Publications and Conference Presentations

Publications

S. G. Demos, C. W. Carr, and D. A. Cross, "Mechanisms of Surface Contamination in Fused Silica by Means of Laser-Induced Electrostatic Effects," Opt. Lett. **42**, 2643 (2017).

S. X. Hu, "Continuum Lowering and Fermi-Surface Rising in Strongly Coupled and Degenerate Plasmas," Phys. Rev. Lett. **119**, 065001 (2017).

F. J. Marshall, R. E. Bahr, V. N. Goncharov, V. Yu. Glebov, B. Peng, S. P. Regan, T. C. Sangster, and C. Stoeckl, "A Framed, 16-Image Kirkpatrick–Baez X-Ray Microscope," Rev. Sci. Instrum. **88**, 093702 (2017).

J. M. Ngoko Djiokap, A. V. Meremianin, N. L. Manakov, S. X. Hu, L. B. Madsen, and A. F. Starace, "Kinematical Vortices in Double Photoionization of Helium by Attosecond Pulses," Phys. Rev. A **96**, 013405 (2017).

T. Petersen, J. D. Zuegel, and J. Bromage, "Thermal Effects in an Ultrafast BiB_3O_6 Optical Parametric Oscillator at High Average Powers," Appl. Opt. **56**, 6923 (2017).

D. B. Schaeffer, W. Fox, D. Haberberger, G. Fiksel, A. Bhattacharjee, D. H. Barnak, S. X. Hu, and K. Germaschewski, "Generation and Evolution of High-Mach-Number Laser-Driven Magnetized Collisionless Shocks in the Laboratory," Phys. Rev. Lett. **119**, 025001 (2017).

J. Serafini, A. Hossain, R. B. James, M. Guziewicz, R. Kruszka, W. Słysz, D. Kochanowska, J. Z. Domagala, A. Mycielski, and R. Sobolewski, "Photoconductive and Electro-Optic Effects in (Cd,Mg)Te Single Crystals Measured in an Experiment-on-Chip Configuration," Appl. Phys. Lett. **111**, 011108 (2017).

Forthcoming Publications

Y. Akbas, G. R. Savich, A. Jukna, T. Plecenik, P. Ďurina, A. Plecenik, G. W. Wicks, and R. Sobolewski, "Low-Temperature Performance of Semiconducting Asymmetric Nano-Channel Diodes," to be published in the Journal of Physics: Conference Series.

P. Angland, D. Haberberger, S. T. Ivancic, and D. H. Froula, "Angular Filter Refractometry Analysis Using Simulated Annealing," to be published in the Review of Scientific Instruments.

A. Bose, R. Betti, D. Shvarts, and K. M. Woo, "The Physics of Long- and Intermediate-Wavelength Asymmetries of the Hot Spot: Compression Hydrodynamics and Energetics," to be published in Physics of Plasmas.

L. Calderín, V. V. Karasiev, and S. B. Trickey, "Kubo–Greenwood Electrical Conductivity Formulation and Implementation for Projector Augmented Wave Datasets," to be published in Computer Physics Communications.

G. Chen, R. Shrestha, A. Amori, Z. Staniszewski, A. Jukna, A. Koroliov, C. Richter, M. El Fray, T. Krauss, and R. Sobolewski, "Terahertz Time-Domain Spectroscopy Characterization of Carbon Nanostructures Embedded in Polymer," to be published in the Journal of Physics: Conference Series.

B. P. Chock, D. R. Harding, and T. B. Jones, "Using Digital Microfluidics to Dispense, Combine, and Transport Low-Surface-Energy Fluids," to be published in Fusion Science and Technology.

C. Dorrer, A. Consentino, R. Cuffney, I. A. Begishev, E. M. Hill, and J. Bromage, "Spectrally Tunable, Temporally Shaped Parametric Front End to Seed High-Energy Nd:Glass Laser Systems," to be published in Optics Express.

R. K. Follett, D. H. Edgell, D. H. Froula, V. N. Goncharov, I. V. Igumenshchev, J. G. Shaw, and J. F. Myatt, "Full-Wave and Ray-Based Modeling of Cross-Beam Energy Transfer Between

Laser Beams with Distributed Phase Plates and Polarization Smoothing," to be published in Physics of Plasmas.

R. K. Follett, J. F. Myatt, R. J. Henchen, J. G. Shaw, D. T. Michel, A. A. Solodov, D. H. Edgell, J. Katz, C. Stoeckl, B. Yaakobi, and D. H. Froula, "Simulations and Measurements of Hot-Electron Generation Driven by the Multibeam Two-Plasmon–Decay Instability," to be published in Physics of Plasmas.

T. A. Germer, K. A. Sharma, T. G. Brown, and J. B. Oliver, "Polarized Optical Scattering by Inhomogeneities and Surface Roughness in an Anisotropic Thin Film," to be published in the Journal of the Optical Society of America A.

S. X. Hu, L. A. Collins, J. P. Colgan, V. N. Goncharov, and D. P. Kilcrease, "Optical Properties of Highly Compressed Polystyrene: An *Ab Initio* Study," to be published in Physical Review B.

A. Jukna, J. Gradauskas, A. Sužiedelis, A. Maneikis, K. Šliužienė, and R. Sobolewski, "Investigation of the I–V Characteristics as Asymmetry in Semiconducting Y–Ba–Cu–O Diodes," to be published in Micro and Nano Letters.

R. K. Kirkwood, D. P. Turnbull, T. Chapman, S. C. Wilks, M. D. Rosen, R. A. London, L. A. Pickworth, W. H. Dunlop, J. D. Moody, D. J. Strozzi, P. A. Michel, L. Divol, O. L. Landen, B. J. MacGowan, B. M. Van Wonterghem, K. B. Fournier, and B. E. Blue, "Plasma-Based Combiner for Very High Fluence and Energy," to be published in Nature Physics.

S. A. Muller, D. N. Kaczala, H. M. Abu-Shawareb, E. L. Alfonso, L. C. Carlson, M. Mauldin, P. Fitzsimmons, D. Lamb, P. Tzeferacos, L. Chen, G. Gregori, A. Rigby, A. Bott, T. G. White, D. Froula, and J. Katz, "Evolution of the Design and Fabrication of Astrophysics Targets for Turbulent Dynamo (TDYNO) Experiments on OMEGA," to be published in Fusion Science and Technology.

B. W. Plansinis, W. R. Donaldson, and G. P. Agrawal, "Single-Pulse Interference Caused by Temporal Reflection at Moving Refractive-Index Boundaries," to be published in the Journal of the Optical Society of America B.

D. N. Polsin, D. E. Fratanduono, J. R. Rygg, A. Lazicki, R. F. Smith, J. H. Eggert, M. C. Gregor, B. H. Henderson, J. A. Delettrez, R. G. Kraus, P. M. Celliers, F. Coppari, D. C. Swift, C. A. McCoy, C. T. Seagle, J.-P. Davis, S. J. Burns, G. W. Collins, and T. R. Boehly, "Measurement of Body-Centered-Cubic Aluminum at 475 GPa," to be published in Physical Review Letters.

S. P. Regan, V. N. Goncharov, T. C. Sangster, E. M. Campbell, R. Betti, T. Bernat, A. Bose, T. R. Boehly, M. J. Bonino, D. Cao, R. Chapman, T. J. B. Collins, R. S. Craxton, A. K. Davis, J. A. Delettrez, D. H. Edgell, R. Epstein, M. Farrell, C. J. Forrest, J. A. Frenje, D. H. Froula, M. Gatu Johnson, C. Gibson, V. Yu. Glebov, A. Greenwood, D. R. Harding, M. Hohenberger, S. X. Hu, H. Huang, J. Hund, I. V. Igumenshchev, D. W. Jacobs-Perkins, R. T. Janezic, M. Karasik, R. L. Keck, J. H. Kelly, T. J. Kessler, J. P. Knauer, T. Z. Kosc, S. J. Loucks, J. A. Marozas, F. J. Marshall, R. L. McCrory, P. W. McKenty, D. D. Meyerhofer, D. T. Michel, J. F. Myatt, S. P. Obenschain, R. D. Petrasso, N. Petta, P. B. Radha, M. J. Mosenberg, A. J. Schmitt, M. J. Schmitt, M. Schoff, W. Seka, W. T. Shmayda, M. J. Shoup III, A. Shvydky, A. A. Solodov, C. Stoeckl, W. Sweet, C. Taylor, R. Taylor, W. Theobald, J. Ulreich, M. D. Wittman, K. M. Woo, and J. D. Zuegel, "The National Direct-Drive Program: OMEGA to the National Ignition Facility," to be published in Fusion Science and Technology.

D. B. Schaeffer, W. Fox, D. Haberberger, G. Fiksel, A. Bhattacharjee, D. H. Barnak, S. X. Hu, K. Germaschewski, and R. K. Follett, "High-Mach Number, Laser-Driven Magnetized Collisionless Shocks," to be published in Physics of Plasmas.

J. Serafini, S. B. Trivedi, D. Kochanowska, M. Witkowska-Baran, A. Mycielski, M. Guziewicz, R. Kruszka, W. Słysz, and R. Sobolewski, "Characterization of (Cd,Mg)Te and (Cd,Mn)Te Single Crystals in the THz Frequency Range Using Integrated Photoconductive and Electro-Optics Effects," to be published in the Journal of Physics: Conference Series.

W. L. Shang, R. Betti, S. X. Hu, K. Woo, L. Hao, C. Ren, A. R. Christopherson, A. Bose, and W. Theobald, "Electron Shock Ignition of Inertial Fusion Targets," to be published in Physical Review Letters.

W. Theobald, A. Bose, R. Yan, R. Betti, M. Lafon, D. Mangino, A. R. Christopherson, C. Stoeckl, W. Seka, W. Shang, D. T. Michel, C. Ren, R. C. Nora, A. Casner, J. Peebles, F. N. Beg, X. Ribeyre, E. Llor Aisa, A. Colaïtis, V. Tikhonchuk, and M. S. Wei, "Enhanced Hot-Electron Production and Strong-Shock Generation in Hydrogen-Rich Ablators for Shock Ignition," to be published in Physics of Plasmas.

D. Turnbull, S. Bucht, A. S. Davies, D. Haberberger, T. J. Kessler, J. L. Shaw, and D. H. Froula, "Raman Amplification with a Flying Focus," to be published in Physical Review Letters.

M. D. Wittman, M. J. Bonino, C. Fella, D. R. Harding, and J. Sanchez, "Effect of Tritium-Induced Damage on Plastic Targets from High-Density DT Permeation," to be published in Fusion Science and Technology.

M. Zaghoo and I. F. Silvera, "Conductivity and Dissociation in Liquid Metallic Hydrogen and Implication for Planetary Interiors," to be published in the Proceedings of the National Academy of Science.

A. B. Zylstra, J. A. Frenje, M. Gatu Johnson, G. M. Hale, C. R. Brune A. Bacher, D. T. Casey, C. K. Li, D. McNabb, M. Paris, R. D. Petrasso, T. C. Sangster, D. B. Sayre, and F. H. Séguin, "Proton Spectra from ^{3}He + T and ^{3}He + ^{3}He Fusion at Low Center-of-Mass Energy, with Potential Implications for Solar Fusion Cross Sections," to be published in Physical Review Letters.

Conference Presentations

E. M. Schiesser, S.- W. Bahk, and J. P. Rolland, "Three Unobscured Reflective Relays for High-Power, Broadband Laser Beam Transport," presented at the International Optical Design Conference, Denver, CO, 9–13 July 2017.

The following presentations were made at the 20th Conference on Shock Compression of Condensed Matter, St. Louis, MO, 9–14 July 2017:

B. Henderson, D. N. Polsin, T. R. Boehly, M. C. Gregor, S. X. Hu, G. W. Collins, J. R. Rygg, D. E. Fratanduono, and P. M. Celliers, "Hugoniot Measurements of Silicon Shock Compressed to 25 Mbar."

D. N. Polsin, T. R. Boehly, J. A. Delettrez, G. W. Collins, J. R. Rygg, M. C. Gregor, B. Henderson, C. A. McCoy, D. E. Fratanduono, R. F. Smith, R. G. Kraus, J. H. Eggert, F. Coppari, A. Jenei, D. C. Swift, and P. M. Celliers, "The First Observation of the bcc Phase in Aluminum Compressed to 559 GPa."

D. N. Polsin, T. R. Boehly, J. A. Delettrez, G. W. Collins, J. R. Rygg, M. C. Gregor, C. A. McCoy, B. J. Henderson, D. E. Fratandouno, R. Smith, R. Kraus, J. H. Eggert, F. Coppari, A. Jenei, D. C. Swift, and P. M. Celliers, "X-Ray Diffraction Experiments on Ramp-Compressed Aluminum at the National Ignition Facility and on OMEGA."

The following presentations were made at the 20th International Conference on Electron Dynamics in Semiconductors, Optoelectronics, and Nanostructures, Buffalo, NY, 17–21 July 2017:

Y. Akbas, G. R. Savich, A. Jukna, T. Plecenik, P. Ďurina, A. Plecenik, G. W. Wicks, and R. Sobolewski, "Low-Temperature Performance of Semiconducting Asymmetric Nano-Channel Diodes."

G. Chen, R. Shrestha, A. Amori, Z. Staniszewski, A. Jukna, A. Koroliov, C. Richter, M. El Fray, T. Krauss, and R. Sobolewski, "Terahertz Time-Domain Spectroscopy Characterization of Carbon Nanostructures Embedded in Polymer."

J. Serafini, S. B. Trivedi, D. Kochanowska, M. Witkowska-Baran, A. Mycielski, M. Guziewicz, R. Kruszka, W. Słysz, and R. Sobolewski, "Characterization of (Cd,Mg)Te and (Cd,Mn)Te Single Crystals in the THz Frequency Range Using Integrated Photoconductive and Electro-Optics Effects."

N. D. Viza, M. H. Romanofsky, and D. R. Harding, "Droplet-Based Microfluidic Approach for Producing Inertial Confinement Fusion Polymer Shells," presented at the 2nd Microfluidics Congress, Philadelphia, PA, 25–26 July 2016.

The following presentations were made at High Energy Density Science Summer School, La Jolla, CA, 30 July–11 August 2017:

D. A. Chin, P. M. Nilson, G. W. Collins, and J. R. Rygg, "Interpreting EXAFS Spectra: Toward Ramp-Compression Studies of Iron Oxide."

G. W. Collins, "Physics of Matter at Extreme Pressure."

Y. H. Ding, "A First-Principles Equation-of-State Table of Beryllium for High-Energy-Density Plasma Simulations."

V. Gopalaswamy, H. Zhang, R. Betti, R. Yan, and H. Aluie, "Finite-Amplitude Modes in the Ablative Rayleigh–Taylor Instability."

A. Hansen, "OMEGA Supersonic Gas-Jet Target System Characterization."

A. Kar, P. B. Radha, T. R. Boehly, D. H. Edgell, S. X. Hu, A. Shvydky, V. N. Goncharov, and S. P. Regan, "X-Ray Radiography of Laser-Driven Shocks for Inertial Confinement Fusion."

O. Mannion, and G. Grim, "Simulating Neutron Time of Flight Data."

A. L. Milder, and D. H. Froula, "Measuring Non-Maxwellian Distribution Functions Using Expanded Thomson Scattering."

S. Miller, J. Knauer, P. B. Radha, and V. N. Goncharov, "Studying Deceleration-Phase Rayleigh–Taylor Growth by Varying D:T Ratios in Gas-Filled Plastic Implosions."

M. Stoeckl and A. A. Solodov, "Dependence of Readout Fade Rate on X-Ray Energy for $BaFBr_{0.85}I_{0.15}$:Eu Image Plates."

M. Zaghoo, R. J. Husband, and I. F. Silvera, "Striking Isotope Effect in Hydrogen Dissociation Under Pressure."

The following presentations were made at Liquid Crystals XXI, San Diego, CA, 6–10 August 2017:

K. L. Marshall, D. Saulnier, T. Z. Kosc, O. Didovets, and S. H. Chen, "Optically Robust Photoalignment Materials for Liquid Crystal Device Applications in the Near-UV Region."

K. L. Marshall, U. Kurumbail, A. Hosein, and M. Hanchett, "Computational Chemistry Modeling and Design of Photoswitchable Alignment Materials for Optically Addressable Liquid Crystal Devices. II. Transition-State Modeling in Azobenzene and Spiropyran Oligomers."

J. Kendrick, R. Boni, and C. Sorce, "An Optically Passive Method that Rate Doubles 2-GHz Timing Fiducials," presented at SPIE Optical Engineering and Applications, San Diego, CA, 6–10 August 2017.

S. Bucht, D. Haberberger, J. Bromage, and D. H. Froula, "Transforming the Idler to Seed Raman Amplification," presented at the OSA Foundation Siegman International School on Lasers, Leon, Mexico, 6–11 August 2017.

J. L. Shaw, N. Lemos, L. D. Amorim, N. Vafaei-Najafabadi, K. A. Marsh, F. S. Tsung, W. B. Mori, C. Joshi, and D. H. Froula, "Direct Laser Acceleration of Electrons in a Laser Wakefield Accelerator with Ionization Injection," presented at the Laser Plasma Accelerator Workshop, Jeju Island, South Korea, 27 August–1 September, 2017.

The following presentations were made at the 2nd Asia-Pacific Symposium on Tritium Science, Livermore Valley, CA, 5–8 September 2017:

W. T. Shmayda, M. Sharpe, C. Fagan, and W. U. Schröder, "Adsorbed Water Influence on Tritium Migration into and out of 316 Stainless Steel."

W. T. Shmayda, M Sharpe, C. Fagan, and M. D. Wittman, "Tritium Operations at the University of Rochester's Laboratory for Laser Energetics."

The following presentations were made at the 10th International Conference on Inertial Fusion Sciences and Applications, Saint Malo, France, 11–15 September 2017:

R. Betti, J. P. Knauer, V. Gopalaswamy, D. Patel, K.-M. Woo, W. Shang, A. Bose, K. S. Anderson, T. J. B. Collins, V. Yu. Glebov, A. V. Maximov, C. Stoeckl, F. J. Marshall, E. M. Campbell, and S. P. Regan, "The One-Dimensional Cryogenic Implosion Campaign on the OMEGA Laser System."

D. H. Froula, D Turnbull, J. Bromage, E. M. Campbell, T. Chapman, A. Consentino, L. Divol, C. Dorrer, D. H. Edgell, R. K. Follett, A. Hansen, E. M. Hill, J. Katz, T. J. Kessler, B. E. Kruschwitz, J. Kwiatkowski, P. Michel, J. F. Myatt, J. C. Puth, T. C. Sangster, A. B. Sefkow, J. G. Shaw, M. J. Shoup III, and D. J. Strozzi, "Cross-Beam Energy Transfer Platform on OMEGA."

V. N. Goncharov, S. P. Regan, E. M. Campbell, T. C. Sangster, R. Betti, T. R. Boehly, M. J. Bonino, D. Cao, A. K. Davis, D. H. Edgell, R. Epstein, C. J. Forrest, D. H. Froula, V. Yu. Glebov, D. R. Harding, S. X. Hu, I. V. Igumenshchev, R. T. Janezic, J. H. Kelly, F. J. Marshall, R. L. McCrory, D. T. Michel, J. F. Myatt, P. B. Radha, W. Seka, A. Shvydky, C. Stoeckl, and M. Gatu Johnson, "Understanding the Performance Limitations of Direct-Drive Implosions on OMEGA."

S. X. Hu, L. A. Collins, T. R. Boehly, G. W. Collins, P. B. Radha, E. M. Campbell, J. D. Kress, and V. N. Goncharov, "A Review of High-Energy-Density-Physics Studies for Inertial Confinement Fusion Applications."

P. B. Radha, J. A. Marozas, M. J. Rosenberg, D. Turnbull, T. R. Boehly, E. M. Campbell, T. J. B. Collins, D. H. Edgell, V. N. Goncharov, R. L. McCrory, D. T. Michel, S. P. Regan, T. C. Sangster, W. Seka, A. A. Solodov, A. Shvydky, B. J. MacGowan, J. DiNicola, M. Hohenberger, J. M Moody, and M. Karasik, "Direct-Drive Experiments at the National Ignition Facility."

S. P. Regan, V. N. Goncharov, T. C. Sangster, E. M. Campbell, K. S. Anderson, R. Betti, T. R. Boehly, R. Boni, M. J. Bonino, D. Canning, D. Cao, T. J. B. Collins, R. S. Craxton, A. K. Davis, J. A. Delettrez, W. R. Donaldson, D. H. Edgell, R. Epstein, C. J. Forrest, D. H. Froula, V. Yu. Glebov, D. R. Harding, S. X. Hu, H. Huang, I. V. Igumenshchev, R. T. Janezic, D. W. Jacobs-Perkins, J. Katz, R. L. Keck, J. H. Kelly, T. J. Kessler, B. E. Kruschwitz, J. P. Knauer, T. Z. Kosc, S. J. Loucks, J. A. Marozas, F. J. Marshall, A. V. Maximov, R. L. McCrory, P. W. McKenty, D. T. Michel, S. F. B. Morse, J. F. Myatt, P. M. Nilson, J. C. Puth, P. B. Radha, M. J. Rosenberg, W. Seka, R. Shah, W. T. Shmayda, R. W. Short, A. Shvydky, M. J. Shoup III, S. Skupsky, A. A. Solodov, C. Sorce, S. Stagnitto, C. Stoeckl, W. Theobald, D. Turnbull, J. Ulreich, M. D. Wittman, V. Gopalaswamy, J. D. Zuegel, J. A. Frenje, M. Gatu Johnson, R. D. Petrasso, H. Sio, B. Lahmann, P. Bell, S. Bhandarkar, D. K. Bradley, D. A. Callahan, A. Carpenter, D. T. Casey, J. Celeste, M. Dayton, S. N. Dixit, C. S. Goyon, M. Hohenberger, O. A. Hurricane, S. Le Pape, L. Masse, P. Michel, J. D. Moody, S. R. Nagel, A. Nikroo, R. Nora, L. Pickworth, J. E. Ralph, H. G. Rinderknecht, R. P. J. Town, R. J. Wallace, P. Wegner, M. Farrell, P. Fitzsimmons, C. Gibson, A. Greenwood, L. Carlson, T. Hilsabeck, H. Huang, J. D. Kilkenny, R. W. Luo, N. Rice, M. Schoff, W. Sweet, A. Tambazidis, T. Bernat, N. Petta, J. Hund, S. P. Obenschain, J. W. Bates, M. Karasik, A. J. Schmitt, J. Weaver, M. J. Schmitt, S. Hsu, G. Rochau, L. Claus, Q. Looker, J. Porter, G. Robertson, M. Sanchez, J. Hares, and T. Dymoke-Bradshaw, "The National Direct-Drive Inertial Confinement Fusion Program."

T. C. Sangster, J. D. Kilkenny, G. A. Rochau, and S. H. Batha, "The National Diagnostics Strategy in the US."

The following presentations were made at the 49th Annual Symposium on Optical Materials for High Power Lasers, Boulder, CO, 24–27 September 2017:

S. M. Gracewski, S. Boylan, J. C. Lambropoulos, J. B. Oliver, T. J. Kessler, and S. G. Demos, "Simulation of Internal Stress Waves Leading to Laser-Induced Damage in Multilayer Dielectric Gratings."

K. R. P. Kafka, S. Papernov, M. A. DeMarco, C. Hall, K. L. Marshall, B. Hoffman, and S. G. Demos, "Damage Performance Under 351-nm, Nanosecond Pulses of Magnetorheological Finishing-Polished Fused-Silica Samples Using Different Polishing Compounds and Postprocessing Methods."

T. Z. Kosc, K. L. Marshall, A. A. Kozlov, S. Papernov, and S. G. Demos, "Damage Resistance of Nematic Liquid Crystal Materials for Femtosecond to Nanosecond Pulse Lengths at 1053 nm."

A. A. Kozlov, S. Papernov, S. G. Demos, J. B. Oliver, A. L. Rigatti, B. Hoffman, and J. C. Lambropoulos, "Picosecond Pulse-Damage Mechanism of Hafnia-Silica High Reflectors Investigated by High-Resolution Microscopy."

S. Papernov, M. D. Brunsman, J. B. Oliver, B. Hoffman, A. A. Kozlov, S. G. Demos, A. Shvydky, F. Cavalcante, L. Yang, C. S. Menoni, B. Roshanzadeh, S. T. P. Boyd, L. A. Emmert, and W. Rudolph, "Characterization of Hafnium Oxide Thin Films with Varying Oxygen Content."

J. L. Shaw, N. Lemos, L. D. Amorim, N. Vafaei-Najafabadi, K. A. Marsh, F. S. Tsung, W. B. Mori, C. Joshi, and D. H. Froula, "Direct Laser Acceleration of Electrons in a Laser Wakefield Accelerator with Ionization Injection," presented at

the 3rd European Advanced Accelerator Concepts Workshop, Biodola, Italy, 24–30 September 2017.

The following presentations were made at the 11th International Laser Operations Workshop, Rochester, NY, 26–28 September 2017:

M. Barczys, D. Canning, A. Consentino, C. Dorrer, M. J. Guardalben, E. M. Hill, S. Householder, B. E. Kruschwitz, J. Kwiatkowski, J. O'Sullivan, and L. J. Waxer, "Activation Strategy for a Tunable UV Beamline on OMEGA and OMEGA EP."

E. M. Hill, C. Dorrer, G. Balonek, R. Cuffney, J. H. Kelly, T. Z. Kosc, and M. Spilatro, "Advances in Pulse-Shaping Technology on OMEGA and OMEGA EP."

B. E. Kruschwitz, M. Barczys, A. Consentino, C. Dorrer, M. J. Guardalben, E. M. Hill, J. Kwiatkowski, D. Nelson, J. C. Puth, D. Turnbull, and L. J. Waxer, "Development of a Tunable UV Capability for Cross-Beam Energy Transfer Mitigation Studies in the OMEGA Target Chamber."

J. Kwiatkowski, M. Barczys, D. Canning, B. Ehrich, A. Kalb, B. E. Kruschwitz, N. Mahmutovic, and S. Stagnitto, "*In-Situ* Transmission Measurements of Optical Components Using a Ratiometer Technique."

G. Pien, W. J. Armstrong, and M. Krieger, "Use of CAD Data for Real-Time Target-Position Guidance and Geometry Validation."

J. Puth, S. F. B. Morse, M. Barczys, D. Canning, J. Kelly, B. E. Kruschwitz, S. Sampat, and S. Stagnitto, "The Omega Laser Facility: Status and Performance."

S. Sampat, J. H. Kelly, T. Z. Kosc, A. L. Rigatti, J. Kwiatkowski, W. R. Donaldson, M. H. Romanofsky, L. J. Waxer, R. Dean, and R. Moshier, "100-Gbar Power-Balance Activities on OMEGA."

L. J. Waxer, C. Dorrer, E. M. Hill, A. Kalb, and W. A. Bittle, "Development and Implementation of a Single-Shot Diagnostic for Characterizing 0.5- to 250-ps Pulses on OMEGA EP."

L. J. Waxer, M. Heimbueger, J. H. Kelly, S. F. B. Morse, D. Nelson, D. Weiner, and G. Weselak, "On-Shot Focal-Spot Characterization in the OMEGA Target Chamber."

L. E. Bukowski, "Shaping of Transverse Beam Profiles Through Optical Gain Media," presented at IONS Rochester 2017, Rochester, NY, 29 September–1 October 2017.