PROGRAM SUMMARY

Gathering of the Waters

27th Annual Meeting of the American Water Resources Association – Wisconsin Section

Thursday, February 27, 2003

0.00	
9:00 a.m. – 2:30 p.m.	Registration – Hall of Nations
11:15 – 11:45	Business Meeting and Election – Stockbridge/Munsee & Sokaogan
11:45 – 12:45	Welcome and Lunch – Stockbridge/Munsee & Sokaogan
12:45 – 2:15	Plenary Session on Waters of Wisconsin – Stockbridge/Munsee & Sokaogan
	 Todd Ambs, Water Division Administrator, Wisconsin Department of Natural Resources George Kraft, Director, Center for Watershed Science and Education, UW-Stevens Point Pat Leavenworth, State Conservationist, Natural Resources Conservation Service, USDA Curt Meine, Director of Conservation Programs, Wisconsin Academy of Sciences, Arts and Letters
2:15 – 3:45	Break – Please leave the dining area to allow the rooms to be reset.
2:45 – 3:45	Concurrent Sessions 1A and 1B
	Session 1A – Surface Water Studies – <i>Stockbridge/Munsee</i> Moderator: Tim Kratz, UW-Trout Lake Station
2:45	Hydrogeologic and Vegetative Gradients Across a Wetland Transect in South Central Wisconsin. A.L. McDermott.*
3:05	Stream Assessments, Restoration and Watershed Management: An Automated Approach Using GIS. B.A. Brown.
3:25	Sources and Variability of Cryptosporidium in the Milwaukee River Watershed. S.R. Corsi.

	Session 1B – Agriculture and Groundwater – <i>Sokaogan</i> Moderator: James Hurley, UW-Madison Aquatic Sciences Center
2:45	Atrazine in Shallow Groundwater of the Western Lake Michigan Drainages: Looking for Trends. J.C. Thomas.
3:05	Nitrate and Pesticide Loading, Fate and Origin in a Wisconsin Groundwater Basin. R.S. Mentz.*
3:25	Denitrification in Shallow Groundwater: Management-Intensive Grazing versus Annual Cropping on Sandy Soils. B.A. Browne.
3:45 – 4:05	Break
4:05 – 5:25	Concurrent Sessions 2A and 2B
	Session 2A – Surface Water Chemistry – <i>Stockbridge/Munsee</i> Moderator: William Sonzogni, State Laboratory of Hygiene
4:05	Calcium and Phosphorus in a Hardwater Eutrophic Lake. A. DeChamps.*
4:25	An Overview of In-lake Results from the Mercury Experiment to Assess Atmospheric Loading In Canada and the United States (METAALICUS). C.L. Babiarz.
4:45	Factors Controlling the Fate and Transport of Mercury and Methylmercury in Hypolimnetic Lacustrine Environments. S.P. Chadwick.*
5:05	Polybrominated Diphenyl Ethers: The Saga Continues. W.C. Sonzogni.
	Session 2B – Groundwater Chemistry – <i>Sokaogan</i> Moderator: Maureen Muldoon, UW-Oshkosh
4:05	Comparison of Solute Concentrations Collected from Experimental and Field Data at the Reclaimed Flambeau Mine, Ladysmith, Wisconsin. R.T. Jakubowski.
4:25	Geochemical Controls on High and Low Arsenic Concentrations in Residential Well Water, Fox River Valley, Wisconsin. M.B. Gotkowitz.
4:45	Delineation of High Salinity Conditions in the Cambro-Ordovician Aquifer of Eastern Wisconsin. L.E. Schmidt.*

5:05 Insights into Radium Occurrences in the Deep Sandstone Aquifer of Eastern Wisconsin. T. Grundl.

5:30 – 7:00 **Poster Session** – Hall of Nations

Arsenic Removal During Iron Treatment. J. Baumann.*

Development of a Tribal Fish Consumption Advisory Based on Interagency Data Sharing. E.D. Chiriboga.

Importance of Disinfection on Arsenic Release from Wells. A.F. Clary.

Cooperative Mercury Sampling of Surface Waters Near the Site of the Proposed Crandon Mine. J.S. Coleman.

Monitoring Contaminant Flux from a Stormwater Infiltration Facility to Groundwater. C.P. Dunning.

Eutrophication in Wisconsin Lakes During the Last 150 Years. P.J. Garrison.

Trinity Creek Multi-Feature Restoration Project: Stream Enhancement, Wetland Rehabilitation, Northern Pike Spawning Habitat and Flood Mitigation. J.J. Hiller.

Urban Storm Drainage in Hilly Areas. M.G.J. Jacques.*

Maintaining Continuity in Chlorophyll Trend Data While Improving the Analytical Method. D. Kennedy-Parker.

Monitoring Update for Argonne National Laboratory Sanitary Landfill, Argonne, Illinois. R.G. Kolzow.

Validating the Ammonia Analysis Technique Used in Surface Water and Wastewater Monitoring. G. Krinke.

Arsenic in Groundwater in Southeastern Wisconsin: Sources of Arsenic and Mechanisms of Arsenic Mobilization. T.L. Root.*

Spatial and Temporal Variability of Groundwater Chemistry Beneath Agricultural Land: Implications for Assessing Environmental Impacts of a New Unsewered Subdivision. J.D. Wilcox.*

7:00 **Dinner** – Stockbridge/Munsee & Sokaogan

Banquet Speaker - Larry Wawronowicz, Deputy Administrator of Natural Resources, Lac du Flambeau Band of Lake Superior Chippewa Indians

Friday, February 28, 2003

7:00 – 8:30	AWRA-Wisconsin Section Board of Directors' Breakfast Meeting – Eagle's Nest
8:30 – 9:30	Concurrent Sessions 3A and 3B
	Session 3A – Groundwater Remediation – Stockbridge/Munsee Moderator: George Kraft, Center for Watershed Science & Education, UW-Stevens Point
8:30	Three Seasons of Phytoremediation of VOCs in Soil and Groundwater. E.L. McLinn.
8:50	Response of Redox Conditions to Air Sparging in a Geochemically Heterogeneous Groundwater System. I.L. Ekstrom.*
9:10	Surfactant Enhanced Oxidative Dechlorination of Chlorinated Solvents by Permanganate – Proof of Concept. Z. Li.
	Session 3B – Hydrogeologic Characterization – Sokaogan Moderator: Madeline Gotkowitz, Wisconsin Geological & Natural History Survey
8:30	Flow Across the Maquoketa Shale Aquitard in Southeastern Wisconsin. D.J. Hart.
8:50	Use of the Time-Domain Electromagnetic Method for Determining the Presence and Depth of Aquitards. M.L. Anderson.*
9:10	Time-Domain Electromagnetic Induction Survey of the Sandstone Aquifer in the Lake Winnebago Area of Eastern Wisconsin. J. Jansen.
9:30 – 10:00	Break
10:00 - 11:40	Concurrent Sessions 4A and 4B
	Session 4A – Water Policy and Management – Stockbridge/Munsee

Resources

Moderator: Michael Lemcke, Wisconsin Department of Natural

10:00	How the Wisconsin River Watershed has Benefited from Three Decades of Clean Water Act Programs. R.E. Martini.
10:20	Meeting the NPDES Phase II Requirements: A Demonstration of the Benefits of Infiltration Practices in Wisconsin, 1999-2002. W.R. Selbig.
10:40	Efforts to Manage Aquatic Invasive Species in Wisconsin. R.H. Martin.
11:00	Great Lakes Water Use Following the Ecosystem Improvement Principles of Annex 2001. M.D. Mittag.
11:20	Modernizing Groundwater Quantity Management in Wisconsin: Needs and a Potential Approach. G.J. Kraft.
	Session 4B – Groundwater Modeling – <i>Sokaogan</i> Moderator: James Krohelski, U.S. Geological Survey
10:00	Using Characteristic Leakage Length as a Guide to Model Design: Application to the Grindstone Springs Area, Lac Courte Oreilles, Wisconsin. P.J. Juckem.
10:20	Delineation of Five-Year Zones of Contribution for Municipal Wells in La Crosse County, Wisconsin: Methodology and Results. D.C. Chapel.
10:40	Hypothesis-Testing by Groundwater Flow Modeling: the Maquoketa Aquitard. T.T. Eaton.
11:00	Using Diverse Data Types to Calibrate a Watershed Model of the Allequash Creek Basin, Northern Wisconsin. R.J. Hunt.
11:20	Both sessions reconvene in Stockbridge/Munsee.
11:40 – 12:00	Announcement of Student Paper Award Winners and Closing Remarks - Stockbridge/Munsee

^{*} denotes student presentation