



ANNOUNCEMENTS

1. FORTHCOMING MEETING OF THE INSTITUTE OF ACOUSTICS

All enquiries about the Institute of Acoustics should be addressed to the Secretary, Institute of Acoustics, Agriculture House, 5 Holywell Hill, St. Albans, Herts AL1 1EU, England; telephone +44 (0) 1727 848195; fax +44 (0) 1727 850553; E-mail Acoustics@clus.ulcc.ac.uk.

2. 8TH INTERNATIONAL CONFERENCE ON ADAPTIVE STRUCTURES AND TECHNOLOGIES (ICAST '97), WAKAYAMA, JAPAN, 29–31 OCTOBER 1997

Conference topics include the following: Adaptive structures; Intelligent/smart materials and structures; Actuators and sensors; Controlled structures; Vibration control and suppression; Structured acoustic and noise control; Quasistatic adjustment; System identification; Space robots; On-line damage detection; Pointing and alignment precision. Further information can be obtained from ICAST '97 Secretariat, Professor H. Okubo, Department of Aerospace Engineering, Osaka Prefecture University, 1-1 Gakuen-Cho, Sakai, Osaka 593, Japan; fax (+81) 722-59-3340; E-mail okubo@aero.osakatu-u.ac.jp.

3. FIRST CEAS–ASC WORKSHOP ON WIND TUNNEL TESTING IN AEROACOUSTICS, DNW, NOORDOSTPOLDER, THE NETHERLANDS, 5–6 NOVEMBER 1997

The Aeroacoustics Specialists' Committee (ASC) of the Confederation of European Aerospace Societies CEAS announces its first international workshop on Wind Tunnel Testing in Aeroacoustics to be held at the German–Dutch Wind Tunnel DNW. The event is to outline the state of the art in this field and to discuss the latest achievements in wind tunnel testing techniques. The workshop will provide a unique possibility of scientific exchange among the participants. The first CEAS–ASC Workshop on Wind Tunnel Testing in Aeroacoustics will cover the following topics: Source location techniques (acoustic arrays and mirrors); The correlation between local unsteady flow and radiated sound; Comparison of model and full-scale testing; Suppression of microphone self-noise; Test-section reverberation and background noise; Sound transmission through shear layers; Signal processing. The workshop will be organized into formal presentations, with an abstract being the only written material required. At the meeting a folder will be available containing the abstracts and copies of the viewgraphs shown. No parallel sessions are planned; time will be set aside for questions and discussion. The Wind Tunnel Testing in Aeroacoustics, Workshop Secretariat, c/o National Aerospace Laboratory NLR, Attn. Mrs A. Bredt, P.O. Box 90502, 1006 BM Amsterdam, The Netherlands; telephone +31 20 511 3651 or 3244; fax +31 20 511 3210; E-mail asbr@nlr.nl.

4. ASME 4TH INTERNATIONAL SYMPOSIUM ON FLUID–STRUCTURE INTERACTIONS, AERO-ELASTICITY, AND FLOW-INDUCED VIBRATIONS AND NOISE, DALLAS, TEXAS, U.S.A., 16–21 NOVEMBER 1997

This is the sequel to the successful 1984, 1988 and 1992 Symposia, co-sponsored by JSME, IMechE, CSME and IAHR. All three were sponsored by the ASME Division of Applied Mechanics, Fluids Engineering, Heat Transfer, Noise Control & Acoustics Nuclear Engineering, and Pressure Vessels & Piping. The upcoming symposium will be

co-sponsored by the same Division, but this time also by the Aerospace Division (the Aerospace Sessions will be coordinated by Professor Peretz Friedmann). Co-sponsorship by the same international organization is being sought for the 1997 Symposium. The 1984, 1988 and 1992 Symposia involved 70, 85 and 102 papers, and the proceedings were published in six, seven and eight volumes, respectively. The 4th International Symposium in 1997 is expected to increase in size, with 25–30 sessions involving 100–300 papers. Papers in the general areas of fluid–structure interactions, aeroelasticity, hydroelasticity, flow excitation and flow-induced vibrations and noise, and unsteady fluid dynamics related to FSI are included—both fundamental papers, with no particular application, and papers related to or inspired by specific systems in aerospace, mechanical and naval engineering. Theoretical, experimental and computational papers are equally welcome. Further information can be obtained from Michael P. Paidoussis, Department of Mechanical Engineering, McGill University, 817 Sherbrooke Street West, Montreal, QC, Canada H3A 2K6; telephone (514)-398-6294; fax (514)-398-7365; E-mail maryf@mecheng.1an.mcgill.ca.

5. WESTPRAC VI 97, HONG KONG, 19–21 NOVEMBER 1997

The Western Pacific Regional Acoustics Conference is to be held for the second time in Hong Kong. Previous conferences have been in Singapore (1982), Hong Kong (1985), Shanghai (1988), Brisbane (1991) and Seoul (1994). The organizers are the Hong Kong Institute of Acoustics, the Hong Kong Polytechnic University and the Hong Kong Institute of Engineers. Co-organizers are the Acoustical Societies of America, Australia, Brazil, China, India, Italy, Japan and Korea, the Iberoamerican Acoustical Federation, the Institute of Acoustics, U.K., and the International Institute of Noise Control Engineering. Conference topics include the following: active noise and vibration control; architectural acoustics; computing technology for acoustics; environmental noise control; measurement and instrumentation; physical acoustics; speech analysis/signal processing; transportation noise; underwear acoustics. Accepted papers will be published in the conference proceedings. Further information can be obtained from the Secretary, Dr S. K. Tang, Department of Building Services Engineering, The Hong Kong Polytechnic University, Hung Hom, Kowloon, Hong Kong; telephone -(852) 27665855; fax -(852) 27746146; E-mail besktang@polyu.edu.kh. www—<http://www.polyu.edu.hk/~westprac>; <http://www.metu.edu.tr/~wwwichmt>.

6. 7TH ICOSSAR, KYOTO, JAPAN 24–28 NOVEMBER 1997

The 7th International Conference on Structural Safety and Reliability (ICOSSAR) will be held on 24–28 November 1997 in the beautiful historic city of Kyoto, Japan. Four to five hundred participants are expected. ICOSSAR is a major international forum for the exchange of information and discussion of recent developments in structural safety and reliability. The Conference will address the decision-making process for design, quality assurance and construction of major structural systems. Topics include basic theory and methods, design concepts and methods, damage/maintenance, deterioration/rehabilitation, applications to geotechnical, earthquake, offshore and wind engineering, and social-economical impacts. Further information can be obtained from: ICOSSAR Secretariat, c/o School of Civil Engineering, Kyoto University, Kyoto, 606-01, Japan; telephone 81-75-753-5093; fax 81-75761; E-mail; icos97@brdgeng.gee.kyoto.u.ac.jp.

7. INSTITUTE OF ACOUSTICS 1997 AUTUMN CONFERENCE—NOISE AND VIBRATION: CODES, STANDARDS AND CRITERIA, HYDRO HOTEL, WINDERMERE, 27–30 NOVEMBER 1997

The aim of the Autumn Conference, which is being organized by the Environmental Noise Group, is to examine the Codes of Practice, Standards and Criteria which provide the basis for assessing the effects of noise and vibration. Twelve sessions are planned, covering a wide range of topics: Motor sports; Clay pigeon shooting and gunshot noise; Local authority guidance; 1982 Codes; Latest research; Construction noise; Vibration; PPG 24; Industrial noise; Building acoustical and sound insulation. Further information can be obtained from the Institute of Acoustics, 5 Holywell Hill, St Albans, Herts AL1 1EU; telephone 01727 848195; fax 01727 850553; E-mail Acoustics@clus1.ulcc.ac.uk.

8. 5TH INTERNATIONAL CONGRESS ON SOUND AND VIBRATION, ADELAIDE, AUSTRALIA, 15–18 DECEMBER 1997

The 5th International Congress on Sound and Vibration will be held on 15–18 December 1997 at the University of Adelaide, South Australia. The second to be organized under the auspices of the International Institute of Aeronautics and Vibration, it is sponsored by the IIAV, the University of Adelaide and the Australian Acoustical Society. Contributed papers are invited, covering theoretical and experimental research as well as technology application in the following areas: active noise control; active vibration control; aero-acoustics; architectural acoustics; boundary element and finite element methods; condition monitoring and diagnostics; damping—passive and active; environmental/community noise; human response to sound and vibration; inverse methods; machinery noise and vibration control; materials for noise and vibration control; measurement techniques; mechanisms of human hearing; modal analysis; musical acoustics; noise control elements; non-destructive testing; non-linear acoustics; non-linear vibration; occupational noise exposure and control; outdoor sound propagation; scattering of sound; signal processing; sound intensity; sound sources; sound transmission; statistical energy analysis; structural acoustics and vibration; structural intensity; transportation vibration and noise; underwater acoustics; vibration and shock; vibration sources; and wavelet analysis. Further information may be obtained from the ICSV5 Secretariat, Department of Mechanical Engineering, University of Adelaide, South Australia 5005, Australia; telephone +61 8 8303 5460; fax +61 8 8303 4367; E-mail icsv5@mecheng.adelaide.edu.au.

9. UNDERWATER BIO-SONAR SYSTEMS AND BIO-ACOUSTICS SYMPOSIUM, LOUGHBOROUGH UNIVERSITY, U.K., 16–17 DECEMBER 1997

This first Institute of Acoustics Symposium on Underwater Bio-Sonar and Bioacoustics is in response to the growing public interest in the effects of man-made sound on the environment. New regulations to enforce environmental impact studies are now common in many parts of the world. To make such impact studies more meaningful, acoustic engineers and oceanographers need to be more aware of the possible environmental effects of their activities and marine biologists need to address the serious lack of acoustic sensitivity data available for most marine species. To encourage appropriate cross-discipline participation, symposium topics include the following: Marine biological sonar and communication signals; Sound production and reception mechanisms in marine organisms; Environmental impacts of underwater acoustic systems; Performance evaluation of underwater-bio-sonar systems; Data capture systems for the localization and

classification of natural underwater sound sources; sound archive storage and retrieval techniques for the classification of natural underwater sounds. Papers given at this conference will be published in Volume 19 of the *Proceedings of the Institute of Acoustics*, which will be available to symposium delegates at registration. More details are posted at <http://www.lboro.ac.uk/departments/el/meetings/IOA-Bio 97/index.html>. For more information or to register your interest, please contact, preferably by E-mail, either of the two Joint Convenors: Dave Goodson, Loughborough University, Department of Electronic & Electrical Engineering, Loughborough LE11 3TU, UK; E-mail: a.d.goodson@lboro.ac.uk; telephone: +44(0)1509 222846; fax: +44(0)1509 222854; Ed Harland, DRA, Winfrith Technology Centre, Dorchester, Dorset DT2 8XJ; E-mail: harland@dra.hmg.gb; telephone: +44(0)1305 212522; fax: +44(0)1305 212116.

10. ISROMAC-7, THE 7TH INTERNATIONAL MEETING ON TRANSPORT PHENOMENA AND DYNAMICS OF ROTATING MACHINERY, HONOLULU, HAWAII, 22–26 FEBRUARY 1998

The ISROMAC series has a reputation as a forum, both formal and informal, for specialists in rotating machinery to present both state-of-the-art technology and new developments. Further information can be obtained from Dr Agnes Muzynska, Chairperson ISROMAC-7, Bently Rotor Dynamics Research Corporation, 1711 Orbit Way, P.O. Box 2529, Minden, Nevada 89423, U.S.A.: telephone +702-782-3611 ext. 9674; fax +702-782-9236; E-mail agnes@brdrc.com. Also, for latest information, <http://www.bently.com>.

11. 38TH ISRAEL ANNUAL CONFERENCE ON AEROSPACE SCIENCES, TEL AVIV AND HAIFA, 25–26 FEBRUARY 1998

The Conference constitutes a forum for the presentation and discussion of recent advances in the following areas: Aerodynamics and ballistics; Aeronautical design, CAD/CAM, manufacturing and maintenance; Aeronautical systems and system engineering; Computational fluid dynamics; Flight control, guidance and navigation, including avionics; Flight mechanics and performance optimization; Materials, aeronautical structures and aeroelasticity; Propulsion and combustion; Simulators and flight testing; Space systems and astrodynamics. Papers on recent advances in basic research and technology applications in the above mentioned areas, as well as other aerospace-related fields, will be included, including student papers. The accepted manuscripts will appear in the conference proceedings. The conference will include invited lectures. Further information can be obtained from Professor Josef Stricker, Chairman, Papers Committee, 38th Israel Annual Conference on Aerospace Sciences, Faculty of Aerospace Engineering, Technion—Israel Institute of Technology, Haifa 32000, Israel; fax 972-4-8231848; telephone 972-4-8292713; E-mail alice@aerodyne.technion.ac.il.

12. NOISE-CON 98, YPSILANTI, MICHIGAN, 5–8 APRIL 1998

NOISE-CON 98, the 1998 National Conference on Noise Control Engineering, will be held in Ypsilanti, Michigan, on 5–8 April 1998. Ypsilanti is 15 miles west of the Detroit Metro Airport and seven miles east of Ann Arbor. Registration for the meeting will begin on Sunday, 5 April, and the technical sessions will begin on Monday morning, 6 April. A major exhibition of instruments, software, materials, devices and services for noise control will be held. It will open with a reception in the exhibition area on Monday evening, 6 April and close on 8 April. The conference is being organized and sponsored by the

Institute of Noise Control Engineering (INCE) in co-operation with the Society of Automotive Engineers (SAE). Robert J. Bernhard of Purdue University will be the General Chairman for the Conference. J. Stuart Bolton of Purdue and Paul Donovan of General Motors will serve as the Technical Program Chairs. The theme of NOISE-CON 98 will be *Transporting Noise Control to the 21st Century: Planning for a Quiet Future*. Technical papers in all areas of noise control engineering may be presented. Papers on transportation vehicle noise sources, noise control materials and noise control prediction are especially welcome. NOISE-CON 98 will be followed by a *Sound Quality Symposium* on 9 April. Patricia Davies of Purdue University and Gordon Ebbitt of Lear Industries will be the General Chairs. Topics to be covered include automotive sound quality, metrics for complex sounds, sound quality of motors, appliances, and components, and HVAC sound quality. The Announcement is available from the Conference and Symposium Secretariat, Noise Control Foundation, P.O. Box 2469, Arlington Branch, Poughkeepsie, New York, 12603; telephone (914) 462-4006; fax (914) 463-0201; E-mail noisecon98@aol.com. The Announcement can be found on the Internet at <http://users.aol.com/noisecon98/nc98cfp.html>.

13. 4TH AIAA/CEAS JOINT AEROACOUSTICS CONFERENCE, TOULOUSE, FRANCE, 2–4 JUNE 1998

The AIAA/CEAS Aeroacoustics Conference provides an international forum for scientists and engineers from industry, government, research centers and universities to exchange knowledge and results of current studies and to discuss directions for future research. Papers that cover all aspects of the generation, propagation and control of vehicle noise, and the effect of noise on structures and individuals, are to be included: The program's technical content will include theoretical, numerical and experimental contributions that describe original research results and/or innovative design concepts. In addition, in-depth reviews and timely surveys will be considered. Topics for the conference are listed below. Studies in other related areas, particularly the application of aerospace noise suppression technologies in other industries, are encouraged. Technical session topics will include the following: Acoustic/fluid dynamic phenomena; Active noise control; Advanced testing techniques; Community noise and metrics; Computational aeroacoustics; Interior noise/structural acoustics; Jet aeroacoustics; Loads/sonic fatigue; Propeller/prop-fan noise; Rotorcraft and V/STOL noise; Sonic boom/propagation; Turbomachinery and core noise; Airframe/high-lift noise; Duct acoustics. The Technical Cochairs are: Dr G. Fournier, ONERA, BP 72, 92322 Chatillon Cedex, France, fax 33 1 46 73 41 48, E-mail fournierg@onera.fr; Professor T. Colonius, Caltech, Mail code 104-44, Pasadena, California 91125, U.S.A., fax 818 68 2719, E-mail colonius@green.caltech.edu. Technical Session presentations, papers, and abstracts will be in English. A "no paper—no podium" rule will be in effect for all presentations. An author will not be permitted to give his or her presentation if a written paper has not been prepared and made available at the conference. AIAA and CEAS will not consider for presentation or publication any paper that has been or will be presented or published elsewhere. Authors will be required to sign a statement to this effect. Inquiries concerning the administrative arrangements for the conference should be directed to the Administrative Chair, Dr S. Pausin, ONERA–CERT/DERMES, telephone 33 5 62 25 25 72, fax 33 5 62 25 25 73, E-mail AIAA.CEAS98@oncert.fr.

14. TRANSPORT NOISE '98, TALLINN, ESTONIA 8–10 JUNE 1998

This International Symposium conference on Transport Noise and Vibration is organized jointly by the East-European Acoustical Association, The European Acoustic Association

and Tallinn Technical University, and is sponsored by the Krylov Shipbuilding Research Institute and the Baltic State Technical University. Topics within the conference scope include the following: Theoretical investigations of vibration and radiation of transport structures; Diagnostics and measurement of vibroacoustic characteristics of transport equipment and structures; Methods and means of detecting noise and vibration sources; Methods and means of transport vibration and noise control; Methods of calculation of vibration and sound radiation of transport vehicles and traffic noise; Experimental investigation of noise and vibration of vehicles; Reduction of traffic noise by planning, barriers, etc. Effects of noise and vibration on people and the environment; Anti-noise legislation and standards. Professor A. Nikiforov of Russia is the Symposium Chairman. The Scientific Advisory Committee includes members from Denmark, Estonia, France, Russia, Sweden and Ukraine. The official language of the Symposium will be English and Proceedings in English will be given to participants. Further information can be obtained from the Symposium Secretariat, East-European Acoustical Association, 196158, Moskovskoe Shosse, 44, St. Petersburg, Russia; telephone 7-812-2919981; fax 7-812-1279323; E-mail krylspb@sovam.com.

15. 16TH INTERNATIONAL CONGRESS ON ACOUSTICS AND 135TH MEETING OF THE ACOUSTICAL SOCIETY OF AMERICA, SEATTLE, WASHINGTON, U.S.A., 20–26 JUNE 1998

This joint meeting of the ICA and ASA will bring together experts from all fields of acoustics and will provide an international forum for the open exchange of scientific information. The theme of this international meeting is *The Sound of the Future: A Global View of Acoustics in the 21st Century*. The meeting will consist of plenary lectures, invited and contributed papers, poster sessions and exhibits. Topics to be covered include acoustical oceanography, animal bioacoustics, architectural acoustics, biomedical ultrasound, bioresponse to vibration, engineering acoustics, musical acoustics, noise, physical acoustics, psychological and physiological acoustics, signal processing in acoustics, speech communication, structural acoustics and vibration, and underwater acoustics. In addition, there will be Technical Committee meetings and meetings on standards. Technical tours will include Boeing, Microsoft, the University of Washington and Advanced Technology Laboratories. Full conference registration includes a harbor cruise and salmon dinner on Blake Island. Tickets for accompanying persons will be available. One-day tours will be offered to areas of local interest such as Mt. Rainier, Olympic National Park and Historic Seattle. A two-night, post-meeting whale-watching excursion to Washington's San Juan Islands and to Victoria, British Columbia, Canada is planned. Further information can be obtained from the ICA/ASA '98 Conference Secretariat, Applied Physics Laboratory, 1013 NE 40th Street, Seattle, Washington 98105-6698, U.S.A.; telephone 206-543-1275; Fax 206-543-6785; E-mail ICA-ASA98@apl.washington.edu; www:<http://www.apl.washington.edu/ASA/asa.html>. The Catgut Acoustical Society (CAS) and ASA are organizing a joint symposium on musical acoustics, to be held near Seattle, following ICA/ASA '98. For further information contact the CAS office, 112 Essex Avenue, Montclair, New Jersey 07042, U.S.A. (telephone 201-744-4029; fax 201-744-9197; E-mail: catgutas@msn.com).

16. ISMA 23, INTERNATIONAL CONFERENCE ON NOISE AND VIBRATION ENGINEERING, KATHOLIEKE UNIVERSITEIT, LEUVEN, BELGIUM, 16–18 SEPTEMBER 1998

The 1998 Leuven Conference on Noise and Vibration Engineering will be held from 16–18 September in Leuven, Belgium. It is the 23rd in a series of annual courses and biennial conferences on structural dynamics, modal analysis and noise and vibration engineering,

organized by the Department of Mechanical Engineering of the Katholieke Universiteit Leuven. The conference will provide a forum for engineers, researchers and other professionals active in the field of modelling, analyzing, testing and improving the noise and vibration characteristics of mechanical systems and civil structures. The conference combines expertise in the noise and vibration fields by stressing common measurement, modelling, analysis and control technologies. The meeting will provide a further impetus to the cross-fertilization of ideas in both areas. The conference program will include keynote addresses and invited and contributed papers in specialized areas of sound and vibration engineering. The focus of the conference is on topics where the interaction between noise and vibration behaviour is crucial such as vibro-acoustic modelling, noise and vibration harshness (NVH) and active noise and vibration control. Special attention will be paid to recent applications in automotive, aerospace and civil engineering. Modal testing remains one of the backbones of the conference, recent (modal) application fields such as structural integrity assessment and condition monitoring will be stressed as well as the accuracy problems generated by product and test variability. In addition, a series of special sessions will be organized on research activities and results of EC funded research projects (Brite-Euram) related to vibro-acoustics. Contributed papers covering theoretical and experimental research as well as technology application in the following areas are solicited: Acoustic holography; Active noise control; Active vibration control; Condition monitoring and diagnostics; Failure detection and condition assessment using dynamic characteristics; Finite element analysis; Instrumentation, transducers; Measurement techniques; Mid-frequency system modelling; Modal analysis; Modal and response based model updating; Noise and vibration harshness; Non-linearities; Passive and active damping; Product and test variability; Signal processing; Smart structures; Sound quality engineering; Source localisation, transfer path identification; Statistical energy analysis; Structural dynamic optimisation techniques; Structural integrity and durability testing; Vibration energy flow analysis; Vibrations in rotating machinery; Vibro-acoustic modelling. Contributions for the conference are now being solicited. Potential contributors are requested to submit an abstract (40 lines) together with a short curriculum vitae. The scientific committee will decide upon the selection of the papers. If the abstract is selected, the author will be asked to submit a paper (max. 14 pages), suitable for publication in the conference proceedings. Presting authors are entitled to a reduction of 50% on the registration fee. The deadline for submitting abstracts is 1 January 1998. The conference will be held on the city campus of the Katholieke Universiteit Leuven, college "de Valk"; Tiensestraat 41, located in the old centre of Leuven. The Katholieke Universiteit Leuven, founded in 1425, is one of the oldest and most famous universities of the European continent. The historic and artistic past is present everywhere in this charming city, which is the true capital of Brabant. The town hall, the beguinage, the numerous churches, monasteries, convents and university colleges are evidence of a glorious past and lend the town a medieval character. Whether it is one of the numerous beer cellars of the Old Market, in the restaurants around the famous Town Hall, or amid the peace and tranquility of the beguinage, nowhere has the fresh wealth of youth greater vitality than in the city of the Alma Mater, which after 570 years as a university still attracts the Flemish youth and nurtures it on wisdom, erudition and broadmindedness. Leuven is located in the centre of Belgium, only 30 km from Brussels and 20 km from Brussels National Airport. Further information can be obtained from the conference secretary, Mrs L. Notré, K.U. Leuven, Division PMA, Celestijnenlaan 300B, 3001 Leuven, Belgium; telephone (+32) 16 32 24 82; fax (+32) 16 32 29 87; E-mail lieve.notre@mech.kuleuven.ac.be.

17. 3RD INTERNATIONAL CONFERENCE ON ACOUSTICAL AND VIBRATORY SURVEILLANCE:
METHODS AND DIAGNOSTIC TECHNIQUES, SENLIS, FRANCE, 13–15 OCTOBER 1998

This is the third in the series of international conferences emphasizing acoustical and vibratory methods in surveillance and diagnostics held in CETIM, Senlis, France, and organized by the French Society of Mechanics (SFM), French Society of Acoustics (SFA) and International Measurement Confederation (IMEKO). A diagnostic system determines the internal state of a system and the need for operational actions. This determination is based upon information from sensors and a *a priori* knowledge of the processes involved. The methodology of monitoring and diagnosis is currently benefitting from dramatic developments in signal processing, information theory, etc., which are being put to practical use through advances in sensor technology and real time computation. The range of application encompasses all areas of science, engineering, manufacturing and medicine. Monitoring and diagnosis are essential to the improved competitiveness of various industries, in that machinery 'down-time' is reduced, safe operation is increased, quality control in production is ensured on line, predictive maintenance decreases costs and standards are more stringently adhered to (noise, vibration, pollution, etc.). There has been a major expansion in research and applications of monitoring and diagnosis in recent years, utilizing new processing techniques and sensors. However, in spite of this, implementation of diagnostic systems is still limited in industry. Reliable systems require a multi-disciplinary approach linking physical modelling (or knowledge) with advanced signal processing and information theory concepts. This conference is intended to be a forum for presentation and exchange of information from researchers and industrial people in various fields (acoustic, vibrations and modelling, reliability analysis, safety in automation, diagnostic, control, signal processing, sensors). Topics include the following: 1. Methods: acoustics and vibration modelling, finite element modelling, model updating, vibration intensity, etc.; 2. Diagnostic techniques: signal processing techniques, model-based diagnosis and surveillance, pattern recognition techniques (neural networks, fuzzy, uncertainty, etc.), data fusion, expert systems; 3. Predictive maintenance: state of the art, use of reliability data, prognosis techniques, case histories; 4. Machines: application to different types and size of machines (electric motors, pumps, generators, machine tools, reciprocating machines, etc.); 5. Specific faults detection and characterization: shaft crack detection, cavitation, leak detection; transient phenomena; 6. Practical means of surveillance: metrology, new transducers, holography, antennas, data acquisition and processing, architecture of surveillance systems, associated strategies and software; 7. Experience feedback: case studies, technical and economic assessments of surveillance methods. This conference is open to the whole scientific and industrial community in several related domains: Acoustics, Vibration, Machines, Signal processing, Automatic Control and Diagnostics, Transducers, etc. Further information can be obtained from UTC, Laboratoire Heudiasyc, Congrès "Surveillance 3", Centre de Recherche de Royallieu—BP 20529, F-60205 Compiègne cedex, France, fax 33 (0) 3 44 23 44 77; E-mail surveillance3@hds.utc.fr. Papers will be published in the conference book under the responsibility of the Scientific Committee. Selected papers may be reviewed for publication in the journal *Mechanical Systems and Signal Processing*.

18. INTERNOISE 98, CHRISTCHURCH, NEW ZEALAND, 16–18 NOVEMBER 1998

Inter-Noise in 1998 will be held in Christchurch, New Zealand on 16–18 November. The venue is to be the Christchurch Convention Centre, which is adjacent to the Town Hall and the Park Royal Hotel. The conference has been scheduled so that it immediately precedes the International Commission on the Biological Effects of Noise (ICBEN), being

held in Sydney, Australia on 23–27 November 1998. A satellite symposium on “Recreational Noise” linking the two conferences is also to be convened in Queenstown, New Zealand on 20 November. There will be both an accompanying persons program of sightseeing opportunities and a technical program of visits. There will be a trade exhibition of products, equipment and services to accompany the conference. You are invited to register your interest in attending the conference. To ensure space on the various tourist and recreational facilities at this peak time of the year, you are also invited to register your other interests by writing to The Inter-Noise 98 Secretary, NZ Acoustical Society, P.O. Box 1181, Auckland 1001, New Zealand, telephone (09) 623 3147; fax (09) 623 3248; E-mail internoise98@auckland.ac.nz. The organizers have undertaken to work with the Helicopter Line Limited for Inter-Noise 98 who have provided the following information: Mauri, Great Sights and Newmans Tours welcomes to New Zealand delegates attending Inter-Noise 1998. We offer you an extensive range of pre- and post-conference tour options from which to choose when visiting New Zealand in November 1998. New Zealand is a small country with so much to see and do, and we recommend you allow at least 7 days either before or after the conference to explore our wonderful country. The most popular combinations of car and camper vans, local sightseeing or independent and organized coach tour packages have been especially selected. In 1997, prices which will be exclusive to delegates will be released. October, November and December are prime touring months in New Zealand and early reservations are recommended. For further information or advanced bookings for any of the tour options contact Rhonda Bowden, The Helicopter Line Limited, Private Bag 92133, Auckland, New Zealand, or E-mail info@helicopter.co.nz.

19. EUROMECH MEETINGS IN 1988 AND 1999

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 small 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. Number, Title, Chairman or Co-chairmen, Dates and Location for each Colloquium in 1998, and preliminary information for some Colloquia in 1999, are as follows: 373. *Modelling and control of adaptive mechanical structures*, Professor U. Gabbert, Otto-von-Guericke-Universität Magdeburg, Institut für Mechanik, Universitätsplatz 2, D-39106 Magdeburg, Germany, E-mail ulrich.gabbert@mb.uni-magdeburg.de, Professor E. Breitback, Braunschweig, 11–13 March 1998, Magdeburg, Germany; 374. *Recent computational developments in steady and unsteady naval hydrodynamics*, Professor M. Guilbaud, C.E.A.T., 43 rue de l'Aérodrome, F-86036 Poitiers Cédex, France, E-mail guilbaud@univ-poitiers.fr, Dr G. Delhommeau, Nantes, 27–29 April 1998, Poitiers, France; 375. *Biology and technology of walking*, Professor F. Pfeiffer, Lehrstuhl B für Mechanik, TU-München, D-80290 Munich, Germany, E-mail: Pfeiffer@lbm.mw.tu-muenchen.de, Professor H. Cruse, Beilefeld, 23–25 March 1998, Munich, Germany; 376. *Waves in two-phase flows*, Professor C. F. Delale, Department of Mechanical Engineering, Istanbul University, Avcilar Kampusu, 34850 Avcilar, Istanbul, Turkey, E-mail: gokcol@sariyer.cc.itu.edu.tr, Professor D. G. Crighton, Cambridge, 27–30 April 1998, Istanbul, Turkey; 377. *Stability and control of shear flows with strong temperature or density gradients*, Dr F. Marsik, Institute of Thermomechanics, Academy of Sciences of the Czech Republic, Dolejskova 5, CZ-182 00 Praha 8, the Czech Republic,

E-mail MARSIK@BIV.OJ.IT.CAS.CZ, Professor P. A. Monkewitz, Lausanne, 20–22 May 1998, Prague, the Czech Republic; 378. *Nonlocal aspects in solid mechanics*, Dr J.-F. Ganghoffer, ICSI-15, rue Starcky, BP 2478, F-68057 Mulhouse Cédex, France, E-mail JF.Ganghoffer@univ-mulhouse.fr, Professor A. Brillard, Mulhouse, 20–22 April 1998, Mulhouse, France; 379. *Aerodynamics and aeroacoustics of tracked high-speed ground transportation*, Professor G. E. A. Meier, DLR, Bunsenstrabe 10, D-37073 Göttingen, Germany, E-mail G.E.A. Meier@dlr.de, Professor H. Sockel, Vienna, and Professor S. Loose, Göttingen, 8–10 June 1998, Göttingen, Germany; 380. *Laminar–turbulent transition mechanisms and prediction*, Dr U. Ch. Dallmann, DLR, Institute of Fluid Mechanics, Bunsenstrasse 10, D-37073, Göttingen, Germany, E-mail uwe.dallmann@dlr.de, Professor D. S. Henningson, Stockholm, and Dr H. Bippes, Göttingen, 14–17 September 1998, Göttingen, Germany; 382. *Fatigue life in the gigacycle regime*, Professor C. Bathias, Conservatoire National des Arts et Métiers, 2 rue Conté, F-75003 Paris, France, E-mail bathias@cnam.fr, Professor S. Stanzl-Tschegg, Vienna, 29 June–3 July 1998, Paris, France; 383. *Continuation methods in fluid dynamics*, Dr D. Henry, Laboratoire de Mécanique des Fluides et d’Acoustique, UMR CNRS 5509, Ecole Centrale de Lyon, BP 163, F-69131 Ecully, Cédex, France, E-mail henry@mecaflu.ec-lyon.fr, Dr H. BenHadid, Lyon, and Dr H. Dijkstra, Utrecht, 6–9 September 1998, Aussois, France; 384. *Steady and unsteady separated flows*, Dr P. W. Duck, Department of Mathematics, University of Manchester, Manchester M13 9PL, U.K., E-mail euro384@ma.man.ac.uk, Professor A. I. Ruban, Manchester, 6–9 July 1998, Manchester, U.K.; 385. *Inelastic analysis of structures under variable loads: theory and engineering applications*, Professor D. Weichert, Institut für Allgemeine Mechanik, RWTH-Aachen, Templergraben 64, D-52056 Aachen, Germany, E-mail weichert@uranus.iam.rwth-aachen.de, Professor G. Maier, Milano, 8–11 September 1998, Aachen, Germany; 386. *Dynamics of vibro-impact systems*, Professor V. I. Babitsky, Department of Mechanical Engineering, Loughborough University, Loughborough, Leicestershire LE11 3TU, U.K., E-mail V.I.Babitsky@lboro.ac.uk, 15–18 September 1998, Loughborough, U.K.; 387. *Surface slicks and remote sensing of air–sea interactions*, Dr N. H. Thomas, c/o Fluid Dynamics Research Centre, Mathematics Institute, University of Warwick, Coventry CV4 7AL, U.K., E-mail nht-FRED@AOL.com, Dr J. C. Scott, Winfrith, 6–8 April 1998, Warwick, U.K.; 388. *Modelling of glass forming processes*, Dr D. Lochegnies, L.A.M.I.H. Groupe de Recherches en Génie Mécanique, Le Mont Houy, BP 311, F-59304 Valenciennes Cédex, France, E-mail lochegnies@univ-valenciennes.fr, Professor J. Oudin, Valenciennes, 13–15 October 1998, Valenciennes, France; 389. *Physiological flows and flow–structure interactions*, Professor K. Perktold, Institute of Mathematics, Technical University Graz, Steyrergasse 30/3, A-8010 Graz, Austria, E-mail perktold@fmatdds01.tu-graz.ac.at, Professor T. Kenner, Graz, April 1999, Graz, Austria; 390. *Instability bifurcation and localisation in fracture of materials*, Dr G. Rousselier, Electricité de France, Dept MTC, Site des Renardieres, F-77818 Moret-sur-Loing Cédex, France, E-mail gilles.rousselier@der.edfgdf.fr, Dr A. Benallal, Cachan, 10–12 May 1999, Paris, France; 391. *Wind tunnel modelling of dispersion in environmental flows*, Dr Z. Janour, Institute of Thermomechanics, Dolejskova 5, CZ-182 00 Prague 8, the Czech Republic, E-mail janour@bivoj.it.cas.cz, Professor A. Robins, Surrey, and Professor M. Schatzmann, Hamburg, 13–15 September 1999, Prague, the Czech Republic.

EUROMECH Conferences are broad in scientific scope. They comprise the EUROMECH Solid Mechanics Conference, the EUROMECH Fluid Mechanics Conference, the EUROMECH Turbulence Conference, the EUROMECH Nonlinear Dynamics Conference and the EUROMECH Mechanics of Materials Conference. They are open to all those interested and are expected to have a number of participants between

150 and 600. The general purpose is to provide opportunities for scientists and engineers to meet and discuss current research. The responsibility for each series of Conferences is delegated to a Standing Conference Committee. The organizational work is carried out by Local Organizing Committees (LOC). Those who are interested in taking part in one of the Conferences should write to the Chairman or Secretary of the appropriate LOC. Information about the Conferences in 1998 and one Conference in 1999 is as follows: ETC-7, *7th EUROMECH Turbulence Conference*, Professor U. Frisch, OCA, B. P. 4229, F-06304 Nice Cédex 4, France, E-mail for scientific matters uriel@obs-nice.fr, E-mail for administrative matters vcheron@obs-nice.fr, further information <http://www.obs-nice.fr/etc7>, 30 June–3 July 1998, Saint-Jean Cap Ferrat, France; EMMC-2, *2nd EUROMECH Mechanics of Materials Conference*, Professor A. Bertram, Institute of Mechanics, Otto-von-Guericke-Universität, Universitätsplatz 2, D-39106 Magdeburg, Germany, E-mail mecamat@mb.uni-magdeburg.de, Professor F. Sidoroff, Lyon, <http://comserv.urz.unimagdeburg.de/~ifme/mecamat/mecamat.html>, 23–26 February 1998, Magdeburg, Germany; EMMC-3, *3rd EUROMECH Mechanics of Materials Conference*, Professor E. P. Busso, Imperial College, Department of Mechanical Engineering, Exhibition Road, London SW7 2BX, U.K., E-mail e.busso@ic.ac.uk, Professor G. Cailletaud, Paris, November–December 1998, U.K.; ENDC-3, *3rd EUROMECH Nonlinear Dynamics Conference*, Professor R. Ohayon, Chaire de Mécanique, C.N.A.M., rue Conte, F-75003 Paris, France, E-mail ohayon@cnam.cnam.fr, Professor P. Destuynder, 1999, Paris, France.

20. VON KÁRMÁN INSTITUTE FOR FLUID DYNAMICS LECTURE SERIES

The lecture series schedule announced for 1998 is as follows: 19–23 January, Introduction to Computational Fluid Dynamics; 26–30 January, High Speed Propulsion; 9–13 February, Blade Row Interference Effects in Axial Turbomachinery Stages; 23–27 February, 29th Computational Fluid Dynamics; 9–13 March, Fluid Dynamics and Biological Flows; 23–27 March, Advances in Turbulence Modelling; 6–10 April, Advanced Measurement Techniques; 20–24 April, Higher Order Discretization Methods in Computational Fluid Mechanics; 11–15 May, Ventilation Systems and Air Quality; 25–29 May, Fluid Dynamics Research on Supersonic Aircraft.

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 accompany the application to attend the lecture series, and the applicant 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 Waterloo 72, B-1640 Rhode-Saint-Genèse, Belgium; telephone 32-2-359.96.04; fax 32-2-359.96.00.

21. 7TH SPRING SCHOOL ON ACOUSTO-OPTICS AND APPLICATIONS, GDAŃSK, POLAND, 18–22 MAY 1998

As before in these triennial Schools, the aim is to cover all physical topics concerning light and sound interaction (mainly in the ultra- and hypersonic range) in liquids and solids.

Applications of acousto-optic devices such as deflectors, modulators, tilters and other processors of integrated optics, visualization of ultrasound and holographic imaging, etc., will be included in the program. The school activities will be divided into invited lectures (45 minutes), original papers (20 minutes), poster session, round table discussions, and an equipment exhibition. Further information can be obtained from Dr Bogumil Linde, Secretary of the Organizing Committee of the 7th School on Acousto-optics, Institute of Experimental Physics, University of Gdańsk, ul. Wita Stwosza 57, 80-592 Gdańsk, Poland; E-mail fizbl@univ.gda.pl; telephone (+48) (58) 529-213 or 529-248; fax (+48) (58) 41-31-75.

22. 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; telephone +44(0)1703 592294; fax +44(0)1703 593190.

23. IUTAM—IITD INTERNATIONAL WINTER SCHOOL AND WORKSHOP ON OPTIMUM DYNAMIC DESIGN, USING MODAL TESTING AND STRUCTURAL DYNAMIC MODIFICATION, INDIAN INSTITUTE OF TECHNOLOGY, HAUZ KHAS, NEW DELHI, 15–19 DECEMBER 1997

The school is aimed at presenting the technology of emerging optimum dynamic design tools; namely, modal testing, model updating, optimal structural dynamic modification as applied to a broad range of simple, and complex mechanical structural systems. The above will be covered by invited plenary lecturers. Intending participants are advised to contact the Co-ordinators: Professor T. K. Kundra and Professor B. C. Nakra, fax 91-11-6862037 or 91-11-6855227; E-mail tkkun-dra@mech.iitd.ernet.in, bcnakra@mech.iitd.ernet.in. Address: Mechanical Engineering Department, I.I.T., Hauz Khas, New Delhi 110 016, India.

24. 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 the 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—ISMES Sp.A., Via Pastrengo, 9, 24068 Seriate (BG), Italy, telefax +39 35 302999, telephone +39 35 307612. Other Large-scale Facilities include NTUA—Athens (GR), Professor P. G. Carydis, telefax +30 1 7721182, telephone +30 1 7721185; CEA—Saclay (F), Dr P. Sollogoub, telefax +33 1 69088331, telephone +33 1 69082716, ELSA—JRC Ispra (I), Dr G. Verzeletti, telefax +39 332 789049, telephone +39 332 789368, LNEC—Lisbon (P),

Dr E. Carvalho, telefax +351 1 8497660, telephone +351 1 8482131, EERC—Bristol (U.K.), Professor R. T. Severn, telefax +44 117 9287783, telephone +44 117 9287708.

25. EASD/ANIV PRIZE FOR PAPER BY YOUNG RESEARCHER ON STRUCTURAL DYNAMICS OR WIND ENGINEERING

The European Association for Structural Dynamics (EASD) and the Italian Association for Wind Engineering (ANIV) announce a prize to be awarded to a paper on a subject of Structural Dynamics on Wind Engineering written by a European researcher not older than 35 years and published between 1 January 1996 and 31 December 1998 in a refereed journal (or Congress Proceedings) of international diffusion. The Prize will consist of a scroll or plate and a sum roughly equivalent to 6000 DM. It will be awarded in Prague in June 1999, during the 4th European Conference on Structural Dynamics, EURO DYN '99, at which the winner will be invited to present a lecture on his/her researches. Further information and a copy of the rules governing the prize can be obtained from Prof. ing. Giuliano Augusti, President ANIV, Università di Roma "La Sapienza", Dip. Ingegneria Strutturale e Geotecnica, Via Eudossiana 18, I-00184 Roma, Italy; telephone +39.6.44 58 51 55; fax +39.6.488 4852; E-mail augusti@scilla.ing.uniroma.it.