



## ANNOUNCEMENTS

### 1. FORTHCOMING MEETINGS OF THE INSTITUTE OF ACOUSTICS

All enquiries about the Institute of Acoustics should be addressed to the Secretary, Institute of Acoustics, 77A St Peter's Street, St Albans, Herts AL1 3BN, England; tel.: +44(0) 1727 848195; fax: +44(0) 1727 850553; e-mail: [acoustics@clus.ulcc.ac.uk](mailto:acoustics@clus.ulcc.ac.uk); website <http://ica.essex.ac.uk/ioa>

### 2. PHOTOMEC '99, LIEGE, BELGIUM, 25–27 NOVEMBER 1999

PHOTOMEC '99 will be the first European Workshop devoted to the increasing use of combined opto-electronic/mechanical/systems and their related control. Information can be obtained from the Secretariat at BSMEE-PROMOPTICA 5 Rue Leonardo da Vinci, B 1000 Brussels; tel.: 32-2-7360272; fax: 32-2-7429698; <http://mrdec.fpms.ac.be/bsmee>

### 3. FOURTH INTERNATIONAL CONFERENCE ON VIBRATION PROBLEMS, JADAVPUR UNIVERSITY, CALCUTTA, INDIA, 27–34 NOVEMBER 1999

Conference topics include the following: Non-linear dynamic analysis of structures; Vibrations of beams, plates and shells; Vibrations due to thermal and mechanical loading; Shock-induced vibrations; Random vibrations; Buckling and post-buckling behaviour; Acoustics and vibration problems of physics; Vibration problems in biomedical engineering; Structural dynamics and extreme load analysis, Elastic waves and seismic response; Elastic-plastic behaviour of materials; Computational and numerical methods applicable to vibration problems; Vibration problems associated with nuclear structures; Nuclear and power engineering; Recent developments in related topics. Further information can be obtained from Dr. M. M. Banerjee (Co-Chairman), ICOVP, Secretariat, Department of Mathematics, A.C. College, Jalpaiguri-735 101, W.B., India; tel.: +91 3561 23629/22107; fax: +91 3561 23149.

### 4. 2ND COST-G6 WORKSHOP ON DIGITAL AUDIO EFFECTS, TRONDHEIM, NORWAY, 9–11 DECEMBER 1999

Information can be obtained from the Workshop Secretariat; DAFX99, SEVU Congress Department, NTNU, N-7491 Trondheim, Norway, [dafx99@sevo.ntnn.no](mailto:dafx99@sevo.ntnn.no); Telephone +47 7359 5669; Fax +47 7359 5150; website <http://.notan.uio.no/dafx99>.

## 5. A-PVC '99, SINGAPORE, 13–15 DECEMBER 1999

This conference continues the series of biennial Asia-Pacific Vibration Conferences which began in 1985. The Conference will be broadly classified under the following categories: Analytical and computational methods; Biomedical applications; Damping; Dynamics of machines, structures and robots; Dynamics of plant structures and systems; Effects of noise and vibration; Experimental modal analysis; Impact dynamics; Industrial noise and vibration; Machine condition monitoring; Noise sources and control elements; Non-linear vibration and chaos; Rotor dynamics and turbomachinery; Vehicle dynamics and control; Vibration isolation and reduction; Vibration control; Other related topics. Information can be obtained from the A-PVC '99 Secretariat: Attn. Ms Merlin Toh, A-PVC '99 Secretariat, Nanyang Technological University, Conference Management Centre, Administration Annex #04-06, Nanyang Avenue 639798 Singapore; tel.: (65) 790-4723; fax: (65) 793-0997; e-mail: APVC99@ntu.edu.sg; homepage <http://www.nut.edu.sg/mpe/apvc99>

## 6. INTERNATIONAL CONFERENCE: STOCHASTIC VOLUME AND SURFACE SCATTERING: RECENT DEVELOPMENTS IN UNDERWATER ACOUSTICS, UNIVERSITY OF CAMBRIDGE, 15–17 DECEMBER 1999

All enquiries relating to this meeting should be addressed to the conference organisers: Dr. Barry, J. Uscinski, DAMTP, University of Cambridge, Silver Street, Cambridge, CB3 9EW, tel.: +44(0) 1223 337876; fax: +44(0) 1223 337918; e-mail: [bjul@damtp.cam.ac.uk](mailto:bjul@damtp.cam.ac.uk); Dr. Peter F Dobbins, BAeSEMA, PO Box 5, Filton, Bristol, BS34 7QW; tel.: +44(0) 117 918 8056; fax: +44(0) 117 918 8422; e-mail: [InstAcoust@aol.com](mailto:InstAcoust@aol.com), or [peter.dobbins@baesema.co.uk](mailto:peter.dobbins@baesema.co.uk). Abstracts should be sent to Peter Dobbins at the above address, preferably by e-mail. The latest conference information will be found at the Underwater Acoustics Group website: <http://members.aol.com/InstAcoust/underwater/>

## 7. SEC 2000 STRUCTURAL ENGINEERING CONVENTION, MUMBAI (BOMBAY), INDIA, 5–8 JANUARY 2000

Information can be obtained from Secretariat, SEC-2000, Department of Civil Engineering, Indian Institute of Technology, Bombay, Powai, Mumbai-400 076, India; tel.: +91 22 576-7310/576-7333; fax: +91 22 576-7302/578-3480; e-mail: [sec2000@civil.iitb.ernet.in](mailto:sec2000@civil.iitb.ernet.in); <http://www.civil.iitb.ernet.in/sec2000/>

## 8. SACAM 2000, INTERNATIONAL CONFERENCES ON APPLIED MECHANICS, DURBAN, SOUTH AFRICA, 11–13 JANUARY 2000

Information can be obtained from Professor S. Adali, Department of Mechanical Engineering, University of Natal, Durban 4041, South Africa; tel.: +27 31 260 3203; fax +27 31 260 3217; e-mail: [adali@eng.und.ac.za](mailto:adali@eng.und.ac.za); see also <http://www.und.ac.za/und/mech/conference.html>

9. 40TH ISRAEL ANNUAL CONFERENCE ON AEROSPACE SCIENCES, TEL-AVIV AND PAIFA, ISRAEL, 23–24 FEBRUARY 2000

Information can be obtained from the Secretariat, 40th Israel Annual Conference on Aerospace Sciences, c/o Faculty of Aerospace Engineering, Technion-Israel Institute of Technology, Haifa 32000, israel; telephone +972-4-8292713; fax +972-4-8231848; e-mail: [alice@aerodyne.technion.ac.il](mailto:alice@aerodyne.technion.ac.il); website <http://www.aero.technion.ac.il/aeroconl.htm>.

10. AFM 2000, THIRD INTERNATIONAL CONFERENCE ON ADVANCES IN FLUID MECHANICS, MONTREAL, CANADA, 24–26 MAY 2000

Information can be obtained from the Conference Secretariat, Advances in Fluid Mechanics 2000, Wessex Institute of Technology, Ashurst Lodge, Ashurst, Southampton SOYO 7AA, UK: telephone +44(0) 2380 293223; fax +44(0) 2380 292853; e-mail [wit@wessex.ac.uk](mailto:wit@wessex.ac.uk)

11. 9TH NORDIC SYMPOSIUM ON TRIBOLOGY-NORDTRIB 2000, PORVOO, FINLAND, 11–14 JUNE 2000

Contact person: Mr. Peter Andersson, VTT Manufacturing Technology, P.O. Box 1702, FIN-02044 VTT, Finland; tel.: +3589 456 5387; fax: +3589 460 627; e-mail: [peter.andersson@vtt.fi](mailto:peter.andersson@vtt.fi)

12. MCS 2000 INTERNATIONAL CONFERENCE ON MONTE CARLO SIMULATION, MONTE CARLO, MONACO, 18–21 JUNE 2000

Information can be obtained from Institute of Engineering Mechanics, Monte Carlo Simulation 2000 Conference, Attn. Mrs. Daniela A. Gratzner, Secretariat, Leopold-Franzens University (LFU), Technikerstr. 13, A-6020 Innsbruck, Austria EU; tel.: +43 512 507 6841; fax: +43 512 507 2905; e-mail: [Mechanik@uibk.ac.at](mailto:Mechanik@uibk.ac.at)

13. 7TH INTERNATIONAL CONFERENCE ON FLOW-INDUCED VIBRATIONS: FIV 2000, LUCERNE SWITZERLAND, 19–21 JUNE 2000

Information can be obtained at the Conference e-mail: [fiv.2000@hta.fhz.ch](mailto:fiv.2000@hta.fhz.ch), or at the Internet address: <http://www.hta.fhz.ch/fachst/ffj/fiv2000>

14. SECOND EUROPEAN CONFERENCE ON STRUCTURAL CONTROL, CHAMPS-SUR-MARNE, FRANCE, 3–7 JULY 2000

Information can be obtained from the Organizing Committee of the Second European Conference on Structural Control, Laboratoire des matériaux et des structures du génie civil, UMR113 LCPC/CNRS, 2 allée Kepler, 77420 Champs sur Marne, France; telephone +33(0) 1 40 43 54 59; fax +33(0) 1 40 43 54 50, or +33(0)1 40 43 54 85; e-mail [zeccs@lcpc.fr](mailto:zeccs@lcpc.fr); website <http://www.lcpc.fr/LCPC/service/congres/str.control/zeccall1html.html>.

15. 7TH INTERNATIONAL CONGRESS ON SOUND AND VIBRATION, GARMISCH-PARTENKIRCHEN, GERMANY, 4–7 JULY 2000

The International Institute of Acoustics and Vibration, IIAV, will hold its Seventh International Congress on Sound and Vibration, ICSV7, on 4–7 July, 2000 in Garmisch-Partenkirchen, Germany. Contact: Hanno Heller, DLR--Institut für Entwurfsaerodynamik, Lilienthalplatz 7, D-38108 Braunschweig, Germany; fax: +49(0) 531 295 2320; e-mail: [hanno.heller@dlr.de](mailto:hanno.heller@dlr.de); Web <http://www.iiav.org/icsv7.html>

16. 7TH INTERNATIONAL CONFERENCE ON RECENT ADVANCES IN STRUCTURAL DYNAMICS, ISVR, UNIVERSITY OF SOUTHAMPTON, ENGLAND, 22–25 JULY 2000

Information can be obtained from Dr N. S. Ferguson, ISVR, University of Southampton, Southampton SO17 1BJ, England; fax: +44(0) 1703 593190; e-mail [nsf@isvr.soton.ac.uk](mailto:nsf@isvr.soton.ac.uk)

17. ICTAM 2000, 20TH INTERNATIONAL CONFERENCE OF THEORETICAL AND APPLIED MECHANICS, CHICAGO, ILLINOIS, USA, 27 AUGUST–2 SEPTEMBER 2000

Information can be obtained from Prof. James W. Phillips, Secretary-General, ICTAM 2000, Department of Theoretical and Applied Mechanics, University of Illinois at Urbana-Champaign, 104 South Wright Street, Urbana IL 61801-2983, USA; fax +1 217 244 5707; website <http://www.tam.uiuc.edu/ICTAM2000>.

18. INTER-NOISE 2000, NICE, FRANCE, 28–30 AUGUST 2000

This is the 29th International Congress on Noise Control Engineering to be sponsored by the International Institute of Noise Control Engineering. A major topic for discussion will be Transport and Community Noise. Information can be obtained from the Congress Secretariat: INTER-NOISE 2000; INRETS LEN, 25 avenue François Mitterand, Case 24, 69675 Bron Cedex, France; tel.: +33(0) 472 14 23 00; fax: +33(0) 472 37 68 37; e-mail: [internoise2000@inrets.fr](mailto:internoise2000@inrets.fr); homepage <http://www.inrets.fr/services/manif>

19. NOVEM 2000, LYON, FRANCE, 31 AUGUST–2 SEPTEMBER 2000

NOVEM 2000 immediately follows INTER-NOISE 2000 and is linked to it. Information can be obtained from the NOVEM 2000 Secretariat, Laboratoire Vibrations-Acoustique-LVA, INSA de Lyon, 20, avenue Albert Einstein, 69621 Villeurbanne, France; telephone +334 7243 8707; fax +33 4 7243 8712; e-mail [novem@lva.insa-lyon.fr](mailto:novem@lva.insa-lyon.fr); website <http://lva.insa-lyon.fr/novem2000>; link to Inter-Noise [zochttp://www.inrets.fr/services/manif](http://www.inrets.fr/services/manif)

20. CFA 2000, 5e CONGRÈS FRANCAISE D'ACOUIQUE, LAUSANA, SWITZERLAND, 3–6 SEPTEMBER 2000

Information can be obtained from the Organizing Committee, CFA 2000, Laboratoire d'Acoustique (UMR-CNRS 6613), IAM, Université du Maine, 72085 LE MANS CEDEX 9, FRANCE; e-mail [cfa2000@univ-lemans.fr](mailto:cfa2000@univ-lemans.fr); website <http://cfa2000.univ-lemans>

21. 7TH INTERNATIONAL CONFERENCE ON VIBRATIONS IN ROTATING MACHINERY, NOTTINGHAM, ENGLAND, 12–14 SEPTEMBER 2000

Information can be obtained from Ed Maycock, Conferences and Events Department C576, Institution of Mechanical Engineers, 1 Birdcage Walk, London SW1H 9JJ; telephone +44(0) 171 973 1316; fax +44(0) 179 222 9881; e-mail [e-maycock@imech.org.nk](mailto:e-maycock@imech.org.nk).

22. ISMA 25, INTERNATIONAL CONFERENCE ON NOISE AND VIBRATION ENGINEERING, LEUVEN, BELGIUM, 13–15 SEPTEMBER 2000

Associated with the Conference, during the same period, are a course on Modal Analysis Theory and Practice and a seminar on Advanced Techniques in Applied and Numerical Acoustics. Information can be obtained from The Conference Secretary, Mrs. L. Notré, K. U. Leuven, PMA Division, Celestijnen laan 300 13, 3001 Leuven, Belgium; telephone (+ 32) 16 32 24 82; fax (+ 32) 16 32 27 97; e-mail [lieve.notre@mech.kuleuven.ac.be](mailto:lieve.notre@mech.kuleuven.ac.be); website <http://www.mech.kulenven.ac.be/pma/events/isma/isma.html>.

23. 4TH EUROMECH FLUID MECHANICS CONFERENCE, EINDHOVEN, THE NETHERLANDS 19–23 NOVEMBER 2000

Information can be obtained from the Secretarial EFMC2000, Mrs. A. M. E. H. Peeters, Fluid Dynamics Laboratory, Department of Physics, Eindhoven University of Technology, P.O. Box 513, 5600 MB Eindhoven, The Netherlands; telephone +31(0) 40 247 3110 or +31(0) 40 247 2140; fax +31(0) 40 246 4131; e-mail [info@efmc2000.tue.nl](mailto:info@efmc2000.tue.nl); website [www.efmc2000.tue.nl](http://www.efmc2000.tue.nl).

24. EUROMECH MEETINGS IN 1999 AND 2000

The EUROMECH Council has overall responsibility for Euromech Colloquia and EUROMECH Conferences. EUROMECH Colloquia are informal meetings on specialized research topics. Participation is restricted to a smaller number of research workers actively engaged in the field of each colloquium. The organization of each Colloquium, including the selection of participants for invitation, is entrusted to a Chairman. Proceedings are not normally published. Those who are interested in taking part in a Colloquium should write to the appropriate

Chairman. The number, Title, Chairman or Co-chairmen, Dates and Location for each Colloquium in 1999, and preliminary information for some Colloquia in 2000, are as follows: Fluid-Structure Interaction in Ocean Engineering, Prof. E. Kreuzer, Meerestechnik II—Mechanik, Technische Universität Hamburg-Harburg, Eissendorfer Str. 42, 21073 Hamburg, Germany, e-mail: [kreuzer@tu-harburg.de](mailto:kreuzer@tu-harburg.de), Prof. O. von Estorff, 11–15 October, 1999, Hamburg, Germany; 399. Cancelled; 26–29 September 1999, London, 402. Micromechanics of Fracture Processes, Prof. D. Gross, Institute of Mechanics, TU Darmstadt, Hochschulstrasse 1, D-64289 Darmstadt, Germany, e-mail: [gross@prandtl.mechanik.th-darmstadt.de](mailto:gross@prandtl.mechanik.th-darmstadt.de). Prof. D. Fischer, Prof. E. Van der Giessen, 24–27 October 1999, near Darmstadt, Germany; 403. Turbulence in High Speed Compressible Flows, Prof. J. P. Bonnet, Laboratoire d'Etudes Aérodynamique, CEAT—43 route de l'Aérodrome, F-86036, Poitiers, France, e-mail: [bonnet@univ-poitiers.fr](mailto:bonnet@univ-poitiers.fr), Dr. Otto Leuchter, ONERA, 2–4 November 1999, Poitiers—Futuroscope, France. Crack Initiation after Extensive Multiaxial Plastic Flow, Prof. A. G. Atkins, Dept. of Engineering University of Reading, Reading RG6 6AY, England, e-mail: [a.g.atkins@reading.ac.uk](mailto:a.g.atkins@reading.ac.uk), Dr. O. Kolednik, Erich Schmid, Austrian Academy of Sciences, Loeben, Austria, Easter 2000, Reading, England; 407, Symbolical and Geometric Methods in Multibody Kinematics and Dynamics, Prof. A. Kecskemthy, Technical University of Graz, Institute of Mechanics, Kopernikusgasse 24, A-8000, Graz, Austria, e-mail: [kecskemethyl@mech.tugraz.ac.at](mailto:kecskemethyl@mech.tugraz.ac.at), September 2000, Graz, Austria; 408. Interactive Dynamics of Convection and Solidification, Prof. D. S. Riley, Department of Theoretical Mechanics, University of Nottingham, University Park, Nottingham NG7 2RD, England, e-mail: [david.riley@nott.ac.uk](mailto:david.riley@nott.ac.uk), Dr.-Ing.habil P. Ehrhard, Germany, Prof. P.H. Steen, U.S., March 2000; 409. Dynamics and Long-time Behaviour of Railway Vehicles, Track and Substructure, Prof. K. Popp, Institute of Mechanics, University of Hannover, Appelstraße 11, D-30167 Hannover, Germany, Prof. R. Bogacz, Warsaw, Prof. Hans true Lyngby, 6–10 March 2000, Hannover, Germany, 410. The Applications of Computer Algebra to Mechanics, Prof. M. Lesser, Royal Institute of Technology, S-100 44 Stockholm, Sweden, E-mail: [mlesser@mech.kth.se](mailto:mlesser@mech.kth.se), Prof. Dr. -Ing. E. Kreuzer, April/May 2000, Stockholm, Sweden: 411. 3C Stereo and Holographic PIV. Application to Turbulence Measurements, Doc. M. Trinite, Coria—UMR 6614, UNIVERSITE et INSA de Rouen, 76821 Mont Saint Aignan Cedex, e-mail: [trinite@coria.fr](mailto:trinite@coria.fr). Dr. J. Kompenhans, Prof. M. Stanislas, 12–14 April 2000, Rouen, France, France. Early in 1998 the offices of President, Secretary General and Treasurer of EUROMECH were taken up by H. H. Fernholz, M. Okrouhlik and E. Hopfinger, succeeding respectively D. G. Crighton (who has become Vice-President), B. Lundberg and E.-A. Müller. The new officers' addresses are as follows: (President) Professor Hans Hermann Fernholz, Hermann-Fottinger Institut für Strömungsmechanik, Technische Universität Berlin, Strasse des 17. Juni 135, D-10623 Berlin, Germany; (Secretary General) Assoc. Professor Miloslav Okrouhlik, Institute of Thermomechanics, Dolejškova 5, CZ-18200 Prague 8, The Czech Republic; (Treasurer) Professor Emil J. Hopfinger, LEGI/IMG, Domaine Universitaire, B.P. Box 53, F-38041 Grenoble Cedex 09, France.

## 25. VON KÁRMÁN INSTITUTE FOR FLUID DYNAMICS LECTURE SERIES

To encourage participation in the lecture series programme by university assistants and undergraduate students, the Institute has established a limited number of VKI Lecture Series Fellowships for participants from NATO countries which support the Institute. The recipient of a fellowship is entitled to attend the lecture series at a reduced fee. For example, the reduced fee applied to a lecture series carrying a full fee of 25 000 BF will be 12 500 BF for assistants or 1500 BF for undergraduate students. (In the latter case, meals are not included.) The request to be considered for an award must provide a recommendation from his professor. All possible alternative sources of funding should be investigated before aid is requested under this scheme, so that those most in need will benefit. Further information can be obtained from the von Kármán Institute for Fluid Dynamics Lecture Series Secretariat, Chaussée de Waterloo 72, B-1640 Rhode-Saint-Genèse, Belgium; tel.: +32-2-359.96.04; fax: +32-2-359.96.00

## 26. CISM PROGRAMME

Detailed information concerning courses organized by the International Centre for Mechanical Sciences (CISM), Italy, can be obtained from CISM, Palazzo del Torso, Piazza Garibaldi 18, I-33100 Udine, Italy; tel.: +39(432)294 989 or 508 251; fax: +39(432)501 523; e-mail [cism@cc.uniud.it](mailto:cism@cc.uniud.it); <http://www.uniud.it/cism> homepage.htm

## 27. ISVR SHORT COURSES AND CONFERENCES

Information on ISVR Short Courses and Conferences may be obtained from the ISVR Conference Secretary, Institute of Sound and Vibration Research, University of Southampton, Southampton SO17 1BJ, England; tel.: +44(0) 1703 592294; fax: +44(0) 1703 593190; <http://www.iscvur.soton.ac.uk/courses/short>

## 28. PURDUE UNIVERSITY SHORT COURSES

The dates for these include the following: 23–24 July 2000, Compressor and Refrigeration short Courses, followed by 25–28 July 2000 International Compressor Engineering and Refrigeration Conferences; in 2002 the corresponding respective dates are 14–15 July and 16–19 July. Information can be obtained from Cynthia Quilten, Purdue University, 1077 Ray W. Herrick laboratories, West Lafayette IN 47907-1077; telephone (765) 404-6078; fax (765) 494-0787; e-mail [herconf@ecn.purdue.edu](mailto:herconf@ecn.purdue.edu); website <http://ecn.purdue.edu/Herrick/Herrick.Conf>.

## 29. EUROPEAN UNION LARGE-SCALE FACILITIES PROGRAMME: ACCESS TO LARGE SHAKING TABLES AND REACTION-WALL FACILITIES

The commission has agreed to provide funded access for researchers to the large shaking tables and reaction-wall facility under its Training and Mobility of Researchers (TMR) Programme. Application for such access from nationals of

a Member State of the Community or Associated State is now invited. Applicants (from universities, research/technical institutes or industries) with interests in research in structural engineering and dynamic testing should apply by submitting their research proposals and the likely amount of access required to ISMES or to any of the laboratories listed below for consideration by a Management Panel appointed by the Commission. Approved users will receive travel and subsistence costs from the host laboratory. The access to the facilities will be free of charge for a researchers and a contribution for the construction of test models will be supported. The community requires the scientific interest of the proposed research and the maximum publicity of the supported access. More precise details are available from Dr. G. Franchioni, Structural Dynamic Testing Laboratory—IS-MES Sp.A., Via Pastrengo, 9, 24068 Seriate (GB), Italy, telefax: +39 35 302999; tel.: +39 35 307612. Other Large scale Facilities include NTUA—Athens (GR), Professor P. G. Carydis, telefax: +301 7721182; tel.: +301 7721185; CEA—Saclay (F), Dr. P. Sollogoub, telefax: +331 69088331; tel.: +331 69082716, ELSA—JRC Ispra (1), Dr G. Verzeletti, telefax: +39 332 789049; tel.: +39 332 789368, LNEC—Lisbon (P). Dr. E. Carvalho, telefax: +351 8497660; tel.: +351 18482131, EERC—Bristol (U.K.), Professor R. T. Severn, telefax: +44 117 9287783; tel.: +44 117 9287708

### 30. JOURNAL OF SOUND AND VIBRATION P.E. DOAK AWARD

This annual Award of £3,000 has been established by Academic Press in conjunction with the Institute of Sound and Vibration Research, University of Southampton. It is open to applicants who have applied for registration for the M.Sc. degree in Sound and Vibration Studies/Automotive Dynamics/Noise and Vibration/Audiology. Further information is available from Gioia Ghezzi at Academic Press; +44(0) 171 424 4243; e-mail: [gioia\\_ghezzi@harcourtbrace.com](mailto:gioia_ghezzi@harcourtbrace.com). Alternatively, contact Maureen Strickland at ISVR, +44(0) 1703 592294; e-mail: [mzs@isvr.soton.ac.uk](mailto:mzs@isvr.soton.ac.uk)