

Appendix A. RLE Publications and Papers Presented

This bibliography lists publications, papers, and talks presented or published by RLE faculty, staff, and students during 1997, and each section is in alphabetical order by author. Copies of these papers may be obtained by contacting the authors directly. Section 1 is a list of papers and talks; section 2 lists journal articles published and articles submitted or accepted for publication. Books and book chapters by RLE authors are listed in section 3. Section 4 of this bibliography lists RLE general publications and technical reports, and section 5 is a list of RLE theses submitted during 1997. Theses and technical reports are available from Document Services, MIT Libraries, Room 14-0551, 77 Massachusetts Avenue, Cambridge, Massachusetts 02139-4307; telephone (617) 253-5668; email: docs@mit.edu; fax: (617) 253-1690.

A.1 Meeting Papers

A.1.1 Papers Presented

- Abnet, C.C., and D.M. Freeman. "Deformations of the Isolated Mouse Tectorial Membrane Produced by Calibrated Oscillatory Forces." Abstracts of the Twenty-First Midwinter Research Meeting of the Association for Research in Otolaryngology, St. Petersburg Beach, Florida, February 15-19, 1998, p. 183.
- Ahadian, J.F., S.G. Patterson, P.T. Vaidyanathan, Y. Royter, D. Mull, G.S. Petrich, W.D. Goodhue, S. Prasad, L.A. Kolodziejski, and C.G. Fonstad. "Epitaxy-on-Electronics: Building Monolithic OEICs on Commercial GaAs VLSI." 1997 International Conference on GaAs Manufacturing Technology (MANTECH), Session V, San Francisco, California, June 2-5, 1997.
- Akerson, J.J., Y.E. Yang, and J.A. Kong. "Finite Difference Time Domain (FDTD) Analysis of Dielectric Rib Waveguide Discontinuities." Progress In Electromagnetics Research Symposium (PIERS), Cambridge, Massachusetts, July 7-11, 1997.
- Akerson, J.J., Y. Zhang, S.E. Shih, I. Balk, Y.E. Yang, J.A. Kong, and Y. Hara. "A Branch Cut Method Based Automatic Phase Unwrapping Technique for SAR Interferometry." Progress In Electromagnetics Research Symposium (PIERS), Cambridge, Massachusetts, July 7-11, 1997.
- Aluru, N.R., and J. White. "Direct-Newton Finite-Element/Boundary-Element Technique for Micro-Electro-Mechanical-Analysis." IEEE Solid-State Sensor and Actuator Workshop.
- Ao, C.O., Y. Zhang, and J.A. Kong. "Backscattering of Electromagnetic Waves from a Cylinder on a Rough Surface." Progress In Electromagnetics Research Symposium (PIERS), Cambridge, Massachusetts, July 7-11, 1997.
- Baggeroer, A.B., and J. Woods. "Optimal Reduced Rank Adaptive Matched Field Processing." Underwater Acoustics Signal Processing Workshop, Providence, Rhode Island, October 9, 1997.
- Basdogan, C., C-H. Ho, and M.A. Srinivasan. "A Ray-Based Haptic Rendering Technique for Displaying Shape and Texture of 3D Objects in Virtual Environments." ASME International Mechanical Engineering Annual Winter Meeting, Dallas, Texas, November 15-21, 1997.
- Beheshti, S., and G.W. Wornell. "Iterative Interference Cancellation and Decoding for Spread-Signature CDMA Systems." Vehicular Technology Conference Phoenix, Arizona, May 3-7, 1997.
- Belova, E.V., W. Park, G.Y. Fu, H.R. Strauss, and L.E. Sugiyama. "3D Hybrid Simulations with Gyrokinetic Particle Ions and Fluid Electrons." American Physical Society Meeting, Pittsburgh, Pennsylvania, November 15-21, 1997.
- Bilinsky, I.P., B.E. Bouma, and J.G. Fujimoto. "Self-starting KLM Ti:Al₂O₃ Laser Using Semiconductor Doped Glass Structures." Paper presented at the 1998 Conference on Lasers And Electro-Optics, San Francisco, California, May 2-8, 1998.
- Blackwell, W.J., and D.H. Staelin. "Simulation Analyses of the Integrated Multispectral Atmospheric Sounder for Tropospheric Sounding of Temperature and Water Vapor Profiles." Paper presented at the 5th Specialist Meeting on Microwave Radiometry and Remote Sensing of the Environment.
- Boppart, S.A., B.E. Bouma, C. Pitris, J.F. Southern, M.E. Brezinski, and J.G. Fujimoto. "Optical Coherence Tomographic Imaging of In Vivo Cellular Dynamics." Paper presented at the Advances in Optical Imaging and Photon Migration Conference, Orlando, Florida, March 9-13, 1998.
- Boppart, S.A., M.E. Brezinski, B.E. Bouma, C. Pitris, J.F. Southern and J.G. Fujimoto. "Microsurgical Guidance using Optical Coherence Tomography." Conference on Lasers and Electro Optics CLEO'97, Baltimore, Maryland, May 18-

- 23, 1997, paper CWD2.
- Boppart, S.A., J.M. Herrmann, C. Pitris, B.E. Bouma, G.J. Tearney, M.E. Brezinski, and J.G. Fujimoto. "Interventional Optical Coherence Tomography for Surgical Guidance." Submitted for presentation at the Conference on Lasers and Electro Optics, CLEO98, San Francisco, California, May 1998.
- Bouma, B.E., G.J. Tearney, S.A. Boppart, B. Golubovic, I.P. Bilinsky, and J.G. Fujimoto. "Mode Locked Solid State Laser Sources for Optical Tomography." Coherence Domain Optical Methods in Biomedical Science and Clinical Applications, BIOS 97 International Biomedical Optics Symposium, SPIE, February 8-14, 1997, San Jose, California.
- Brezinski, M.E., B.E. Bouma, S.A. Boppart, C. Pitris, J.F. Southern, and J.G. Fujimoto. "In Vivo High Resolution Imaging of Gastrointestinal Tissue using Optical Coherence Tomography." Paper presented at the Annual Meeting of the American Society for Gastrointestinal Endoscopy at Digestive Disease Week, Washington, D.C., May 11-14, 1997.
- Brezinski, M.E., J.M. Herrmann, C. Pitris, B.E. Bouma, S.A. Boppart, J.F. Southern, J.G. Fujimoto. "Ultrahigh Resolution Imaging of Normal and Osteoarthritic Cartilage Microstructure." Poster presentation, American College of Rheumatology National Scientific Meeting, Washington, D.C., November 8-12, 1997.
- Brezinski, M.E., C. Pitris, S.A. Boppart, G.J. Tearney, J.F. Southern, and J.G. Fujimoto. "Micron Scale Optical Biopsy with Optical Coherence Tomography." Submitted for presentation to ASCO Annual Meeting, Denver, Colorado, May 17-20, 1997.
- Brezinski, M.E., G.J. Tearney, S.A. Boppart, B. Bouma, E.A. Swanson, J.F. Southern, and J.G. Fujimoto. "In Vivo Imaging with Optical Coherence Tomography." American College of Cardiology 46th Annual Scientific Session, Anaheim, California, March 16-19, 1997.
- Brezinski, M.E., G.J. Tearney, S.A. Boppart, B.E. Bouma, N.J. Weissman, C. Pitris, J.G. Fujimoto. "Micron Scale Catheter Based In Vivo and In Vitro Imaging with Optical Coherence Tomography." Oral presentation, Transcatheter Cardiovascular Therapeutics, Washington, D.C., September 24-28, 1997.
- Brothers, L.R., and N.C. Wong. "Dispersion Compensation of a Terahertz-span Optical Frequency Comb Generator." CLEO/QELS Conference on Lasers and Electro-Optics/Quantum Electronics and Laser Science Baltimore, Maryland, May 18-23, 1997.
- Caputo, P., A.E. Duwel, T.P. Orlando, A.V. Ustinov, N.C.H. Lin, and S.P. Yukon. "Experiments with Triangular Arrays of Josephson Junctions." ISEC, Berlin, 1997.
- Chandrakasan, A., I.Y. Yang, C. Vieri, and D.A. Antoniadis. "Design Consideration and Tools for Low-voltage Digital System Design." IEEE/AMC Design Automation Conference.
- Chen, H., J. Kuo, K. Poort, K. Stevens, and M. Chen. "Application of Acoustic Models of Speech Production to Disordered Speech." Acoustical Society of America 134th Meeting, San Diego, CA, November 29-December 4, 1997.
- Chernikov, S.V., J.R. Taylor, V.P. Gapontsev, B.E. Bouma, and J.G. Fujimoto. "A 75-nm, 30-mW Superfluorescent Ytterbium Fiber Source Operating Around 10.6 μ m." Conference on Lasers and Electro Optics CLEO '97, Baltimore, Maryland, May 18-23, 1997, paper CTuG8.
- Cherukupally, S.R., S.N. Merchant, and J.J. Rosowski. "Correlations between Stapes Pathology and Conductive Hearing Loss in Otosclerosis." Abstracts of the 20th Midwinter Research Meeting of the Association for Research in Otolaryngology, St. Petersburg Beach, Florida, February 2-6, 1997, p. 66.
- Choi, J.-Y., E. Chuang, D. Gow, K. Kwong, S. Shattuck-Hufnagel, K. Stevens, and Y. Zhang. "Labeling a Speech Database with Landmarks and Features." Acoustical Society of America 134th Meeting, San Diego, California, November 29-December 4, 1997.
- Coker, J.G. M.R. Hee, C.A. Puliafito, J.C. Szwartz, J.S. Duker, E. Reichel, J.S. Schuman, E.A. Swanson, and J.G. Fujimoto. "Prognosis and Anatomic Outcome of Macular Hole Surgery Assessed by Optical Coherence Tomography." Association for Research in Vision and Ophthalmology Annual Meeting, Fort Lauderdale, Florida, May 11-16, 1997, paper 3455-B56.
- Coppo, L., L. Guerriero, J. Johnson, J.A. Kong, G. Macelloni, F. Marzana, J. Noll, P. Pampaloni, N. Pierdicca, D. Solimini and Y. Zhang. "A Physical Model for Ocean Wind Measurements by Means of Radiopolarimetry." Paper presented at Fifth

- Specialist Meeting on Microwave Radiometry and Remote Sensing of the Environment.
- Costa, J.P., M. Chou, and L.M. Silveira. "Efficient Techniques for Accurate Modeling and Simulation of Substrate Coupling in Mixed-Signal ICs." Design, Automation and Test in Europe, Exhibition and Conference (DATE '98), Paris, France, February 1998.
- de Lange, G., Q. Hu, H. Huang, and A. W. Lichtenberger. "Development of a 170-210 GHz 3x3 Micromachined SIS Imaging Array." Paper presented at the 8th International Symposium on Space Terahertz Technology, Cambridge, Massachusetts, March 1997; published in the symposium proceedings, pp. 518, 1998. Also presented at the 20th ESTEC Antenna Workshop on Millimeter Wave Antenna Technology and Antenna Measurements, Noordwijk, the Netherlands, June 18-20, 1997; to be published in the workshop proceedings.
- Del Frante, F., and L. Wang. "Vegetation Biomass Estimation from SAR Data using a Neural network Algorithm." Paper Presented at 11th Runione Nazionale di Electromagnetismo, Firenze, Italia, 1997.
- Delgutte, B., B.M. Hammond, and P.A. Cariani. "Neural Coding of the Temporal Envelope of Speech: Relation to Modulation Transfer Functions." Abstracts of the 20th Midwinter Research Meeting of the Association for Research in Otolaryngology, St. Petersburg Beach, Florida, February 2-6, 1997, p. 191.
- DiFranco, D.E., G.L. Beauregard, and M.A. Srinivasan. "The Effect of Auditory Cues on the Haptic Perception of Stiffness in Virtual Environments." ASME International Mechanical Engineering Meeting Annual Winter, Dallas, Texas, November 15-21, 1997.
- Ding, K.H., Y.E. Yang, S.E. Shih and J.A. Kong. "Calculation of Effective Dielectric Constants and Attenuation Rates for Densely Packed Systems with Multi-component Adhesive Spheres." Paper Presented at the Adhesive Society Meeting, Myrtle Beach, South Carolina.
- Floury, N., T. LeToan, T. Castel, A. Beaudoin, J.F. Barczi, Y. Caraglio, and J.A Kong. "On The Coupling Of Rt Model To Tree Growth Modeling: Modeling Of Forest Backscatter." IEEE IGARSS, Singapore, August 1997.
- Fonstad, C.G., Jr., J.F. Ahadian, S.G. Patterson, P.T. Vaidyanathan, Y. Royter, G.S. Petrich. L.A. Kolodziejski, W.D. Goodhue, and S. Prasad. "Epitaxy-on-Electronics: Monolithic Integration of Heterostructure Devices on Commercially-Processed Gallium Arsenide Integrated Circuits." Materials Research Society 1997 Spring Meeting, Symposium C: Processing of Compound Semiconductors for High-Speed Devices, Invited Paper, San Francisco, California, April 1, 1997 (abstract only).
- Fonstad, C.G., Jr., J.F. Ahadian, S.G. Patterson, P.T. Vaidyanathan, Y. Royter, G.S. Petrich, L.A. Kolodziejski, and S. Prasad. "Epitaxy-on-Electronics Enhancement of GaAs IC Performance with Monolithic Optical and Quantum-Effect Devices." 1997 Advanced Workshop on Frontiers in Electronics (WOFE '97) Proceedings, Tenerife, Spain, January 6-11, 1997, pp. 27-30, invited paper.
- Foresi, J.S., B. Little, G. Steinmeyer, E. Thoen, S. Chu, H. Haus, E. Ippen, L. Kimerling, and W. Greene. "Si/SiO₂ Micro-Ring Resonator Optical Add/Drop Filters." CLEO/QELS Conference on Lasers and Electro-Optics/Quantum Electronics and Laser Science Baltimore, Maryland, May 17-23, 1997.
- Freeman, D.M., and C.C. Abnet. "Mechanical Properties of the Isolated Mouse Tectorial Membrane." Association for Research in Otolaryngology, St. Petersburg, Florida, February 2-6, 1997.
- Freeman, D.M., and C.Q. Davis. "Using Video Microscopy to Measure 3D Cochlear Motions with Nanometer Precision." Association for Research in Otolaryngology, St. Petersburg, Florida, February 2-6, 1997.
- Fujimoto, J.G. "Optical Coherence Tomography for Biomedical Imaging." International Topical Workshop on Contemporary Photonic Technologies, Tokyo, Japan, January 11-15, 1998, invited talk.
- Fujimoto, J.G., B.E. Bouma, G.J. Tearney, S.A. Boppart, C. Pitris, J. Herrmann, E.A. Swanson, J.F. Southern, and M.E. Brezinski. "Optical Coherence Tomography for Biomedical Imaging and Diagnostics." International Conference on Optical Fiber Sensors, Norfolk, Virginia, October 27-29, 1997.
- Fujimoto, J.G., B.E. Bouma, G.J. Tearney, S.A. Boppart, C. Pitris, J.F. Southern, and M.E. Brezinski. "High Speed and High Resolution Optical Coherence Tomography using Femtosecond Lasers." Conference on Lasers and Electro Optics CLEO'97, Baltimore, Maryland, May 18-23, 1997, invited paper.
- Fujimoto, J.G., G.J. Tearney, S.A. Boppart, C. Pitris,

- and B.E. Bouma. "High Speed High Resolution Optical Coherence Tomography for Optical Biopsy." LASERmed 97, 13th International Congress Laser Medicine, Munich, Germany, June 18-20, 1997.
- Fujimoto, J.G., G.J. Tearney, S.A. Boppart, C. Pitris, B.E. Bouma, J. Herrmann, J.F. Southern, and M.E. Brezinski. "Optical Coherence Tomographic in Medicine." Fifth Congress of the International Society for Skin Imaging, Vienna, Austria, September 25-27, 1997, invited talk.
- Fujimoto, J.G., G.J. Tearney, S.A. Boppart, C. Pitris, B.E. Bouma, J.F. Southern, and M.E. Brezinski. "High Speed High Resolution Optical Coherence Tomography for Optical Biopsy." 13th International LASERmed Conference, Munich, Germany, May 31-June 13, 1997.
- Fujimoto, J.G., G.J. Tearney, S.A. Boppart, C. Pitris, B.E. Bouma, J.F. Southern, and M.E. Brezinski. "High Speed and High Resolution Optical Coherence Tomography." Engineering Foundation Conference on Advances in Optical Technology for Medicine and Surgery, Salt Lake City, Utah, July 11-23, 1997.
- Fujimoto, J.G., G. Tearney, S. Boppart, C. Pitris, B. Bouma, J. Southern, and M. Brezinski. "New Techniques for High Resolution and High Speed Optical Coherence Tomography." New York Academy of Sciences and the Center for Advanced Technology at CUNY on Advances in Optical Biopsy and Optical Mammography, April 24-25, 1997, New York, New York.
- Goodberlet, J. "Spatial-Phase-Locked Electron-Beam Lithography." Electronics and Electrical Engineering Seminar, Auckland, New Zealand, July 1997.
- Goodberlet, J., J. Ferrera, M. Farhoud, V.Z. Chan, and H.I. Smith. "Spatial-Phase-Locked Electron-Beam Lithography in One Dimension Using an External Analog Delay-Locked Loop." Tenth International Microprocesses and Nanotechnology Conference, Nagoya, Japan, July 1997.
- Graf, I., and L.D. Braid. "Simulating the Effects of Sensorineural Hearing Loss." NIH Sponsored Hearing Air Research and Development Conference, Bethesda, Maryland, September 21-24, 1997.
- Greenberg, J.E., P.M. Zurek, W.M. Rabinowitz, M. Brantley, and A.R. Brughera. "Program of Hearing Aid Device Development: Algorithms." Second Biennial Hearing Aid Research and Development Conference, National Institutes of Health, Bethesda, Maryland, 1997.
- Hadjiyiannis, G., S. Hanono, and S. Devadas. "ISDL: An Instruction Set Description Language for Retargetability Abulated S-parameter Data." Design Automation Conference 34th, Anaheim, California, June 6-11, 1997.
- Haus, H.A. and E.P. Ippen. "Mode-locked Fiber Ring Lasers." Optical Society of America Meeting on Ultrafast Electronics and Optoelectronics, Incline Village, Nevada, March 17-19, 1997.
- Herrmann, J.M., S.A. Boppart, B.E. Bouma, G.J. Tearney, C. Pitris, M.E. Brezinski, and J.G. Fujimoto. "Real Time Imaging of Laser Intervention with Optical Coherence Tomography." Paper presented at the Advances in Optical Imaging and Photon Migration Conference, Orlando, Florida, March 9-13, 1998.
- Herrmann, J.M., C. Pitris, B.E. Bouma, S.A. Boppart, J.G. Fujimoto, and M.E. Brezinski. "Two and Three Dimensional Imaging of Normal and Osteoarthritic Cartilage Microstructure with Optical Coherence Tomography." Paper presented at the Advances in Optical Imaging and Photon Migration Conference, Orlando, Florida, March 9-13, 1998.
- Hu, Q. "High-frequency Dynamics of Antenna-coupled Mesoscopic Devices." Paper presented at the 1997 American Physical Society March meeting, Kansas City, Missouri, March 1997, invited paper.
- Hu, Q. "High-frequency Studies of Quantum-effect Devices." IBM Research Center, Yorktown Heights, New York, 1997.
- Hu, Q. "Terahertz Laser Based on Intersubband Transition." Advanced Heterostructure Transistors Conference.
- Hu, Q., B. Xu, and M.R. Melloch. "Intersubband Terahertz Emitters." Paper presented at the International Workshop on Intersubband Transitions in Quantum Wells: Physics and Devices, Tainan, Taiwan, December 1997. (Invited paper delivered by H.C. Liu.)
- Huang, G.T., J.J. Rosowski, B.R. Cranston, and W.T. Peake. "Middle-ear Cavity Structure and Function in Bobcat (*Lynx rufus*)." Abstracts of the Twentieth Midwinter Research Meeting of the Association for Research in Otolaryngology, St. Petersburg Beach, Florida, February 2-6, 1997, p. 140.
- Huang, L.N., J.S. Schuman, T.P. Kloizman, L. Pieroth, N. Wang, M.R. Hee, J.G. Coker, C.A. Puliafito, J.G. Fujimoto, and E.A. Swanson. "The Comparison of Nerve Fiber Layer Thickness in

- Glaucomatous Monkey Eyes Measured by Optical Coherence Tomography." Association for Research in Vision and Ophthalmology Annual Meeting, Fort Lauderdale, Florida, May 11-16, 1997, paper 3913-B514.
- Ippen, E.P. "Recent Advances in Femtosecond Optics." Physics of Quantum Electronics, Snowbird, Utah, January 13-15, 1997.
- Joannopoulos, J. "The Nature of a Wet Electron." American Physical Society Meeting Kansas City, Missouri, March 17-21, 1997.
- Johnson, J.T., R.T. Shin, J.A. Kong, L. Tsang, and J. Edson. "A Method of Moments Model for VHF Propagation." IEEE AP-S International Symposium and URSI Radio Science Meeting.
- Kalluri, S., and Delgutte, B. "An Electrical Circuit Model for Cochlear Nucleus Onset Responders." Abstracts of the 20th Midwinter Research Meeting of the Association for Research in Otolaryngology, St. Petersburg Beach, Florida, February 2-6, 1997, p. 114.
- Ketterle, W. "Bose-Einstein Condensation in Trapped Atomic Na." American Physical Society Meeting, Kansas City, Missouri, March 17-21, 1997.
- Ketterle, W. "Bose-Einstein Condensation in Trapped Atomic Na." German Physical Society Meeting Munich, Germany, March 1997.
- Ketterle, W. "Bose-Einstein Condensation in a Weakly Interacting Gas - Basics and Recent Results." Physics of Quantum Electronics, Snowbird, Utah, January 13-15, 1997, invited plenary talk.
- Ketterle, W. "Observation of Bose-Einstein Condensation in a Gas of Sodium Atoms." Workshop on Collective Effects in Ultracold Atomic Gases, Les Houches.
- Ketterle, W. "Observation of Bose-Einstein Condensation in Ultracold Atomic Gases." Fifteenth General Conference of the Condensed Matter Division of the European Physical Society.
- Ketterle, W., and M. Andrews. "Bose-Einstein Condensates — Matter with Laser-like Properties." Division of Atomic Molecular, and Optical Physics (DAMOP) Annual Meeting, Washington, D.C., April 18-21, 1997.
- Ketterle, W., M.R. Andrews, D.S. Durfee, D.M. Kurn, M.O. Mewes, C.G. Townsend, and N.J. van Druten. "Bose-Einstein Condensation of Sodium Atoms." Twenty-first International Conference on Low Temperature Physics.
- Ketterle, W., M.R. Andrews, D.S. Durfee, D.M. Kurn, M.O. Mewes, N.J. van Druten, and C.G. Townsend. "Properties of a Weakly Interacting Bose-Einstein Condensate." U.S. Workshop on Bose-Einstein Condensation Book of Abstracts.
- Kim, V.Y., S. Roh, L. Pieroth, T. Pedut-Kloizman, M. Hee, J.G. Coker, J.C. Schwartz, C.A. Puliafito, J.S. Schuman, E.A. Swanson, J.G. Fujimoto, and J.S. Duker. "Quantification of Nerve Fiber Layer and Retinal Thickness using Optical Coherence Tomography in Patients with Human Immunodeficiency Virus Infection." Association for Research in Vision and Ophthalmology Annual Meeting, Fort Lauderdale, Florida, May 11-16, 1997, paper 5151-B658.
- Kokorowski, D.A., T.D. Hammond, E.T. Smith, R.A. Rubenstein, A. Dhirani, J. Schmiedmayer, and D.E. Pritchard. "Atomic Beam Propagation Effects: Index of Refraction and Longitudinal Tomography." SPIE International Society for Optical Engineering Conference, San Jose, California, February 8-14, 1997.
- Kolodziejski, L.A., M.H. Lim, V.V. Wong, H.I. Smith, and M.S. Goorsky. "Overgrowth of InGaAsP Materials on Rectangular-Patterned Gratings using GSMBE." IEEE Lasers and Electro-Optics Society; IEEE Electron Devices Society, International Conference on Indium Phosphide and Related Materials, Hyannis, Massachusetts, May 11-17, 1997.
- Koontz, E.M., G.S. Petrich, LCho, S.H., B.E. Bouma, E.P. Ippen, and J.G. Fujimoto. "A 15 MHz High Peak Power KLM Ti:Al₂O₃ Laser using Multiple Pass Long Cavity." Paper presented at the 1998 Conference on Lasers and Electro-Optics, San Francisco, California, May 2-8, 1998.
- Kuo, J., R.E. Hillman, and E.B. Holmberg. "Modelling and Analysis of Speakers with Vocal-Fold Nodules." Acoustical Society of America 134th Meeting, San Diego, California, November 29-December 4, 1997.
- Kurn, D.M., H-J. Miesner, M.R. Andrews, D.S. Durfee, C.G. Townsend, S. Inouye, C. Kuklewitz, and W. Ketterle. "Collective Excitations and the Nature of Sound in a Bose Condensed Gas." Optical Society of America Annual Meeting Long Beach, California, October 12-20, 1997.
- LeToan, T., N. Flourey, T.F. Ribbes, L. Wang, K.H. Ding and C.C. Hsu. "On the Retrieval of Rice Crop Parameters from SAR Data." Paper presented at the Progress in Electromagnetics Research Symposium (PIERS), Cambridge, Massachusetts, July 7-11, 1997.
- LeToan, T., F. Ribbes, N. Flourey, L. Wang, K.H. Ding,

- J.A. Kong, and A. Rosenquist. "On the Retrieval of Rice Crop Parameters From ERS, JERS, and RADARSAT Data." Paper presented at the Progress in Electromagnetics Research (PIERS), Cambridge, Massachusetts, July 7-11, 1997.
- LeToan, T., J.C. Souyris, N. Flouy, J.A. Kong, and C.C. Hsu. "On the use of Polarimetric and Interferometric SAR Data for Forest Monitoring." IEEE AP-S International Symposium and URSI Radio Science Meeting.
- Leung, G., and J.H. Shapiro. "Toward a Fundamental Understanding of Multiresolution SAR Signatures." Aerospace/Defense Sensing and Controls Conference Orlando, Florida, April 20-25, 1997.
- Leung, G., and J.H. Shapiro. "Toward a Fundamental Understanding of Multiresolution SAR Signatures." SPIE Aero Sense '97.
- Li, J., and J. White. "Approximation of Potentials by Multipole Grid Projections," Topical Meeting on Electrical Performance of Electronic Packaging, San Jose, California, November 1997.
- Litovsky, R.Y., B.R. Cranston, and B. Delgutte. "Neural Correlates of the Precedence Effect in the Inferior Colliculus: Effect of Localization Cues." Abstracts of the Twenty-First Midwinter Research Meeting of the Association for Research in Otolaryngology, St. Petersburg Beach, Florida, February 15-19, 1998, p. 40.
- Lyubomirsky, I., and Q. Hu. "Asymmetric Quantum Wells: A New Gain Medium for Optical Parametric Oscillators." Material Research Society Fall Meeting, Boston, Massachusetts, December 1997.
- Lyubomirsky, I., Q. Hu, C. Hansing, and B.G. Streetman. "Terahertz Intersubband Emission in Optically Pumped Quantum Wells." Material Research Society Fall Meeting, Boston, Massachusetts, December 1997.
- Mason, E.J., and N.C. Wong. "Self-Phase Locking in a Type-II Phase-Matched Optical Parametric Oscillator." Digest of Conference on Lasers and Electro-Optics, Baltimore, Maryland, May 19-23, 1997.
- McIlrath, M. "LabNetwork." Presentation at Semiconductors Research Corporation (SRC) TechCon.
- McKinney, M.F., and B. Delgutte. "Correlates of the Subjective Octave in Auditory-nerve Fiber Responses: Effect of Phase-locking and Refractoriness." Abstracts of the 21st Midwinter Research Meeting of the Association for Research in Otolaryngology, St. Petersburg Beach, Florida, February 15-19, 1998, p. 138.
- Mochrie, S.G.J. "Faceting of Stepped Si(113): Step Unbinding, Dynamic Scaling, and Self-Assembly of Nano-scale Grooves." Fall Meeting of the Materials Research Society.
- Mochrie, S.G.J. "Faceting of Stepped Si(113): Step Unbinding, Dynamic Scaling, and Self-Assembly of Nano-scale Grooves." Conference on the Dynamics of Crystal Surfaces and Interfaces.
- Nee, P., and N.C. Wong. "Three-to-One Optical Frequency Division at 532 NM Using a Double-grating PPLN." CLEO/QELS Conference on Lasers and Electro-Optics/Quantum Electronics and Laser Science, Baltimore, Maryland, May 18-23, 1997.
- Nee, P., and N.W. Wong. "Optical Frequency Division by Difference-Frequency Mixing in Periodically Poled Lithium Niobate." IEEE Frequency Control Symposium, Orlando, Florida, May 28-30, 1997.
- Ooi, J.M., and G.W. Wornell. "Fast Iterative Coding for Feedback Channels." International Symposium on Information Theory, Ulm, Germany, June 28-July 4, 1997.
- Ooi, J.M., and G.W. Wornell. "Fast Iterative Coding for Feedback Channels." IEEE International Symposium on Information Theory, Frankfurt, Germany, June 29-July 7, 1997.
- Papadopoulos, H.C., and G.W. Wornell. "Distributed Estimation Techniques for Wireless Sensor Networks." Allerton Conference on Communication Control, and Computing, Illinois, September 27-October 1, 1997.
- Park, W., E.V. Belova, G.Y. Fu, H.R. Strauss, and L.E. Sugiyama. "M3D (Multi-level 3D) Project for Simulation of Plasmas." American Physical Society Meeting, Pittsburgh, Pennsylvania, November 15-21, 1997.
- Perkell, J.S. "Auditory Feedback and Speech Motor Control: Studies of Cochlear Implant Users and NF-2 Patients." Acoustical Society of America Meeting, San Diego, California, November 29-December 5, 1997.
- Perkell, J.S., M.L. Matthies, R. Wilhelms-Tricarico, H. Lane and J. Wozniak. "Speech Motor Control: Phonemic Goals and the Use of Feedback." Proceedings of the Fourth Speech Production Seminar: Models and Data.
- Perkell, J.S., M. Zandipour, M. Matthies, and H. Lane. "Individual Differences in Speech and Cyclical Movements." Acoustical Society of America Meeting, San Diego, California, November 29-December 5, 1997.

- Phillips, J. "Recent Developments in Fast Algorithms for Electromagnetic Analysis." Microwave and Analog Front-End Technology Meeting, San Jose, California, October 30-31, 1997.
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