November 4 & 5, 2004  Holiday Inn – City Centre, Milwaukee, WI

Workshop Description

The purpose of the workshop is to bring attendees up-to-date with the latest information on the use of coal combustion products in concrete and other construction materials. The program will include presentations showing important technical, environmental, and economic advantages of using coal ash 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. The program will cover basic information, application case histories, as well as the latest developments in the utilization of coal ash from power plants in concrete, concrete products, and other construction materials. Knowledgeable professionals engaged in specifying, approving, marketing, and using these materials will present state-of-the-art information. Handout materials will be provided.
WORKSHOP on the USE of FLY ASH and other COAL COMBUSTION PRODUCTS in CONCRETE and CONSTRUCTION MATERIALS

PROGRAM

Day 1
Thursday, November 4, 2004

8:15 a.m. Registration and Coffee

9:00 Use of Coal Ash in Concrete and Concrete Products: Classification (Class F, Class C, Class N, FGD Materials, and Slag); Chemical Composition, Properties; Ready Mixed Concrete; Precast/Prestressed Concrete; and Concrete Bricks, Blocks, and Paving Stones.
Tarun R. Naik

10:40 Coffee Break

11:00 Past, Present, and Future of Coal Combustion Products Use in Construction Materials.
Thomas Jansen

11:45 Lunch

12:45 p.m. Contractors’ Experience in the Use of Fly Ash in Concrete Pavements: A Competitive Advantage.
Kevin W. McMullen

1:30 Freezing and Thawing Durability, Salt Scaling, and Chloride Penetration for Fly Ash Concrete - Field Data.
Tarun R. Naik

2:15 Flowable Slurry for Backfill, Low-Strength Concrete for Foundations, Use of Bottom Ash, and Other Applications.
Bruce W. Ramme

3:45 Break

4:05 Wood Ash: A New Pozzolonic Material; its Uses in Concrete and Concrete Products, Roller-Compacted Concrete Pavements, Blended Cements, and Flowable Slurry.
Rudolph N. Kraus

4:45 Cocktail Hour (Cash Bar)

6:00 Dinner

7:00 Optimizing Mixtures to Extend Concrete Production During a Cement Shortage.
Daniel Constantiner, Ph.D.
Group Manager, Analytical Services
Degussa Admixtures, Inc.; Cleveland, OH.

7:50 Adjourn

Day 2
Friday, November 5, 2004

7:45 a.m. Registration and Coffee

8:15 Fly Ash - the Petrographer's Perspective
John M. Fox

9:10 Quality Management and We Energies Beneficiation Processes for the Use of CCPs in Construction Materials.
Bruce W. Ramme

10:10 Coffee Break

10:30 Wisconsin Department of Transportation’s Experience and Other Results from the Use of Fly Ash in Concrete Pavements and Bridges.
James M. Parry and Tarun R. Naik

11:20 Coal Ash Modification Technology to Improve the Quality of Coal Ash.
Tarun R. Naik

11:45 Lunch

12:45 p.m. Stability of Mercury in Coal Ash.
Kenneth J. Ladwig

1:35 From Waste to By-Products to Products – the Evolution of CCPs as Marketable Construction Materials.
Keith Bargheiser

2:25 Use of Fly Ash in Concrete and Flowable Slurry – Opportunities for the Concrete Construction Industry.
Kurt Boehlein

3:10 Break

3:30 Use of Coal Ash in Blended Cements and Other Recent Advances in the Use of CCPs.
Tarun R. Naik


4:45 Adjourn
SPEAKER INFORMATION

The program is scheduled to include the following speakers:

Keith Bargaheiser, Manager of Marketing and Sales, Headwaters Resources, South Jordan, UT.
Keith has over 20 years of experience in the cement and concrete industries. He is responsible for the promotion of CCPs. This includes research and development, education, and troubleshooting. His overall concrete material knowledge and diverse industry experience enables him to facilitate a synergistic approach for CCPs recycling in the concrete construction industry.

Kurt Boehlein, CPA, General Manager, New Berlin Redi-Mix, Inc., New Berlin, WI.
Mr. Boehlein joined New Berlin Redi-Mix in 1987 and was promoted to General Manager in 1999. He received his accounting degree in 1993 and has been a CPA since 1995. Mr. Boehlein continues the tradition of New Berlin Redi-Mix to support the promotion and use of fly ash in ready mixed concrete and controlled low-strength materials (CLSM).

John M. Fox, Petrographer, Degussa Admixtures, Inc., Cleveland, OH.
Mr. Fox is a Certified Professional Geologist and has over 10 years of experience in petrography of building materials. He has a B.S. degree in Earth Science from Southern Illinois University, and a M.S. in Geology from the University of Illinois, Champaign-Urbana. Mr. Fox has been with Degussa Admixtures, Inc. for 7 years as a concrete petrographer with experience in supplementary cementitious materials, especially fly ash. He is a member of ACI and ACI technical committee 232 Fly Ash.

Thomas Jansen, P.E., Supervising Engineer, Coal Combustion Products Group, We Energies, Milwaukee.
Mr. Jansen is currently serving as Chairman of the American Coal Ash Association and also serves on ASTM. He has over 20 years of experience as a civil engineer. He supervises the CCPs utilization program at We Energies and its landfills. His prior experience includes environmental consulting, engineering, and project management in Wisconsin and Florida.

Rudolph N. Kraus, Assistant Director, UWM Center for By-Products Utilization, Milwaukee, WI.
Mr. Kraus has worked at the UWM-CBU for over ten years. He has directed research on numerous projects on the use of by-products (coal ash, wood ash, used foundry sand and slag, pulp and paper mill residuals, etc.) in CLSM, concrete, and cast-concrete products. Prior to joining UWM-CBU he worked for over ten years for a consulting engineering company in Chicago.

Kenneth J. Ladwig, P. G., Hydrogeologist/Manager, Electric Power Research Institute, Palo Alto, CA.
Mr. Ladwig has worked for over 20 years on coal and coal combustion products related research issues. He currently directs EPRI’s research program for all aspects of coal combustion products management and use. Prior to joining EPRI, he worked on coal ash management for We Energies, and directed research on acid mine drainage control for the US Bureau of Mines in Pittsburgh. He has co-authored more than 35 publications.

Kevin W. McMullen, P. E., President, Wisconsin Concrete Pavement Association, Middleton, WI.
Mr. McMullen has worked as a civil engineer for about 20 years. He worked for WI-DOT and others for many years before joining WCPA. His responsibilities include acting as a technical resource to WI-DOT and the Municipalities of Wisconsin and statewide promotion of concrete pavements.

Tarun R. Naik, Ph. D., P. E., Director, UWM Center for By-Products Utilization, Milwaukee, WI.
Dr. Naik has over 40 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, etc. He is a member of ACI, ASCE, ASEE, ASTM, RILEM, NSPE, and WSPE. He is a member of many technical committees of ACI, ASCE, ASTM, and RILEM. He has served as a president of WI-ACI, WSPE, and other organizations.

James M. Parry, P. E., Supervisor, Bureau of Highway Construction, Wisconsin Department of Transportation, Madison, WI.
Mr. Parry has been with the Wisconsin DOT for over 20 years. He has worked as a research project engineer and pavement management engineer. In addition to his current position at the Central Office Laboratory, he also serves as the Wisconsin DOT’s Concrete Engineer for the state for issues related to troubleshooting, specification development, and technology development.

Bruce W. Ramme, P.E., Manager, Land Quality, Environmental Department, We Energies, Milwaukee, WI.
Mr. Ramme has 28 years experience as a civil engineer and has published numerous technical reports, papers, and a handbook on coal combustion products utilization. He is a member of ACI technical committees: 213 Lightweight Aggregate/Concrete, 229 Controlled Low Strength Materials, 230 Soil Cement, 232 Fly Ash and Natural Pozzolans, and 555 Recycled Materials. Mr. Ramme is also a member of ASCE, NSPE, and other professional organizations.