UWM Global Climate Change and Sustainable Development Initiative

CONFERENCE ON CLIMATE CHANGE AND SUSTAINABLE DEVELOPMENT

Sponsored By **UWM Global Climate Change and Sustainable Development Initiative**













Co-Sponsored By

UWM Center for By-Products Utilization; UWM College of Letters and Science; UWM Sheldon B. Lubar School of Business; UWM School of Architecture and Urban Planning; UWM Graduate School; Lafarge North America, Herndon, VA; Headwaters Resources, South Jordan, UT; We Energies, Milwaukee, WI; and ACAA Educational Foundation, Aurora, CO

April 24 - 25, 2008 DoubleTree Hotel, Milwaukee City Center, Milwaukee, WI

Conference Description

This conference will discuss the global issue of climate change in the regional context of Wisconsin and the Great Lakes. It will feature presentations and discussions across many disciplines, focusing on challenges associated with climate changes for the region and potential practical solutions. The conference aims to reach a broader audience beyond the academic community, including business, government, and other community members that are involved in activities relevant to climate change. Over 35 speakers will present their perspective in many different themed sessions. Academics, government, and business representatives from many different disciplines, including architecture, biology, education, chemistry, civil engineering, economics, energy, geography, health sciences, information management, urban planning, water resources, and others will present their insights based on current research and experiences relating to climate change and sustainable development. This conference is being sponsored by the University of Wisconsin - Milwaukee Global Climate Change and Sustainable Development Initiative. Over the last two years, the University of Wisconsin-Milwaukee (UWM) has formed a campus-wide group of faculty and staff experts in disciplines varying from biology to economics to engineering and urban planning. This group is united in its commitment to develop a campus-wide, interdisciplinary institute for the study of global climate change and sustainable development.

UWM CONFERENCE ON CLIMATE CHANGE AND SUSTAINABLE DEVELOPMENT

PROGRAM Thursday, April 24, 2008

7:00 a.m. Registration and Coffee

- 7:50 Introduction: Tarun R. Naik, Director, UWM GCCSD Initiative
- 8:00 Welcome: Tom Barrett, Mayor, City of Milwaukee
- 8:15 Keynote Address: Governor Doyle's Task Force on Global Warming a Status Report, Roy Thilly, CEO, Wisconsin Public Power, Inc., Sun Prairie, Wisc.
- 8:45 Effects of Climate Change on Ecological Systems, Session Chair: Gretchen Meyer, Field Station, UWM
 - Long-term Change in Vegetation of a Wisconsin Wetland: An Effect of Climate Change?

Jason Mills, Department of Biological Sciences, UWM, James Reinartz & Gretchen Meyer, Field Station, UWM, and Erica Young, Department of Biological Sciences, UWM

■ Effects of Climate Change on Birds

Peter Dunn, Department of Biological Sciences, UWM

■ Changes to the Onset of Spring in a Warming World

Mark D. Schwartz, Department of Geography, UWM

Species Responses to Rapidly Changing and No-analog Climates: Lessons from the Late Quaternary John Williams, Department of Geography and Center for Climatic Research, UW-Madison, Steve Jackson, University of Wyoming, and John Kutzbach, UW - Madison

10:15 Break

- 10:45 Urban Planning for CO2 Reduction, Session Chair: Nancy Frank, Department of Urban Planning, UWM
 - Reversing Carbon Dependence in Cities: The Role of Urban Planning Nancy Frank, Department of Urban Planning, UWM
 - Sustainable Urban Design Strategies

Michael Utzinger, Department of Architecture, UWM

■ Regional Strategies for Carbon Reduction

Scott Bernstein, Center for Neighborhood Technology, Chicago, Illinois

12:00 p.m. Lunch – Welcome: Provost and Vice Chancellor for Academic Affairs Rita Cheng, UWM

- 1:00 Global Climate Change and Health, Session Chair: Anne Banda, College of Nursing, UWM
 - Climate Change and Human Health: Global Policy Perspectives

Laura Anderko and Anne Banda, College of Nursing, UWM

■ Public Health and the Environment: The View from Milwaukee

Ann Beier, Director, Office of Environmental Sustainability, City of Milwaukee, Wisc.

 Changes in Sub-Saharan Africa's Ecosystem: Effects on Health and Social Well-being Aaron G. Buseh, College of Nursing, UWM

- 2:15 Break
- 2:30 Concrete, the Green Building Material for the 21st Century, Session Chair: Tarun R. Naik, Center for By-Products Utilization, UWM
 - How to Make Concrete Greener and More Environmentally Friendly John Zachar, Milwaukee School of Engineering, Milwaukee, Wisc.
 - Opportunities for Coal Combustion Products in Greenhouse Gas Emissions Trading John Ward, Headwaters Resources, Jordan, Utah
 - Use of Concrete for CO2 Sequestration

Tarun R. Naik, UWM Center for By-Products Utilization

- 3:45 Panel Discussion: "Impact and Opportunities of Climate Change a Business and Public Policy Perspective" Moderator: Marc N. Haines, Sheldon B. Lubar School of Business, UWM Panelists:
 - Marc D. Andraca, Director Global Energy & Sustainability, Johnson Controls, Milwaukee, Wisc.
 - Roman Draba, Vice President, Regulatory Affairs and Policy, We Energies, Milwaukee, Wisc.
 - Arthur J. Harrington, Chairman, Environmental and Energy Law Practice Group, Godfrey & Kahn, Milwaukee, Wisc.
 - Mark Sabljak, Publisher, The Business Journal, Milwaukee, Wisc.
- 5:00 Adjourn. 5:30 Cocktail Hour (Cash Bar). 6:30 Dinner.

UWM CONFERENCE ON CLIMATE CHANGE AND SUSTAINABLE DEVELOPMENT

PROGRAM

Friday, April 25, 2008

7:00 a.m. Registration and Coffee

- 7:40 Introduction: Tarun R. Naik
- 7:45 Welcome: Colin G. Scanes, Vice Chancellor for Research & Economic Development, Dean of the Graduate School
- 8:00 Interdisciplinary Opportunities for Employment for Future Graduates: George T. Stone, MATC, Milwaukee, Wisc.
- 8:25 Identifying and Adapting to Climate Change Impacts in Wisconsin, John Magnuson, UW Madison.
- 8:45 Promises of Renewable Energy, Session Chair: David Yu, Department of Electrical Engineering and Computer Science, UWM
 - Wind Power for a Cleaner, Stronger America

Jeff Anthony, Utility Programs and Policy, American Wind Energy Association, Milwaukee, Wisc.

- Blue Sky, Green Field, and Beyond
 - Andy Hesselbach, Wind Farm Project Manager, We Energies, Milwaukee, Wisc.
- Bio Fuel and Solar Energy into the Gas Pipe Line
 - T. C. Jen, Department of Mechanical Engineering, UWM
- Research Overview for UWM Wind Energy Group
 - David C. Yu, Department of Electrical Engineering and Computer Science, UWM
- 10:15 Break
- 10:45 International and Energy Dimensions of Climate Change, Session Chair: Hamid Mohtadi, UWM
 - Climate Change and the Economics and Ecological Aspects of Energy Use Stephen Polasky, Department of Applied Economics, University of Minnesota, St. Paul, Minn.
 - Designing International Environmental Agreements

Matthew McGinty, Department of Economics, UWM

■ Climate Change and Economic Development: The International Aspects Hamid Mohtadi, Department of Economics, UWM

12:00 p.m. Lunch

- 1:00 Carbon Neutral Architecture in Light of the 2030 Challenge, Session Chair: Jim Wasley, School of Architecture and Urban Planning, UWM
 - On-Going Activities in the City of Milwaukee for Reducing Its Carbon-Footprint
 Ann Beier, Director, Office of Environmental Sustainability, City of Milwaukee, Wisc.
 - The UWM Solar Decathlon Project

Gregory Thomson, School of Architecture and Urban Planning, UWM

- The Carbon Neutral Studio Project: A National Curriculum Development Effort for Teaching Architectural Design Jim Wasley, School of Architecture and Urban Planning, UWM
- The Harm A. Weber Academic Center, a Case Study in 'European' Passive and Low-Energy Design Keelan P. Kaiser, School of Art, Design and Architecture, Judson University, Elgin, Illinois
- 2:30 Break
- 2:45 Great Lakes Responses to Climate Change, Session Chair: Harvey Bootsma, Great Lakes Water Institute, UWM
 - Subtle Climate Change and Shift in the Average Wind Direction Over the Great Lakes Basin James T. Waples, Great Lakes Water Institute, UWM
 - Great Lakes Climate Change Thermodynamic Impacts Assessment

Thomas E. Croley II, NOAA Great Lakes Environmental Research Lab, Chicago, Illinois

- Climate and Limnology in the African Great Lakes: Recent Changes, and Implications for Temperate Lakes Harvey Bootsma, Great Lakes Water Institute, UWM
- 4:00 Where Do We Go From Here? Future of GCCSD Challenges, Session Chair: Tarun R. Naik, UWM Center for By-Products Utilization
- 4:30 Adjourn

Registration Information

The conference will be held at the DoubleTree Hotel, Milwaukee City Center, 611 West Wisconsin Avenue, Milwaukee, WI. The registration fee of \$95.00 includes cost of the conference registration, handouts, refreshments, lunches, and conference dinner. For staying at the DoubleTree Hotel, it is suggested that you contact the hotel directly for reservation by calling (414) 273-2950; or 1-800-222-8733; and mention Group "UWM Climate Change" or Code Number "UWC."

Please complete registration form below and send with your check, before April 17, 2008 to:

Rudolph N. Kraus **UWM Center for By-Products Utilization University of Wisconsin-Milwaukee** P.O. Box 784 Milwaukee, WI 53201-0784

Make check payable to: UWM GCCSDI Conference. You may also register by telephone by calling (414) 229-4105 or by FAX (414) 229-6958 before April 17, 2008. For more information about the UWM Global Climate Change Initiative, visit us at: <http://www.gccsdi.uwm.edu>.

For more information about this conference, please contact: Tarun R. Naik or Rudolph N. Kraus, (414) 229-4105; FAX (414) 229-6958. Internet address: e-mail <tarun@uwm.edu > or <rudik@uwm.edu>.

The DoubleTree Hotel is very conveniently located in downtown Milwaukee at North Sixth Street and West Wisconsin Avenue and is accessible from I-43 north bound or south bound and from I-94 east bound or west bound. Due to construction in the downtown area, participants should refer to http://www.mchange.org for the latest driving directions. A shuttle bus (Airport Connection, 1-800-236-5450 or www.goairportconnection.com) from the Mitchell Airport is available for \$12 per person one-way.

Refunds and Cancellations

Program fee is refunded if written withdrawal notice is received seven days before the program. However, a \$65 cancellation fee will be charged. Full fee is charged if registration is not cancelled by April 17, 2008. Substitutions can be made at anytime.

REGISTRATION FORM UWM CONFERENCE ON CLIMATE CHANGE AND SUSTAINABLE DEVELOPMENT April 24 - 25, 2008 Milwaukee, WI

Mail to: Rudolph N. Kraus **UWM Center for By-Products Utilization University of Wisconsin-Milwaukee** 3200 North Cramer Street, Room W309 P. O. Box 784

Milwaukee, WI 53201-0784

Registration Fee: \$95.00 by April 17, 2008 Late Fee: Add \$40.00 after April 17, 2008

Make check payable to: **UWM GCCSDI Conference**

Name:				Title:	
Last		First	M. I.		
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