

Workshop of the Consultative Committee for Acoustics, Ultrasound and Vibration
-Measurement of imperceptible matters-

20 September 2017 14:00-18:00

Takashi Usuda, CCAUV President, NMIJ (Japan)

Julien Marty Comprehensive Nuclear-Test-Ban Treaty Organization (CTBTO) (Vienna, Austria)

Dr. Julien Marty has a master degree from the French National School of Telecommunication and a PhD degree in Atmospheric Physics from the University Pierre et Marie Curie in Paris. He started his career by working in the private Sector for Thales Training & Simulation, UK and Accenture, USA before switching to the public sector. He then worked for 5 years for the French Atomic and Alternative Energies Commission on topics such as nuclear monitoring technologies and gravity wave propagation modelling. He has now been employed for more than 6 years for the CTBTO where he is managing the seismo-acoustic unit responsible for the construction, sustainment and technological developments of the seismo-acoustic segment of the International Monitoring System.

Qiao Sun, NIM (China)

Dr. Qiao SUN works at the Vibration and Gravity Lab of the National Institute of Metrology, China, focusing on research of dynamic metrology including velocity and acceleration. He is a senior scientist with 15 years of researching experience in vibration and shock. He served as formal APMP TCAUV chair and now is CCAUV RMOWG chair.

Christian Koch, PTB (Germany)

Christian Koch was born in Dresden, Germany, in 1964. He received the Diploma degree in physics from the Friedrich-Schiller-University Jena, Germany in 1989 and the Dr. rer. nat. in physics from the Leibnitz-University Hanover, Germany in 1994. From 1989 to 1991, he was with Physikalisch - Technisches Institut der Akademie der Wissenschaften in Jena, Germany, working on high power CO₂ lasers. From 1991 to 1994, he investigated nonlinearities of semiconductor lasers at the Institute of Quantum Optics of Leibnitz-University Hanover, Germany and at the Physikalisch-Technische Bundesanstalt in Braunschweig, Germany. In 1994 he joined the ultrasonics group at Physikalisch-Technische Bundesanstalt and started working in the field of optical detection of ultrasound. Since 2004 he has been responsible for the Sound Department and he is now engaged in audiology and sound measurement, airborne and medical ultrasound, perceiving mechanisms of infrasound and ultrasound, and brain imaging during auditory stimulation.

Ryuzo Horiuchi, NMIJ (Japan)

Dr. Ryuzo Horiuchi works at the National Metrology Institute of Japan over 20 years. He is now the head of the Acoustics and ultrasonics research group in the Institute for Measurement and Analytical Instrumentation. His main area covers the pressure reciprocity calibration for audible sound and the laser-pistonphone for infrasound, but he is involved for all the activities in acoustics and ultrasonics.

S.E. Crocker, NIST-USRD (United States)

Dr. Steven Crocker serves at the U.S. Navy's Underwater Sound Reference Division. He is also an adjunct professor in the Ocean Engineering Department at the University of Rhode Island where he

teaches sonar system design and serves on the academic committees for graduate students. His work focuses on acoustical measurement methods, acoustical oceanography and mentoring the next generation of scientists and engineers. When not working, he may be found sailing on coastal waters of the northeast United States with his wife Robin.

Stephen Robinson, NPL (United Kingdom)

Stephen has worked at the UK National Physical Laboratory for more than 30 years, and for the last 17 years has been the NPL technical leader in the field of underwater acoustic metrology. He has over 100 publications in scientific journals and conference proceedings, and has made a number of contributions to the development of international standards. Currently, he is Convenor of two working groups (in ISO TC43 SC3 and IEC TC87), chairs the UK standards committee in the field, and has been heavily involved in work to develop guidance for the development of the measurement of ocean acoustic noise. He is currently Chair of EURAMET TC-AUV.

A.E. Isaev, A.S. Nikolaenko, FSUE VNIIFTRI (Russia)

Date of Birth: September 18, 1955. In 1972 enrolled and in 1977 graduated Far Eastern Polytechnic Institute (Vladivostok) with a diploma in “automated control systems”. After graduation I worked as engineer in the Vladivostok Hydrophysical Center VNIIFTRI. In 1979 enrolled and in 1982 completed a postgraduate course at VNIIFTRI in Moscow. Upon completion of postgraduate continued career in VNIIFTRI, branch «Scientific research complex on metrological assurance of hydro-physical measurements», in the position of researcher. In 1984 - defended a dissertation in the specialty “information and measuring systems” and earn the Ph. D degree. In 1993 has been awarded the title of Senior Scientific Researcher. In 2010 - defended doctoral dissertation in the specialty fields of “acoustic devices and systems” and “metrology and metrological assurance” earning the degree of Doctor of Engineering Sciences. Currently I hold the positions of deputy head of «scientific research complex on metrological assurance of hydro-physical measurements» and head of laboratory in VNIIFTRI. Personally and in co-authorship I published more than 100 works (including a monograph) in the field of underwater sound measurements metrology. Expert of: Consultative Committee for Acoustics, Ultrasound and Vibration (CCAUV) CIPM, Technical Committee 87/WG15 (7, 8) of International Electrotechnical Commission (IEC), Technical Committee 43/SC3/WG1-3 of International Organization for Standardization (ISO), Technical Committee 1.2 “Acoustics, Ultrasound and Vibration” of Euro-Asian Cooperation of National Metrological Institutions (COOMET). In 2014 I was elected full member - academician of the Russian Academy of Metrology.

Charlie Jarvis, NPL (United Kingdom)

Charlie Jarvis is a research scientist at the National Physical Laboratory. For the last 5 years he has been developing micro-thrust and micro-vibration measurement, generation and isolation test facilities for the space industry.