

## Currentl y P lanned Mini-Symposia (cont.)

### Advances in Computational Modelling & Characterisation of Advanced Composites

Shaker A. Meguid

### Geotechnical Engineering/Geotechnical Earthquake Engineering Applications

Takaaki Kagawa

### Proposed Standard for Verification & Validation

Len Schwer

### Advances in Boundary Element Methods

Yijun Liu, Leonard J. Gray, S.T. Raveendra

### Turbulence Simulation

Ken Jansen

### Challenges and Advances in Flow Simulation and Modeling

Tayfun Tezduyar

### Computational Multibody Dynamics

Jean Heegaard

### Boundary Element Methods, Optimization

Richard Dippery, Bob Adey, Gary Vanderplaats

### Discontinuous Galerkin Methods, Parallel Adaptive Methods

Joe Flaherty

### Computational Failure Mechanics

Kaspar Willam

### Multiscale Methods in Field Theories of Mechanics

Krishna Garikipati, Young Huang

### Computational Methods for Analysis and Design of Microsystems

Narayan Aluru, Krishna Garikipati

### Computational Mechanics of Sharp Fronts and Interfaces

John Dolbow, Tod Laursen

### Stabilized and Multiscale Finite Element Methods

Arif Masud, Tom Hughes, Leo Franca

### Hierarchical Modeling of Biological Tissues, Image-Based Modeling of Biological Tissues, Computational Analysis and Design for Tissue Engineering and Tissue Processes

Scott Hollister

### Methods and Applications in Coupled Engineering Simulations

Carol Hoover, Bob Ferencz

### Free Surface Flow Simulation, Computational Hemodynamics

Marek Behr

### Inverse Problems in Mechanics

Lorraine Olson

### Computational Methods for Adaptive Structures and MEMS

Loc Vu-Quoc

### Simulation in Microelectronics: Manufacturing and Performance

Antoinette Maniatty

### High Performance Computing and Computational Structural Mechanics

Raju Namburu, A.M. Rajendran

### Contact and Impact

Panos Papadopoulos

### Modern Issues in Computational Micromechanics

J. Tinsley Oden, Peter Wriggers, Tarek Zohdi

### Tire Modeling, Vehicle Dynamics Simulation

Ric Mousseau

### Computational Fracture & Damage Mechanics

Sharif Rahman, Anthony R. Ingraffea

USNCCM VI  
Mechanical Engineering Department  
University of Michigan  
2250 G.G. Brown Building  
2350 Hayward Street  
Ann Arbor, MI 48109-2125 USA



## Announcement and Call for Abstracts

# USNCCM VI

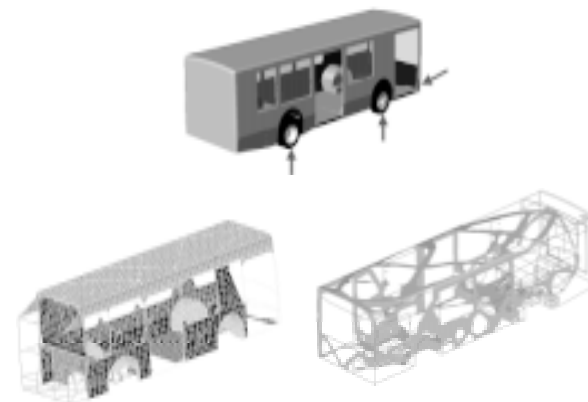
## SIXTH U.S. NATIONAL CONGRESS ON COMPUTATIONAL MECHANICS

August 1-3, 2001

### Post-Congress Short Course

August 4, 2001

Hyatt Regency Dearborn  
Dearborn, Michigan



USNCCM VI  
Sixth U.S. National Congress  
on Computational Mechanics  
August 1-4, 2001

Official Congress of the U.S. Association  
for Computational Mechanics

an affiliate of the

International Association for  
Computational Mechanics

## Background and Scope

As modeling and simulation play increasingly more important roles in both traditional and emerging technologies and industries, the USNCCM has grown in both the number and breadth of participants and presentations. Since the first USNCCM, held in 1991, the Congress has developed into an international event, with active participation from computational mechanics researchers worldwide. The USNCCM VI will continue this international tradition, particularly as the Congress is located in the heartland of the U.S. automotive and manufacturing industries. Diverse mini-symposia are planned, e.g., application domains from geomechanics, modeling and simulation in the automotive industry, nanomechanics and molecular mechanics. The symposia also range from applied mathematics to industrial application of computational mechanics. Thus, the USNCCM VI will cover a wide, international spectrum of fundamental research in, and practical application of, computational mechanics.

Complete details of the USNCCM VI can be found at:

<http://www.usnccm.org>

## Location

The USNCCM VI will be held at the Hyatt Regency Dearborn Hotel. The Hyatt Regency Dearborn is conveniently located within 9 miles of the Detroit Metro International Airport.

## Accommodation

The organizers have arranged block room reservations at the Hyatt Regency Dearborn. The special room rates for the USNCCM are:

Single Occupancy:	\$125.00
Double Occupancy:	\$125.00
Triple Occupancy:	\$150.00
Quadruple Occupancy:	\$175.00
Business Plan (extra charge):	\$20.00

Bus images courtesy of Altair Engineering, Inc.

## Important Dates

Deadline for abstract submission	January 31, 2001
Acceptance of abstract and instructions for final abstract format	March 15, 2001
Deadline for submitting the final print-ready abstract	May 31, 2001
Deadline for early registration	June 15, 2001
Cut-off date for Hyatt Regency USNCCM room rate	July 9, 2001

## Abstract Submission

For each presentation, a preliminary abstract is to be submitted. The abstract must contain

presentation title  
author name(s)  
contact information for corresponding author:  
mailing address  
e-mail address  
summary of presentation content

The preliminary abstract should not exceed 3 pages as the final print-ready abstracts cannot exceed 1 page. Figures and references are permitted. The preferred format of the abstract is Adobe PDF; alternate formats include LaTeX, Word and plain text.

## Congress Registration Fees

	Early (by June 15, 2001)	Late
Participant:	\$360	\$450
Student:	\$100	\$130

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

## Post-Congress Short Course

**Saturday August 4, 2001**

### Topics

Meshless Methods  
Design Optimization

### Fee

Participants: \$125.00  
Students: \$75.00

The fee includes course notes, breaks and lunch.

## Organizing Committee

### General Chair

G. M. Hulbert, Mechanical Engineering Department, University of Michigan

### Technical Program Co-Chair

J. S. Chen, Mechanical Engineering Department and Center for Computer-Aided Design, University of Iowa

### Technical Program Co-Chair

Noboru Kikuchi, Mechanical Engineering Department, University of Michigan

### Local Organizing Committee

Krishna Garikipati, University of Michigan  
Karl Gosh, University of Michigan  
Ann Marie Sastry, University of Michigan  
Ric Mousseau, University of Toledo  
Ren-Jye Yang, Ford Motor Company

### Scientific Program Committee

T. Belytschko, Northwestern University  
E. P. Chen, Sandia National Laboratory  
K. Chong, National Science Foundation  
T. A. Cruse, Vanderbilt University  
C. Farhat, University of Colorado-Boulder  
J. Fish, RPI  
J. E. Flaherty, RPI  
S. Ghosh, Ohio State University  
F. Huck, Caterpillar, Inc.  
T. J. R. Hughes, Stanford University  
W. K. Liu, Northwestern University  
J. T. Oden, University of Texas-Austin  
M. S. Shephard, RPI  
C. L. Wu, Ford Motor Company

## Currently Planned Mini-Symposia

### Symposium on Meshfree Methods

J.S. Chen, Antonio Huerta, Mark Christon, Hirohisa Noguchi, Wing-Kam Liu, Ted Belytschko

### Crashworthiness and Impact Engineering

Shen Wu, Cliff Chou

### Symposium on Computational Mechanics Education

N.J. Salamon

### Finite Elements for Wave Problems

Dan Givoli, Isaac Harari

### Advances in Software Technology for Computational Mechanics

Ottmar Klaas, Mark Shephard

### Symposium on Design Optimization Applications in Industry

Ren-Jye Yang, Mark E. Botkin

### 3rd Symposium on Unstructured Mesh Generation

Mark Shephard, Steven J. Owen, Sunil Saigal, Kenji Shimada

### Nano and molecular mechanics

Ted Belytschko

### Computational Nanomechanics

Paul Barbone, Harley Johnson

### Material Processing

Pan Michaleris

### Geotechnical Applications

Stein Sture, Boris Jeremic