

**National Ready Mixed Concrete Association
Continuing Education Series**

Energy Performance of Concrete Building Systems

Program Title: Energy Performance of Concrete Building Systems

Program Number: ENE201

Provider Name: National Ready Mixed Concrete Association, or NRMCA resource partner
(usually a state ready mixed concrete association)

Length: 1.5 hour

Credits: 1.5 LU Hours (for architects), 1.5 PDH or 0.15 CEUs (for engineers)

Health, Safety and Welfare: Yes

Learning Objectives: This seminar describes how innovative building systems such as tilt-up walls, insulating concrete form systems, concrete floor and roof systems, and concrete pavements can improve energy performance of buildings. Attendees will learn how thermal mass and insulation are combined to increase effective R-value and reduce air infiltration of the exterior envelopes resulting in lower energy bills and improved occupant comfort. Results of research are reported that compares thermal performance of eleven different structural wall systems: concrete masonry, insulated cast-in-place, insulated concrete forms, and AAC as well as wood and steel frame. The results illustrate the benefits of thermal mass, depending on climatic conditions for most of North America.

Facilitator Qualifications: All NRMCA program facilitators are trained to deliver this program under the AIA/CES guidelines. They have considerable experience in concrete construction and are qualified to provide technical support on design and construction issues.

Delivery options and cost to participants: The cost for this program will vary depending on the method of delivery. There typically is no charge for on-site office presentations, although expense reimbursement is sometimes requested. Some continuing education programs can be delivered with professional learning credits via live Webinars; if onsite learning cannot be arranged, participation fees may be waived for these Webinars. Other methods of delivery including at conferences and association meetings may require a nominal fee.

Audio/Visuals Required: Electricity and a projector screen (the CES facilitator will provide a laptop computer and LCD projector.)

Please note: NRMCA would like see that all professionals interested in these learning programs have the opportunity to participate in them, but we cannot guarantee that onsite presentations can be arranged for all requests.

Contact: Glenn Ochsenreiter
(240) 485-1140
glenn@nrmca.org

