

Construction Demonstration for Use of Residuals and Reject Fibers from Pulp and Paper Industry in Concrete and CLSM



Center for By-Products Utilization
3200 North Cramer Street, Room W309
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UWM-CBU Concrete Materials Technology Series Program No. 72

Construction Demonstration for Use of Residuals and Reject Fibers from Pulp and Paper Industry in Concrete and CLSM

Sponsored By

Wisconsin Department of Natural Resources, Madison, WI
and
UWM Center for By-Products Utilization, Milwaukee, WI

August 28, 2008, Brookfield, WI

*Best Western Midway Hotel-Brookfield, 1005 S. Moorland Rd., Brookfield, WI and
New Berlin Redi-Mix, Inc., 20500 W Lawnsdale Rd., New Berlin, WI*

Demonstration Description

The purpose of this workshop is to present important technical information and review production and construction aspects for the use of fibers from pulp and paper industry primary treatment residual solids in structural-grade ready-mixed concrete, as well as in flowable slurry (CLSM). Flowable Slurry is a very low-strength concrete-like material that is usually made from one or more of the materials such as coal ash, wood ash, used foundry sand, post-consumer crushed glass, concrete sand, water, and some portland cement. The strength of the flowable slurry can vary from 50 psi to 1200 psi at the age of 28 days. Flowable slurry is being specified increasingly by municipalities, state highway departments, and engineers for many applications. The workshop will include a demonstration of use of residual solids in a structural concrete slab and in CLSM. Handout materials will be provided. The workshop should be of interest to those associated with managing environmental challenges for pulp and paper mills, as well as engineers involved in durable concrete construction and design, architects, engineering technicians, engineers working in governmental agencies, industry and private practice, engineering faculty and students, as well as ready mixed concrete producers, aggregates suppliers, and contractors. State-of-the-art information will be presented.

PROGRAM

August 28, 2008

*Best Western Midway Hotel-Brookfield, 1005 S. Moorland Rd. (I-94 & Moorland Rd.), Brookfield, WI and
New Berlin Redi-Mix, Inc., 20500 W Lawnsdale Rd., New Berlin, WI*

- 8:00 a.m. Registration and Continental Breakfast, *Best Western Midway Hotel-Brookfield*
- 8:30 Welcome and Introduction.
- 8:45 Enhancing Strength and Durability of Concrete: Physical, chemical, and mechanical properties of fibers from primary treatment residual solids and reject fibers from pulp & paper mills and de-inking plants; use of residual solids in ready-mixed concrete; mixture proportions for concrete and flowable slurry; and, strength & durability test results.
Tarun R. Naik
- 10:00 Adjourn to the construction demonstration location – New Berlin Redi-Mix.
- 10:30 Construction Demonstration of Structural Concrete Slab-on-Grade with Residual Solids: placement, compaction, finishing, setting and hardening process; and, Questions and Answers
Tarun R. Naik and Steve Pozza, New Berlin Redi-Mix.
- 12:00 p.m. Adjourn

SPEAKER INFORMATION

Tarun R. Naik, Ph. D., P. E., Research Professor and Academic Program Director, UWM Center for By-Products Utilization, University of Wisconsin-Milwaukee. Dr. Naik has many years of experience with cement, aggregates, and 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, etc. He is a member of ACI, ASCE, ASEE, ASTM, RILEM, NSPE, and WSPE and a member of technical committees of ACI, ASCE, ASTM, and RILEM. He has served as a president of Wisconsin-ACI, WSPE, and other organizations.

REGISTRATION INFORMATION

The workshop will be held at the Best Western Midway Hotel-Brookfield, 1005 S. Moorland Rd., Brookfield, WI. The workshop registration fee of \$10.00 includes the cost of workshop registration, handouts, and continental breakfast. Please complete the workshop registration form below and send with your check to Rudi Kraus.

Make checks payable to: UWM-CBU Workshop. You may also register by FAX (414) 229-6958. For more information about UWM-CBU, visit us at: <<http://www.cbu.uwm.edu>>. For additional information 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>.

Refunds and Cancellations:

Program fee is refunded if withdrawal notice is received seven days before the program. Substitutions can be made at anytime.

REGISTRATION FORM

Mail to: Rudolph N. Kraus
UWM Center for By-Products Utilization
3200 North Cramer Street, Room W309
P. O. Box 784
Milwaukee, WI 53201-0784

Registration Fee: \$10.00 by August 18, 2008

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