

A Congress on the Disciplinary Bases and Applications of Computational Mechanics to Science and Engineering for the New Millennium

Application Areas

| | |
|--------------------|------------------------------------|
| Acoustics | Active and passive control |
| Advanced materials | Aging infrastructure & reliability |
| Biomechanics | Combustion |
| Coupled systems | Communications |
| Damage detection | Design, manufacturing & forming |
| Energy systems | Environmental engineering |
| Fluid transport | Geophysics and exploration |
| Geomechanics | Microelectronics and MEMS |
| Structures | Transportation & Vehicles |

Disciplinary Bases

| | |
|--------------------------------|------------------------------|
| Boundary element methods | Computational fluid dynamics |
| Constitutive modeling | Dynamics, shock & vibration |
| Error analysis and adaptivity | Finite element methods |
| Finite volume methods | Integrated CAD systems |
| Inverse problems & system id | Mathematical foundations |
| Mesh generation | Meshless methods |
| Multiphysics | Parallel computation |
| Postprocessing & visualization | Solution algorithms |
| Stochastic mechanics | Thermodynamics & transport |

Local Organizing Committee

- C. Farhat, short course co-organizer
- C. A. Felippa, webmaster
- K. C. Park, social program
- S. Sture and K. Willam, co-chairmen

Scientific Program Committee

| | | | |
|--------------|----------------|----------------|-----------------|
| S. N. Atluri | K.-J. Bathe | T. Belytschko | D. Benson |
| T.A. Cruse | J. Fish | J. E. Flaherty | T. J. R. Hughes |
| W.-K. Liu | A. K. Noor | J. T. Oden | M. Ortiz |
| J. N. Reddy | M. S. Shephard | L. Schwer | R. Spilker |

Abstract Submission and Congress Information

Congress information, including instructions for organizing sessions and submitting one-page abstracts by e-mail, is posted at the Web site <http://civil.colorado.edu/usnccm99>

Congress e-mail: usnccm99@colorado.edu

Congress address: USNCCM99, CEAE Department, CB 428
University of Colorado at Boulder
Boulder, CO 80309-0428, USA
Fax: (303) 492-7317

Important dates

| | |
|---|------------------|
| Deadline for abstract submission: | January 15, 1999 |
| <i>All abstracts must be submitted electronically</i> | |
| Notification of acceptance: | March 15, 1999 |
| Abstracts in final form: | May 15, 1999 |
| Early registration: | June 15, 1999 |

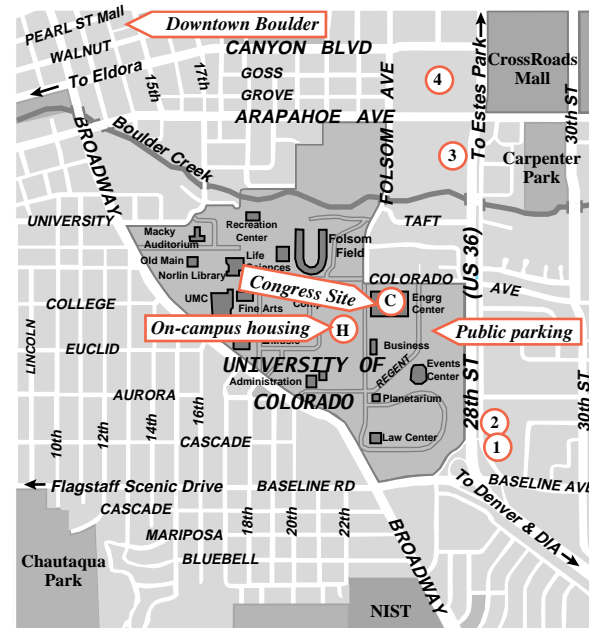
Several thematic multiple-session Minisymposia are being organized. They are listed on the other side of this brochure and at the Web site.

Participants interested in contributing to a Minisymposium should contact organizers directly by e-mail.

Conference Registration Fees

| | | |
|--------------|------------------|---------------------|
| | by June 15, 1999 | after June 15, 1999 |
| Participant: | \$350 | \$430 |
| Students: | \$75 | \$125 |

The Participant fee includes a 2-year membership in USACM and IACM (worth \$50), one set of printed Proceedings, the banquet, receptions and breaks. The Student fee includes receptions, breaks, the banquet, and one set of printed Proceedings.



Local Accommodations

Off-campus lodging will be available at four conference hotels within walking distance of the conference site: ① Best Western Boulder Inn, ② Holiday Inn, ③ Regal Harvest House, and ④ Boulder Marriott. See map above for locations. For information on blocked reservations, price ranges, additional hotels and conference parking, see the conference Web site. For on-campus residence-hall housing, a reservation form will be posted on the Web site.

Post Conference Short Course

Saturday August 7, 1999

Speakers and Topics

| | |
|----------------|-----------------------------------|
| T.J.R. Hughes: | Stabilized Finite Element Methods |
| M. Ortiz: | Computational Micromechanics |
| C. Farhat: | Domain Decomposition |

Fee: \$120 for conference participants, \$60 for students
Course notes to be provided

For more information and course information updates see the Congress Web page, or contact the course organizers:

- Charbel Farhat at charbel@alexandra.colorado.edu
- Jacob Fish at fishj@rpi.edu

Please refer to Web site for updated registration form

Social Program

Boulder is located near the Denver metropolitan area and close to major recreation areas in the scenic Rocky Mountains. A social program for participants and spouses is under preparation. Events and fees will be posted on the Web site.