

## CIM NEWS

### JOSÉ SOUSA PINTO

Professor José Sousa Pinto, Secretary of the CIM General Assembly since 1996, died in August 2000 after a long illness. He was a Professor at Aveiro University, and his main research interest was nonstandard analysis

and generalized functions. A book by Prof. Sousa Pinto, *Métodos Infinitesimais de Análise Matemática*, was published by the Gulbenkian Foundation in 2000.

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### CIM GOVERNING BODIES FOR 2001-2004

#### GENERAL ASSEMBLY

Maria Paula de Oliveira, Univ. Coimbra (Chair)  
Luís Sanchez, Univ. Lisboa (Secretary)  
António Caetano, Univ. Aveiro (Secretary)

#### AUDITING BOARD

Estelita Vaz, Univ. Minho (Chair)  
José Basto Gonçalves, Univ. Porto  
Maria Paula Rocha Malonek, Univ. Aveiro

(The members of the executive board were listed in the Bulletin no. 7.)

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### CIM PROGRAM FOR 2001-2004

The new CIM executive board, chaired by Prof. Luís Trabucho de Campos (Universidade de Lisboa, Portugal), took office in July 2000. The board intends to continue CIM's activity of promoting and sponsoring several kinds of international meetings on mathematics and its applications. A central position in CIM's scientific program is occupied by the *Thematic Terms*. The subjects for the next four years are:

- Mathematics and Computation (2001)
- Mathematics and Biology (2002)
- Mathematics and Engineering (2003)
- Mathematics and the Environment (2004)

## CIM SCIENTIFIC COMMITTEE FOR 2001-2004

At the CIM General Assembly held in Coimbra on 25 November 2000, the CIM Scientific Committee for 2001-2004 was approved. Its members are:

- JORGE ALMEIDA (Universidade do Porto, Portugal)
- LUÍS TRABUCHO DE CAMPOS (Universidade de Lisboa, Portugal), *ex officio*
- RAUL CORDOVIL (Universidade Técnica de Lisboa, Portugal)
- JOHN DENNIS (Rice University, USA)
- JOÃO PAULO DIAS (Universidade de Lisboa, Portugal)
- IVETTE GOMES (Universidade de Lisboa, Portugal)
- JOAQUIM JOÃO JÚDICE (Universidade de Coimbra, Portugal)
- JOÃO MARTINS (Universidade Técnica de Lisboa, Portugal)
- JACOB PALIS (IMPA, Rio de Janeiro, Brasil)
- LUÍS MONIZ PEREIRA (Universidade Nova de Lisboa, Portugal)
- EDUARDO MARQUES DE SÁ (Universidade de Coimbra, Portugal)
- LUÍS SANCHEZ (Universidade de Lisboa, Portugal)
- JOSÉ PERDIGÃO DIAS DA SILVA (Universidade de Lisboa, Portugal)
- HUGO BEIRÃO DA VEIGA (Dipartimento di Matematica Applicata “Ulisse Dini”, Pisa, Italy)
- BERND WEGNER (Technische Universität Berlin, Germany)
- EFIM ZELMANOV (Yale University, USA)
- ENRIQUE ZUAZUA (Universidad Complutense, Madrid, Spain)

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## CIM ASSOCIATES

The current CIM Associate institutions are:

- Sociedade Portuguesa de Matemática
- Universidade de Coimbra
- Universidade do Porto
- Faculdade de Ciências da Universidade de Lisboa
- Universidade do Minho
- Universidade Nova de Lisboa
- Universidade de Aveiro
- Universidade dos Açores
- Universidade da Beira Interior
- Universidade de Évora
- Universidade de Trás-os-Montes e Alto Douro
- Instituto Superior de Línguas e Administração
- Cooperativa de Ensino Universidade Lusíada
- Universidade da Madeira
- Universidade do Algarve
- Centro de Matemática Aplicada do IST
- Centro de Investigação em Matemática e Aplicações da Universidade de Évora
- Centro de Álgebra da Universidade de Lisboa
- Centro de Matemática da Universidade de Coimbra
- Universidade de Macau
- Centro de Matemática da Universidade do Porto
- Centro de Estruturas Lineares e Combinatórias
- Instituto Superior de Economia e Gestão

## CIM PUBLICATIONS

In 2000 the following CIM publications were issued:

- A. Sequeira (ed.), *International Summer School on Computational Fluid Dynamics*
- L. Trabucho and J. F. Queiró (ed.), *O ensino da Matemática em Portugal e assuntos relacionados*
- M. Field, *Complex Dynamics in Symmetric Systems*
- M. Golubitsky and I. Stewart, *The Symmetry Perspective: From Equilibria to Chaos in Phase Space and Physical Space*

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## CIM EVENTS 2000

The CIM events in 2000 took place as planned. The THEMATIC TERM, organized by J. A. Basto Gonçalves and I. Labouriau (Porto), was dedicated to DYNAMICS, BIFURCATION AND BIOLOGY. Its events (see the complete list, with the respective organizers, in the Bulletin no. 8) were of high level and had a great success.

Information about some of the events not included in the Thematic Term is given here, in complement to the announcements published in previous issues of the Bulletin.

### SECOND DEBATE ON MATHEMATICAL RESEARCH IN PORTUGAL

This debate was held in Coimbra on 1-2 April. The Minister for Science and Technology spoke at the opening session. During the two days of debate there were panels on *Graduate studies in Portugal* (with a speech by the Secretary of State for the Universities), *Portugal's scientific system* (with a speech by the President of the Science and Technology Foundation), *The 1999 research assessment, Research units and university departments, Graduate studies in Mathematics, Internationalization of Portuguese mathematicians, Mathematics as seen by other sciences, Popularization of Mathematics*. CIM will publish the debate proceedings. The debate was organized by J. Soares (Minho), L. N. Vicente (Coimbra) and R. Santos (Algarve).

### MATHEMATICAL ASPECTS OF EVOLVING INTERFACES

This CIM/CIME Summer School, organized by P. Colli (Pavia, Italy) and J. F. Rodrigues (Lisboa, Portugal), took place in Funchal (Madeira) on 3-7 July and consisted of the following five courses:

- *A survey on the optimal transport problem*, by L. Ambrosio (Scuola Normale Superiore, Pisa, Italy);
- *Numerical approximation of mean curvature flow of graphs*, by G. Dziuk (Univ. Freiburg, Germany);
- *Dynamics of patterns and interfaces in reaction-diffusion systems from chemical and biological viewpoints*, by M. Mimura (Univ. Hiroshima, Japan);
- *Evolution free boundary problems for parabolic equations and Navier Stokes equations*, by V. A. Solonnikov (Steklov Math. Inst., St. Petersburg, Russia);
- *Variational and dynamic problems for the Ginzburg-Landau functional*, by H. M. Sonner (Univ. Princeton, USA).

### WORKSHOP ON PARTIALLY KNOWN MATRICES AND OPERATORS

This workshop, organized by F. Conceição Silva (Lisboa), A. Leal Duarte (Coimbra), I. Cabral (U. N. Lisboa) and Susana Furtado (Porto), took place in Coimbra on 16-18 September. The invited speakers were:

- M. Fiedler (Prague, Czech Republic),
- C. Johnson (William & Mary, USA),
- P. Freitas (Tech. Univ. Lisboa, Portugal),
- J.-M. Gracia (Vitoria, Spain),
- W. Xiaochang (Texas Tech. Univ., USA),
- W. Barrett (Brigham Young Univ., USA),
- Ion Zaballa (Bilbao, Spain).

## CIM COOPERATION ACTIVITIES

CIM has a Committee to deal with cooperation activities in Mathematics with Portuguese-speaking countries. This Committee has been chaired by Prof. J. Sampaio Martins (Coimbra).

In the year 2000, professors António Ornelas (Évora), J. C. David Vieira (Aveiro), Joaquim Madeira (Coimbra) and J. C. Tiago de Oliveira (Évora) taught courses at

the *Instituto Superior de Educação* of Cabo Verde, in the city of Praia. These missions received support from Instituto de Cooperação de Portugal and Instituto Superior de Educação of Cabo Verde.

The new chairman of the Cooperation Committee for 2001 is Prof. J. C. David Vieira (Aveiro).

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## RESEARCH IN PAIRS AT CIM

CIM has facilities for research work in pairs and welcomes applications for their use for limited periods.

These facilities are located at Complexo do Observatório Astronómico in Coimbra and include: office space, computing facilities, and some secretarial support; access to the library of the Department of Mathematics of the University of Coimbra (30 minutes away by bus); lodging: a two room flat.

At least one of the researchers should be affiliated with an associate of CIM, or a participant in a CIM event.

Applicants should fill in the electronic application form

<http://www.cim.pt/cim.www/cim-app/application.htm>

also accessible from the CIM web page (see below).

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## CIM ON THE WEB

Complete information about CIM and its activities can be found at the site

<http://www.cim.pt>

This is mirrored at

<http://at.yorku.ca/cim.www/>

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