



General Information

Registration

The congress registration desks, located in the Chaplaincy Centre, will be open during the following times each day to provide information and general assistance to all delegates.

Sunday 4 July	14:00–20:00
Monday 5 July	08:00–18:00
Tuesday 6 July	08:00–18:00
Wednesday 7 July	08:00–18:00
Thursday 8 July	08:00–18:00
Friday 9 July	08:00–16:30

On registering you will have received a congress bag and materials, including a congress badge permitting access to the Welcome Reception, Opening Ceremony, the Congress Reception, Exhibition and all congress sessions. Registered accompanying guests have also been issued with a badge for admission to the Welcome Reception, the Congress Reception, the Film Evening and the Accompanying Guests Excursions (at additional cost). Please note accompanying guests are not permitted to attend the Opening Ceremony or scientific sessions.

For security purposes it is essential that you wear your congress badge at all times. This is of particular importance on Monday 5 July when HRH The Duke of Edinburgh shall attend the Opening Ceremony. Congress badges are colour coded as follows:

White	Delegates/Speakers
Pink	Accompanying Guests
Green	Exhibition Staff
Yellow	Organisers/Stewards

Information Desks

Information about *all aspects* of the Congress can be obtained from staff at the Chaplaincy Centre. In addition, there will be a welcome/help desk at Pollock Halls on Sunday 4th July to provide assistance.

Bank Services

The nearest bank to the congress site can be found at: The Bank of Scotland, 4 Bristo Square, Edinburgh,

EH8 9AL. Opening Hours: 09:00–17:00 Monday to Friday. This bank is located immediately adjacent to the Chaplaincy Centre.

Exchange facilities can also be found at many other banks located throughout the city centre or alternatively at Waverley Train Station and airports.

Messages for Congress Participants

For incoming messages to participants please use telephone and fax numbers provided in your registration pack and on the web site. All messages will be posted on a message board located in the Chaplaincy Centre. Messages for congress participants and exhibitors can be left via this number but please note it is not possible to contact participants or exhibitors by telephone directly. All faxes must clearly display ICIAM99 and the name of the recipient.

Participants wishing to exchange personal messages during ICIAM99 should use the message board in the Chaplaincy Centre.

E-Mail Service

Email access is available in the Computing Laboratory on Level 5 of Appleton Tower during the following times:

Monday 5 July	08:00–18:00
Tuesday 6 July	08:00–18:00
Wednesday 7 July	08:00–18:00
Thursday 8 July	08:00–18:00
Friday 9 July	08:00–15:00

Programme Changes

An updated daily programme will be available at each of the main Congress venues and on the internet.

Conference Proceedings

Plenary lectures and a Congress report will be published by Oxford University Press. A copy will be sent to all fully registered members of the Congress (except students).

Photocopying and Fax Facilities

Should you wish to send a fax or make a photocopy please contact the registration staff who will be delighted to assist you. A small charge shall be made for this service as follows:

Photocopying	10p per sheet
Fax — National	50p per sheet
Fax — International	£1.00 per sheet



Social Programme

Sunday 4 July — Welcome Reception, Teviot Row House 18:00–20:00. All delegates, registered accompanying guests and exhibitors are invited to attend the welcome reception to be held in Teviot Row House on the Congress site. Wine and soft drinks will be served, giving guests the opportunity to meet colleagues in a convivial atmosphere. This reception is kindly sponsored by Oxford University Press.

Tuesday 6 July — Congress Reception, Royal Museum and Museum of Scotland 19:00–20:30. Regarded as one of Scotland's finest museums, delegates, exhibitors and registered guests will have the opportunity to view the many fine treasures housed in this beautiful building. There will also be an opportunity to view the newly completed Museum of Scotland which adjoins the existing museum. The Museum of Scotland depicts the history of Scotland — its land, its people and their achievements. Scotland's most stunning treasures and the inheritance of a nation are displayed in this fine example of modern architecture. Wine and soft drinks will be available at this reception which is generously sponsored by Cambridge University Press.

Wednesday 7 July — Scottish Evening, Teviot Row House 20:00–24:00. An evening of Scottish Entertainment awaits combining traditional Scottish food and wine with Scottish folk music and ceilidh dancing. During the evening delegates will have the opportunity to sample Scotland's favourite dish - haggis, neeps and tatties — followed by a chance to participate in traditional Scottish country dancing. For those less energetic there will be a variety of entertainment throughout the building including craft stalls and musicians. If you would like to attend the Scottish Evening but have not already reserved a place, please enquire at the Chaplaincy Centre — tickets may still be available subject to demand.

Thursday 8 July — Film Evening, George Square Lecture Theatre 20:00–21:30. The selected film for this evening is *Mrs Brown*, a historical drama charting the unlikely and (at the time) scandalous friendship forged by the grieving Queen Victoria and a devoted Scottish servant. With Judi Dench and Billy Connolly. This evening is open to all delegates and registered guests, but please note that places are limited to 500 and entry will be on a first come first served basis on the evening.

Accompanying guests' excursions

All excursions will depart from the front of Appleton Tower on the days and times shown. Tickets may still be available for these tours — please contact the Tour desk in the Chaplaincy Centre for further details.

Tuesday 6 July — St. Andrews and Fife (£28 per person) 09:00–17:00. Departing from Edinburgh and travelling north over the River Forth with spectacular views of the century-old rail bridge, you will pass through the picturesque fishing villages of Fife before reaching St. Andrews, home of golf and Scotland's oldest University. On the return journey you will visit Falkland Palace, a favourite house of Mary, Queen of Scots. Please note lunch is not included in this tour.

Thursday 8 July — The Highlands in Miniature (£28 per person) 09:00–17:30. This tour includes a visit to Stirling Castle, the centre of an area made famous by Rob Roy and Braveheart. Then on to Callander and through the Trossachs, a region of mountains and lochs, before reaching the village of Aberfoyle where you can visit a woollen mill. The return journey includes a short visit to the beautifully scenic Loch Lomond. Please note lunch is not included in this tour.



Eating and Refreshments



Information for Speakers

Tea/Coffee Breaks

Complimentary tea and coffee will be available during the morning and afternoon breaks at the following venues. The morning breaks are between 10:30–11:00 on Monday, 10:40–11:00 on Tuesday, Wednesday and Thursday, and between 9:45–10:05 on Friday. The afternoon breaks are between 15:40–16:00 Monday to Thursday and between 15:00–15:20 on Friday.

- Appleton Tower Concourse
- Teviot Row House
- David Hume Tower Basement
- Management School Foyer
- George Square Lecture Theatre Basement
- William Robertson Building Foyer

Lunch

Lunches will be on sale in the following locations at reasonable prices:

- Appleton Tower Concourse
- Teviot Row House
- David Hume Tower Basement Cafeteria
- Potterow Bar, Chaplaincy Centre Courtyard

All lecture rooms have an overhead projector and 35mm slide projector and screen. Rehearsal facilities are available in the Speakers Preview Room and additional slide trays may be obtained from this room.

Speaker Preview Room

This is located in the Lecturer's Retiring Room in the Appleton Tower. It will be open at the following times:

Sunday 4 July	14:00–18:00 hours
Monday 5 July	08:30–18:00 hours
Tuesday 6 July	08:30–18:00 hours
Wednesday 7 July	08:30–18:00 hours
Thursday 8 July	08:30–18:00 hours
Friday 9 July	08:30–16:00 hours

To avoid congestion in the preview room the organisers request that preview facilities be used one day in advance of scheduled presentations. OHP acetates and pens will be on sale. Additional slide trays may be obtained on the payment of a small deposit.

Information for Poster Presenters

Posters will be displayed in the David Hume Tower Lower Foyer. All posters must be set-up between 08:30 and 10:30 on the day of presentation and removed by 18:00. Please note all boards are 2m wide × 1m high. Posters can be attached using Velcro which will be available in the poster area during the set-up times shown above. Help will be on hand during the set-up times to assist you in locating your poster board. Presenters should spend a reasonable proportion of the time between 10:30 and 14:00 with their posters.



Additional Scientific Events

Meetings

There will be a Symposium on Mathematics and the Law and Four Lectures on Maxwellian Themes at the Royal Society of Edinburgh (22–26 George Street) which is about 25 minutes walk from the main Congress site.

The Symposium on **Mathematics and the Law** is on Wednesday 7th July, 17:00 – 20:00 and is sponsored by the Royal Society of Edinburgh and the Faculty of Advocates. Mathematics and the law are closely related subjects. Both have a logical basis. Some of those with a mathematical training go on to be lawyers. But can mathematics influence law? In this symposium, four illustrations of the relationship between mathematics and the law are given: one concerns actuarial ideas, one the laws of mathematics, one considers the possibilities for modelling legal reasoning using computers and one considers the role of probability in the law. As well as the four lectures, there will be plenty of time for discussion. The lectures are:

- Sir Michael Ogden, Q.C., *How actuaries put the law right.*
- Mr. G. Staple, Q.C., *The laws of mathematics and the rule of law.*
- Professor R. Susskind, *Computational models of legal reasoning?*
- Dr. C.G.G. Aitken, *The interpretation of probabilistic evidence.*

The meeting on **Maxwellian Themes**, which is jointly organised by the International Centre for Mathematical Sciences and the James Clerk Maxwell Foundation, is on Friday 9th July 17:00 – 19:30 and Saturday 10th July 10:30 – 13:00. A series of four lectures, aimed at a general audience, illustrating the range of Maxwell's influence on modern theory and modern technology. The schedule is

Friday 9th July

5:00 pm Francis Everitt (Stanford University, and Chair of Scientific Commission H on Fundamental Physics in Space, COSPAR), *Testing Einstein in space: a marriage of physics and technology.*

6:00 pm Tea.

6:30 pm Peter Higgs (Emeritus Professor of Theoretical Physics, University of Edinburgh), *Beyond electromagnetism: Maxwellian field theories in the 20th century.*

Saturday 10th July

10:30 am Malcolm Longair (Jacksonian Professor of Natural Philosophy, University of Cambridge), *A Maxwellian approach to modern cosmology.*

11:30 am Coffee.

12:00 am Will Stewart (Chief Scientist with Marconi Materials Technology), *Photonic crystals: Maxwellian photons and heavy electrons.*

Special Interest Days

The Faculty and the Institute of Actuaries have organised in conjunction with ICIAM99 a one day event on Tuesday 6th July for all those interested in **financial mathematics**. Marco Avellaneda will deliver a Plenary lecture entitled *New Perspectives in Modelling Financial Risk*. He will also chair an informal discussion (09:30–10:30 in the William Robertson Building, Lecture Theatre 8) on *Long Term Capital Management — \$4000m to \$600m in a matter of days — what went wrong?* There will also be mini-symposia on Risk Management (MSP-232) and Quasi-Monte Carlo Methods for Finance Applications (MSP-235).

On Thursday 8th July, the Edinburgh Parallel Computing Centre (EPCC) will be holding a one day meeting on the use of **parallel computing** throughout academia, industry and commerce, as part of ICIAM99. The events are a plenary lecture by Anthony Kennedy entitled *Do Large Computations Solve our Problems or Cause them?*, two EPCC lectures — by Jack J. Dongarra, *Scalable High-Performance Libraries in Linear Algebra*, and by Siamak Hassanzadeh, *Java Grande: A Framework for High-End Computing in the "Information Utility" Era*, and six mini-symposia MSP272 — MSP277.



Prizes

CICIAM Prizes

The following CICIAM prizes have been established to recognise outstanding achievements in applied mathematics. The presentation for these prizes is on Monday, 5th July at the Opening Ceremony in McEwan Hall.

- The CICIAM Lagrange Prize, funded by the Société des Mathématiques Appliquées et Industrielles (SMAI), the Sociedad Española de Matemática Aplicada (SEMA) and the Società Italiana di Matematica Applicata e Industriale (SIMAI), has been established to provide international recognition to individual mathematician who have made an exceptional contribution to applied mathematics throughout their careers.
- The CICIAM Lothar Collatz Prize, funded by the Gesellschaft für Angewandte Mathematik und Mechanik (GAMM), has been established to provide international recognition to individual scientists under 42 years of age for outstanding work on industrial and applied mathematics.
- The CICIAM SIAM Pioneer Prize, funded by The Society for Industrial and Applied Mathematics (SIAM), is for pioneering work introducing applied mathematical methods and scientific computing techniques to an industrial problem area or a new scientific field of applications.
- The CICIAM Maxwell Prize, funded by the Institute of Mathematics and its Applications (IMA) and the James Clerk Maxwell Foundation, has been established to provide international recognition to a mathematician who has demonstrated originality in applied mathematics.

Dahlquist Prize

The Dahlquist Prize, established by SIAM in 1995, is awarded to a young scientist for original contributions to fields associated with Germund Dahlquist, especially the numerical solution of differential equations and numerical methods for scientific computing. The 1999 Dahlquist Prize will be awarded to Linda Petzold for her important contribution to effective numerical methodology for differential equations, especially the analysis of methods for differential-algebraic equations, the construction of effective techniques for their solution, and the integration of these and other techniques into robust

software, thus making possible the reliable solution of large classes of ordinary and partial differential equations arising from engineering and science applications. The presentation for the 1999 Dahlquist Prize is at 09:45 on Tuesday, 6th July in McEwan Hall.

Peter Henrici Prize

The Peter Henrici Prize is awarded for original contributions to applied analysis and numerical analysis and/or for exposition appropriate for applied mathematics and scientific computing. The award is intended to recognise broad and extended contributions to these subjects, more than a single outstanding work.

The first Peter Henrici Prize will be presented at the ICIAM meeting. This Prize, sponsored by SIAM and ETHZ, is to be given to honour Peter Henrici who was such an eminent figure in Applied Mathematics and Numerical Analysis. In addition to all his scientific achievements, he wrote numerous books and papers in an elegant manner, communicating ideas coherently and logically.

The winner of the Henrici Prize will be announced and presented with the award at 09:45 on Wednesday, 7th July in McEwan Hall.

The Wilkinson Prize for Numerical Software

The Wilkinson Prize for Numerical Software was established in honour of the outstanding contributions of James Hardy Wilkinson to the field of numerical software. The prize is jointly sponsored by Argonne National Laboratory, where Wilkinson was a frequent visitor; the National Physical Laboratory, where Wilkinson spent most of his working life; and The Numerical Algorithms Group, for whom Wilkinson gave great encouragement and support. The previous two prizes were awarded at ICIAM91 and ICIAM95. The Web address for the Wilkinson Prize is <http://www.nag.co.uk/other/WilkinsonPrize.html>.

The winner of the Wilkinson Prize will be announced and presented with the award at 09:45 on Thursday, 8th July in McEwan Hall and will give a lecture in the mini-symposium MSP-137 at 11:00 Thursday 8th July.



Organisation



Accommodation

ICIAM99 is jointly organised by the Institute of Mathematics and its Applications and the International Centre for Mathematical Sciences, with the involvement of Mathematics Departments at Edinburgh University and Heriot-Watt University. The Chairman of ICIAM99 is Sir Michael Atiyah, O.M.

The Committee for International Conferences on Industrial and Applied Mathematics (CICIAM) is an international association of societies involved in applied mathematics and its applications. The main activity of CICIAM is to hold a four yearly international congress. The present chair of CICIAM is Professor R. Mennicken (Germany). A full list of Member Societies of CICIAM is given in the front of this book.

The Local Organising Committee consists of Lyn Thomas (convener), Jack Carr, Robin Knops, Elmer Rees, Michael Levitin and Adri Olde Daalhuis.

The scientific programme and, in particular, the selection of invited speakers lies in the hands of an international Scientific Programme Committee chaired by J.C.R. Hunt (UK).

Scientific Programme Committee: Julian Hunt (Chairman, UK), Angelo M Anile (Italy), Tim Auton (UK), Noel Barton (Australia), Franco Brezzi (Italy), Roland Bulirsch (Germany), Ranier Burkard (ECMI), Da Yong Cai (China), Jack Carr (UK), Qian Sheng Cheng (China), Alexandre Chorin (USA), Iain S Duff (UK), Wayne Enright (Canada), G Golitsyn (Russia), Bertil Gustafsson (Sweden), J Jacod (France), Adrien Jami (France), Peter King (UK), Dr Edwin Kreuzer (Germany), Robert Mattheij (ECMI), Perla Menzala (Brazil), Robert Miura (Canada), Masatake Mori (Japan), John Ockendon (UK), David F Parker (UK), Jacques Periaux (France), Juhani Pitkaranta (Finland), J Rappaz (Switzerland), J M Sanz Serna (Spain), Norihisa Suzuki (Japan), Ernie Tuck (Australia), Martin Tygel (Brazil), J L Vazquez (Spain) and Mary F Wheeler (USA).

The ICIAM99 Congress Secretariat is Meeting Makers Ltd, who can be contacted at Jordanhill Campus, 76 Southbrae Drive, Glasgow G13 1PP, UK, tel: +44 (0)141 434 1500, fax: +44 (0)141 434 1519, email: iciam@meetingmakers.co.uk

Contact telephone and fax numbers are given below for each of the designated conference hotels and university residencies.

University accommodation

University of Edinburgh. The accommodation at Pollock Halls is approximately 15 minutes' walk from the University of Edinburgh George Square Campus. Tel: 0131 667 0662. Fax: 0131 662 9479.

Heriot Watt University. This university accommodation is approximately 20-25 minutes by coach from the main congress centre. Tel: 0131 449 5111. Fax: 0131 451 3199.

Self-Catering Flats. These flats are located at Kincaid Court, Hermit's Croft and Warrender Park Crescent. All flats are within walking distance of the congress site. Please use the telephone numbers given above for the University of Edinburgh should you need to contact accommodation services regarding these flats.

Hotel accommodation

Apex European Hotel
90 Haymarket Terrace
Edinburgh EH12 5LQ
Tel: 0131 474 3456
Fax: 0131 474 3400

Apex International Hotel
31-35 Grassmarket
Edinburgh EH1 2HS
Tel: 0131 300 3456
Fax: 0131 220 5345

Carlton Highland Hotel
North Bridge
Edinburgh EH1 1SD
Tel: 0131 472 3000
Fax: 0131 556 2691

Edinburgh City Travel Inn
1 Morrison Link
Edinburgh EH3 8DN
Tel: 0131 228 9819
Fax: 0131 228 9836

Forte Posthouse
Corstorphine Road
Edinburgh EH12 6UA
Tel: 0131 334 0390
Fax: 0131 334 9237

Herald House
70 Grove Street
Edinburgh EH3 8AP
Tel: 0131 228 2323
Fax: 0131 228 3101

Holiday Inn Crowne Plaza
80 High Street, The Royal Mile
Edinburgh EH1 1TH
Tel: 0131 557 9797
Fax: 0131 557 9789

Holiday Inn Garden Court
Queensferry Road
Edinburgh EH4 3HL
Tel: 0131 332 2442
Fax: 0131 332 3408

Jarvis Mount Royal
Princes Street
Edinburgh EH2 2DG
Tel: 0131 225 7161
Fax: 0131 220 4671

King James Thistle
107 Leith Street
Edinburgh EH1 3SW
Tel: 0131 556 0111
Fax: 0131 557 5333

Kings Manor
100 Milton Road East
Edinburgh EH15 2NP
Tel: 0131 669 0044
Fax: 0131 669 6650

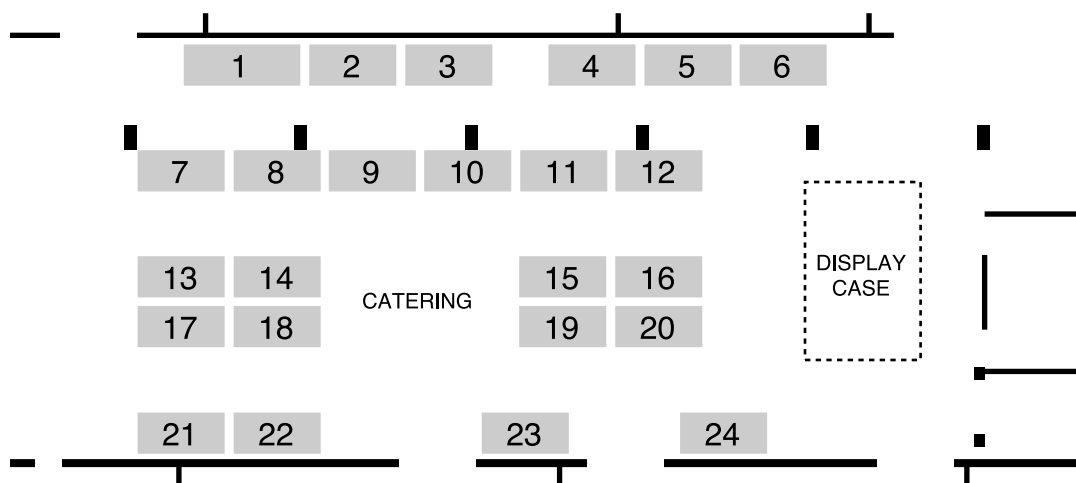
Maitland Hotel
33 Shandwick Place
Edinburgh EH2 4RG
Tel: 0131 229 1467
Fax: 0131 229 7549

Parliament House Hotel
15 Calton Hill
Edinburgh EH1 3BJ
Tel: 0131 478 4000
Fax: 0131 478 4001

Point Hotel
34 Bread Street
Edinburgh EH3 9AF
Tel: 0131 221 9919
Fax: 0131 221 9929

Royal British
20 Princes Street
Edinburgh EH2 2AN
Tel: 0131 556 4901
Fax: 0131 557 6510

Royal Terrace
18 Royal Terrace
Edinburgh EH7 5AQ
Tel: 0131 557 3222
Fax: 0131 557 5334



Floor plan of the exhibition area



Exhibition Information

ICIAM99 would like to thank the undernoted companies for supporting the Congress Exhibition. We invite you to visit each of their stands during the Congress and view their websites - details are given below. All exhibition stands are located in the Appleton Tower Concourse. The opening hours of the exhibition will be as follows:

Monday 5 July	10:30–18:00
Tuesday 6 July	10:40–18:00
Wednesday 7 July	10:40–18:00
Thursday 8 July	10:40–18:00
Friday 9 July	09:45–15:30

In the following descriptions, the number shown relates to the stand number.

- **1. Society for Industrial and Applied Mathematics (SIAM)**

3600 University City Science Center
Philadelphia, PA 19104-2688, USA
Tel: +1 215 383 9800
Fax: +1 215 386 7999
Email: siam@siam.org
<http://www.siam.org>
Contact: Vickie Kearn, Publisher

SIAM is a non-profit society of more than 9000 professional mathematicians. At our exhibit, we will

have information on all our publications and services and you will be able to take advantage of a special 18 month membership offer. Come and see sample issues of all of our journal and information about our forthcoming conferences. ICIAM99 attendees receive a discount on SIAM books. There are many new titles for you to consider. We have a new T-shirt with our mascot on it and free post-it notes for you to take as a souvenir of the meeting.

- **2. London Mathematical Society**

De Morgan House
57–58 London Square, London WC1B 4HP, UK
Tel: 0171 291 9977
Fax: 0171 323 3655
Email: lms@lms.ac.uk
<http://www.lms.ac.uk>

The society was established for the promotion and extension of mathematical knowledge. To this end the Society undertakes various publications and holds regular meetings, conferences and symposia. It is the major British learned society for Mathematics, with a nationwide membership. It also has several hundred overseas members and is a registered charity. The Society publishes 3 long-established research periodicals, the Proceedings, the Journal and the Bulletin, all of which appear bimonthly and publish papers across a broad range of mathematics.

- **3. John Wiley and Sons Ltd**

Baffins Lane, Chichester
West Sussex, PO19 1UD, UK
Tel: 01243 770 570
Fax: 01243 770 432
Email: cs-books@wiley.co.uk

<http://www.wiley.co.uk>
Contact: Rebecca Harfield

John Wiley and Sons Ltd is a leading international publisher of print and electronic products, specialising in scientific/technical books and journals. Visit our stand at ICIAM99 and view our range of latest publications in the fields of Industrial and Applied Mathematics. Highlights include *Queueing Networks* by X. Chao and *Theory and Algorithms for Linear Optimisation* by C Roos, all offered at a special conference discount of 15%. FREE sample copies from our extensive range of specialist journals including *Mathematical Methods in the Applied Sciences*, *Journal of Scheduling* and *International Journal for Numerical Methods in Engineering*.

- **4 & 5. Jaguar**

Jaguar Research W/2/021
Engineering Centre, Whitley
Coventry, CV3 4LF, UK
Tel: +44 (0)1203 214313
Fax: +44 (0)1203 216533
Email: hwillia6@ford.com

- **6. Chapman & Hall/CRC Press**

Pocock House
235 Southwark Bridge Road
London, SE1 6LY, UK
Tel: +44 171 450 5083
Fax: +44 171 407 7336
<http://www.crcpress.com>
Contact: Alison West

Chapman & Hall/CRC is one of the world's largest reference and advanced textbook publishers in mathematics and statistics. In 1999 we are publishing over 50 new titles including new editions of best-selling textbooks, new titles in established reference series and electronic versions of products not previously available. Among our publications this year we are proud to announce the publication of Mollin's *Algebraic Number Theory* and the second edition of Nguyen and Walkers's *A First Course in Fuzzy Logic*. In the *Research Notes in Mathematics* series, we have just published *Stability, Instability and Direct Integrals* by Scarpellini, and in the *Monographs and Surveys in Pure and Applied Mathematics* series, Bullen's *Dictionary of Inequalities*.

- **7. ICIAM 2003, Sydney, Australia**

GPO Box 2609
Sydney
New South Wales 2001, Australia
Tel: (612) 9241 1478

Fax: (612) 9251 3552
Email iciam@icmsaust.com.au
<http://www.austms.org.au/iciam2003>
Contact: Dr Noel Barton, Congress Director

ICIAM 2003 will be held in Sydney, 7-11 July, 2003 in the Sydney Convention and Exhibition Centre, just minutes from Sydney's central business and shopping district. We promise an exciting program, social activities and trade exhibition.

Enhance life's tapestry; attend ICIAM 2003 and also experience other delights of Sydney and Australia - the Blue Mountains, one of the many excellent wine regions, the Great Barrier Reef, the Red Centre, Tasmania and many more. For further information on the Congress and suggestions for the trip to Australia, visit us on Stand 7 and get a taste of that warm Aussie hospitality.

- **8, 9 & 10. Springer Verlag**

Sweetapple House
Catteshall Road, Godalming
Surrey, GU7 3PH, UK
Tel: 01483 418 800
Fax: 01483 415 151
Email: postmaster@svl.co.uk
Contact: David Anderson

Springer Verlag, an international publishing house with offices in Berlin, Heidelberg, London, New York, Barcelona, Budapest, Hong Kong, Milan, Paris, Santa Clara, Singapore and Tokyo, is the world's leading publisher in the field of mathematical sciences. Renowned for their scientific integrity and production quality, Springer's books, journals and electronic products have inspired mathematicians in the closing century of this millennium and stand poised to carry on this tradition to new generations of mathematicians into the next millennium.

- **11. Engineering and Physical Sciences Research Council (EPSRC)**

Polaris House
North Star Avenue
Swindon SN2 1ET, UK
Tel: +44 (0)1793 444304
Fax: +44 (0)1793 444456
Email: Alasdair.Rose@epsrc.ac.uk
Contact: Dr Alasdair Rose, Programme Manager,
Mathematics

The Engineering and Physical Sciences Research Council is the largest of the United Kingdom's seven government-funded research councils. Its mission is to support the highest quality research and related postgraduate training in engineering and the physical sciences. EPSRC aims to advance

knowledge and technology and provide trained engineers for the benefit of the United Kingdom and the quality of life of its citizens. It has the further role of promoting public understanding in engineering and the physical sciences. The budget of the EPSRC Mathematics Programme is £14 million which funds 200 masters and 550 doctoral students, personal research fellowships (7 junior, 35 advanced and 5 senior), postdoctoral research assistants, short-stay visiting fellows, symposia and workshops.

- **12. Oxford University Press**

Great Clarendon Street
Oxford OX2 6DP, UK
Tel: 01865 556 767
Fax: 01865 556 646
Contact: Henry Reece, Secretary to the
Delegates and Chief Executive

OUP is an international publishing house dedicated to the advancement and spread of learning in all academic fields including science, technology and medicine. Publications cover the range of the academic spectrum from elementary college textbooks and books for the general reader; practical handbooks and reference works for professionals; through to specialised academic monographs and scholarly journals.

- **13. The Institute of Mathematics and its Applications (IMA)**

Catherine Richards House
16 Nelson Street
Southend-on-Sea SS1 1EF, UK
Tel: +44 (0)1702 354020
Fax: +44 (0)1702 354111
Email: post@ima.org.uk
<http://www.ima.org.uk>
Contact: Adrian Lepper, Executive Secretary

The Institute of Mathematics and its Applications is a learned society and the professional institute for mathematicians in the UK. Its membership of 6000 work in industry, commerce, the public sector, schools, further and higher education. The institute publishes six journals, a general interest publication *Mathematics Today*, has local branches and special interest groups and has a wide ranging conference programme. The Institute represents the interests of UK mathematicians to government and statutory bodies.

- **14. EDP Sciences**

7 avenue du Hoggar, BP 112
Parc d'Activités de Courtaboeuf
F-91944 Les Ulis Cedex A, France
Tel: 33 169 18 75 75

Fax: 33 169 28 84 91
<http://www.edpsciences.com>
Contact: Nathalie Lecrosnier

EDP Sciences was established in 1920 by Paul Langevin. It is one of the main French publishers in the field of physics. La Société Française de Physique is the major shareholder of EDP Sciences. Now EDP Sciences tends to cover a larger field, including astrophysics and astronomy, materials science, metallurgy, acoustics, chemistry and mathematics. Listed below are some French learned societies, beside SFP, collaborating with EDP Sciences: Société Française d'Acoustique; Société Française des Hautes Températures; Société Française de Métallurgie et de Matériaux; Société Française des Microscopies; Société Française de Radio protection; Société Française de Chimie.

- **15 & 19. The Numerical Algorithms Group Limited (NAG Ltd)**

Wilkinson House
Jordan Hill Road
Oxford OX2 8DR, UK
Tel: 01865 511 245
Fax: 01865 310 139
Email: sales@nag.co.uk
Contact: Liz Jupe, Marketing Communications
Manager

NAG Ltd has almost thirty years experience in developing, porting, distributing and supporting scientific software. Renowned for the accuracy and robustness of its software, NAG is the world's leading supplier of numerical and statistical subroutine libraries. The libraries are the largest collection of proven, well-tested routines covering a broad range of mathematics and statistics. NAG also provides a range of programming tools and compilers, as well as visualisation packages for professionals in industry and education. All of NAG's software is fully supported by the developers themselves, providing customers with comprehensive technical support. NAG Ltd is based in Oxford, UK, with subsidiary companies in Chicago, Munich and Tokyo as well as distributors worldwide.

- **16. Kluwer Academic Publishers**

Spuiboulevard 50
3311 GR Dordrecht, The Netherlands
Tel:+31 78 6393 121
Fax:+31 78 6392 323
Contact: Suzanne Schalken

Kluwer Academic Publishers is one of the world's most prominent research level/academic publishers specialising in Science, Technology, Medicine, the Humanities, Behavioural and Social Sciences.

Kluwer Academic Publishers incorporates the Science and Technology program's of Chapman and Hall, Plenum Publishing (now Kluwer Academic Publishers) and Kluwer Law International.

- **17. To be confirmed**

- **18. Elsevier Science**

Elsevier Science
P O Box 211
1000 AE Amsterdam
The Netherlands
Tel: 31 20 485 3798
Fax: 31 20 485 3809
Contact: Mrs U van Dijk

For over 100 years Elsevier Science has been dedicated to facilitating the exchange of scientific information. Stop by our booth to see how you can win 6 months FREE ELECTRONIC ACCESS to your favourite applied mathematics journals. Of course, a wide range of our journal and book publications will also be available for you to browse through and take away. Our staff will be happy to answer any questions you may have and look forward to meeting you there.

- **20. To be confirmed**

- **21. Wisepress**

Tel: 0181 715 1812
Fax: 0181 715 1722
Email: exhibitions@wisepress.co.uk
Contact: Jerome Carroll

Wisepress is pleased to present a display of new and recent publications especially selected for the 4th International Conference on Industrial and Applied Mathematics by some of the world's leading publishing houses. All the books on display can be bought directly at the stand, or ordered by telephone (0800 068 1812) or email (bookshop@wisepress.co.uk) after the event. We also have free sample copies of several important journals available. Whatever your book requirements our professional staff will be able to assist you.

- **22. Birkhauser Verlag AG**

Viadukstrasse 40-44
4051 Basel, Switzerland
Tel: +41 61 205 07 07
Fax: +41 61 205 07 92
Email: sales@birkhauser.ch
<http://www.birkhauser.ch>

Birkhauser Publishers is the largest scientific publishing company in Switzerland. The programme focuses on books and journals in the fields of mathematics, engineering, biosciences, history of science, geosciences and architecture.

Our book series and journals in the field of industrial and applied mathematics are:

Book series:

- Annals of the International Society of Dynamic Games
- International Series of Numerical Mathematics
- Mathematical Modelling
- Modelling and Simulation in Science, Engineering and Technology
- Systems and Control: Foundations and Applications

Journals:

- Computational and Applied Mathematics (CAM)
- Nonlinear Differential Equations and Applications (NoDEA)
- Zeitschrift für Angewandte Mathematik und Physik (ZAMP)

- **23. Cambridge University Press**

Edinburgh Building
Shaftesbury Road
Cambridge CB2 2RU, UK
Tel: 01223 312 393
Fax: 01223 315 052
Email: aharvey@cup.stanford.edu,
dtranah@cup.cam.ac.uk
Contact: Dr Alan Harvey, Mr David Tranah

Cambridge University Press is one of the oldest and most distinguished publishers in applied and computational mathematics. Its list of prestigious publications include the Journal of Fluid Mechanics, the European Journal of Applied Mathematics, which is sponsoring the Congress Reception, and the Cambridge Monographs in Mechanics, Cambridge Texts in Applied Mathematics, and Cambridge Monographs on Applied and Computational Mathematics. Titles in these series, and many other books and journals will be on display and for sale at a discount to ICIAM99 participants at our exhibit, where our editors Alan Harvey and David Tranah will be happy to discuss editorial matters.

- **24. Institute of Physics Publishing**

Dirac House
Temple Back
Bristol BS1 6BE, UK
Tel: 0117 929 7481
Fax: 0117 929 4318
Email: custserv@ioppublishing.co.uk
Contact: Georgina Gurnhill

Institute of Physics Publishing is a publisher of books, journals and magazines in physics and related subjects. Visit our stand for free sample copies of our leading mathematical journals. Our representatives will be pleased to provide demonstrations of our award-winning Electronic Journals

service, featuring HyperCitetm linking and multi-media functionality. Other electronic products on display include Axiomtm, the Institute's new Web-based research service featuring the INSPEC and Compendex databases. Browse through our latest collection of applied mathematics and mathematical physics books, including the recently published "Statistical Mechanics" by T. Dorlas and "Applications of Lie's Theory of Ordinary and Partial Differential Equations" by L. Dresner.



Useful Telephone Numbers

Public telephones can be found throughout the campus in various locations including Appleton Tower, Teviot Row House and Crichton Street. Public telephones use coins, credit cards or phone cards which are widely available in shops and post offices. Please note the following:

- To call an Edinburgh number within Edinburgh, it is not necessary to dial the code 0131
- To call a number elsewhere in the UK, you must use the area code which begins 01
- To make an international call dial 00 followed by the country code and area code
- To call the Operator dial 155
- To call Directory Enquiries dial 192
- To call International Directory enquiries dial 153

The following numbers are for calls made within UK - precede with +44 and remove the first 0 for calls made outwith the UK.

Airports and Airlines

Edinburgh Airport	0131 333 1000
Glasgow Airport	0141 887 1111
London Gatwick	01293 535 353
London Heathrow	0181 759 4321
London Luton Airport	01582 405 100
Air France	0131 333 5050
Air UK	0345 666 777 (reserv.) 0131 344 3325 (enq.)
British Airways	0345 222 111 (reserv.)
British Midland	0345 554 554 (reserv.) 018494 22888 (enq.)
Delta Air Lines	0800 414 767
Easy Jet	01582 702 900
Sabena	0131 344 3222

Trains

Rail Enquiries	0345 484 950
----------------	--------------

Bus Information

St Andrews Square	
Bus Station	0131 558 1616
National Express	0990 808 080
Stagecoach	0141 333 1100
Traveline (local inform.)	0131 225 3858

Taxi Cabs

City Cabs	0131 228 1211
Central Radio Taxis	0131 229 2468

Capital Castle Taxis 0131 228 2555/
 0131 220 0604

Edinburgh Tourist Board

General Enquiries 0131 557 1700

Car Hire

Avis 0131 337 6363

Arnold Clark 0131 228 4747

Mitchells Self Drive 0131 229 5384

Eurodollar 0131 555 0565

Hertz Rent-a-Car 0131 556 8311

EuropCar Inter-rent 0131 557 3456

Melville's 0131 337 5333

Congress Venue

Edinburgh University 0131 650 1000