Free Space Lasercom Speaker Active Imaging Speakers

Banquet Speaker

Early Developments in Laser Science, Orazio Svelto; Politecnico di Milano, Italy



Orazio Svelto is professor of Physics of Matter at the Polytechnic Institute of Milan. His research has covered a wide range of activity in the field of Laser Physics and Photonics, starting from the early beginning (1962) of these disciplines. This activity includes ultrashort-pulse generation and applications, physics of laser resonators and techniques of mode selection, laser applications in biology and biomedicine, and physics of solid-state lasers. Professor Svelto is the author of more than 200 scientific papers and holds 3 patents; his researches have been the subject of more than 60 invited papers at international conferences. He is also the author of the book *Principles of Lasers* (Springer, 5th Ed., 2009) which has currently been adopted at several universities in Europe and United States and whose previous editions were also translated in Russian, Chinese, Greek, Farsi and

Arabic languages. He served as a Program Chairman, Conference Chairman or Honorary Chairman at several international conferences; in particular, he was program chair of the IX International Quantum Electronics Conference (Amsterdam, 1976), general co-chair of the first CLEO-Europe Conference (Amsterdam, 1994) and program co-chair for 2002 International Quantum Electronics Conference (Moscow). He is the recipient of several awards including the Italgas prize for research and technology innovation, the Quantum Electronics Prize of the European Physical Society, and the Charles H. Townes Award of The Optical Society. He is fellow of The Optical Society and of the Institute of Electrical and Electronics Engineers and he is an elected member of several Italian academies including the National Academy of Sciences and the "Accademia dei Lincei."

Free Space Lasercom

LSMA1, **Adaptive Optics for Free Space Laser Communications**, Mikhail Vorontsov¹, Thomas Weyrauch¹, Gary Carhart², Leonid Beresnev²; ¹School of Engineering, Univ. of Dayton, USA, ²ARL, USA

LSMA2, Analysis of Analog RF FSO Links, Frank Bucholtz, Harris Burris; NRL, USA

LSMA3, Air to Ground Lasercom System Demonstration, George Nowak; United States Military Acad., USA

LSMA4, **Differential Phase-Shift Keying in Multi-Wavelength Spatial Diversity Links**, Todd Ulmer, Scott R. Henion, Frederick G. Walther, Peter A. Schulz; *MIT Lincoln Lab, USA*

LSMB1, Coherent Free-Space Optical Communication Using Electronic Wavefront Correction, Guifang Li; Univ. of Central Florida, USA

LSMB2, On the Achievable Performance of Non-Line-of-Sight Ultraviolet Communications, Qunfeng He¹, Brian Sadler², Zhengyuan Xu¹; ¹Univ. of California, USA, ²US ARL, USA

LSMB3, Observations of Power-in-Fiber Statistics in Two Recent Free-Space Communication Link Experiments, Ron Parenti, Steven Michael, Jeffrey M. Roth, Timothy M. Yarnall; *MIT Lincoln Lab, USA*

LSMB4, Laser Radar for Channel Profiling for Laser Comm, Gary G. Gimmestad; Georgia Tech Res. Inst., USA

LSMB5, Measurements of Atmospheric Turbulence Characteristics for Laser Channel Characterization, Mikhail Belenkii; *Trex Enterprises Corp.*, USA

LSMC1, Title to Be Announced, Prem Kumar; Northwestern Univ., USA

LSMC2, Application of Adaptive Optics to Lasercom, Malcolm Northcott; Apptix Technologies, USA

LSMC3, Free-Space Quantum Key Distribution with Multilevel Encoding via Transverse Field Modulation, Mark T. Gruneisen; AFRL, USA

LSMC4, Free-Space Analog Optical Links: Systems, Performance and Statistical Properties, Frank Bucholtz¹, C. I. Moore¹, H. R. Burris¹, C. S. McDermitt¹, R. Mahon¹, M. R. Suite¹, J. V. Michalowicz², G. C. Gilbreath¹, W. S. Rabinovich¹; ¹NRL, USA, ²Global Strategies Group, North America, Inc., USA

LSTuA1, Analysis of a Field-Conjugation Adaptive Array for Coherent Free-Space Optical Links, Aniceto Belmonte¹, Joseph M. Kahn²; ¹Dept. of Signal Theory and Communications, Technical Univ. of Catalonia, Spain, ²Stanford Univ., USA

LSTuA2, A Review of Vertical Cavity Semiconductor Optical Amplifiers and Applications, Michael Sánchez; CENTRA Technology, USA

LSTuB1, **Underwater Optical Modulating Retro-Reflector Links**, William S. Rabinovich¹, Rita Mahon¹, Mike Ferraro¹, James Murphy¹, Linda Mullen², Brandon Cohenour², John Muth³, Leah Ziph-Schatzberg⁴; ¹NRL, USA, ²Electro-Optics and Special Mission Sensors Div., Naval Air Systems Command, NAVAIR, USA, ³North Carolina State Univ., USA, ⁴Photonics Ctr., Boston Univ., USA

LSTuB2, High Data Rate Underwater Comms, Phil Lacovara; Ambalux Corp., USA

LSTuB3, Blue Green Laser Communications, Dennis G. Harris, Frederick Vachss; Boeing Co., USA

LSTuB4, Blue-Green Laser Technology, Ralph Burnham¹, Fred Levinton²; ¹Fibertek Inc., USA, ²Nova Photonics, Inc., IISA

LSTuB5, Optical Filter for Submarine Laser Communications, Fred Levinton; NovaPhotonics, USA

LSTuB6, A Review of Submarine Laser Communications to Achieve Comms at Speed and Depth, Greg Mooradian; *QinetiQ, USA*

LSTuC1, ORCA Link Budget Analysis, Alan Pike; Defense Strategies & Systems, Inc., USA

LSTuC2, Air to Ground Lasercom, Frederick Walther, Steven Michael; MIT Lincoln Labs, USA

LSTuC3, Moon to Earth FSO Links, Don Boroson, Bryan Robinson; MIT Lincoln Lab, USA

LSTuC4, Submarine Laser Communication Uplinks, Gary M. Lee; Consultant, USA

LSWB1, Combating Atmospheric Scintillation and Dispersion on a Laser Imaging Link Using Multiple Parallel Beams, Mohsen Kavehrad, Zeinab Hajjarian, Jarir Fadlullah; *Penn State Univ.*, *USA*

Active Imaging

LSWA1, **Tomographic Lidar**, James T. Murray, Joseph Triscari, Gregory Fetzer, Ryan Epstein, Jeff Plath, William Ryder, Neil Van Lieu; *Areté Associates, USA*

LSWA3, Multi-Pixel (Matrix) Laser Vibrometer, James Kilpatrick, Vladimir Markov; MetroLaser Inc., USA

LSWA4, Photon Counting Lidars for Airborne and Spaceborne Topographic Mapping, John J. Degnan; Sigma Space Corp., USA

LSWB2, 3-D Passive Sensing and Multiview Imaging, B. Javidi¹, E. A. Watson², P. F. McManamon³; ¹Univ. of Connecticut, USA, ²US AFRL, Sensors Directorate, USA, ³Exciting Technology LLC, USALSWC3, Phased-Array Laser Radar System Based on Slow Light, Robert W. Boyd¹, George M. Gehring¹, M. A. Martinez Gamez¹, Aaron

Schweinsberg¹, Zhimin Shi¹, Joseph E. Vornehm, Jr.¹, Edward A. Watson², Lawrence Barnes²; ¹Univ. of Rochester, USA, ²AFRL, USA

LSWC1, Arrays of Gieger-Mode Avalanche Photodiodes for Ladar and Laser Communications, Alex McIntosh; MIT Lincoln Lab, USA

LSWC2, Coherent Imaging, Joseph Marron; Lockheed Martin Coherent Technologies, USA

LSWC3, **Phased-Array Laser Radar System Based on Slow Light**, Robert W. Boyd¹, George M. Gehring¹, M. A. Martinez Gamez¹, Aaron Schweinsberg¹, Zhimin Shi¹, Joseph E. Vornehm, Jr.¹, Edward A. Watson², Lawrence Barnes²; ¹Univ. of Rochester, USA, ²AFRL, USA

LSWD1, Higher-Order-Mode Fiber Amplifiers, Jeff Nicholson; OFS Labs, USA

LSWD2, Photonic Crystal Mirrors for Free-Space Communication and Fiber-Optic Sensors, S. Hadzialic, I. W. Jung, O. Kilic, S. Kim, J. Provine, R. T. Howe, O. Solgaard; *Edward L. Ginzton Lab, Stanford Univ., USA*

LSWE2, **Controlling Light-Matter Interactions Using Photonic Crystal Fibers**, Philip Russell; *Max Planck Inst. for the Science of Light, Germany*

LSWE3, Title to Be Announced, Peter Moulton; Q-Peak Inc., USA

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