



ICIAM 2003

**5th International Congress
on Industrial and
Applied Mathematics
SYDNEY, AUSTRALIA
7-11 JULY 2003**



**Check deadlines, register and
submit abstracts at**

www.iciam.org

ICIAM 2003 is organised by ANZIAM (Australian and New Zealand Industrial and Applied Mathematics) for the International Council for Industrial and Applied Mathematics

**Have you
thought of
coming to
Sydney in
July 2003?**

**Speak to
your partner
and make
your plans!**

ICIAM 2003 features:

- 27 Invited Speakers covering the full spectrum of industrial and applied mathematics
- 6 Embedded meetings
- Special Technological Workshops
- Hundreds of minisymposia
- Contributed talks
- Poster papers
- Congress Exhibition
- Opportunity for tourist excursions in Australia

ICIAM 2003 Congress Secretariat

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ICIAM



Invited speakers

Brian (B.D.O.) Anderson, Australia: systems, control and signal processing
Marsha Berger, USA: mesh generation, computational fluid dynamics, scientific computing
Yann Brenier, France: nonlinear PDEs
Franco Brezzi, Italy: finite element methods, engineering applications
Jennifer Tour Chayes, USA: statistical physics, phase transitions, theory group at Microsoft
Mark Davis, UK: mathematical finance, stochastic analysis
James Demmel, USA: numerical linear algebra, simulation
Peter Deuffhard, Germany: modelling, simulation, optimization, scientific computing
David Donoho, USA: mathematical statistics, wavelets, visualization
Yoshikazu Giga, Japan: Navier-Stokes equations, nonlinear PDEs
Alice Guionnet, France: particle approximations, random interactions, free probability related to large random matrices
Tom (T.Y.) Hou, USA: analysis and simulation of multiscale and free-boundary problems
Jonathan Keating, UK: dynamical systems, asymptotics, quantum chaos
Rupert Klein, Germany: computational fluid dynamics, modelling, combustion
Nancy Kopell, USA: dynamics of the nervous system, gene regulatory networks, geometric singular perturbations
Tom (F.T.) Leighton, USA: computer science, parallel algorithms, the internet
Peter A. Markowich, Austria: semiconductor modelling, kinetic equations, diffusion and dispersion
Alexander Mielke, Germany: nonlinear PDEs, dynamics, continuum mechanics
Harald Niederreiter, Singapore: quasi-Monte Carlo methods, discrete mathematics
Michael Ortiz, USA: solid mechanics, materials
George (G.C.) Papanicolaou, USA: waves, diffusion, multi-scale phenomena
Neil (N.J.A.) Sloane, USA: error-correcting codes, sphere packings, integer sequences
Philippe (Ph. L.) Toint, Belgium: nonlinear optimisation
Ernie (E.O.) Tuck, Australia: ship hydrodynamics, applied fluids
Henk (H.A.) van der Vorst, Netherlands: numerical linear algebra, iterative methods
Ying Lung-an, China: nonlinear PDEs, numerical methods
Vladimir (V.E.) Zakharov, Russia/USA: turbulence, integrable systems, kinetics

Embedded Meetings

(see www.iciam.org for further details)

6th Australian-New Zealand Mathematics

Convention: A joint meeting of the Australia and New Zealand Mathematical Societies, the convention features minisymposia and invited speakers of high international repute.

11th Computational Techniques and Applications

Conference: The conference has been held biennially since 1983 and is based on a series of minisymposia on techniques of computation and applications to problems in various disciplines.

6th Engineering Mathematics and Applications

Conference: The meeting is organised with assistance from the Institute of Engineers, Australia; it features industry-academic relations, engineering research and educational aspects.

17th National Conference of the Australian Society

for Operations Research: This meeting showcases the latest advances in methodology and applications in a wide range of industries such as defence, manufacturing, services and energy.

2nd National Symposium on Financial

Mathematics: Held in a workshop setting, this meeting presents new developments in the financial markets and the latest research, in diverse areas, in Financial Mathematics.

Future Mathematical Needs of Industry

With guidance from an Industrial Advisory Committee, we plan a special feature entitled Future Mathematical Needs of Industry, consisting of approximately 10 Special Technological Workshops to showcase the present and anticipated needs of mathematics in key industry sectors. These workshops will feature leading experts from industry and academia, and will complement the embedded meetings in ICIAM 2003. Details will be announced on www.iciam.org



Check deadlines, register and submit abstracts at www.iciam.org; alternatively complete your details and fax this page back to us, and we will send you a copy of the Registration Brochure.
 Fax to ICMS Australasia, + 61 2 9251 3552.

Name _____
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