take an Active Role in  
Addressing Aquatic Nuisance Species Issues*  
Robin Goettel, Illinois-Indiana Sea Grant College Program (Clarissa Gentzler, co-author)

*NEXRAD Reflectivity as a Precipitation Distribution Surface for Gaged Watersheds*  
C.M. Harbourt, University of Illinois, Department of Agricultural Engineering  
(M.C. Hirschi and J.K. Mitchell, co-authors)

*The U.S. Geological Survey in Illinois*  
Robert Holmes, U.S. Geological Survey (Gary Johnson, co-author)

*The Movement of Surface-Applied Atrazine, Nitrate, and Bromide in the Subsurface in a Flooded Field*  
Walton R. Kelly, Illinois State Water Survey (Steven D. Wilson, co-author)

*Hydrologic Modeling in Tile Drained Watersheds of East Central Illinois*  
W.J. Northcott, University of Illinois, Department of Agricultural Engineering  
(R.A.C. Cooke, S.E. Walker, A.K. Verma, J.K. Mitchell, and M.C. Hirschi, co-authors)

*Nitrate Monitoring in the Lake Decatur Watershed*  
Susan Shaw, Illinois State Water Survey (Laura Keefer, Misganaw Demissie, and Sandy Jones, co-authors)

***Posters, continued***

*Aquatic Biota and Water Chemistry of Illinois Caves and Springs: Problems and Management*  
Steve Taylor, Illinois Natural History Survey (D.W. Webb and M.J. Wetzel, co-authors)

*Modeling Restoration in the Illinois River Floodplain*  
David C. White, University of Illinois Water Resources Center (John B. Braden, Ariaster Chimeli, Misganaw Demissie, Eric DeVuyst, Daniel Schneider, Richard E. Sparks, and Renjie Xia, co-authors)

*Water Issues and Concerns: New Series Tailors Information to Meet Individual Needs*  
Susan White, Illinois-Indiana Sea Grant College Program (Leslie Dorworth and Robin Goettel, co-authors)

*Evaluation of the SCS Curve Number Method for the Little Vermilion River Watershed*  
Yongping Yuan, University of Illinois, Department of Agricultural Engineering  
(J. Kent Mitchell and Sharyl E. Walker, co-authors)

**EXHIBITS**

**Exhibits from the following organizations will be on display in Salon D/E throughout the conference.**

Illinois Department of Agriculture, Land and Water Resources  
Illinois Department of Natural Resources, Office of Water Resources  
Illinois Farm Bureau  
Illinois State Water Survey  
Illinois Water Environment Association  
Illinois Water Resources Center  
Metropolitan Water Reclamation District of Greater Chicago  
National Association of Water Companies (USGS/NAWC)  
USDA, Natural Resources Conservation Service  
USDA, Illinois District Office  
U.S. Geological Survey, Illinois District Office  
University of Illinois, Geographic Modeling Systems Laboratory

**TUESDAY, NOVEMBER 17, 1998**

**7:30 CONTINENTAL BREAKFAST (Ballroom Lobby)**

**8:30 PLENARY SESSION III: URBAN STORMWATER (Salon F)**

*Moderator*

Richard Mollahan, Illinois Environmental Protection Agency, Bureau of Water

*Speakers*

Dannel McCollum, Mayor, City of Champaign  
*The Complexity of Geo-Political Drainage Solutions*  
 Dennis Schmidt, Urbana & Champaign Sanitary District  
*City of Champaign Boneyard Creek Project*

*Panelists*

Ward Miller, Lake County Stormwater Management Commission  
 Jeff Smith, City of Champaign  
 Leon Wendte, USDA, Natural Resources Conservation Service  
 Richard Worthen, Metro East Regional Stormwater Committee

**10:15 BREAK (Salon D/E)**

**10:30 TECHNICAL SESSIONS IV - V**

**IV. Groundwater Issues (Salon B)**

*Regional Groundwater Management Models -- Significance of Aquifer Parameters and Their Estimations*  
 Manoutchehr Heidari, Illinois State Geological Survey

*Cost-Effective Risk-Based Corrective Action Design for Contaminated Aquifers*  
 Barbara S. Minsker, University of Illinois, Department of Civil and Environmental Engineering  
 (J. Bryan Smalley, co-author)

*Do Samples Obtained Using Borehole Packers Represent Aquifer Water Quality?*  
 Patrick C. Mills, U.S. Geological Survey (Douglas J. Yeskis and James M. Rauman, co-authors)

*Web-Based Interactive Simulation Tools for Groundwater Transport Education*  
 Albert J. Valocchi, University of Illinois, Department of Civil and Environmental Engineering  
 (Glenn E. Hammond, co-author)

**V. Watershed Evaluations and Non-Point Source Pollution (Salon C)**

*Analysis and Modeling of Nitrate Concentrations and Loads in Five East-Central Illinois Waterways*  
 Gregory F. McIsaac, University of Illinois, Department of Natural Resources and Environmental Sciences  
 (Michael Brun, Robert Hudson, Sharyl Walker, and Stephen Wentz, co-authors)

*Understanding the Hydrology and Water Quality of a Tile-Drained Watershed*  
 J. Kent Mitchell, Department of Agricultural Engineering  
 (S.E. Walker, M.C. Hirschi, K. Banasik, and G.F. McIsaac, co-authors)

*Variability and Trends of Nitrate Concentrations in the Lake Decatur Watershed*  
 Laura Keefer, Illinois State Water Survey (Misganaw Demissie, Susan Shaw, and Sandy Howard, co-authors)

*Lake Pittsfield Watershed Project: A Cooperative Effort*  
 Don Roseboom, Illinois State Water Survey (Scott Tomkins and Richard J. Mollahan, co-authors)

**12:15 LUNCHEON AND GUEST SPEAKER (Salon A)**

Theresa Greutz, UI Women's Basketball Coach

**1:30 PLENARY SESSION IV: NON-POINT SOURCE POLLUTION (Salon F)**

*Moderator*

Karen Witter, Illinois Department of Natural Resources

*Speaker*

Derek Winstanley, Illinois State Water Survey

*Biogeochemical Cycles as a Framework for Understanding Non-Point Source Pollution*

*Panelists*

Chet Boruff, Illinois Department of Agriculture

Bob Delaney, U.S. Geological Survey, Environmental Management Technical Center

Tony Kramer, USDA, Natural Resources Conservation Service

Richard Lanyon, Metropolitan Water Reclamation District of Greater Chicago

Jim Park, Illinois Environmental Protection Agency, Bureau of Water

**3:15 WRAP-UP (Salon F)**

**3:30 ADJOURN (Salon F)**

**4:00 HYDROSYSTEMS LABORATORY TOUR**

The Hydrosystems Laboratory is a unit of the Civil and Environmental Engineering Department at the University of Illinois. It covers a surface area of about 11,000 square feet, has its own water supply system, and contains experimental flumes, stratified flow tanks, sediment resuspension tunnel, and model basins and spillways. The Hydrosystems Laboratory is pleased to offer a tour of its facility and demonstrations of current research to interested participants of the Illinois Water '98 conference.

The Hydrosystems Laboratory is located at the corner of Main Street and Mathews Avenue in Urbana. Visitors may enter the east door (at the corner of Main and Mathews) and follow the signs to direct them inside. Free parking is available in lot B22 at the corner of Clark Street and Goodwin Avenue, approximately two blocks from the Lab. Metered parking is available in front of the Lab. From the Holiday Inn, drive south on Lincoln Avenue, past University Avenue, and turn right on Clark Street or Main Street, depending upon your parking preference. Clark is the first street after University, and Main is the second. The tour will last approximately two hours.



**WILLIAM C. BECKMAN, Coordinator for the Central Region Groundwater Middle School Project for Illinois, Peoria, Illinois**

**Presentation: Speaker, Plenary Session II: Water Education, *Preventing Water Problems Through Awareness***

William Beckman holds a B.S. degree from Huron University and a M.A. degree from Bradley University, and is working toward an Educational Specialist degree (EdS) at Western Illinois University. Mr. Beckman is a science teacher with over 20 years experience. He has authored a dozen articles and makes presentations throughout the Midwest and on the east coast at the international, national, and state levels. He has recently returned from a sabbatical serving as the Central Region Coordinator of the Illinois Middle School Groundwater Project (MSGP), which is underwritten by the W.K. Kellogg Foundation. The Illinois State Board of Education (ISBE) recruited Mr. Beckman to work with schools placed on the Academic Early Warning List (AEWL) during the 1997-98 school year and will continue working with the AEWL schools during 1998-99. The ISBE named Mr. Beckman the Christa McAuliffe Fellow for the 1998-99 school year, and in this capacity he will coordinate efforts to merge high technology groundwater modeling into the MSGP.

**CHESTER S. BORUFF, Deputy Director, Division of Natural Resource and Ag Industry Regulation, Illinois Department of Agriculture, Springfield, Illinois**

**Presentation: Panelist, Plenary Session IV: Non-Point Source Pollution**

Chet Boruff is Deputy Director for the Division of Natural Resource and Ag Industry Regulation with the Illinois Department of Agriculture. He is a native of Rock Island County, Illinois, and was raised on his family's grain and livestock farm near Buffalo Prairie. He has worked as a branch office manager for Production Credit Associations in eastern Iowa, and in 1980, he began farming full time, raising grain and hogs, and he still raises corn and soybeans today. Before joining the Illinois Department of Agriculture in 1992, Mr. Boruff provided financial and management consulting services to producers and lenders, including commercial banks, the Farm Credit System, FmHA, and an international bank system. He also worked as a district sales manager for an ag research and marketing company. Mr. Boruff has a strong commitment to the soil and water conservation movement and uses no-till systems and erosion control practices on his own farm.

He has served on a number of boards and committees, is an alumnus of the Illinois Ag Leadership Program, and a past member of its Alumni Board of Directors. Mr. Boruff holds a degree in Agriculture from Iowa State University.

**GARY R. CLARK, Civil Engineer, Illinois Department of Natural Resources, Office of Water Resources**

**Presentation: Moderator, Plenary Session I: Sediment Management**

Gary Clark is a civil engineer with the State of Illinois Department of Natural Resources, Office of Water Resources. Mr. Clark has served as the Chief of the Planning and Research Section in the Office of Water Resources since 1980, and is now the Acting Manager of the Division of Program Development. His responsibilities include the administration and conduct of research and planning in the areas of instream flow protection, statewide water supply management, groundwater modeling, drought management, groundwater and surface water law, and state water planning. He serves as the State of Illinois Alternate Representative to the Upper Mississippi River Basin Association and the Ohio River Basin Commission, Agencies Representative to the Governor's State Water Plan Task Force, and has served as President of the Illinois Groundwater Association and the Illinois Section of the American Water Resources Association. Mr. Clark is a graduate of the University of Wisconsin, with a B.S. in Civil Engineering and a M.S. in Civil and Environmental Engineering.

**ROBERT L. DELANEY, Director, Environmental Management Technical Center, U.S. Geological Survey, Onalaska, Wisconsin**

**Presentation: Panelist, Plenary Session IV: Non-Point Source Pollution, *Sediment Budget of the Illinois River and River Management Implications***

Robert Delaney is Director of the U.S. Geological Survey's Environmental Management Technical Center in Onalaska, Wisconsin. The Center, in cooperation with the U.S. Army Corps of Engineers, the U.S. Fish and Wildlife Service, and the States of Wisconsin, Minnesota, Iowa, Missouri, and Illinois, is conducting a long-term resource monitoring and applied research program which provides information to river managers and decision makers to better manage the 1,200 mile Upper Mississippi River System. Prior to his current position, Mr. Delaney directed the Branch of Operations for the U.S. Fish and Wildlife Service's National Wildlife Refuge System in Washington, D.C. While in

Washington, he served on an extended congressional staff assignment working on legislation to protect the Arctic National Wildlife Refuge from unregulated oil and gas development. He has managed National Wildlife Refuges in Louisiana, California, Arizona, and Alaska, and worked on refuges in Illinois, New Jersey, and New York. Mr. Delaney holds a commercial pilots licence with land and sea rating and has conducted extensive natural resource flight operations. He served on a Governor appointed River Task Force in Alaska which resulted in major state legislation concerning the Kenai River.

**MARCELO H. GARCIA, Associate Professor and Director, Hydrosystems Laboratory, Department of Civil Engineering, University of Illinois at Urbana-Champaign**

**Presentation: Speaker, Plenary Session I: Sediment Management, *Sedimentation Issues in Illinois: A Broad View***

Marcelo Garcia has been an Associate Professor in the Department of Civil Engineering at UIUC since 1996. His areas of research are sediment transport and river hydraulics, and environmental hydrodynamics. He has received many international and national awards and recognitions including the Karl Emil Hilgard Hydraulic Prize in 1996 and the Walter L. Huber Civil Engineering Prize in 1998, both from the ASCE. Dr. Garcia received a Dipl. Ing. degree in Water Resources from the Univ. Nacional del Litoral in Argentina, and a M.S. and Ph.D. in Civil Engineering from the University of Minnesota.

**THERESA GRENTZ, Coach, University of Illinois Women's Basketball**

**Presentation: Guest Speaker, Tuesday Luncheon**

Entering her 25<sup>th</sup> year as a head coach, Theresa Grentz has more than made her mark nationally in women's basketball. Whether it's coaching the United States Olympic team or winning the national championship, when there's a job to be done, the Grentz name has been synonymous with success. Illinois women's basketball has reached new heights since the hiring of Coach Grentz on May 15, 1995. UI women's basketball has established itself as one of the premier programs in the country and, in the process, it continues to make headlines nationally. Coach Grentz has committed herself to making Illinois nationally renowned for its dual commitment to athletic success and academic excellence. Throughout the state of Illinois and across the country, Coach Grentz is actively involved in community activities, charity functions, and youth clinics.

**YACOV Y. HAIMES, Quarles Professor of Engineering and Applied Science, University of Virginia**

**Presentation: Keynote Speaker, Monday Luncheon, *Risk of Willful Hazard to Water Infrastructure***

Dr. Haimes has served on the faculty of the University of Virginia since 1987. He has authored or co-authored five books and over 200 editorials and technical publications, 120 of which appear in archival-refereed journals and encyclopedias. He is a former Congressional Science Fellow, sponsored by the American Association for the Advancement of Science and the American Geophysical Union. He has also edited or co-edited 17 books, and is an associate editor of three archival journals: the *IEEE Transactions of Systems, Man, and Cybernetics*; *Reliability Engineering and Systems Safety*; and *Risk Analysis*. He sits on and chairs several national and international committees. He served as president of the Universities Council on Water Resources. Previously, he chaired the systems engineering department of Case Western Reserve University and directed its Center for Large-scale Systems and Policy Analysis. Dr. Haimes' research interests include risk-based decision making, multiobjective tradeoff analysis, and hierarchical analysis of large-scale systems. He has applied his research results to water resources and environmental and industrial systems. Dr. Haimes holds a Ph.D. in Large Scale Systems Engineering from the University of California at Los Angeles.

**DANIEL INJERD, Chief, Lake Michigan Management Section, Illinois Department of Natural Resources, Office of Water Resources, Chicago, Illinois**

**Presentation: Panelist, Plenary Session II: Water Education, *Lake Michigan Water Allocation and Diversion - Meeting Water Supply Needs and Staying Out of Court***

Daniel Injerd is the Chief of the Lake Michigan Management Section for the Office of Water Resources, Illinois Department of Natural Resources. In this position, Mr. Injerd is responsible for the management of Illinois' Lake Michigan diversion as allowed under a U.S. Supreme court decree and the allocation of Lake Michigan water to 196 public water supplies serving over 6 million people in northeastern Illinois. The Section also reviews and issues permits for construction activities in Lake Michigan. Mr. Injerd is active in representing Illinois on Great Lakes issues, and was a member of Illinois' team throughout the mediation process that successfully resolved the interstate dispute concerning Illinois' Lake Michigan diversion. He also

serves as an Alternate Commissioner on the Great Lakes Commission and is Illinois' member on the Water Resources Management Committee of the Council of Great Lakes Governors. Mr. Injerd holds a M.S. in Resource Management from Michigan State University, with a minor in Sanitary Engineering.

**KAROL KEPPY, Project Manager for Nutrient, Pest, and Watershed Management at the Conservation Technology Information Center (CTIC), Purdue University**

**Presentation: Panelist, Plenary Session II: Water Education, *Moving From Talk to Action: The Watershed Partnership Starter Kit***

Karol Keppy has nearly 15 years of marketing communications experience working for agricultural, business-to-business, and consumer companies. At CTIC, she took the Know Your Watershed initiative and developed it into a national clearinghouse of information about how to start a local, voluntary watershed partnership. There are now more than 1,100 watershed partnerships listed on the National Watershed Network. In addition, they have shipped more than 2,000 Watershed Partnership Starter Kits and work with more than 80 National Partners including leading companies, NGOs, and governmental agencies. Prior to joining CTIC in early 1994, she was Product Promotion Manager at White-New Idea Farm Equipment Company where she was involved with crop residue management and manure nutrient management farmer/dealer educational programs. Ms. Keppy holds a B.S. degree in Agricultural Journalism from Iowa State University and has studied at the School of Economics in London.

**DENNIS KIEF, Public Water Works, Pekin, Illinois**

**Presentation: Speaker, Plenary Session II: Water Education, *Preventing Water Problems Through Awareness***

**DOUGLAS C. KNOX, NRCS National Coordinator, Farm\*A\*Syst/Home\*A\*Syst Program, Madison, Wisconsin**

**Presentation: Panelist, Plenary Session II: Water Education, *Farm\*A\*Syst/Home\*A\*Syst - A Tool for Resource Conservation Planning***

Doug Knox has worked for the USDA Natural Resources Conservation Service for 30 years in both rural and urban areas, and has served in his present position as the National NRCS FAS/HAS Coordinator for the past six years. He is an active member of the

Soil and Water Conservation Society (SWCS) and is a Viet Nam Veteran. Mr. Knox holds a B.S. degree in Natural Resources from the University of Wisconsin-Stevens Point, and a M.S. degree in Soil and Crop Sciences from the University of Wisconsin-Platteville. He grew up on a family farm in southern Wisconsin and continues to be actively engaged in farming today.

**TONY KRAMER, Assistant State Conservationist, USDA, Natural Resources Conservation Service (NRCS), Champaign, Illinois**

**Presentation: Panelist, Plenary Session IV: Non-Point Source Pollution, *The NRCS Watershed Program - A Strategy for the 21<sup>st</sup> Century***

Tony Kramer has held the position of Assistant State Conservationist for NRCS since November of 1996, with responsibility as program manager for watershed operations and resource planning, as well as management operations. From 1983 through October of 1996, he was employed by NRCS in Ohio as a Soil Conservationist working directly with producers and landowners on conservation planning and application of best management practices. He also served as Resource Conservationist on the State Staff providing guidance to local offices and planning groups on NRCS programs and the resource planning process. Mr. Kramer is a graduate of the Ohio State University College of Agriculture.

**RICHARD LANYON, Assistant Director of the Research and Development Department of the Metropolitan Water Reclamation District of Greater Chicago**

**Presentation: Panelist, Plenary Session IV: Non-Point Source Pollution, *Control of Combined Sewer Overflows in Metropolitan Chicago***

Richard Lanyon has held positions in charge of waterways operations, water pollution enforcement, and planning and design of flood and pollution control facilities, in addition to his present position with responsibilities that include the District's Pretreatment Program and environmental monitoring activities. He was directly involved in the planning of the Tunnel and Reservoir Project (TARP), the District's CSO Control Plan, and is currently involved in monitoring the efficacy of TARP and other water quality improvement projects and in the issues regarding NPDES permitting of TARP. Prior to joining the District, he spent two years with Harza Engineering Company working on water resource planning studies. Mr. Lanyon received his general education in Chicago public schools, and his B.S. and M.S. degrees in Civil Engineering from the University of Illinois.

**DANNEL McCOLLUM, Mayor, City of Champaign, Illinois**

**Presentation: Speaker, Plenary Session III: Urban Stormwater, *The Complexity of Geo-Political Drainage Solutions***

Dannel McCollum has served as Mayor of Champaign since 1987. His initiatives and areas of leadership in public office include Boneyard Creek and other surface drainage projects providing \$30 million of drainage improvements to protect the University of Illinois campus area, and the implementation of a sanitary drainage utility fee in order to provide systematic maintenance and funding of city-wide sanitary drainage. His public service includes service on the Champaign Environmental Advisory Commission and the C-U Solid Waste and Litter Reduction Committee. Prior to becoming Mayor, Mr. McCollum was a writer, consultant, and activist-conservationist columnist for the *C-U Courier*, and a free lance feature writer for publications including the *News-Gazette*, *C-U Weekly*, and the *Champaign County Leader*. Mr. McCollum holds a B.A. degree in Political Science, a B.S. degree in Secondary Education, and a M.S. degree in Geography from the University of Illinois.

**WARD MILLER, Executive Director, Lake County Stormwater Management Commission, Mundelein, Illinois**

**Presentation: Panelist, Plenary Session III: Urban Stormwater**

Ward Miller is the Executive Director of the Lake County Stormwater Management Commission. He is a member of the American Institute of Certified Planners and the Illinois Association of Floodplain and Stormwater Managers. Based on his 18 years of experience, Mr. Miller believes in locally-initiated, comprehensive, watershed-based stormwater management. He holds a B.A. in Urban Studies and a Master's degree in Regional and City Planning from the University of Oklahoma.

**RICHARD MOLLAHAN, Senior Public Service Administrator, Illinois Water Quality Management/Non-Point Source Pollution Unit, Bureau of Water, Illinois Environmental Protection Agency, Springfield, Illinois**

**Presentation: Moderator, Plenary Session III: Urban Stormwater**

Rick Mollahan has held the position of Senior Public Service Administrator of the Illinois Water Quality

Management/Non-Point Source Pollution Unit in the Illinois EPA's Bureau of Water since 1986. He is responsible for administration of all Section 319 activities in Illinois, as well as managing the state's comprehensive Water Quality Management Plan, and participates in numerous state and federal workgroups and special assignments from the Governor of Illinois. Prior to this position, Mr. Mollahan was Project Manager in the Construction Grants Program in the Bureau of Water for 8 years. Mr. Mollahan holds a B.S. in Park Administration and a M.A. in Natural Resource Management.

**JAMES B. PARK, Chief, Bureau of Water, Illinois Environmental Protection Agency, Springfield, Illinois**

**Presentation: Panelist, Plenary Session IV: Non-Point Source Pollution**

Jim Park has served as Chief of the Bureau of Water at the Illinois Environmental Protection Agency since 1991, with duties that include responsibility for all water pollution control and community water supply programs of the State. Programs include all major delegated federal responsibilities and implementation of comprehensive state regulations in the areas of water quality, drinking water, and groundwater management. In addition to the administrative duties associated with the operations of the Bureau, Mr. Park's responsibilities include development and testimony in support of legislation concerning water programs at both the state and federal level. He holds a B.S. in Engineering-Mechanics and Material Science, with special emphasis in fluid mechanics, and a M.S. in Engineering-Fluid Mechanics, with graduate pollution control study, from Southern Illinois University.

**JOHN D. PAULING, P.E., Professional Engineer in the Commonwealth of Pennsylvania, Roy F. Weston, Inc.**

**Presentation: Panelist, Plenary Session I: Sediment Management, *Technologies for Decontamination of Dredged Sediment, Case Study: New York/New Jersey Harbor***

John Pauling has 14 years of diverse engineering design experience, including project management, project engineering, and structural engineering in the environmental/engineering consulting industry. His experience includes wastewater/hazardous waste storage/treatment facilities design and tank system designs. Mr. Pauling holds B.S. and M.S. degrees in Civil Engineering from Drexel University.

**MICHAEL D. PLATT, Executive Director, Heartland Water Resources Council, Peoria, Illinois**

**Presentation: Panelist, Plenary Session I: Sediment Management, *Some Sad Truths About Resource Destruction***

Michael Platt is the Executive Director of the Heartland Water Resources Council. HWRC's stated mission is to manage the process of saving the Peoria Lakes. With regard to the use and condition of Illinois soil and water resources, Mr. Platt describes himself as a realist whose beliefs were formed by a lifetime of personal connection to the land. He was raised on a farm, currently owns a farm in the Spoon River floodplain, and spent 14 years with the Illinois Department of Agriculture working on conservation issues. Mr. Platt is a graduate of Monmouth College, with a degree in Geology.

**BRETT ROBERTS, State Conservation Agronomist, USDA, National Resources Conservation Service (NRCS)**

**Presentation: Panelist, Plenary Session I: Sediment Management**

Brett Roberts holds a B.S. in Agronomy from Southwest Missouri State University and a M.S. in Agronomy from the University of Illinois.

**DENNIS SCHMIDT, Executive Director, Urbana & Champaign Sanitary District, Urbana, Illinois**

**Presentation: Speaker, Plenary Session III: Urban Stormwater, *City of Champaign Boneyard Creek Project***

Dennis Schmidt is the chief executive officer for all administrative, financial, and engineering functions of the Sanitary District. Prior to his current position, Schmidt was Assistant City Engineer for the City of Champaign where he supervised the environmental section of the city's Engineering Division which is responsible for managing capital improvement projects for the city's stormwater drainage and the sanitary sewer collection systems. He was the project manager for the Boneyard Creek Improvement Project. Schmidt holds B.S. and M.S. degrees from the University of Illinois.

**JEFF SMITH, Assistant Public Works Director/City Engineer, City of Champaign, Illinois**

**Presentation: Panelist, Plenary Session III: Urban Stormwater, *City of Champaign Boneyard Creek Project - Implementation***

Jeff Smith has served in his current position since 1987. His achievements include completing master plans for three drainage basins and sanitary sewer maintenance. Mr. Smith has been a member of many public service committees including the APWA/Corps of Engineers Advisory Committee, and he has chaired several others including the UCSD Sanitary Sewer Technical Committee and the Illinois Municipal League Public Works Committee. Mr. Smith holds a B.S. degree in Forest Engineering from the State University of New York, a B.S. degree in Civil Engineering from Syracuse University, and a M.B.A. degree from the University of Illinois.

**DAVID SOLLER, Geologist, U.S. Geological Survey, Reston, Virginia**

**Presentation: Panelist, Plenary Session II: Water Education, *Three-Dimensional Geologic Mapping in East-Central Illinois - A Tool for Regional Ground Water Management***

David Soller has been a Geologist with the U.S. Geological Survey since 1981, where he serves as Chief of the National Geologic Map Database Project, Associate Project Chief for Scientific Applications - USGS Center for Earth Science Information Research, Program Deputy for Digital Mapping - National Cooperative Geologic Mapping Program, and participates on various USGS and federal committees that deal with information-related issues. His professional interests and goals include developing new methods of quantitative analysis and interpretation of digital earth-science information, conducting interdisciplinary research leading to new applications for that information in a decision making setting, and assessing the economic value of that information in public and private decisions. This work is conducted at the USGS and Stanford University Center for Earth-Science Information Research. Dr. Soller holds a B.S. degree in Geology from the College of William and Mary, a M.S. degree in Geology from Miami University, Oxford, Ohio, and a Ph.D. in Geology from George Washington University.

**LEON WENDTE, District Conservationist, USDA, Natural Resources Conservation Service, Champaign, Illinois**

**Presentation: Panelist, Plenary Session III: Urban Stormwater, *Urban Stormwater Management as a Component of Total Watershed Planning***

Leon Wendte is a registered professional engineer in the State of Illinois. He has 12 years of experience as Area Engineer in western and northeastern Illinois, and 12 years of experience as District Conservationist for Champaign County, Illinois. Mr. Wendte has worked extensively on erosion control, water quality, wildlife habitat, wetlands, watershed planning, and urban drainage and stormwater management. Mr. Wendte holds B.S. and M.S. degrees in Agricultural Engineering from the University of Illinois.

**MARK WERTH, Water Resource Specialist, Illinois Department of Agriculture, Springfield, Illinois**

**Presentation: Moderator, Plenary Session II: Water Education**

Mark Werth serves as a Water Resource Specialist for the Illinois Department of Agriculture. He coordinates water resource protection activities, namely the Illinois Farm\*A\*Syst Program. This "farmstead assessment system" allows operators and home dwellers to self-determine contamination risks near private well sites and assists in directing pollution prevention measures. He is developing a similar program component which is more environmentally diverse for the non-farm rural and fringe-urban audiences called HomeACRE. As a part of more recent grant work, he is administering development of a third assessment component for agricultural land use areas in a software format. Mr. Werth engaged in production agriculture on the family farm before entering public service full time in 1986, and during 1980-88, he served rural government on the Logan County Board assuming leadership roles up through board vice-chairman. He is a graduate of the University of Illinois with a degree in Agricultural Economics.

**DEREK WINSTANLEY, Chief, Illinois State Water Survey, Champaign, Illinois**

**Presentation: Speaker, Plenary Session IV: Non-Point Source Pollution, *Biogeochemical Cycles as a Framework for Understanding Non-Point Source Pollution***

Derek Winstanley possess 28 years of experience with international research and service in climatology and

environmental science. He currently holds the position of Chief of the Illinois State Water Survey, which includes the Midwest Climate Center, the Illinois State Climatologist, a Watershed Science Section, a Groundwater Section, and the U.S. National Acid Deposition Program. Dr. Winstanley's current leadership activities include serving as editor of the Environmental Science and Policy journal, membership in the Illinois State Water Planning Task Force and Drought Task Force, membership in the CENR Gulf of Mexico Hypoxia Assessment Working Group, and he is leader of an interagency assessment of nutrients and sediments in Illinois. Prior positions include Director of the interagency U.S. National Precipitation Assessment Program and Deputy Chief Scientist in the National Oceanic and Atmospheric Administration. Dr. Winstanley holds B.A. and M.A. degrees in Geography and a Ph.D. in Climatology from Oxford University.

**KAREN A. WITTER, Director, Office of Scientific Research, and Assistant to the Director, Department of Natural Resources, Springfield, Illinois**

**Presentation: Moderator, Plenary Session IV: Non-Point Source Pollution**

Karen Witter has 20 years of experience in Illinois state government as a senior level administrator involved in environmental, natural resource, science, and technology programs and policies. She has served as the director of a cabinet-level state natural resource agency, key policy advisor to the Governor on natural resources issues, and executive director of Governor-appointed commissions. Ms. Witter currently serves as Director of the Office of Scientific Research and Analysis within the Department of Natural Resources and as Assistant to the Director for Scientific Research and Integration. Ms. Witter holds a B.S. in Zoology from Iowa State University and a M.S. in Ecology from the University of Wales, Great Britain.

**RICHARD WORTHEN, Coordinator, Metro East Regional Stormwater Committee, Granite City, Illinois**

**Presentation: Panelist, Plenary Session III: Urban Stormwater**

In his current position, Richard Worthen attempts to coordinate all levels of government with regard to stormwater for the Metro East Sanitary District.

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