

ABOUT BUENOS AIRES

Old and new, typical and multifaceted, Buenos Aires vibrates in its streets. Owner of an architecture which combines the past and the vanguard, the capital city of Argentina motivates those who walk along its big boulevards, riverside promenades, parks and squares, stoned streets. Guests may enjoy the tireless night life which guarantees different proposals all along the week; modern and typical bars; neighborhoods which keep their soul; first-level cuisine; sport events; the bohème; the design; commercial circuits and a highly wide cultural offer which makes Buenos Aires to be well-known as the Cultural Capital of Latin America.

This cosmopolitan city, which changes day in day out at Tango rhythms, takes our breath away in each of its corners. Try Argentine food (barbecue) and wine, learn about the history, culture, and language of the country, and most of all meet interesting people in a fun, relaxed, and social environment.



ORGANIZERS



International Center for Numerical Methods in Engineering (CIMNE), Spain.
www.cimne.com



By initiative of the Argentinean Association for Computational Mechanics (AMCA) Argentina.
www.amca.org.ar



With the Support of the Buenos Aires Convention Bureau and CIMNE-Latin American Foundation (FCL)



The hall of the Buenos Aires Hilton Hotel where PANACM 2015 will take place.

PANACM 2015

1st. Pan-American Congress on Computational Mechanics
An IACM Special Interest Conference

Buenos Aires

27-29 April, 2015

In conjunction with:
The XI Argentine Congress on Computational Mechanics, MECOM 2015



<http://congress.cimne.com/PANACM2015>

ABOUT PANACM

The International Association for Computational Mechanics -IACM- beside the World Congresses organizes regional meetings to promote Computational Mechanics in different world areas. Well-known regional congresses on Computational Mechanics are the Asian-Pacific Congress on Computational Mechanics -APCOM- and the European Congress on Computational Methods in Applied Sciences and Engineering -ECCOMAS-. The American Region (including the three Americas) have not had until now an IACM regional congress. For this reason, the Presidents of the National Associations in America affiliated to the IACM decided to start with a new series of Pan American Congresses on Computational Mechanics- PANACM. The Congress will be organized every 3 years and it will coincide with the WCCM when this event takes place in the American region. The first PANACM will take place in Buenos Aires in April 2015.

The purpose of the PANACM series is to promote achievements in Computational Mechanics in the Americas by encouraging young researchers, stimulating education in universities, disseminating modern trends in the field amongst scientists and engineering and mainly, facilitating the interchange of knowledge between the north and the south.

PANACM 2015 will feature during 3 days over 500 international presentations in 12 parallel tracks plus 20 Plenary and Semi-Plenary Lectures delivered by the most prominent leaders in the growing field of Computational Mechanics.



Puerto Madero neighborhood

The old district of “La Boca”



The Avenida 9 de Julio



ORGANIZING COMMITTEE

Sergio Idelsohn – Chairman
Victorio Sonzogni (Argentina)
Alvaro Coutinho (Brazil)
Marcela Cruchaga (Chile)
Adrian Lew (USA)
Miguel Cerrolaza (Venezuela)

SUPPORTING ASSOCIATIONS

PANACM 2015 is supported by the following IACM American Associations

-Asociación Argentina de Mecánica Computacional (AMCA)
-Asociación Mexicana de Modelación Numérica e Ingeniería (AMMNI)
-Brazilian Association for Computational Methods in Engineering (ABMEC)
-Colombian Association for Numerical Methods in Engineering and Applied Sciences (ACMENICA)
-Sociedad Chilena de Mecánica Computacional (SCMC)
-U.S. Association for Computational Mechanics (USACM)
-Venezuelan Society for Numerical Methods in Engineering (SVMNI)

PROVISIONAL REGISTRATION FEES (expressed in USD)

Delegates	Early: USD 500	Late: USD 600
Undergraduate Students	Early: USD 350	Late: USD 450

IACM members will have a 5% deduction on the delegate fees.

The delegate registration fees cover:
Admission to all scientific sessions
Coffee breaks, welcome cocktail and banquet
Conference Proceedings

IMPORTANT DATES

Deadline for presenting a one page abstract:	November 29, 2014
Acceptance of the contributions:	January 31, 2015
Final abstract submission and early payment:	February 28, 2015

INTERNATIONAL SCIENTIFIC COMMITTEE

The following specialists have accepted to be part of the International Scientific Committee:

Enrique Alarcón, Spain	Michal Kleiber, Poland
José Luis D. Alves, Brazil	Seiichi Koshizuka, Japan
Olivier Allix, France	Trond Kvamsdal, Norway
Eduardo de Arantes e Oliveira, Portugal	Pierre Ladevèze, France
Ferdinando Auricchio, Italy	Adrian Lew, USA
Tadeusz Burczynski, Poland	Gui-Rong Liu, Singapore
Gustavo Buscaglia, Brazil	Wing Kam Liu, USA
Alberto Cardona, Argentina	Paulo R. M. Lyra, Brazil
Manuel Casteleiro, Spain	Herbert A. Mang, Austria
Diego Celentano, Chile	Nicolas Moës, France
Miguel Cerrolaza, Venezuela	Miguel Angel Moreles, Mexico
Miguel Cervera, Spain	Carlos A. Mota Soares, Portugal
José César de Sá, Portugal	Fermin Navarrina, Spain
Jiun-Shyan Chen, USA	J.Tinsley Oden, USA
Ignacio Colominas, Spain	Roger Ohayon, France
Alain Combescure, France	Xavier Oliver, Spain
Alvaro Coutinho, Brazil	Eugenio Oñate, Spain
Marcela Cruchaga, Chile	Janusz Orkisz, Poland
Elias Cueto Prendes, Spain	Michael Ortiz, USA
Massimo Cuomo, Italy	Roger Owen, UK
René De Borst, Netherlands	Manolis Papadarakakis, Greece
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Manuel Doblaré, Spain	Paulo Pimenta, Brazil
Eduardo N. Dvorkin, Argentina	Olivier Pironneau, France
Guillermo Etse, Argentina	Ekkehard Ramm, Germany
Charbel Farhat, USA	Ernst Rank, Germany
Gray Farias Moita, Brazil	J.N. Reddy, USA
Carlos Felippa, USA	Carlo Sansour, UK
Jacob Fish, USA	Bernhard Schrefler, Italy
Rafael Gallego, Spain	Victorio Sonzogni, Argentina
Blas Galvan, Spain	Erwin Stein, Germany
Somnath Ghosh, USA	Paul Steinmann, Germany
Dan Givoli, Israel	João A.T. de Freitas, Portugal
Roland Glowinski, USA	Kenjiro Terada, Japan
Jose M ^a Goicolea, Spain	Tayfun Tezduyar, USA
Marcela Goldschmit, Argentina	Somasundaram Valliappan, Australia
Isaac Harari, Israel	Wolfgang Wall, Germany
Antonio Huerta, Spain	Peter Wriggers, Germany
Thomas J. R. Hughes, USA	Walter Wunderlich, Germany
Sergio Idelsohn, Spain	Genki Yagawa, Japan
Kazuo Kashiyaama, Japan	Ming-Wu Yuan, China
	Tarek Zohdi, USA

CONGRESS FORMAT

The congress will host **20 PLENARY and SEMI-PLENARY LECTURES** and some **500 papers** scheduled in 12 parallel sessions.

The Congress will start on Monday April 27 and will finish with the Banquet on Wednesday April 29. For this reason, the participants are encouraged to stay in Buenos Aires until Thursday 30.

MINISYMPOSIA will be organized in the following topics (the list is not exhaustive)

Artificial Intelligence and Expert Systems ; CAD, CAM and CAE ; Adaptive Materials Systems ; Structures and Smart Materials ; Advances in Composite Machining ; Biomechanics ; Ice Mechanics ; Damage Mechanics ; Dynamic Failure and Fracture ; Engineering Sciences and Physics ; Environmental Science ; Fluid Mechanics ; Geomechanics ; Ice Mechanics ; Infrastructures and Aging Structures ; Inverse Problems and Optimization ; Materials Science ; MEMS and Bio-MEMS ; Methods in the Life Sciences ; Microtribology and Micromechanics ; Nanotechnology ; NDE and Wave Propagation ; Nonlinear Dynamics ; Polymers and Polymer Composites ; Solid and Structural Mechanics ; Computer Simulation of Processes and Manufacturing ; Data and Signal Processing ; Meshless and Wavelet Methods ; Multiple-Scale Physics ; Parallel Computing ; Scientific Visualization ; Uncertainty and Stochastic Analysis

PLENARY LECTURES

The following specialists confirmed their participation as plenary lecturers: Klaus Jurgen Bathe, Luis Caffarelli, Charbel Farhat , Tom Hughes, Eugenio Oñate, Olivier Pironneau, Ekkehard Ramm and Peter Wriggers.

SOCIAL PROGRAM

Congress Events

A Welcome Reception will be held on Monday April 27 evening at the Hilton Hotel. The Congress Banquet will be held in a typical Tango restaurant in the evening of Wednesday April 29.

Accompanying person program

A tourism program for accompanying persons will include:

-City Tour, including San Telmo, one of the oldest districts of the City, and the lovely Caminito, a genuine outdoor museum gathering painters, musicians, dancers, living statues and street works.

-Tango lessons (music born in Buenos Aires) taught by local experts

-Cultural Visits to museums

-Guided tour of the Colon Theatre, considered as one of the best five Opera houses in the world, with exceptional acoustics.

PANACM 2015 SECRETARIAT

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REGISTRATION AND ABSTRACT SUBMISSION

Authors are invited to submit contributions on any of the Congress topics. For full details about registration and abstract submission please go to: ***<http://congress.cimne.com/PANACM2015>***

CONGRESS LOCATION

The Conference will take place at the Buenos Aires Hilton Hotel, located in the heart of the trendy fashion Buenos Aires known as Puerto Madero, right in the city center. An important number of rooms have been booked at a special rate for PANACM participants in the same Hilton Hotel where the Congress will take place.

