
Publications and Conference Presentations

Publications

S. R. Arrasmith, S. D. Jacobs, J. C. Lambropoulos, A. Maltsev, D. Golini, and W. I. Kordonski, "The Use of Magnetorheological Finishing (MRF) to Relieve Residual Stress and Subsurface Damage on Lapped Semiconductor Silicon Wafers," in *Optical Manufacturing and Testing IV*, edited by H. P. Stahl (SPIE, Bellingham, WA, 2001), Vol. 4451, pp. 286–294.

R. Betti, M. Umansky, V. Lobatchev, V. N. Goncharov, and R. L. McCrory, "Hot-Spot Dynamics and Deceleration-Phase Rayleigh–Taylor Instability of Imploding Inertial Confinement Fusion Capsules," *Phys. Plasmas* **8**, 5257 (2001).

J. E. DeGroot, S. D. Jacobs, L. L. Gregg, A. E. Marino, and J. C. Hayes, "Quantitative Characterization of Optical Polishing Pitch," in *Optical Manufacturing and Testing IV*, edited by H. P. Stahl (SPIE, Bellingham, WA, 2001), Vol. 4451, pp. 209–221.

F. Y. Fan, S. W. Culligan, J. C. Mastrangelo, D. Katsis, S. H. Chen, and T. N. Blanton, "Novel Glass-Forming Liquid Crystals. 6. High-Temperature Glassy Nematics," *Chem. Mater.* **13**, 458 (2001).

S. D. Jacobs, S. R. Arrasmith, I. A. Kozhinova, S. R. Gorodkin, L. L. Gregg, H. J. Romanofsky, T. D. Bishop II, A. B. Shorey, and W. I. Kordonski, "Effects of Changes in Fluid Composition on Magnetorheological Finishing (MRF) of Glasses and Crystals," in *Initiatives of Precision Engineering at the Beginning of a Millennium*, edited by I. Inasaki (Kluwer Academic Publishers, Boston, 2001), pp. 501–505.

I. A. Kozhinova, S. R. Arrasmith, J. C. Lambropoulos, S. D. Jacobs, and H. J. Romanofsky, "Exploring Anisotropy in Removal Rate for Single Crystal Sapphire Using MRF," in *Optical Manufacturing and Testing IV*, edited by H. P. Stahl (SPIE, Bellingham, WA, 2001), Vol. 4451, pp. 277–285.

C. K. Li, F. H. Séguin, D. G. Hicks, J. A. Frenje, K. M. Green, S. Kurebayashi, R. D. Petrasso, D. D. Meyerhofer, J. M. Soures, V. Yu. Glebov, R. L. Keck, P. B. Radha, S. Roberts, W. Seka, S. Skupsky, C. Stoeckl, and T. C. Sangster, "Study of Direct-Drive, DT Gas-Filled Plastic Capsule Implosions Using Nuclear Diagnostics at OMEGA," *Phys. Plasmas* **8**, 4902 (2001).

R. L. McCrory, R. E. Bahr, R. Betti, T. R. Boehly, T. J. B. Collins, R. S. Craxton, J. A. Delettrez, W. R. Donaldson, R. Epstein, J. Frenje, V. Yu. Glebov, V. N. Goncharov, O. V. Gotchev, R. Q. Gram, D. R. Harding, D. G. Hicks, P. A. Jaanimagi, R. L. Keck, J. Kelly, J. P. Knauer, C. K. Li, S. J. Loucks, L. D. Lund, F. J. Marshall, P. W. McKenty, D. D. Meyerhofer, S. F. B. Morse, R. D. Petrasso, P. B. Radha, S. P. Regan, S. Roberts, F. Séguin, W. Seka, S. Skupsky, V. A. Smalyuk, C. Sorce, J. M. Soures, C. Stoeckl, R. P. J. Town, M. D. Wittman, B. Yaakobi, and J. D. Zuegel, "OMEGA ICF Experiments and Preparation for Direct-Drive Ignition on NIF," *Nucl. Fusion* **41**, 1413 (2001).

D. D. Meyerhofer, J. A. Delettrez, R. Epstein, V. Yu. Glebov, V. N. Goncharov, R. L. Keck, R. L. McCrory, P. W. McKenty, F. J. Marshall, P. B. Radha, S. P. Regan, S. Roberts, W. Seka, S. Skupsky, V. A. Smalyuk, C. Sorce, C. Stoeckl, J. M. Soures, R. P. J. Town, B. Yaakobi, J. A. Frenje, C. K. Li, R. D. Petrasso, F. H. Séguin, K. Fletcher, S. Padalino, C. Freeman, N. Izumi, R. A. Lerche, T. W. Phillips, and T. C. Sangster, "Inferences of Mix in Direct-Drive Spherical Implosions with High Uniformity," *Plasma Phys. Control. Fusion* **43**, A277 (2001).

A. V. Okishev, A. Babushkin, R. E. Bahr, T. R. Boehly, R. Boni, R. S. Craxton, W. R. Donaldson, M. J. Guardalben, P. A. Jaanimagi, S. D. Jacobs, R. L. Keck, J. H. Kelly, T. J. Kessler, S. A. Letzring, S. J. Loucks, F. J. Marshall, R. L. McCrory, S. F. B. Morse, R. G. Roides, T. A. Safford, W. Seka, M. J.

Shoup III, M. D. Skeldon, S. Skupsky, J. M. Soures, K. A. Thorp, and J. D. Zuegel, "High-Energy Solid-State Lasers for ICF Applications," in *Proceedings of the International Congress on Optics—XXI Century* (St. Petersburg Institute of Fine Mechanics and Optics, St. Petersburg, Russia, 2000), pp. 10–18.

A. B. Shorey, S. D. Jacobs, W. I. Kordonski, and R. F. Gans, "Experiments and Observations Regarding the Mechanisms of Glass Removal in Magnetorheological Finishing," *Appl. Opt.* **40**, 20 (2001).

A. B. Shorey, K. M. Kwong, K. M. Johnson, and S. D. Jacobs, "Nanoindentation Hardness of Particles Used in Magnetorheological Finishing (MRF)," *Appl. Opt.* **39**, 5194 (2000).

R. Sobolewski, "Ultrafast Optoelectronic Interface for Digital Superconducting Electronics," *Supercond. Sci. Technol.* **14**, 994 (2001).

F.-Y. Tsai, E. L. Alfonso, D. R. Harding, and S. H. Chen, "Processing Vapor-Deposited Polyimide," *J. Phys. D: Appl. Phys.* **34**, 3011 (2001).

B. Yaakobi, C. Stoeckl, T. R. Boehly, R. S. Craxton, D. D. Meyerhofer, and W. Seka, "Measurement of Preheat Due to Fast Electrons in Laser Implosions," in *26th European Conference on Laser Interaction with Matter*, edited by M. Kalal, K. Rohlena, and M. Sinor (SPIE, Bellingham, WA, 2001), Vol. 4424, pp. 392–401.

Forthcoming Publications

A. Babushkin, M. J. Harvey, and M. D. Skeldon, "The Output Signal-to-Noise Ratio of a Nd:YLF Regenerative Amplifier," to be published in *Applied Optics*.

R. Betti, K. Anderson, V. N. Goncharov, R. L. McCrory, D. D. Meyerhofer, S. Skupsky, and R. P. J. Town, "Deceleration Phase of Inertial Confinement Fusion Implosion," to be published in *Physics of Plasmas*.

T. R. Boehly, T. J. B. Collins, O. Gotchev, T. J. Kessler, J. P. Knauer, T. C. Sangster, and D. D. Meyerhofer, "Observations of Modulated Shock Waves in Solid Targets Driven by Spatially Modulated Laser Beams," to be published in the *Journal of Applied Physics*.

P. H. Chen, S. W. Culligan, Y. H. Geng, D. Katsis, and S. H. Chen, "Photoresponsive Glassy Liquid Crystals for Tunable Reflective Coloration," to be published in *Polymer Preprints*.

T. J. B. Collins and S. Skupsky, "Imprint Reduction Using an Intensity Spike in OMEGA Cryogenic Targets," to be published in *Physics of Plasmas*.

W. R. Donaldson, R. Boni, R. L. Keck, and P. A. Jaanimagi, "A Self-Calibrating, Multichannel Streak Camera for Inertial Confinement Fusion Applications," to be published in the *Review of Scientific Instruments*.

W. R. Donaldson, J. H. Kelly, R. L. Keck, and R. Boni, "Predicting and Measuring Optical Pulse Shapes on the OMEGA Laser System," to be published in *OSA Trends in Optics and Photonics (TOPS) Vol. 56, Conference on Lasers and Electro-Optics (CLEO 2001)*.

Y. Geng, D. Katsis, S. W. Culligan, J. J. Ou, S. H. Chen, and L. J. Rothberg, "Fully Spiro-Configured Terfluorenes as Novel Amorphous Materials Emitting Blue Light," to be published in *Chemical Materials*.

V. N. Goncharov, "Analytical Model of Nonlinear Single-Mode Classical Rayleigh–Taylor Instability at Arbitrary Atwood Numbers," to be published in *Physical Review Letters*.

M. J. Guardalben, A. Babushkin, R. S. Craxton, R. L. Keck, W. R. Donaldson and K. A. Thorp, "Obtaining UV Energy Balance with 1-THz Spectral Bandwidth on the 60-Beam OMEGA Laser," to be published in *OSA Trends in Optics and Photonics (TOPS) Vol. 56, Conference on Lasers and Electro-Optics (CLEO 2001)*.

M. J. Guardalben, L. Ning, N. Jain, D. J. Battaglia, and K. L. Marshall, "Experimental Comparison of a Liquid-Crystal Point-Diffraction Interferometer (LCPDI) and a Commercial Phase-Shifting Interferometer and Methods to Improve LCPDI Accuracy," to be published in *Applied Optics*.

D. Katsis, Y. H. Geng, J. J. Ou, S. W. Culligan, A. Trajkovska, S. H. Chen, and L. J. Rothberg, "Spiro-Linked Ter-, Penta-, and Heptafluorenes as Novel Amorphous Materials for Blue Light Emission," to be published in *Chemical Materials*.

M. V. Kozlov and C. J. McKinstrie, "Sound Waves in One-Ion Plasmas," to be published in *Physics of Plasmas*.

J. M. Larkin, W. R. Donaldson, R. S. Knox, and T. H. Foster, "Reverse Intersystem Crossing in Rose Bengal. II. Fluence Dependence of Fluorescence Following 532 nm Laser Excitation," to be published in *Photochemistry and Photobiology*.

V. Lobatchev and R. Betti, "Ablative Stabilization of the Deceleration-Phase Rayleigh–Taylor Instability," to be published in *Physical Review Letters*.

J. A. Marozas, "Self- and Cross-Phase Modulation of High-Intensity Laser Beams Emerging from a Diamond-Turned KDP Wedge," to be published in the *Journal of the Optical Society of America B*.

J. A. Marozas, S. P. Regan, J. H. Kelly, D. D. Meyerhofer, W. Seka, and S. Skupsky, "Laser Beam Smoothing Caused by the Small-Spatial-Scale b -Integral," to be published in the *Journal of the Optical Society of America B*.

J. A. Marozas and J. D. Zuegel, "The Smoothing Performance of Ultrafast Pickets on the NIF," to be published in the *Journal of the Optical Society of America B*.

S. P. Regan, J. A. Delettrez, P. A. Jaanimagi, B. Yaakobi, V. A. Smalyuk, F. J. Marshall, D. D. Meyerhofer, W. Seka, D. A. Haynes, Jr., and C. F. Hooper, Jr., "Characterization of Direct-Drive-Implosion Core Conditions on OMEGA with Time-Resolved Ar K -Shell Spectroscopy," to be published in *Physics of Plasmas*.

F. H. Séguin, C. K. Li, D. G. Hicks, J. A. Frenje, R. D. Petrasso, J. M. Soures, V. Yu. Glebov, C. Stoeckl, P. B. Radha, D. D. Meyerhofer, S. Roberts, C. Sorce, T. C. Sangster, and M. D. Cable, "Diagnostic Use of Secondary D^3He Proton Spectra for DD OMEGA Targets," to be published in *Physics of Plasmas*.

W. Seka, H. A. Baldis, J. Fuchs, S. P. Regan, D. D. Meyerhofer, C. Stoeckl, B. Yaakobi, R. S. Craxton, and R. W. Short, "Multibeam Stimulated Brillouin Scattering from Hot Solid-Target Plasmas," to be published in *Physical Review Letters*.

A. D. Semenov, G. N. Gol'tsman, and R. Sobolewski, "Hot-Electron Effect in Superconductors and Its Applications for Radiation Sensors," to be published in *Superconductor Science and Technology Review*.

R. W. Short, "Stability of Self-Focused Filaments in Laser-Produced Plasmas," to be published in *Physical Review Letters*.

M. D. Skeldon, "An Optical-Pulse-Shaping System Based on an Electro-optic Modulator Driven by an Aperture-Coupled-Stripline Electrical-Waveform Generator," to be published in the *Journal of the Optical Society of America B*.

V. A. Smalyuk, J. A. Delettrez, V. N. Goncharov, F. J. Marshall, D. D. Meyerhofer, S. P. Regan, T. C. Sangster, and B. Yaakobi, "Rayleigh–Taylor Instability in the Deceleration Phase of Spherical Implosion Experiments," to be published in *Physics of Plasmas*.

R. Sobolewski, Y. Xu, X. Zheng, C. Williams, J. Zhang, A. Verevkin, G. Chulkova, A. Korneev, A. Kipatov, O. Okunev, K. Smirnov, and G. N. Gol'tsman, "Spectral Sensitivity of the NbN Single-Photon Superconducting Detector," to be published in the *Journal of the Institute of Electronics, Information, and Communication Engineers*.

A. Sunahara, J. A. Delettrez, C. Stoeckl, R. W. Short, and S. Skupsky, "Time-Dependent Electron-Thermal-Flux Inhibition in Direct-Drive Laser Implosion," to be published in *Physical Review Letters*.

F.-Y. Tsai, E. L. Alfonso, S. H. Chen, D. R. Harding, and T. N. Blanton, "Effects of Processing Conditions on the Quality and Properties of Vapor-Deposited Polyimide Shells," to be published in *Fusion Science and Technology*.

L. J. Waxer, J. H. Kelly, J. Rothenberg, A. Babushkin, C. Bibeau, A. Bayramian, and S. Payne, "Precision Spectral Sculpting of Broadband FM Pulses Amplified in a Narrowband Medium," to be published in *Optics Letters*.

C. Williams, G. Sabouret, and R. Sobolewski, "Experiments and Simulations of Electrical Pulse Modulation of Y-Ba-Cu-O Thin Films," to be published in the *Journal of the Institute of Electronics, Information, and Communication Engineers*.

B. Yaakobi, F. J. Marshall, T. R. Boehly, R. P. J. Town, and D. D. Meyerhofer, "EXAFS Experiments Using a Laser-Imploded Target as a Radiation Source," to be published in the Journal of the Optical Society of America B.

X. Zheng, Y. Xu, R. Sobolewski, R. Adam, M. Mikulics, M. Siegel, and P. Kordos, "Femtosecond Response of a Free-standing LT-GaAs Photoconductive Switch," to be published in Applied Optics.

J. D. Zuegel and D. W. Jacobs-Perkins, "An Efficient, High-Frequency Bulk Phase Modulator," to be published in Applied Optics.

J. D. Zuegel and S. A. Letzring, "Bulk Microwave Phase Modulators for Smoothing by Spectral Dispersion," to be published in Applied Optics.

Conference Presentations

S. Papernov and A. W. Schmid, "Establishing Links Between Single Gold Nanoparticles Buried Inside SiO₂ Thin Film and 351-nm Pulsed Laser Damage Morphology," XXXIII Annual Symposium on Optical Materials for High Power Lasers, Boulder, CO, 1–3 October 2001.

K. L. Marshall, I. A. Lippa, S. Kinsella, M. S. Moore, S. M. Corsello, and A. Ayub, "Chiral Transition Metal Dithiolene Dye Complexes and Their Potential Applications in Liquid Crystal Devices," OSA Annual Meeting and Exhibit 2001, Long Beach, CA, 14–18 October 2001.

B. Yaakobi, F. J. Marshall, T. R. Boehly, R. P. J. Town, D. D. Meyerhofer, and W. Seka, "EXAFS Detection of Laser Shock Heating," Applications of High Field and Short Wavelength Sources IX, Palm Springs, CA, 21–24 October 2001.

The following presentations were made at the 43rd Annual Meeting of the APS Division of Plasma Physics, Long Beach, CA, 29 October–2 November 2001:

K. Anderson, R. Betti, and T. A. Gardiner, "Two-Dimensional Computational Model of Energy Gain in NIF Capsules."

R. Betti, V. N. Goncharov, J. P. Knauer, P. W. McKenty, D. D. Meyerhofer, R. L. McCrory, S. Skupsky, and R. P. J. Town, "Deceleration Phase of Inertial Confinement Fusion Implosions" (invited).

T. R. Boehly, T. J. B. Collins, D. D. Meyerhofer, W. J. Armstrong, D. K. Bradley, R. Cauble, P. M. Celliers, G. W. Collins, and S. G. Glendinning, "Measurements of the Equation of State of Carbon Foams."

T. J. B. Collins, S. Skupsky, R. Betti, V. N. Goncharov, D. R. Harding, R. L. McCrory, P. W. McKenty, R. P. J. Town, and D. D. Meyerhofer, "Wetted-Foam Target Designs for the NIF."

J. A. Delettrez, V. A. Smalyuk, F. J. Marshall, P. B. Radha, and B. Yaakobi, "Simulations of the Effect of Nonuniformity on Shell Conditions in Implosions on the OMEGA Laser."

R. Epstein, J. A. Delettrez, V. N. Goncharov, P. W. McKenty, P. B. Radha, C. Stoeckl, and S. Skupsky, "One-Dimensional Simulation of the Effects of Unstable Mix on Laser-Driven Implosion Experiments."

J. A. Frenje, C. K. Li, F. H. Séguin, S. Kurebayashi, R. D. Petrasso, P. B. Radha, J. M. Soures, D. D. Meyerhofer, V. Yu. Glebov, S. Roberts, C. Stoeckl, and T. C. Sangster, "Studies of Fuel rR on OMEGA from DTH-Gas-Filled Capsules."

T. A. Gardiner, R. Betti, and L. Guazzotto, "Two-Dimensional MHD Simulation of Tokamak Plasmas with Poloidal Flow."

V. Yu. Glebov, D. D. Meyerhofer, P. B. Radha, W. Seka, S. Skupsky, C. Sorce, J. M. Soures, C. Stoeckl, S. Padalino, L. Baumgart, R. Colburn, J. Fuschino, and T. C. Sangster, "Tertiary Neutron Measurements by Carbon Activation."

V. N. Goncharov, R. Betti, J. A. Marozas, P. W. McKenty, S. Skupsky, and R. P. J. Town, "Optimization of Direct-Drive Target Designs for the NIF."

- O. V. Gotchev, V. N. Goncharov, P. A. Jaanimagi, J. P. Knauer, and D. D. Meyerhofer, "Streaked X-Ray Imager for Observation of Oscillations of Perturbed Ablation Fronts in Planar ICF Targets During Shock Transit."
- D. R. Harding, M. D. Wittman, L. Elasky, L. S. Iwan, and L. D. Lund, "Forming Uniform Deuterium Ice Layers in Cryogenic Targets: Experiences Using the OMEGA Target Handling System."
- C. K. Li, F. H. Séguin, J. A. Frenje, S. Kurebayashi, R. D. Petrasso, D. D. Meyerhofer, J. M. Soures, V. Yu. Glebov, P. B. Radha, S. P. Regan, S. Roberts, S. Skupsky, C. Stoeckl, and T. C. Sangster, "Direct-Drive, Spherical Implosions of OMEGA Capsules with 3 to 15 atm of Gas Fill."
- J. A. Marozas, "A Reduced-Autocorrelation Phase-Plate Design for OMEGA and NIF."
- F. J. Marshall, J. A. Delettrez, R. L. Keck, J. H. Kelly, P. B. Radha, and L. J. Waxer, "Direct-Drive Implosion Experiments with Enhanced Beam Balance on the OMEGA Laser."
- D. D. Meyerhofer, B. Yaakobi, F. J. Marshall, T. R. Boehly, and R. P. J. Town, "EXAFS Detection of Laser Shock Heating."
- R. D. Petrasso, C. K. Li, F. H. Séguin, J. A. Frenje, S. Kurebayashi, P. B. Radha, D. D. Meyerhofer, J. M. Soures, J. A. Delettrez, C. Stoeckl, S. Roberts, V. Yu. Glebov, W. Seka, C. Chiritiescu, and T. C. Sangster, "Experimental Inferences of rR Evolution and the Spatial Extent of Mix from the D^3He , 14.7-MeV Proton Line Structure."
- P. B. Radha, J. A. Delettrez, R. Epstein, V. Yu. Glebov, V. N. Goncharov, R. L. Keck, R. L. McCrory, P. W. McKenty, F. J. Marshall, D. D. Meyerhofer, S. P. Regan, S. Roberts, W. Seka, S. Skupsky, V. A. Smalyuk, C. Sorce, C. Stoeckl, J. M. Soures, R. P. J. Town, B. Yaakobi, J. A. Frenje, C. K. Li, R. D. Petrasso, F. H. Séguin, K. Fletcher, S. Padalino, C. Freeman, N. Izumi, R. A. Lerche, T. W. Phillips, and T. C. Sangster, "Inferences of Mix in Direct-Drive Spherical Implosion on OMEGA" (invited).
- S. P. Regan, J. A. Delettrez, F. J. Marshall, J. M. Soures, V. A. Smalyuk, B. Yaakobi, V. Yu. Glebov, P. A. Jaanimagi, D. D. Meyerhofer, P. B. Radha, W. Seka, S. Skupsky, C. Stoeckl, R. P. J. Town, D. A. Haynes, C. F. Hooper, C. K. Li, R. D. Petrasso, and F. H. Séguin, "Spectroscopic Measurements of Fuel-Pusher Mix in Direct-Drive Implosions on OMEGA."
- F. H. Séguin, R. D. Petrasso, C. K. Li, J. A. Frenje, S. Kurebayashi, J. A. Delettrez, J. M. Soures, D. D. Meyerhofer, F. J. Marshall, V. A. Smalyuk, S. Roberts, and T. C. Sangster, "Charged-Particle Measurements of Shell Asymmetries in Imploded Capsules on OMEGA."
- W. Seka, S. P. Regan, D. D. Meyerhofer, B. Yaakobi, C. Stoeckl, R. S. Craxton, R. W. Short, H. Baldis, J. Fuchs, and C. Labaune, "Stimulated Brillouin Sidescatter and Backscatter in NIF-Scale Direct-Drive Plasmas."
- R. W. Short, R. S. Craxton, W. Seka, and D. D. Meyerhofer, "Interpretation of Single- and Multiple-Beam SBS Observations in OMEGA Long-Scale-Length Plasma Experiments."
- V. A. Smalyuk, J. A. Delettrez, V. N. Goncharov, F. J. Marshall, D. D. Meyerhofer, S. P. Regan, and B. Yaakobi, "Measurements of the Growth of Shell Nonuniformities in the Deceleration Phase of Spherical Implosions."
- J. M. Soures, D. D. Meyerhofer, J. A. Delettrez, V. Yu. Glebov, J. A. Marozas, F. J. Marshall, P. B. Radha, S. P. Regan, S. Roberts, S. Seka, S. Skupsky, V. A. Smalyuk, C. Stoeckl, R. D. Petrasso, C. K. Li, F. H. Séguin, J. A. Frenje, and T. C. Sangster, "Comparison of the Effect of Different SSD Beam-Smoothing Configurations on Direct-Drive Capsule Implosions."
- C. Stoeckl, C. Chiritiescu, J. A. Delettrez, R. Epstein, V. Yu. Glebov, D. R. Harding, R. L. Keck, S. J. Loucks, L. D. Lund, R. L. McCrory, P. W. McKenty, F. J. Marshall, D. D. Meyerhofer, S. F. B. Morse, S. P. Regan, P. B. Radha, S. Roberts, W. Seka, S. Skupsky, V. A. Smalyuk, C. Sorce, J. M. Soures, R. P. J. Town, J. A. Frenje, C. K. Li, R. D. Petrasso, F. H. Séguin, K. Fletcher, S. Padalino, C. Freeman, N. Izumi, R. A. Lerche, T. W. Phillips, and T. C. Sangster, "First Results from Cryogenic-Target Implosions on OMEGA" (invited).
- S. L. Sublett, J. P. Knauer, D. D. Meyerhofer, S. Skupsky, A. Frank, and A. Y. Poludnenko, "Properties of SiO_2 Aerogels Suitable for Astrophysical Experiments."
- A. Sunahara, J. A. Delettrez, R. W. Short, and S. Skupsky, "Fokker-Planck Calculation of the ICF Implosion."
- R. P. J. Town, J. A. Delettrez, R. Epstein, V. N. Goncharov, R. L. McCrory, P. W. McKenty, P. B. Radha, and S. Skupsky, "OMEGA Direct-Drive Cryogenic-Target Physics."

The following presentations were made at the 6th International Conference on Tritium Science and Technology, Tsukuba, Japan, 6–11 November 2001:

H. Brunnader, W. T. Shmayda, D. R. Harding, L. D. Lund, and R. Janezic, “Advanced Tritium Recovery System.”

C. R. Shmayda, W. T. Shmayda, and N. P. Kherani, “Monitoring Tritium Activity on Surfaces: Recent Developments.”

W. T. Shmayda, A. Bruggeman, J. Braet, and S. Vanderbiesen, “Treatment of Tritiated Solvents.”

W. T. Shmayda and R. D. Gallagher, “Recovery of Tritium from Pharmaceutical Mixed Waste Liquids.”

W. T. Shmayda, S. Zukotynski, D. Yeghikyan, and F. Gaspari, “Properties of Amorphous Carbon Films.”

R. Epstein, J. A. Delettrez, V. Yu. Glebov, V. N. Goncharov, P. W. McKenty, P. B. Radha, S. Skupsky, V. A. Smalyuk, and C. Stoeckl, “One-Dimensional Simulation of the Effects of Unstable Mix on Neutron and Charged-Particle Yield from Laser-Driven Implosion Experiments,” 8th International Workshop on the Physics of Compressible Turbulent Mixing, Pasadena, CA, 9–14 December 2001.

A. Sunahara, J. A. Delettrez, R. W. Short, S. Skupsky, and H. Takabe, “Nonlocal Electron Thermal Conduction in Laser Implosions,” 15th Computational Fluid Dynamics Symposium, Tokyo, Japan, 19–21 December 2001.