



The Masonry Society
3970 Broadway, Suite 201-D
Boulder, CO 80304-1135

Attention: Architectural and Engineering Professors

2004 University Professors' Masonry Workshop

A practical Workshop, aimed at helping you now

The University Professors' Masonry Workshop (UPMW) is an excellent forum for professors new to masonry education, and for those who want to enhance existing masonry courses. In this intensive two day workshop you will receive practical materials, unique ideas, professional contacts, and applicable resources to help you teach masonry design and construction effectively.

- Learn about masonry design, construction and materials from your peers and from leading industry representatives.
- Receive a comprehensive packet of resource materials including the workshop binder, technical notes, course outlines, and a number of other valuable guides.
- Try your hand at laying a few brick and block, while observing a masonry construction demonstration.
- Tour the North Carolina State University's 20,000 sq. ft. Constructed Facilities Laboratory (CFL), that is distinguished for its capacity to test large structural systems under a wide variety of environmental conditions.
- Browse through a comprehensive display of teaching resources.
- Attend an optional half-day seminar on either Masonry Building Envelopes or on Strength Design of Masonry.
- Network with your peers and representatives from the masonry industry.

Plan to attend this workshop today! Past attendees are encouraged to come and learn more about masonry.

2004 University Professors' Masonry Workshop

March 7-9, 2004
Raleigh, North Carolina

Hosted by:

NC STATE UNIVERSITY

Sponsored by:

**Brick Industry Association
International Masonry Institute
Mason Contractors Association of America
National Concrete Masonry Association
Portland Cement Association
The Masonry Society**



Brooks Hall, North Carolina State University

2004 University Professors' Masonry Workshop

March 7-9, 2004, North Carolina State University, Raleigh, North Carolina

Now in its 16th year, the University Professors' Masonry Workshop provides professors with the resources and background needed to effectively teach masonry design and construction classes at the university level. As a workshop participant, you'll hear leading professors, practitioners and industry leaders relate the newest ideas in masonry education and research. The workshop features two separate tracks, one for architectural professors and the other for engineering professors, plus numerous joint sessions on masonry materials, design, and construction. You will have the opportunity to try your hand at bricklaying and visit a major structural engineering laboratory. You will also receive a wealth of valuable information and gain helpful contacts as you meet with your colleagues and leading masonry professionals.

If you have already had some success with masonry education, we invite you to bring some slides or overhead transparencies showing what has worked for you, so you can share these experiences with your peers.

About some of the Speakers

J. Patrick Rand, Professor of Architecture at North Carolina State University, is a teacher and practicing architect. Mr. Rand, who has received numerous teaching awards at the university and national levels, will serve as the host for the 2004 UPMW and will lead the Architectural breakout sessions. He will be discussing various educational ideas that have proven successful for him, as well as proper technical design and detailing of masonry.

Roger Cannon, FAIA, is president of Cannon Architects in North Carolina. Projects for which he has had major design responsibility have received more than 30 local and regional design awards, and several projects have been published in Architecture, Architectural Record, and local and regional publications. Mr. Cannon will discuss his recent masonry works during the workshop banquet on Monday evening.

Richard E. Klingner, Professor of Civil Engineering at University of Texas at Austin, is a noted masonry researcher, teacher and consultant, and has authored more than 200 technical articles during his 25-year career. Dr. Klingner will be discussing the code provisions in the *Building Code Requirements for Masonry Structures* (ACI 530/ASCE 5/TMS 402) which are developed by the Masonry Standards Joint Committee, and which he chairs.

W. Mark McGinley, Professor of Architectural and Civil Engineering at North Carolina A & T State University, is a structural engineer and building scientist with over 17 years of research and forensic engineering practice. He is a recognized expert in masonry building systems, and will discuss his successful relationship with the local masonry industry groups, and how such groups can be an excellent resource to educators and researchers.

Robert D. Thomas, Vice President of Engineering at the National Concrete Masonry Association, oversees all aspects of the technical activities of that association. He will discuss the performance attributes of masonry related to topics including fire and sound.

Brian E. Trimble, Regional Director of Market Development and Technical Services for the Mid-Atlantic Region of the International Masonry Institute, is a registered engineer and noted masonry expert with more than 15 years in the industry. He will overview masonry materials.

Phillip J. Samblanet, Executive Director of The Masonry Society, will serve as the workshop facilitator. He is a professional engineer having more than 15 years of experience in masonry design, construction, inspection and evaluation.

Each workshop participant receives the following valuable resources and benefits, plus much more:

- Two days of in-depth presentations and discussion on masonry education, design and construction.
- Two continental breakfasts, two lunches, an evening reception and dinner.
- AIA/CES Learning Units (9 LU hrs), Continuing Education Units (1.3 CEUs) or Professional Development Hours (13 PDHs).
- A one-year membership in The Masonry Society (worth \$120) which includes subscriptions to *TMS News*, *TMS Responds* and *TMS Journal*, and special member prices on conferences, educational seminars, and TMS publications.
- A comprehensive library of teaching aids and technical materials on masonry, including:
 - * TMS's *Annotated Guide to Masonry Specifications*, and *Building Code and Specifications for Masonry Structures* (ACI 530/ASCE 5/TMS 402)
 - * A ready to use PowerPoint presentation on the history of masonry along with a comprehensive set of Masonry Course Notes, both provided conveniently on CD-ROM
 - * BIA's *Technical Notes on Brick Construction and ARCH software*
 - * MCAA's *Masonry Wall Bracing Standard and Hot and Cold Weather Construction Guide*
 - * NCMA's *TEK Manual for Concrete Masonry Design and Construction, Design Software on CD and Annotated Design and Construction Details for Concrete Masonry on CD*
 - * PCA's *College Literature CD and Concrete Masonry Handbook*
 - * A binder full of other assorted materials

About Our Sponsors

The University Professors' Masonry Workshop is made possible through the contributions and cooperation of the leading national masonry associations listed below. In addition, more than 30 local masonry organizations around the country support the workshop by funding the costs of attendance for individual educators in their region. *For more information about being sponsored to attend the 2004 UPMW*, please contact your local masonry organization or one of the national sponsors listed below.



Brick Industry Association
703-620-0010



International
Masonry Institute
800-IMI-0988



Mason Contractors Association
of American
847-301-0001



National Concrete
Masonry Association
703-713-1900



Portland Cement Association
847-966-6200



The Masonry Society
303-939-9700

Program Agenda - 2004 University Professors' Masonry Workshop

Sunday, March 7

Velvet Cloak Inn

Afternoon Session - This afternoon session is especially designed for professors new to masonry education

Registration and Exhibit of Teaching Resources (1:30 - 2:00 pm) Phillip J. Samblanet, The Masonry Society

Introductions and Welcoming Remarks (2:30 - 2:45 pm, King William Room) Phillip J. Samblanet

"Masonry, the First 10,000 Years" - A Sample Introductory Lecture (2:10-3:10 pm).....Richard E. Klingner, University of Texas at Austin

"Why Teach Masonry?" and "Incorporating Masonry into the Curriculum" (3:30 - 4:30 pm)

Architectural Session (Queen Victoria Room)..... J. Patrick Rand, North Carolina State University

Engineering Session (Queen Ann Room)Richard E. Klingner, University of Texas at Austin

Evening Session - This session and the remaining sessions are for all professors, both those new to masonry education and those who teach masonry.

Introductions and Welcoming Remarks to All Attendees (6:00 - 6:15 pm, King Charles Room) Phillip J. Samblanet

The Masonry Industry and The Masonry Society (6:15-6:30 pm)..... Phillip J. Samblanet

Round Table Discussions - Levels of Masonry Education and Teaching Resources* (6:30 - 7:00 pm)

Reception (7:00 – 8:00 pm, Pool Side Atrium)

Monday, March 8

North Carolina State University

Formal Welcome to NCSU (8:00 am, Kamphoefner Auditorium) Thomas Barrie and John Tector, North Carolina State University

"Masonry Materials" (8:30 - 9:40 am) Brian Trimble, International Masonry Institute

"Performance Attributes of Masonry" (10:00 - 11:15 am).....Robert D. Thomas, National Concrete Masonry Association

Masonry Building Demonstration (and lunch) - NCSU's Constructed Facilities Laboratory

11:30 am to 1:30 pm (Casual Dress Recommended)

Concurrent Session (1:30 - 2:45 pm)

"Introduction to the MSJC Code and Specification" (Kamphoefner Auditorium).....Richard E. Klingner, University of Texas at Austin

"Design and Detailing Masonry" (part 1) (Brooks 320 Auditorium) J. Patrick Rand, North Carolina State University

Concurrent Session (3:00 - 4:15 pm)

"Masonry Research and Testing" (Kamphoefner Auditorium) Richard E. Klingner, University of Texas at Austin

"Design and Detailing Masonry" (part 2) (Brooks 320 Auditorium) J. Patrick Rand, North Carolina State University

"How to Work with Your Local Masonry Association" (4:30 - 5:15 pm)..... W. Mark McGinley, North Carolina A & T University

Banquet - Velvet Cloak Inn (King Charles Room)

Roger Cannon, FAIA, Cannon Architects - Recent Works in Masonry

6:30 pm to 9:00 pm

Tuesday, March 9

North Carolina State University

"Materials Laboratory Courses and Other Hands-on Learning Events" (8:00 - 9:30 am, Kamphoefner Aud.).....R. E. Klingner and J. P. Rand

"The Academic/Design Side, and the Contractor/Installation Side" (9:45 - 10:45 am) Doug Burton, Whitman Masonry Inc.

Workshop wrap-up and lunch - Question/Answer/Open Discussion (11:00 am - 12:30 pm)

Optional Seminars (1:00 - 4:00 pm)

"Design of Masonry Building Envelopes"(Kamphoefner Auditorium)..... Robert G. Drysdale

"Strength Design of Masonry" (Brooks 320 Auditorium) Richard E. Klingner

* To ensure we discuss topics of interest to you, we encourage you to bring questions you and your students may have regarding masonry. We look forward to seeing you in Raleigh!

2004 University Professors' Masonry Workshop

The 2004 University Professors' Masonry Workshop will be held at North Carolina State University in Raleigh, North Carolina on March 7-9, 2004. Registration fees include all the educational programs, meals and materials noted in this program flyer. The registration fee does not include hotel accommodations nor transportation (information on the hotel is shown below). In addition, optional seminars are being offered for a small additional fee for those professors wanting to learn more about masonry design.

The Brick Industry Association, the International Masonry Institute, the Masonry Contractors Association of America, the National Concrete Masonry Association, the Portland Cement Association, The Masonry Society and many local groups around the country help sponsor the University Professors Masonry Workshop.

Most attendees at the Workshop are able to obtain sponsorship through a local masonry group to help cover their expenses. If you would like to attend the Workshop, but do not have sponsorship, let us know and we may be able to put you in touch with your local masonry group.

You may mail, fax, call or e-mail your registration to TMS. For further information on the workshop, contact the TMS office at:

THE MASONRY SOCIETY
 3970 Broadway, Suite 201-D
 Boulder, CO 80304-1135
 Phone 303-939-9700
 Fax 303-541-9215
 E-Mail: info@masonrysociety.org

Optional Seminars

The Masonry Society is pleased to offer two optional half day seminars to professors attending the UPMW who wish to learn more about masonry design. These seminars will run concurrently on the afternoon of March 9, 2004 from 1:00 to 4:00 pm.

Design of Masonry Building Envelopes (Optional Seminar 1)

This seminar will help architects and engineers make sound decisions related to masonry building envelopes. Topics covered include thermal and moisture design of masonry buildings, the amount, type, and location of wall insulation, and air and vapor barriers. Design of movement joints of brick veneer and wall drainage systems will also be discussed. Dr. Robert G. Drysdale, co-author of *Masonry Structures, Behavior and Design*, 2nd Edition, will present this informative seminar. Attendees will receive a copy of this text (a \$94.50 value) along with seminar notes.

Strength Design of Masonry (Optional Seminar 2)

This seminar introduced the new Strength Design method for masonry that is included in the Masonry Code, using explanatory slides and practical design examples. This seminar is a natural introduction to the strength design of masonry for those who are familiar with the strength design of reinforced concrete, and would like to extend their design expertise to masonry. Dr. Richard E. Klingner, chairman of the Masonry Standards Joint Committee will present this practical seminar. Attendees receive a copy of the 2002 Masonry Standards Joint Committee's (MSJC) *Building Code Requirements for Masonry Structures* (ACI 530/ASCE 5/TMS 402) (a \$93.50 value) and audience notes.

2004 UPMW Registration and Name Tag Information

Please type or print neatly

First Name _____ Middle name/Initial _____ Last Name _____
 Nickname for Name Tag _____ Do you plan to attend the Architectural or Engineering Sessions? _____
 Institution/Company _____
 Address _____
 City _____ State/Country _____ Zip Code _____
 Phone _____ Fax _____ E-Mail _____

Note: Many professors attend the workshop thanks to the financial sponsorship of local or regional masonry promotion groups*. If you are being sponsored, please indicate which organization is sponsoring you. **If you are not currently sponsored but would like us to try to find a sponsor for you, please note so in the space below.**

Sponsoring Organization _____ Contact _____ Phone No. _____

*All bills and expenses will be your responsibility. You will need to work with your sponsor to either reimburse you or to pay for your registration fees.

Method of Payment

	By Feb. 11, 2004	After Feb. 11, 2004	Amount
UPMW Registration	\$275	\$325	\$ _____
Optional Seminar 1	\$135	\$150	\$ _____
Optional Seminar 2	\$135	\$150	\$ _____
	Total		\$ _____

- Please invoice me (TMS Members only)
 Check enclosed (Payable to TMS in U.S. Dollars)
 Please charge my credit card (VISA/MasterCard only)

Account Number _____
 Expiration Date _____
 Signature _____

Hotel Information

Accommodations have been arranged at the Velvet Cloak Inn, located at 1505 Hillsborough Street in Raleigh, North Carolina. Accommodations are not included in the registration fee. The room rate is \$72 per night single occupancy and \$82 double occupancy. For hotel reservations call 919-828-0333 and request The Masonry Society or University Professors' Masonry Workshop Group Rate (**group rate closes February 11, 2004**).

Getting to the North Carolina State University and the Hotel. North Carolina State University is located in Raleigh, North Carolina. The Velvet Cloak Inn, which is near the University, can be reached from the airport by taxi for approximately \$30.