



# ENIEF'2004

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## XIV Congress on Numerical Methods and their Applications

### ENIEF Conferences on the Rise!

Attendance and scientific quality are rising steadily in ENIEF conferences. The fourteenth edition took place in beautiful San Carlos de Bariloche between November 8 and 11, 2004. It was organized by the Centro Atómico Bariloche, Comisión Nacional de Energía Atómica, having as Organizing Committee: Gustavo Buscaglia (President), Claudio Padra and Luis Guarracino (Vice-Presidents), Fernando Basombrío and Sergio Idelsohn (Honorary Presidents), and Daniela Arnica, Enzo Dari, Jorge Leiva, Claudio Mazufri, Nicolás Silin and Oscar Zamonsky as members.

**Figure 1:**  
*Participants at ENIEF 2004*



### Facts about ENIEF'2004:

#### **Some numbers:**

Participants: 270 (from 16 countries), Minisymposia: 2, Sessions: 62(Talks: 240), Student posters: 30

#### **Plenary lectures**

**Oscar Bruno**, Caltech (New high-order, high-frequency methods in computational electromagnetism)

**Ramon Codina**, Univ. Politècnica de Catalunya (Finite element approximation of thermal models for low speed flows)

**Horacio Espinosa**, Northwestern Univ. (Plasticity size effects in freestanding thin films: Experiments and modeling)

**Rainald Lohner**, George Mason Univ. (Adaptive embedded unstructured grid methods)

**Paul Sorensen** ABAQUS (Finite elements for industry, research and teaching)

#### **Keynote lecturers**

Guy Bayada, Gino Bella, Onno Bokhove, Fabián Bombardelli, Néstor Calvo, Alberto Cardona, Juan Cebral, Diego Celentano, José Corberán Salvador, Jorge Crempien Laborie, Marcela Cruchaga, Alberto Cuitiño, Francesco D'Auria, Guillermo Etse, Fernando Flores, Pablo Jacovkis, Mohammed Jai, Gerhard Jirka, Axel Larretguy, Ricardo Lebensohn, Adrián Lew, Norberto Mangiavacchi, Ángel Menéndez, Jean-Philippe Ponthot, Gustavo Sánchez Sarmiento, Pablo Tarela, Marcelo Vénere, Carlos Vionnet, Bassam Younis, Pablo Zavattieri.

#### **Minisymposia**

Water resources, Automobile industry, Nuclear CFD and CSM, Industrial heat transfer, Hemodynamics, Constitutive modeling, Moving interfaces, Multiscale modeling, Solids and structures, Large scale computing, Atmospheric dispersion, Petroleum reservoirs, Discontinuous Galerkin, Interdisciplinary mathematics, Slender structures, Numerical analysis, Multiphase flows, Turbulent flows, Dynamics, Aerospace, Concrete, Fracture and Damage, Meshes.

#### **Proceedings**

Mecánica Computacional, Vol. XXIII, edited by G. Buscaglia, E. Dari and O. Zamonsky. ISSN 1666-6070. 3389 pages.

#### **Post-conference**

Most of the material (program, abstracts, papers, pictures) is available from the web page, [www.cab.cnea.gov.ar/enief](http://www.cab.cnea.gov.ar/enief), or contact AMCA ([www.amcaonline.org.ar](http://www.amcaonline.org.ar)).



**Figure 2:**  
*The Hotel where ENIEF'2004 took place.*

## Highlights of ENIEF'2004

**The place:** The lakes, the mountains, the sun, the people.

**The lectures:** Plenary, keynote and ordinary talks were of excellent level and carefully presented. Oscar Bruno's theatrical representation of how one stands on a 3D surface to flatten it against the floor so as to allow for a 2D FFT will be remembered.

**The poster session:** A poster session during the Cocktail (on Tuesday night) was such a good idea! Plenty of people kept the students busy with their questions and comments. The students were happy with the feedback when the session ended by 11 pm. They were also hungry, so many questions did not allow them to get much of the excellent food.

**The awards:** During the conference banquet on Thursday night there was food, there was wine and there was music, and they were all great. There were also several awards: Guillermo Etse and Juan Carlos Ferreri received the Senior AMCA awards, while Adrián Cisilino received the Junior one. Then it was time to announce the winners of the Student Posters Competition. They were Pablo García Martínez (1st), Fernanda Caffaratti (2nd) and Daniel Lanzillotti Kimura (3rd) among the undergrads, and Nora Paoletti (1st), Silvina Serra (2nd) and Mariano Febbo (3rd) among the graduate students. Tables were put aside to make room for some dancing until 3 am. The congress was over, it was time to celebrate.

## Do ENIEF conferences have a secret?

ENIEF conferences are not just a meeting of friends. They are a meeting of friends who get together to learn from each other, to establish collaborations, to discuss hot topics... and also to criticize, question and object each other's work. Scientific discussions are informal but deep in ENIEF, and they do get harsh but never personal. Arguments do take place, you hear "That is wrong" in the sessions, you hear "Sorry, I was wrong" too. And then people go have lunch together. This may be one of ENIEF's secrets. Consider coming to Argentina for the next one. ●

### Figure 3:

Guillermo Etse (far left) and Juan Carlos Ferreri (far right) receiving their AMCA awards from Alberto Cardona and Gustavo Sánchez Sarmiento.



### Figure 4:

Rolando Granada (Head of the Centro Atómico Bariloche), Gustavo Buscaglia (Chairman of ENIEF'2004) and Sergio Idelsohn (President of AMCA) during the opening ceremony



### Figure 5:

Guillermo Etse, Adrian Cisilino and Juan Carlos Ferreri, winners of the AMCA Awards 2004.



### Figure 6:

Ramon Codina, Juan Cebral and Claudio Padra during a coffee-break



### Figure 7:

Ricardo Lebensohn and colleagues at lunch time.