The Conference and Exhibition on Lasers and Electro-Optics encompasses all aspects of laser and electro-optic technology from fundamental research, component and device development, to systems and applications. Conference will also include Poster and Plenary Sessions, short courses, awards and social events.

SESSIES:

I. — Atmospheric Applications
   E. David Birks, Jet Propulsion Laboratory (Chairman)

II. — Industrial Applications
    C. M. Penney, General Electric Research and Development Center (Chairman)

III. — Laser Chemical Physics
     Curt F. Will, University of Southern California (Chairman)

IV. — Laser Fusion and Laser-Produced Plasma Applications
     David Atwood, Lawrence Livermore National Laboratory (Chairman)

V. — Lasers
    Ralph R. Jacobs, Spectra-Physics, Peter F. Moulton, MIT Lincoln Laboratory (Co-Chairmen)

VI. — Medical Applications
     Myron L. Wolbarsht, Duke University Medical Center (Chairman)

VII. — Microelectronics Processing with Lasers
     R. J. von Gutfeld, IBM T. J. Watson Research Center (Chairman)

VIII. — Nonlinear and Phase-conjugate Optics and Spectroscopy
      P. F. Liao, Bell Laboratories (Chairman)

IX. — Optical Communications
     Michael Ettenberg, RCA Research Laboratories (Chairman)

X. — Optical Signal Processing, Switching, and Bistability
     Peter W. Smith, Bell Laboratories (Chairman)

XI. — Optical Storage
     Di Chen, Optical Peripherals Laboratory (Chairman)

XII. — Picosecond Optics and Electronics
     D. H. Auston, Bell Laboratories (Chairman)

INVITED SPEAKERS

Picosecond Distributed Feedback Dye Lasers, Zs. Bor, JATE University, Hungary
Advanced Optical Instruments for Remote Sensing of the Atmosphere, James Breckinridge, Jet Propulsion Laboratory
Recent Advances in Optical Signal Processing, David P. Casasent, Carnegie Mellon University
Quantum Well Heterostructure Lasers, J. Coleman, University of Illinois
Storage Ring Free-Electro-Lasers, D. A. G. Deacon, LURE Université de Paris-Sud and Stanford University
Optical Recording Technologies for Archival Data Storage, Maarten de Haan, Optical Peripherals Laboratory
CARS Diagnostics for Practical Combustion Measurements, A. Eckbreth, United Technologies Research Center
Optical Bistability in Semiconductor Etalons, Hyatt M. Gibbs, University of Arizona Materials Limitations in Optical Signal Processing, A. M. Glass, Bell Laboratories
Review of Laser and Initial Target Experiments with the 0.53 μm, 10KJ Novette Facility, J. F. Holzrichter, Lawrence Livermore National Laboratory
Sub-Nanosecond Optical Switching Devices, S. M. Jensen, Hughes Research Laboratories Laser Produced X-Rays for Spectroscopy and Other Applications, J. D. Kilkenny, Imperial College, United Kingdom
Laser Remote Sensing of the Atmosphere: Interpretation and Analysis, Dennis K. Killinger, MIT Lincoln Laboratory
Metallurgical Applications of Lasers, J. Mazaunder, University of Illinois
Lidar and Satellite-Borne Optical Measurement of Stratospheric Aerosols, M. P. McCormick, NASA/Langley Research Center
Essential Physics and Technology Issues for Direct Drive Laser Fusion, R. L. McCrory, University of Rochester
Resistant Room Temperature Nonlinear Optical Processes in GaAs—GaAlAs Multiple Quantum Well Structures, D. A. Miller, D. S. Chemla, A. C. Gossard, and P. W. Smith, Bell Laboratories
New Solid State Tunable Lasers, Peter F. Moulton, MIT Lincoln Laboratory
New Approaches to Electrical Transient Sampling Systems with Pico-second Resolution, G. Mourou, J. Vaidman, and S. Williamson, University of Rochester
Recent Advances in Photochemical Deposition, Richard M. Ospool, Columbia University
IR Spectrum of Solid Hydrogen by PULPIT Spectroscopy, C. K. N. Patel, Bell Laboratories
Optically-Pumped Picosecond Semiconductor Lasers in External Cavity, M. M. Salour, Massachusetts Institute of Technology
Femtosecond Spectroscopy, C. V. Shank, R. L. Fork, and Y. R. Shen, Bell Laboratories
Nonlinear Optical Spectroscopy of Surfaces, Y. R. Shen, T. F. Heinz, and H. K. Tsong, University of California
Ablative Photodecomposition of Organic Polymer Films by Far-UV Excimer Laser Irradiation, R. Srivastava, IBM T. J. Watson Research Center

High Efficiency Discharge-Pumped Excimer Lasers, W. H. Long, S. J. Plummer, and E. A. Stappert, Northrop Research and Technology Center
Laser Sensors for Automated Manufacturing, D. Sweeney, Purdue University
Applications of New Interference Effects in Optical Harmonic Generation, J. J. Wynne, and D. J. Jackson, IBM T. J. Watson Research Center
Lasers and Catalysis, J. T. Yardley, Allied Corporation

COURSES:

Industrial and Engineering Laser Applications — John F. Ready, Honeywell Corporate Technology Center
Monday, May 16 — 8:30 AM-12:30 PM
Fiber Optics (two ½ day courses) — Elias Smitzer, United Technologies Research Center
Monday, May 16 — 8:30 AM-12:30 PM — Intro. to Fiber Optics and Communications; 1:30-5:30 PM — Fiber-Optic Sensors Applications of Lasers and Spectroscopy — Leon J. Radziemski, Los Alamos National Laboratory
Monday, May 16 — 1:30 PM-5:30 PM
Atmospheric Propagation of Laser Beams — Hugo Welsch, Air Force Institute of Technology Monday, May 16, 1:30-5:30 PM

PLAN NOW TO ATTEND

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