ICTAM 2016
MONTRÉAL

24th International Congress of Theoretical and Applied Mechanics

Palais des congrès, Montréal, Canada

August 21 – 26, 2016

First Announcement and Call for Abstracts

IUTAM International Union of Theoretical and Applied Mechanics

Official IUTAM Congress

www.ictam2016.org

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MARK YOUR CALENDARS!

J.M.Floryan
President, 24th ICTAM

Every four years, the mechanics community from around the world gathers at the Congresses organized under auspices of the International Union of Theoretical and Applied Mechanics (IUTAM) to discuss science, strengthen relationships, and marvel at the ever-growing applications of this discipline. Following the 23rd IUTAM Congress in Beijing in 2012, Canada will have the pleasure of hosting the 24th Congress in Montréal from **21–26 August 2016**.

ICTAM 2016 will take place at the vast Palais des congrès situated in the heart of downtown Montréal, one of the most multi-cultural and exciting cities in North America. Numerous hotel rooms and dormitories have been secured within an easy walking distance from the Palais and we will be in close proximity to great shopping, museums and multitude of restaurants to suit any taste. Furthermore, our venue borders the Old Port, one of Montréal's top tourist attractions.

On behalf of the Local Organizing Committee and the IUTAM Congress Committee, I would like to extend my warmest invitation for you to join us in Montréal. In addition to enjoying the great scientific program that will be put together by the International Program Committee, you will strengthen ties with old friends and colleagues while making new connections. The richness of Montréal's famous nightlife provides a great opportunity for exciting after-lecture socializing and the city itself is a perfect jumping-off point from which to explore and discover some of Canada's most astounding natural environments either before or after the Congress.

Mark your calendars today!

We look forward to welcoming you to Montreal in the summer of 2016.

Scientific Program

Plenary Lectures

Opening Lecture:

W. Richard Peltier (U. Toronto)

Closing Lecture:

Norman A. Fleck (U. Cambridge)

Prize Lectures:

Batchelor Prize Lecture
Hill Prize Lecture

Sectional Lecturers in Fluids:
John Bush, Tim Colonius, Anette Hosoi, Alex Smits, Eberhard Bodenschatz, Javier Jimenez

Sectional Lecturers in Fluids-Solids:
Charbel Farhat, George Haller, Haiyan Hu

Sectional Lecturers in Solids:
Peter Hunter, Samuel Forest, John Rogers, Basile Audoly, Daining Fang, Zhigang Suo, Patrick Onck

Minisymposia:

Bypass Transition:
Bruno Eckhardt, Michael Graham

Fluid Active Matter:
Eric Lauga, Roman Stocker

Multiphase Flow in the Processing Industry:
Patrick Anderson, Staffan Lundström

Nonlinear Dynamics of Engineering Systems:
Giuseppe Rega, Dick van Campen

Soft Solid Active Matter:
Vikram Deshpande, Zhigang Suo

Topology Optimization:
Ole Sigmund, Fred van Keulen

Thematic Sessions

Fluids Topics

- FM01 Biological Fluid Mechanics
- FM02 Boundary Layers
- FM03 Combustion and Flames
- FM04 Compressible Flow
- FM05 Convection
- FM06 Drops, Bubbles and Multiphase Flows
- FM07 Flow Instability and Transition
- FM08 Flow in Thin Films
- FM09 Geophysical and Environmental Fluid Dynamics
- FM10 Low Reynolds Number Flow
- FM11 Micro- and Nano-fluidics
- FM12 Non-Newtonian and Complex Fluids
- FM13 Computational Fluid Dynamics
- FM14 Turbulence
- FM15 Vortex Dynamics
- FM16 Waves in Fluids
- FM17 Other Topics in Fluid Mechanics

Solids Topics

- SM01 Biomechanics and Biomaterials
- SM02 Contact and Friction
- SM03 Damage Mechanics
- SM04 Elasticity
- SM05 Fracture Mechanics
- SM06 Geophysics and Geomechanics
- SM07 Impact Mechanics and Wave Propagation
- SM08 Multi-component Materials and Composites
- SM09 Phase Transformations and Thermomechanical Phenomena
- SM10 Sizescale Effects in Materials
- SM11 Multibody and Vehicle Dynamics
- SM12 Nanostructures and MEMS
- SM13 Plasticity, Viscoplasticity and Creep
- SM14 Stability of Structures
- SM15 Computational Solid Mechanics
- SM16 Vibrations and Control of Structures
- SM17 Other Topics in Solid Mechanics

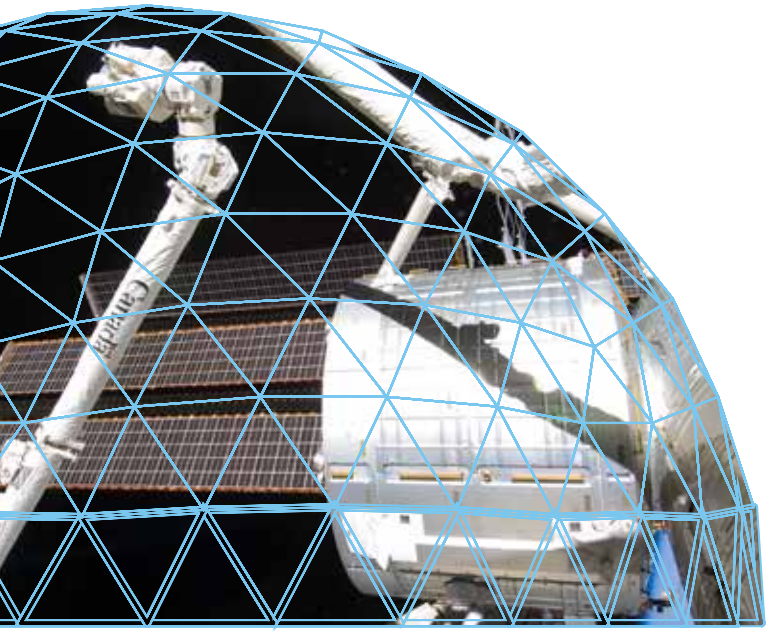
Solids/Fluids Topics

- FS01 Acoustics
- FS02 Exascale Computing
- FS03 Experimental Methods in Mechanics
- FS04 Chaos and Pattern Formation
- FS05 Porous Media
- FS06 Fluid Structure Interactions
- FS07 Actuating and Smart Materials
- FS08 Granular Materials and Flows
- FS09 Foams and Cellular Materials
- FS10 Education in Mechanics

Call for Abstracts

Canada is a bilingual country, speaking English and French. While services at this Congress are provided in both official languages, the Scientific Program component will be presented in English only.

Authors are invited to submit an abstract in English to be considered for oral or poster presentation as part of either the thematic sessions or the mini-symposia at ICTAM 2016. The deadline for submission of abstracts is January 15th, 2016. Authors will be asked to submit abstracts using an online abstract submission link.



Submission Period:
September 4th, 2015 – January 15th, 2016

Language of Submission:
All abstracts must be submitted in English with accurate grammar and spelling suitable for publication.

Abstracts Submission Limit:
Generally, only one (1) abstract submission per submitter will be permitted. The exception is that authors submitting to FS10, Education in Mechanics will also be permitted to submit one (1) other abstract to another thematic session. Abstracts have a maximum length of two (2) pages.

Presenting Author:
The same presenting author (oral or poster) cannot be assigned to more than one (1) abstract but can be included as co-author on more than one submission.

Submission of an abstract constitutes the commitment of at least one author to register for the Congress and present their work either orally or through a poster. Expenses associated with the preparation, submission and presentation of the abstract are the responsibility of the author/presenter.

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Important Dates

September 4, 2015:	Call for Abstracts opens
January 15, 2016:	Deadline for Submission of Abstracts
April 30, 2016:	Notification of Acceptance
May 6, 2016:	Early Bird and Author Registration Deadline
August 21, 2016:	Congress Opens

If you would like to receive the latest information on ICTAM 2016 as it becomes available, please visit **www.ICTAM2016.org** and register your Expression of Interest today. If you have questions, please do not hesitate to contact us at:

Tel: + 1 (613) 993-9495
Fax: +1 (613) 993-7250
Email: ICTAM2016@nrc-cnrc.gc.ca