

# Developments in Material Research Destined for the Built Environment

## Chapter Program: Tuesday, October 25, 2016



Construction materials are at the core of our organization, uniting those who sell, design, specify, and assemble them. In the recent past, many advances have been made in material technology and production. Consider the new options for concrete, whether self-cleaning, self-healing, permeable, or printable.

For our October program we welcome Stephen Carr, Ph.D., P.E. as he explores how at Northwestern University ideas for new materials destined for the built environment are imagined and tested through research and development.

### By attending this session, you will understand more deeply:

- How assembly and performance requirements affect the materials chosen for construction.
- What advanced materials are in use today and why.
- What are the research frontiers in materials science and engineering and which ones anticipate developments in construction.
- How opportunities for progress in materials for construction will exploit the progress in materials science and engineering.

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**Continuing Education:** 1.0 AIA/CES LU

**Time:** 5:00 – 5:45 Registration, tabletops, cash bar; 5:45 – 6:30 Dinner; 6:30 – 7:30 Program

**Location:** East Bank Club, 500 N Kingsbury St, Chicago, IL

**Cost:** Chicago CSI Members Complimentary, Nonmembers \$45

**Registration:** Due by October 18, 2016

### Marketing Opportunities: Tabletops to open at 4pm for New Member Reception prior to program.

Tabletops: \$175 CSI Chicago members, \$200 nonmembers. – *Tabletops Sold Out!*

Product Information: \$25 CSI Chicago members, \$35 nonmembers.

To reserve your Tabletop or Product Information spot or for more information please e-mail:

Beth Winkler at [csichicagochapter@gmail.com](mailto:csichicagochapter@gmail.com)

**Parking:** There is parking located under the building, Enter the garage at the main entrance to the Club at 500 N. Kingsbury Street, Chicago. Parking fees are \$5.75 for the first four hours, \$0.50 each additional hour with validated ticket.

**Meeting Cancellation Policy:** Members or nonmembers who are no-shows or cancel after Thursday 5PM are responsible for \$45 fee if the seat cannot be filled.

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## Chapter Program (Cont.)

### Program Speaker:



Stephen H. Carr, Ph.D., P.E.

**McCormick School of Engineering and Applied Science at Northwestern University**

Senior Associate Dean

Professor of Materials Science and Engineering

Professor of Chemical and Biological Engineering

Secretary to the Faculty

Stephen Carr is responsible for McCormick School of Engineering's undergraduate education program, including curricula, courses, and monitoring student progress toward their degrees at Northwestern University. Carr joined the Northwestern faculty in 1969 and is jointly appointed as professor of materials science and engineering and chemical and biological engineering; he holds a courtesy appointment in biomedical engineering. His academic specialties span the areas of synthetic and biological polymers and materials engineering; he now contributes to the literature in engineering education.

He has been a consultant to more than 50 domestic and international companies. He has a BS in chemical engineering from the University of Cincinnati, and a PhD in polymer science from Case Western Reserve University.

Carr's research emphasis is on showing how new polymeric materials can be created by selective control over preparation conditions and microstructure at both the molecular and supramolecular levels.