

C H R O N I C L E

INTERNATIONAL CONGRESS ON ULTRASONICS (ICU-90)
DECEMBER 12-14, 1990, NEW DELHI, INDIA

International Congress on Ultrasonics (ICU-90) was organized by National Physical Laboratory at New Delhi on December 12-14, 1990. The congress was sponsored by the Council of Scientific and Industrial Research, Indian Council of Medical Research, Central Scientific Instrument Organisation and Ultrasonic Society of India. This was the second international conference being organized by National Physical Laboratory (NPL) in ultrasonics, after the one held in July 1980. The Chairman of the Advisory Board was Prof. Dr. S.K. Joshi, Director of NPL and the Secretary was Deputy Director of NPL, Dr. V.N. Bindal. The president of the Organizing Committee was Dr. T.K. Saksena, Co-Chairman - Mr. S.C. Gupta and Secretary - Dr. Ashok Kumar. The Convenors of the Publication and Technical Programme Committee, Finance Committee and Reception Committee were Dr. S.K. Jain, Mr Ved Singh, Dr. J. Singh and Dr. R.P. Tandon, respectively. The Chairman of the Souvenir and Exhibition Committee was Dr. S.P. Signal and Convenor - Dr. J.N. Som.

The ICU-90 was conducted in nine sessions (I. Ultrasound in Medicine (A), II. Underwater Acoustics (B), III. Ultrasonic Studies in Solids (C), IV. Non-Destructive Evolution (D), V and VI. Ultrasonic Propagation in Liquids (E), VII, VIII and IX Ultrasonic Transducers, Instrumentation and Materials (F).

The congress was inaugurated by Prof. S.Z. Qasim, Vice-Chancellor of the Jamia Millia Islamia, New Delhi. A keynote address entitled „Acoustics-Infrasonics to Ultrasonics" was delivered by Dr. V.K. Aatres, Director of the Naval Physical and Oceanographic Laboratory, Cochin, during the Inaugural Session. The scientific programme included 9 invited contributions (3 of them were published as abstracts and 1 as invited paper) and 56 research papers. The invited talks were presented by: Prof. V.R. Minicha (Lithotripsy - Issues and Perspective), Prof. Dubrovskii (Delphine acoustics), Prof. Z. Kaczkowski (Ultrasonic studies in metallic glasses), Prof. P.K. Raju (Non-destructive evaluation of the composites using acousto-ultrasonics), Prof. L.M. Lyamshev (Radiation acoustics), Prof. V.P. Bhatnagar (Modern trends in acousto-optics diffraction), Dr. S. Khandpur (Challenges in ultrasound hyperthermia). The list of participants contained 171 names from India and abroad.

An exhibition had been organized by the Ultrasonic Society of India, which also brought out the Souvenir containing the programme, abstracts of the accepted papers and

lists of participants and exhibitors. The Proceedings of the ICU-90, edited by the Publication Committee with Dr. T.K. Saksena as the Chairman, were given to the 102 participants during registration. The proceedings contained 49 papers (1 invited and 48 contributed) from India (39), Egipt (3), Spain (1), Italy (1), Soviet Union (1), Great Britain (1) and Poland (3). On Ultrasound in Medicine were published 7 papers (35 pages), on Underwater Acoustics – 3 papers (26 pages), on Ultrasonic studies in Solids – 7 papers (6 contributed and 1 invited, 45 pages), on Non-Destructive Evaluation – 5 papers (29 pp.) on Ultrasonic Propagation in Liquids – 14 papers (86 pp.) and on Ultrasonic Transducers Instrumentation and Materials – 13 papers (79 pp.). The index of the proceedings contained 115 author names. On the list of exhibitors were Accutrol Systems Pvt. Ltd. New Delhi, Blue Star Ltd, New Delhi, Electronics Corporation India Ltd, Hyderabad, L and T – Gould Ltd., Mysore, Mekaster Electronic Service Centre Pvt. Ltd. and Systronics (Agency Division) Ahmedabad. As the co-chairman of the Round Table Session were invited Dr. V.N. Bindal, Dr. T.K. Saksena, Professors: Dubrovski, Raju and Kaczkowski. As the introduction to the discussion Prof. Dubrovskii has talked on ultrasonic research in Acoustical Institute of the Academy of Sciences of the USSR, prof. Raju spoke on the non-destructive investigation at the Auburn University (USA) and prof. Kaczkowski spoke on the current research status and opportunities in ultrasound in Poland. In the discussion the delegates presented their institutions, organizations and factories.

The Proceedings of the Congress ICU-90 were dedicated to Dr. W.N. BINDAL.

Dr. V.N. BINDAL, Member of the Editorial Committee of the Archives of Acoustics, was born on December 25, 1930 in India. He received his M.Sc degree from Agra University and Ph.D. degree from Delhi University. He is Deputy Director and Scientist Fellow of the National Physical Laboratory at New Delhi. He is also Head of the Materials Division of the NPL. He has played a key role in giving a momentum of the Research and Development efforts towards applied ultrasonic technology in India. He is currently engaged in the works on underwater acoustics, ultrasonic standards and ceramical transducer materials.

Dr V.N. BINDAL is the author or co-author of more than 300 papers and 15 patents. He is Founder President of the Ultrasonic Society of India and Chairman of the Delhi Headquarter of the NDT Society of India.

He is member of Editorial Board of Journal od Pure and Applied Ultrasonics (India), Acoustics Letters (UK), Archives of Acoustics and Ultrasonics (UK). He is also chairman and member of various ISI committees and Advisor from Asia to WHO for Environmental Health Criteria on Ultrasound.

Dr. V.N. BINDAL received 6 National Awards in the area of ultrasonics.

Zbigniew Kaczkowski