Workshop Description

The purpose of the workshop is to bring to attendees the latest information available regarding LEED ratings established by USGBC and how to increase this rating with the use of coal combustion products and other recyclable materials in green construction. The program will include presentations showing important technical, energy, environmental, and economic advantages of using coal ash and other recyclable materials in ordinary, everyday construction applications. The workshop should be of interest to those associated with the construction industry, including design and materials engineers; architects; engineering technicians; engineers working in governmental agencies, industry, and private practice; engineering faculty and students; as well as ready-mixed concrete producers, concrete products manufacturers, and concrete contractors. The workshop will also provide significant help to people from utilities and other industries producing coal ash and other recyclable materials. The program will cover basic information, application case histories, as well as the latest developments in increasing LEED rating. Knowledgeable professionals engaged in specifying, approving, marketing, and using these materials will present state-of-the-art information. Handout materials will be provided.
UWM-CBU Workshop on
GREEN CONSTRUCTION MATERIALS USING COAL-COMBUSTION PRODUCTS

PROGRAM

Thursday, May 1, 2008

8:00 a.m. Registration and Coffee.

8:30 Introduction. Tarun R. Naik

8:40 Benefits of green buildings and the LEED rating system established by the US Green Building Council; and, how recyclable materials help improve the LEED rating.
Connie Lindholm

9:30 Use of Coal Ash in Concrete and Concrete Products: Classification (Class F, Class C, Class N, and SDA & Clean-Coal Ash); Chemical Composition; Physical and Mechanical Properties; Ready Mixed Concrete; Precast/Prestressed Concrete; and, Concrete Bricks, Blocks, and Paving Stones.
Tarun R. Naik

11:00 Coffee Break

11:20 Placing, Compacting, and Finishing Concrete Containing Fly Ash.
Jack Gibbons

12:00 p.m. Lunch

1:00 Contractors’ Experience in the Use of Fly Ash in Concrete Pavements: A Competitive Advantage.
Kevin McMullen

1:45 Bottom Ash Utilization, Recovered Ash Utilization from Monofills, Controlled Low Strength Materials (Flowable Backfill), and Composite Metal Alloys.
Bruce W. Ramme

3:00 Break

Tarun R. Naik

4:10 Base and Sub-base Stabilization with Self-Cementing Class C Fly Ash.
Tim Muchlfeld

4:55 Adjourn

5:15 Reception – Cash Bar

6:15 Dinner

Friday, May 2, 2008

8:00 a.m. Registration and Coffee.

8:30 Recycling of Coal-Combustion Products, a Producers Perspective: We Energies CCP Utilization Program Overview, Quality Management, and Ash Fuel Reburn & other Beneficiation Technologies.
Art Covi and Bob Meidl

9:45 Quality Control and Transportation of CCPs.
Dave Diedrick

10:20 Coffee Break

10:40 Environmental Considerations for the Use of CCPs: Wisconsin Department of Natural Resources Guidelines.
Bizhan Sheikholeslami

Bruce Ramme

12:15 p.m. Lunch

1:15 Use of Fly Ash in Concrete and Flowable Slurry – A Ready-Mixed Concrete Manufacturer’s Perspective.
Steve Pozza

1:50 25-Year History of Structural Concrete with High Amounts of Class C and Class F Fly Ash – Experimental and Construction Applications.
Tarun R. Naik

2:30 Break

2:50 Use of Fly Ash in Ready-Mixed Concrete – The WRMCA Perspective.
Pat Bauer

3:25 General Discussion - Special Applications & Local Needs; and, Where do we go from here?

4:00 Adjourn
SPEAKER INFORMATION

The program is currently scheduled to include the following speakers:

Pat Bauer, Technical Marketing Director, Wisconsin Ready Mixed Concrete Association, Madison, WI.
Prior to his work with WRMCA, he was Regional Sales Manager for Indiana Phoenix, Inc.; W.R. Grace and Company as Field Technical Sales and Engineering Sales Representative; and with Central Ready Mixed Concrete as Director of R&D. He is past president of the Wisconsin Chapter of ACI and has been an associate and producer board member of WRMCA.

Art Covi, P. E., Principal Engineer, Coal-Combustion Products Team Leader, We Energies, Milwaukee, WI. Mr. Covi has over 28 years of experience with We Energies. He has managed a variety of MGP, PCB, Ash Landfill, and other site investigations and remediation projects including budgeting, risk assessment and contractor management. He holds a BS in Civil Engineering degree from UW-Milwaukee.

Dave Diedrick, Utility Service Manager, Lakes & Seaway Business Unit, Lafarge.
Mr. Diedrick has worked for Lafarge in a number of different positions. He has a B.S. in Construction Engineering from Lawrence Technological University and a MBA in Marketing from DePaul University. Prior to joining Lafarge, he worked for Holloway Construction Company and the Michigan Department of Transportation.

Jack Gibbons, Central Regional Manager, Concrete Reinforcing Steel Institute, Chicago, IL.
Prior to joining CRSI, Mr. Gibbons was Director of Technical Services for Central Ready Mix, Milwaukee, and at Prairie Materials in Chicago. He is a member of the ACI, serving on Committee 302, Guide for Concrete Floor and Slab Construction; 360, Design of Slabs on Grade; and 362, Parking Structures. Mr. Gibbons is Past President of the Wisconsin Chapter of ACI.

Connie Lindholm, Executive Director, Wisconsin Green Building Alliance, Milwaukee, WI.
Ms. Lindholm has an educational and professional background in civil and environmental engineering and in public works engineering. She worked for the Milwaukee Metropolitan Sewerage District and the City of Milwaukee before operating her own business for five years. Ms. Lindholm has a strong commitment for building the interdisciplinary nature of WGBA.

Bob Meidl, Senior Engineer, Coal-Combustion Products Group, We Energies, Milwaukee, WI.
Mr. Meidl graduated with a B.S. in Mechanical Engineering from Marquette University. He has worked as an engineer for We Energies since 1991. He has worked as a plant engineer at We Energies southeast Wisconsin coal plants focusing on plant efficiency and system improvement projects. He is currently managing contracts for utilization of the coal-combustion products.

Tim Muehlfeld, Senior Engineer, We Energies, Milwaukee, WI.
Mr. Muehlfeld received his BSCE from Michigan Technological University. He worked for many years as a structural engineer before joining We Energies in 1992. Mr. Muehlfeld manages We Energies ash landfills and construction and remediation projects at active and historical ash landfill sites.

Tarun R. Naik, Ph. D., P. E., Research Professor and Academic Program Director, UWM Center for By-Products Utilization, Milwaukee, WI.
Dr. Naik has many years of experience with concrete. His contribution in teaching and research has been well recognized nationally and internationally. His research has resulted in over 250 technical reports and papers in ACI, ASCE, ASTM, RILEM, and other publications. He is a member of ACI, ASCE, ASE, ASTM, RILEM, NSPE, and WSPE, and is a member of many technical committees. He has served as a president of Wisconsin-ACI and WSPE.

Steve Pozza, Sales & Technical Support Representative, New Berlin Redi-Mix, New Berlin, WI.
Mr. Pozza has been working over many years with New Berlin Redi-Mix. He is a member of ACI and is trained through the ACI Certification program as a Concrete Construction Inspector, and is currently certified as an ACI Field Testing Technician - Grade I, ACI Concrete Flatwork Technician, and is certified with the NRMCA as a Pervious Concrete Technician.

Bruce W. Ramme, MSCE, MBA, P. E., Manager, Environmental Department - Land Quality, We Energies, Milwaukee, WI.
Mr. Ramme has worked for many years at We Energies. He is a member of ACI, ASCE, NSPE, and other organizations. He was chairman of ACI Committee 229, CLSM; and 213B, By-Product Lightweight Aggregate, and a member of other committees of ACI. Currently, he also serves as a Secretary for the ACI Committee 555, Recycled Materials for Concrete. He is a past-president of the Wisconsin Chapter of ACI and the Southeast Branch of the WI Section of ASCE.

Bizhan Sheikholeslami, Environmental Engineer, Wisconsin Department of Natural Resources, Waukesha, WI.
Mr. Sheikholeslami has worked with the WI-DNR for many years. He has been involved with by-products recycling and development of the administrative code related to by-product beneficial use. He received his M.S. in Environmental Engineering from UW-Milwaukee and B.S. in Geological Engineering from Pahlavi University. He is a member of the Solid Waste Association of North America and Federation of Environmental Technologists.
Registration Information

The workshop will be held at the DoubleTree Hotel, Milwaukee City Center, 611 West Wisconsin Avenue, Milwaukee, Wis. The registration fee of $95.00 includes cost of the workshop registration, handouts, refreshments, lunches, and 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-CBU” or Code Number “CBU.”

Please complete registration form below and send with your check 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-CBU Workshop. You may also register by telephone by calling (414) 229-4105; or, by FAX (414) 229-6958. For more information about the UWM Center for By-Products Utilization, information about Milwaukee, and other information visit us at: <http://www.cbu.uwm.edu>.

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

The DoubleTree Hotel, Milwaukee City Center 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) from the Mitchell Airport is available for approximately $12 per person one-way.

Refunds and Cancellations
Program fee is refunded if withdrawal notice is received seven days before the program. However, a $75 cancellation fee will be charged. Full fee is charged if registration is not cancelled by April 24, 2008. Substitutions can be made at anytime.

-------------------------------------------------------------------------------------------------------------------------------------------
REGISTRATION FORM
Workshop on GREEN CONSTRUCTION MATERIALS USING COAL COMBUSTION PRODUCTS
May 1-2, 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 by April 24, 2008
Late Fee: Add $45 after April 24, 2008
Make check payable to:
UWM-CBU Workshop

Please Print or Type:

Name: ___________________________________________ Title: ________________________________

Last        First                     M. I.
Phone No.: ___________________________ Fax No: ___________________________ E-mail: ___________________________

Mailing Address: ______________________________________________________________________________________

Company

______________________________  P. O. Box

Street

______________________________

City  State  Zip

GEN-1501