

**John Erdreich, Ph.D.**  
**Ostergaard Acoustical Associates**

Dr. John Erdreich is a principal of Ostergaard Acoustical Associates specializing in the medical and ergonomic aspects of acoustics. He has 30 years experience in occupational noise and vibration control. He oversees the day-to-day operations of Ostergaard Acoustical Associates, a distinguished acoustical consulting firm.

Following a position as a professor in the Ear, Nose and Throat Department at the University of Oklahoma, he joined the National Institute for Occupational Safety and Health. As Chairman of the Noise Task Group, Dr. Erdreich helped formulate the national strategy for reducing occupational noise-induced hearing loss. At the University of Cincinnati, he taught courses in noise control and acoustics, and directed graduate dissertations concerning noise. He has published articles relating to hearing, psychoacoustics, and vibration. He has taught Architectural Acoustics at the New Jersey Institute of Technology.

Dr. Erdreich was President of the National Council of Acoustical Consultants from 1998 to 2000. The National Council of Acoustical Consultants is an international consortium of acoustical consulting firms whose purpose is to establish ethical standards for the practice of acoustical engineering and to promote the profession. It consists of approximately 160 member firms worldwide.

**Brian M. Ross**  
**Principal Administrator–Urban Environment**  
**European Commission**

Brian Ross joined the British civil service at the Building Research Station, in the Environmental Engineering Division, and gained an honours degree in electrical engineering, from the University of Aston in Birmingham, UK. This was the result of the UK Civil Service Bursary granted while a student at BRS, (1962-1968 and now the Building Research Establishment). His research covered aspects of noise and acoustics, fenestration, extract ventilation, internal soil and waste water systems, particularly concerning multi-storey dwellings, during his industrial internships.

Mr. Ross' interests in aircraft systems and information technology came together at GEC-Marconi as a programmer/analyst on military systems, initially on airborne computing. After assignments in Germany and a British military command and control project, he joined NATO at a science establishment in The Hague, The Netherlands in 1979.

Mr. Ross joined the European Commission with its ESPRIT program in 1984, and worked on operations and policy for IT and Telematics (Information Society Directorate General) until 1992.

He returned to general environmental matters bringing project management to LIFE funded projects at the Environment Director General office as the UK and Ireland Desk Officer.

In January 1998 he started to work on urban noise matters. His specific roles entail responsibility for the European Commission Directive on Noise Emissions from Equipment Used Outdoors, its associated Working Group and the management Committee, while on the Environmental noise front he has responsibilities in three working groups.

He has responsibility for the “old directives” on Noise and, accordingly, has spent a considerable amount of time with the procedures for the Member States and on the public image of the European Commission Noise Policy.

See: [WWW.europa.eu.int/comm/environment/noise/home.htm](http://WWW.europa.eu.int/comm/environment/noise/home.htm)

**PAUL D. SCHOMER, Ph.D.**  
**Acoustical/Electrical Engineer**

BS, Electrical Engineering, University of Illinois, 1965.  
MS, Electrical Engineering-Acoustics, University of California, 1966.  
Ph.D., Electrical Engineering-Acoustics, University of Illinois, 1971.

Dr. Paul Schomer has extensive experience, publications, and patents in the area of environmental noise and its assessment; including human and community responses to noise, instrumentation and methodologies for the measurement and monitoring of noise, architectural acoustics, and acoustical measurement of building parameters. He is a consultant to industry and government, an adjunct Professor of Electrical and Computer Engineering (Acoustics) and member of the graduate faculty of the University of Illinois, and a research leader in acoustics for the U.S. Army Construction Engineering Research Laboratory (CERL). His recognition by his peers as an international leader in the area of environmental noise is demonstrated by his chapters in reference books, his almost 30 refereed publications, his leadership in Standards organizations and professional societies, and his various awards and honors.

As an international leader in the area of environmental noise, Dr. Schomer is chairperson of the United States delegation to the International Organization for Standardization (ISO) Acoustics and Noise committees, chairperson of the American National Standards Institute (ANSI) Committee dealing with noise, chairperson of the ISO working groups which deal with environmental noise and with impulsive noise measurement, chairperson of the ANSI working group which deals with environmental noise, and he is the United States representative to ISO in the areas of aircraft noise and impulsive noise sources. He is vice-Chair of the Acoustical Society of America (ASA) Committee on Standards, a member of the Society of Automotive Engineers (SAE) Aircraft Noise Committee, a principle contributor to current efforts in the area of standardizing airport noise monitoring, and vice-president for membership and twice a past member of the Board of the Institute of Noise Control Engineering (INCE).

Dr. Schomer has 30 years of experience dealing with noise measurement and the effects of noise on people and communities. This experience includes blast and mining noise, gunfire noise, airport/aircraft noise, helicopter noise, construction and traffic noise, and general industrial and urban noise. The citation for his selection as a Fellow of the Acoustical Society of America references his studies on community response to noise, and most of his work with the National Academy of Science has been concerned with noise assessment.

**Bernard Berry**  
**Head of Noise Standards**  
**UK National Physical Laboratory**

Bernard Berry was born in Manchester, and educated at St Bede's College and Manchester University [BSc Electrical and Electronic Engineering]. The most important item of knowledge which he acquired at the University was the name and phone number of the 19 year-old girl who sat beside him at the first night of Fresher's [Freshman's ] week. Having met on the first day at University, they married on the last, immediately after graduation and she, Penny, has been his soulmate and firm foundation through life's ups and downs for 35 years. Postgraduate studies followed at the Institute of Sound and Vibration Research (ISVR), University of Southampton, England.

He then won a NATO Science Fellowship and spent a year as a guest worker at the National Research Council of Canada in Ottawa, with Dr George Thiessen, investigating the effects of impulse noise on sleep using EEG techniques.

In 1970 he joined the National Physical Laboratory – the UK national standards laboratory, to work with the late Professor Douglas Robinson, and has dedicated the last 30 years there to an extensive portfolio of activities in research, standardisation, consultancy and policy advice in the field of environmental noise and its effects. This has ranged from compiling the first “Leq Guide” for the UK Government's Noise Advisory Council in the 1970s, to assisting in the development of a new “Strategy for Noise in London 2001” as an adviser to the newly formed Greater London Authority.

Mr. Berry has published nearly 80 papers, reports and book chapters. The details of his publications can be found on the NPL Acoustics website: [www.npl.co.uk/npl/acoustics](http://www.npl.co.uk/npl/acoustics). He is Chairman of the British Standards Institution [BSI] Technical Committee on “Residential and Industrial Noise” and is a member of the BSI Acoustics Committee. He is also a member of ISO Working Group 45, for which he is working on a revision of ISO 1996, and for WG43 on the revision of ISO 3891. He represents the UK on the European Union's Future Noise Policy Working Group on Noise Dose/Effects, and is a member of Team 9 “Regulations and Standards” of the World Health Organisation's International Commission on the Biological Effects of Noise [ICBEN]. He assisted the WHO Task Group in the production of the year 2000 edition of the WHO “Guidelines on Community Noise”.

He was President of the UK Institute of Acoustics from 1996-1998, and was General Chairman of INTERNOISE 96 in Liverpool, which attracted a then European record attendance of 1200 delegates. He is a Fellow of that Institute. He has recently been assigned as Special Adviser, and Vice-President [designate] on International Relations, to the Council of the Institute of Acoustics. He is a member of the Editorial Board of the international journal *Noise and Health*, and of the Scientific Advisory Committee of the ISVR at the University of Southampton. He is an Executive Board Director of the International Institute of Noise Control Engineering [I/INCE].

**William W. Lang, Ph.D. (physics/acoustics), P.E.**  
**International Institute of Noise Control Engineering (I-INCE).**

Dr. William Lang pursued his undergraduate studies at initially at MIT and then at Iowa State University, where he received his B.S. degree in Physics. He then began his graduate studies at MIT and received his M.S. degree in acoustics there in 1949. He was subsequently awarded a doctoral degree from Iowa State in a combined physics and acoustics program in 1958.

Dr. Lang worked as a Program Manager at the IBM Corporation in Poughkeepsie, NY from 1958 until 1992, where he focused on noise control engineering programs with an emphasis on product design. Dr. Lang also served as an Adjunct Professor of Physics at Vassar College in Poughkeepsie, NY from 1979 to 1996.

In the international Standards arena, Dr. Lang served as Chair of the International Electrotechnical Commission (IEC) Technical Committee 29 (Electroacoustics), from 1975 until 1984. He was also the Convener of the ISO Standards working group on Sound Power from 1969 until the present time (WG 6 (1969-1984), and changed to WG 28 in 1985).

In addition to his many other accolades and accomplishments over a long and quite distinguished career, Dr. Lang is also a Member of the prestigious U.S. National Academy of Engineering, and is a retired Captain in the U.S. Navy.

Dr. William Lang was one of the original founders and is the Immediate Past President of the International Institute of Noise Control Engineering (I-INCE), where he continues to work on significant noise issues at both the national and international levels.

**Bennett M. Brooks, P.E.**  
**Acoustical Society of America (ASA)**

Bennett Brooks is currently the Chair of the Technical Committee on Noise of the Acoustical Society of America. He is also the Acoustical Society's representative to the ANSI Standards Committee S12 for Noise, and is an active member of a number of standards writing working groups.

Bennett has engineering degrees from MIT and George Washington University. His career in acoustics and noise control spans over 25 years. He worked on aircraft noise issues while at the NASA Langley Research Center and at United Technologies Corporation. In 1989 he joined the engineering firm United Acoustic Consultants, becoming President in 1992. That firm, now known as Brooks Acoustics Corporation, conducts work on transportation, industrial, environmental and architectural noise projects for clients in government, business and public and private institutions.

Mr. Bennett is a licensed Professional Engineer.

**George C. Maling, Jr.**  
**Institute of Noise Control Engineering (INCE), Noise/News International,**  
**Noise Control Foundation, INCE Foundation, Inc., International Institute of**  
**Noise Control Engineering**

Dr. George Maling was born in Boston, Massachusetts on 1931 February 24. He received the A.B. degree in Physics from Bowdoin College as well as the S.B. and S.M. degrees in Electrical Engineering from MIT. All three degrees were awarded in 1954. He returned to MIT after two years in the U.S. Army, and received the Electrical Engineer degree in 1958 and the Ph.D. degree in Physics in 1963.

He was a consultant to the Industrial Acoustics Company in the early 1960s, and was a consultant to IBM from 1959 to 1965. He joined IBM full time in 1965. He retired from IBM in 1992, having worked on noise control of computers and business equipment, especially air-moving device noise, techniques for determination of noise emission, and standards.

He was a founder of the Institute of Noise Control Engineering in 1971, and now serves as managing Director of the organization. He also serves as Managing Editor of the INCE Publication, Noise/News International, and as a director of Noise Control Foundation. He is president of the INCE Foundation, Inc. He is also a director and vice president for communications for the International Institute of Noise Control Engineering.

He continues to write technical articles and handbook articles, he is active in the organization of national and international conferences on noise control engineering, and he has developed a presence on the Internet for the Institute of Noise Control Engineering. (<http://ince.org>)

He is the author of several handbook articles and more than 70 papers on various topics related to noise control engineering. He is a Fellow of the Institute of Electrical and Electronics Engineers, the American Association for the Advancement of Science, the Acoustical Society of America, and the Audio Engineering Society. He was awarded the Silver Medal in Noise by the Acoustical Society of America and the Rayleigh Medal by the Institute of Acoustics in the United Kingdom. He is a member of the National Academy of Engineering (NAE).

**Dr. Dietrich Schwela**  
**World Health Organization (WHO)**

Educated physicist. 1975-1993 working in the field of air quality management at the State Air Pollution Research Centre of the State of Northrhine Westphalia, Essen, Germany. Since 1994 in the Occupational and Environmental Health Programme at the World Health Organization, Geneva. Responsible for the WHO Guidelines for Air Quality, WHO Guidelines for Community Noise, WHO-UNEP-WMO Health Guidelines for Vegetation Fire Events, Healthy Cities Air Management Information System AMIS.

**Lawrence S. Finegold**  
**Research Psychologist**  
**Finegold & So, Community and Environmental Noise Consultants**

Larry Finegold has worked as a Research Psychologist at the U.S. Air Force Research Laboratory for 20 years. Most of his career has involved research on the effects of noise on people, resulting in the publication of over twenty-five technical reports, journal articles, and conference presentations. The focus of his research has been on community annoyance, sleep disturbance, and the non-auditory health effects of noise exposure, particularly aircraft noise exposure. He has accomplished meta-analyses of the published English-language data on both community annoyance and sleep disturbance. His community annoyance prediction curve was adopted as a US ANSI Standard, and the sleep disturbance prediction curve is now beginning to be circulated. The latter, however, has already received attention in Europe. He has managed R&D projects on noise exposure and human response monitoring technology, and led the development of a sophisticated noise exposure prediction and impact analysis system for aircraft noise exposure using geographic information system (GIS) software and state-of-the-art noise models.

In addition to his scientific research efforts, Larry has served in the following professional appointments:

- Chair, National Research Council (NRC) Transportation Research Board (TRB), Transportation-Related Noise and Vibration Committee (A1F04), Aircraft Noise Subcommittee
- Chair, American National Standards Institute (ANSI)/Acoustical Society of America (ASA) Accredited Standards Committee on Bioacoustics (S3)
- Associate Editor, The Noise Control Engineering Journal (NCEJ) (Community Noise, Physiological and Sociological Effects of Noise, Environmental Impact Analyses)
- Chair, International Commission on Biological Effects of Noise (ICBEN) Team 9, Noise Policies, Guidelines, and Regulations
- Member, International Commission on Biological Effects of Noise (ICBEN) Team 6, Effects of Noise on Sleep
- Chair, Institute of Noise Control Engineering (INCE) Technical Committee on Community Noise (TCCN) and Chair, INCE Liaison Program Advisory Council (LPAC) Government Agencies Coordinating Group (GACG)
- Individual Expert for ANSI Standards Committee on Noise and member of several ANSI Standards Working Groups on Noise