

Announcement and Call for Papers

Symposium on Crashworthiness and Impact Engineering

Sixth US National Congress On Computational Mechanics

Dearborn, Michigan USA
August 1-4, 2001

Symposium Organizers
Dr. Shen R. Wu
Dr. Clifford C. Chou

In recent years, crashworthiness and impact engineering have become an emerging technology in computational mechanics. Strong nonlinearity, transient dynamics, contact/impact, and extensive computation are few exemplary challenges in this area. Nowadays, engineering computation has played a major role in product designs and manufacturing processes driven by occupant safety and product reliability requirements. It is essential to keep abreast of continued progress in theoretical and applied researches pertaining to methods/techniques dealing with computational accuracy, robustness and efficiency.

The symposium on crashworthiness and impact engineering at the 6th USNCCM aims to promote technical exchanges, establish networking for enhanced communications, and seek for collaborations among the academic researchers, software developers, and industrial engineers in this field. They are strongly encouraged to submit their recent developments of mathematical theories, mechanical models, numerical technologies, computer architectures, and computational methods, etc. to this symposium.

Main Topics of Interest, but not limited by

- Error analysis, stability and convergence
- Contact algorithm(s)
- New plate/shell formulation
- H, p, or hp adaptive methods

- Transient response and frequency analysis
- Variational formulations and integration schemes
- Non-linear material modeling
- Dynamic fracture and damage modeling
- Dynamic buckling and post-buckling analysis
- Parallel computation and software development
- Computation aided design of crashworthy structures
- Applications of stochastic and optimization techniques in crash analyses

If you are interested in contributing to this Symposium, please submit the abstract to the symposium organizers Shen Wu (swu@ford.com) or Clifford Chou (cchou@ford.com) so that sessions can be planned accordingly.

This symposium is sponsored by the USACM Committee on Crashworthiness and Impact Engineering

Symposium Organizer

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Conference Web Site

Instructions to authors, registration information, important dates and other relevant details are provided at the conference web site: <http://www.usnccm.org>

Electronic Submission of Abstracts

If you are interested in contributing to this Symposium, please submit your abstract electronically, or mail to Dr. Shen R. Wu or Dr. Clifford C. Chou before *January 31, 2001* at the address provided in the contact information. Please follow the style provided below.

Format of Abstracts

Abstracts must not exceed two pages except with prior permission of the organizer.

<i>Paper Size</i>	A4
<i>Margins</i>	Top 0.75"; Bottom 0.75"; Left 1.00" Right 0.75"
<i>Font</i>	Times New Roman
<i>Titles</i>	16 point, Bold
<i>Authors Names</i>	12 point, bold
<i>Text</i>	12 point
<i>Superscripts/Subscripts</i>	9 point
<i>Justification</i>	Full

Important Dates

January 31, 2001	Deadline for submission of individual abstracts
March 15, 2001	Notification of abstract acceptance
May 31, 2001	Abstract due in final form for printing
June 15, 2001	Deadline for early registration

Contact Information

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