
Associated Multiphysics Events:

Past:

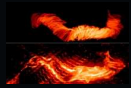


1-3 July 2011
Marseille, France
SimBio-M : Simulation for Bio-Mechanics, Material, Medical, Molecule
<http://www.simbio-m.com/>

Future:



October 2012
Germany
First NAFEMS European Conference on Multiphysics
<http://www.nafems.org/mp2012>



24-26 September 2012
Caracas, Venezuela
The Second Latin American and Caribbean Conference on Theoretical and Applied Mechanics
<http://eventos.saber.ula.ve/eventos/conferen ceDisplay.py?confId=203>



13-14 June 2012
Oslo, Norway
ColdTech Workshop
<http://hntc.hin.no/>

If you are interested in organising an associated event with The International Society of Multiphysics please contact the Society coordinator.

Multiphysics Student Award:

The Multiphysics Student Award provides students with the opportunity to showcase their work within the Multiphysics domain. The students will need to attend the conference where their work will be judged by a panel of experts in the field of Multiphysics research.

The students' work may be presented on any relevant subject encompassing a Multiphysics approach. Participation is open to all full-time undergraduate and postgraduate students pursuing a degree in an engineering or scientific discipline.

The International Society of Multiphysics welcomes all students and encourages them to participate in this competition by submitting an Abstract of your proposed presentation and accompanying paper.

The winner will be selected based on submitted abstract or poster which will be presented to an audience of industry professionals, researchers and exhibitors in attendance.

The winning finalist, who will be selected and announced during the course of the conference, will be presented with a certificate; and the winning paper, will be published in The International Journal of Multiphysics.

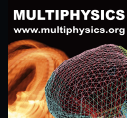
Winners of past Multiphysics Student Awards are:

2009: H. A. Khawaja, University of Cambridge, UK
Finite Element Analysis of Human Femur

2010: M. Shibuta, Kumamoto University, Japan
The Design of Rice Powder Production Vessel and the Pulverization of the Rice Using Numerical Simulation

Membership and Contact:

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The Coordinator
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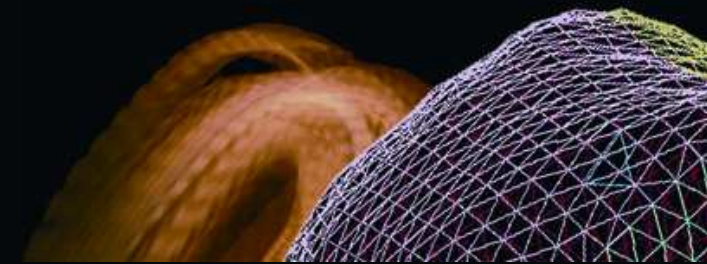


MULTIPHYSICS
The international Society of Multiphysics

The International Society of MULTIPHYSICS

Newsletter 2011

www.multiphysics.org



Multiphysics analysis has been developed over the recent past to better represent the behaviour of complex processes by the use of simultaneous modelling of a number of systems. This development is driven by the industrial need to further the understanding of real physical phenomena in order to develop and design safer and more efficient products which are environmentally friendly.

Such analyses and investigations were impossible to perform a number of years ago due to a lack of powerful computing systems. However, the advances in computer hardware have led to more sophisticated investigations brought about by increased computation speeds. Since this has been accompanied by new software packages which exploit the improved architecture of new generation microprocessors, there have been dramatic improvements in coupling of many mathematical simulation techniques. Many research establishments are comparing the results of such studies with experimental tests to improve modelling accuracy and validate the processes for future certification.

There is now a number of large science and engineering communities whose research is being customised towards Multiphysics analytical and simulation methods in order to save costs and reduce time to market with the use of rapid prototyping.

The International Society of Multiphysics:

The International Society of Multiphysics will act as a focus for studies, which demand simultaneous addressing of hitherto separate physical disciplines and combining them to generate relational mathematical models and validate them with controlled experiments to enhance the understanding of natural behaviour with a view to improving the quality of lives and promote an environmentally sustainable future.

The aim of the society is to enable all those interested in Multiphysics to discuss and disseminate the most up-to-date research findings for purposes of product and process improvements. This will encompass maximisation of Multiphysics dialogue across national borders at all levels, collaboration between researchers, institutions, industry and governments, and development of curriculum for the higher education sectors worldwide.

The objective is to be recognised by all relevant agencies, as a society which promotes the integration of multi-disciplinary sciences and contributes to the future needs of scientific advancement.

The International Journal of Multiphysics:

The International Journal of Multiphysics publishes peer-reviewed original research articles, review papers and communications in the broadly defined field of Multiphysics.

The emphasis of this journal is on the theoretical development, numerical modelling and experimental investigations that underpin Multiphysics studies.

Articles will include fundamental developments as well as industrial applications.

Special Editions:

2011: Multiphysics Simulations - Advances Methods for Industrial Engineering: Selected Contribution from 1st Fraunhofer Multiphysics Conference ISBN 978-1-907132-36-0

2012: Special Issue on 'Marine Applications of Composite Structures and materials'. Guest Editors: Prof. Young Kwon (US Naval Postgraduate School) Navy and Dr. Yapa Rajapakse (US Office of Naval Research)

The International Conference of Multiphysics:

The objective of the conference is to share and explore findings on mathematical advances, numerical modelling and experimental validation of theoretical and practical systems in a wide range of applications.

The scope of the conference is to address the latest advances in theoretical developments, numerical modelling and industrial application which will promote the concept of simultaneous engineering. Typical combinations would involve a selection from subject disciplines such as Acoustics, Electrics, Explosives, Fire, Fluids, Magnetic, Soil, Structures and Thermodynamics.

In the past Multiphysics Conferences have been organised in Maribor-Slovenia, Manchester-UK, Narvik-Norway, Lille-France, and Kumamoto-Japan. The researcher from all around the world participated in these events. Organisers and management committee present their thanks to all attendees for making these events successful.

This year Multiphysics Conference is being held in Barcelona, Spain on 15-16 Dec 2011.

MULTIPHYSICS 2012 will be held in Lisbon, Portugal on 13-14 Dec 2012. Authors are invited to submit abstracts for presentation at the event.

If you are interested in organising the conference in your country or would like to develop a special session in future conferences please contact the Society coordinator.

MULTIPHYSICS 2012
13-14 December 2012
Lisbon, Portugal

