


Hicks, presented at the Panchanathan Visit, Rochester, NY, 11 April 2022.


“User Community,” M. S. Wei, presented at the Panchanathan Visit, Rochester, NY, 11 April 2022.


“Perspectives on Inertial Fusion Energy (IFE),” E. M. Campbell, presented at the Plasma Science and Fusion Center Seminar, virtual, 7 March 2022.


“Transforming Simple Metals to Topological Insulators: Sodium to 18 Mbar,” D. N.


2021


“Review of Inertial Confinement Fusion: Physics and Engineering Challenges,” C. A.


“Magnetized Target Capabilities and Diagnostic Needs at LLE,” J. L. Peebles, presented at the National Diagnostic Workshop, virtual, 7–9 December 2021.


“VASP 6.2.1 Runtime Comparison for Extreme Thermodynamic Condition Simulations Using Graphics-Processing Units,” D. E Keller and V. V. Karasiev, presented at PMBS21, virtual, 14–19 November 2021.


“Absorption of Laser Light by Coupling to Incoherent Plasma Waves at Quarter-Critical


and Y. Ping, presented at the 63rd Annual Meeting of the American Physical Society Division of Plasma Physics, Pittsburgh, PA, 8–12 November 2021.


“Diagnosing Low-Mode ($\ell \leq 6$) and Mid-Mode ($6 < \ell \leq 40$) Asymmetries in the Explosion Phase of Laser-Direct-Drive DT Cryogenic Implosions on OMEGA,” J. Baltazar, R. C. Shah, D. Cao, V. Gopalaswamy, R. Betti, D. Patel, C. Stoeckl, W. Theobald, K. M. Woo, and S. P. Regan, presented at the 63rd Annual Meeting of the American Physical Society Division of Plasma Physics, Pittsburgh, PA,


“Electron Radiography Based on Electron Beams from Laser-Plasma Accelerators,” J. L. Shaw, G. Bruhaug, M. Freeman, F. Merrill, V. Geppert-Kleinrath, and C. Wilde, presented at the 63rd Annual Meeting of the American Physical Society Division of
Plasma Physics, Pittsburgh, PA, 8–12 November 2021.


“Extended Magnetohydrodynamics in the FLASH Code,” E. C. Hansen, M. B. P. Adams,


“Hot-Electron Preheat in Hydrodynamically Scaled Direct-Drive Implosions at the


“Improving Performance and Understanding of Direct-Drive Inertial Fusion Implosions Using Statistical Modeling of Experimental Data,” C. A. Williams, R. Betti,


“Laser-Direct-Drive Energy Coupling at $4 \times 10^{14}$ W/cm$^2$ to $1.2 \times 10^{15}$ W/cm$^2$ from Spherical Solid-Plastic Implosions at the National Ignition Facility,” W. Theobald, M. J. Rosenberg, P. B. Radha, S. P. Regan, C. Stoeckl, L. Ceurvorst, R. Betti, K. S. Anderson,


"Relativistically Transparent Magnetic Filament: A Laser-Plasma Platform for Efficient


“Three-Dimensional Hot-Spot Reconstruction from Cryogenic DT Polar-Direct-Drive


30 September–2 October 2021.


“Progress in Development of Thermal Hybrid Exchange-Correlation Density Functionals for Improving the Description of Warm Dense Matter,” D. I. Mihaylov, V. V. Karasiev, and S. X. Hu, presented at the APS March Meeting, virtual, 15–19 March 2021.


“Kinetic Simulation Study of Magnetized Collisionless Shock Formation Using OMEGA


“A Study of 2D Internal Perturbation Evolution in Inertial Confinement Fusion Implosions,” S. C. Miller, V. N. Goncharov, T. J. B. Collins, and J. Carroll-Nellenback,


“Laser-Based Microfabrication and Metrology of Laser-Driven Inertial Fusion Targets,”


“Laboratory for Laser Energetics Contributions to the Stockpile Stewardship Mission,”
G. W. Collins, presented at the HEDP Briefing to DOE, virtual, 29 April 2019.

“Laser-Direct-Drive Inertial Confinement Fusion Research on OMEGA: Current Status,”
S. P. Regan, V. N. Goncharov, T. C. Sangster, R. Betti, E. M. Campbell, K. A. Bauer,
M. J. Bonino, D. Cao, A. R. Christopherson, G. W. Collins, T. J. B. Collins, R. S.
D. R. Harding, S. X. Hu, H. Huang, I. V. Igumenshchev, Y. Lu, R. Luo, D. W. Jacobs-
Mannion, J. A. Marozas, F. J. Marshall, P. W. McKenty, Z. L. Mohamed, S. F. B. Morse,
P. M. Nilson, S. P. Obenschain, J. P. Palastro, D. Patel, J. L. Peebles, R. D. Petrasso,
A. Shvydky, A. A. Solodov, C. Sorce, C. Stoeckl, W. Sweet, W. Theobald, D. Turnbull,
J. Ulreich, L. J. Waxer, M. D. Wittman, K. M. Woo, and J. D. Zuegel, presented at High

“Spherical Shock Wave Experiments on the OMEGA Laser,” J. J. Ruby, J. R. Rygg,
D. A. Chin, C. J. Forrest, V. Yu. Glebov, C. Stoeckl, N. V. Kabadi, P. Adrian,
B. Bachmann, Y. Ping, J. A. Gaffney, and G. W. Collins, presented at High Energy

“Permeation Rate of Deuterium and Tritium Through Iron-Chromium-Aluminum
Alloys,” M. Sharpe, W. T. Shmayda, J. Wermer, and C. A. Bond, presented at

“Tritium Concentration Profiles in Stainless-Steel 316 Samples,” C. Fagan, M. Sharpe,
W. T. Shmayda, and W. U. Schröder, presented at Technology of Fusion Energy (TOFE)

“Evidence for a \(^7\)Li State at \(E_X = 10.2\) MeV from Inelastic Neutron Scattering at
Glebov, O. M. Mannion, Z. L. Mohamed, S. P. Regan, T. C. Sangster, A. Schwemmlein,
and C. Stoeckl, presented at the APS April Meeting, virtual, 18–21 April 2020.

“Using the Multi-Terawatt Laser at the Laboratory for Laser Energetics to Generate a
High-Yield, 0.5-MeV Deuteron Beam,” A. K. Schwemmlein, W. U. Schröder,
C. Stoeckl, C. J. Forrest, J. P. Knauer, and S. P. Regan, presented at the APS April
Meeting, virtual, 18–21 April 2020.

and Future Plans,” presented at the LaserNetUS SAB and PI Meeting, Washington, DC,


2019


“Status FY19 OLUG Findings and Recommendations,” M. S. Wei, presented at APS


“The Effect of Self-Generated Magnetic Fields on Ablative Rayleigh–Taylor Instability


“Impact of Self-Generated B-Fields on High-Energy-Density Experiments,” D. Barnak,


presented at the 61st Meeting of the American Physical Society Division of Plasma Physics, Fort Lauderdale, FL, 21–25 October 2019.


“Neutron Yield Enhancement and Suppression by Magnetization in Laser-Driven


“Status and Prospects for Nuclear Fusion with Lasers,” R. Betti, presented at FisMat 2019, Catania, Italy, 30 September–4 October 2019 (invited).


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“Progress Toward the Demonstration of Burning Plasma in the U.S. Inertial Confinement


“Sound Velocity in Shocked Iron and Beryllium to ~1500 GPa,” M. Huff, J. R. Rygg,


“Photon Acceleration in a Flying Focus,” A. Howard, D. Turnbull, A. S. Davies,


“Precision Coatings for Large Optics,” J. B. Oliver, presented at Optical Interference Coatings, Santa Ana Pueblo, NM, 2–7 June 2019.


“Capabilities and Future Prospects for the Multi-Terawatt (MTW) Laser Facility at LLE,”


“Extreme Matters: A Laboratory Exploration of Planets, Stars, and Quantum Matter,”


“Fusion: Making a Star on Earth and the Quest for the Ultimate Energy Source to Power the Planet,” E. M. Campbell, presented at the Cornell University Seminar, Ithaca, NY,
31 January 2019.


2018


“Status of FY18 OLUG Findings and Recommendations,” M. S. Wei, presented at the APS DPP OLUG Update, Portland, OR, 6 November 2018.


“High-Pressure Phase Diagram of Silicon,” R. Paul, S. X. Hu, and V. V. Karasiev, presented at the 60th Annual APS Division of Plasma Physics, Portland, OR, 5–9 November 2018.


“Perturbation Evolution at Early Stages of Inertial Confinement Fusion Implosions,” V. N. Goncharov, presented at the 60th Annual APS Division of Plasma Physics, Portland, OR, 5–9 November 2018.


“Liquid Crystals and a 35-Year Journey from Information Displays to Laser Fusion and Beyond,” K. L. Marshall, presented at the University of Arizona, College of Optical Sciences, Tuscon, AZ, 16 August 2018 (invited).


“LLE: A Unique University-Based Research Center Supporting National Security and Science for the United States,” T. C. Sangster, presented at Purdue University Nuclear Engineering, West Lafayette, IN, 26 July 2018.


“Three-Dimensional Simulations of Direct-Drive Implosions on OMEGA,” I. V. Igumenshchev, presented at the 14th Direct-Drive and Fast-Ignition Workshop, York, United Kingdom, 20–22 March 2018.


2017


“Picosecond Pulse-Damage Mechanism of Hafnia-Silica High Reflectors Investigated by High-Resolution Microscopy,” A. A. Kozlov, S. Papernov, S. G. Demos, J. B. Oliver,


A. Hosein, and M. Hanchett, presented at Liquid Crystals XXI, San Diego, CA, 6–10 August 2017 (invited).


“Dependence of Readout Fade Rate on X-Ray Energy for BaFBr$_{0.85}$I$_{0.15}$:Eu Image Plates,” M. Stoeckl, and A. Kozlov, presented at High Energy Density Science Summer School, La Jolla, CA, 30 July–11 August 2017.


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


“Adventures in ICF and HEDP with Magnetic Fields,” A. B. Sefkow, presented at the Sixth International Conference on High Energy Density Physics, Shirahama, Japan, 5–9 June 2017.


2016


Sinars, and S. A. Slutz, presented at the 46th Annual Anomalous Absorption Conference, Old Saybrook, CT, 1–6 May 2016.


2015


“Numerical Simulations of Hydrodynamic Instability Growth and Imprint Experiments at the National Ignition Facility,” A. Shvydky, M. Hohenberger, P. B. Radha, M. J.


2014


“Polarimetry Diagnostic on OMEGA EP Using a 10-ps, 263-nm Probe Beam,”
A. Davies, R. Boni, S. Ivancic, R. Brown, D. H. Froula, D. Haberberger, J. D. Moody,
B. Pollock, S. Ross, and D. Turnbull, presented at the 20th High-Temperature Plasma
Diagnostics, Atlanta, GA, 1–5 June 2014.

“Soft X-Ray Backlighting of Cryogenic Implosions Using a Narrowband Crystal Imaging
System,” C. Stoeckl, M. Bedzyk, G. Brent, R. Epstein, G. Fiksel, D. Guy, V. N.
C. Mileham, P. M. Nilson, T. C. Sangster, M. J. Shoup III, and W. Theobald, presented at
the 20th High-Temperature Plasma Diagnostics, Atlanta, GA, 1–5 June 2014.

Experiments on the National Ignition Facility,” M. Hohenberger, F. Albert, N. E. Palmer,
J. J. Lee, T. Döppner, L. Divol, E. L. Dewald, B. Bachmann, G. LaCaille, D. K. Bradley,
and C. Stoeckl, presented at the 20th High-Temperature Plasma Diagnostics, Atlanta,
GA, 1–5 June 2014 (invited).

“Status and Prospects for High-Energy-Density Science on High-Power Lasers in the
U.S.,” R. Betti, presented at the International Symposium on Status and Prospects of
High Energy Density Science by Giant Lasers, Tokyo, Japan, 1–4 June 2014.

“Fabrication of a Continuous-Enfolded Grating by Ion-Beam–Sputter Deposition,” J. B.
Oliver, T. J. Kessler, B. Charles, and C. Smith, presented at the SVC Techcon 2014,
Chicago, IL, 3–8 May 2014.

“Demonstrating Ignition Hydrodynamic Equivalence in Cryogenic DT Implosions on
OMEGA,” V. N. Goncharov, T. C. Sangster, R. Betti, T. R. Boehly, T. J. B. Collins, R.
Glebov, D. R. Harding, S. X. Hu, I. V. Igumenshchev, R. Janezic, J. H. Kelly, T. J.

“Direct-Drive Cryogenic Implosion Workshop: Goals and Charge,” R. L. McCrory,

“Hot-Electron Production and Preheat at the Omega Laser Facility,” J. F. Myatt, D. F.
DuBois, H. X. Vu, and D. A. Russell, presented at the Cryo Workshop, Rochester, NY,
29–30 April 2014.

“Hydrodynamic Modeling in 2-D and 3-D: Plans and Challenges,” P. W. McKenty,


2013


“Development of the Diagnostic Laser for Deep UV Probing of the Dense Z-Pinch,” B. R. Talbot, V. V. Ivanov, I. A. Begishev, A. L. Astanovitskiy, V. Nalajala, and


and N. Tabiryan, presented at Optics and Photonics, San Diego, CA, 25–29 August 2013 (invited).


“Direct-Drive Inertial Confinement Fusion: Where We Started (60 kJ), Where We Stand Today (1.5 MJ), and Where We Will be in 50 Years (100 kJ),” D. H. Froula, presented at Intense Laser and Beam Plasma Interactions Workshop, Los Angeles, CA, 19–20 July 2013 (invited).


2012


presented at the 54th Annual Meeting of the APS Division of Plasma Physics, Providence, RI, 29 October–2 November 2012.


presented at the 42nd Annual Anomalous Absorption Conference, Key West, FL, 25–29 June 2012.


2011

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presented at the 53rd Annual Meeting of the APS Division of Plasma Physics, Salt Lake City, UT, 14–18 November 2011.


53rd Annual Meeting of the APS Division of Plasma Physics, Salt Lake City, UT, 14–18 November 2011.


2010


“Angular Dependence of Two-Plasmon Decay in Multibeam Direct-Drive Irradiation Geometries,” R. W. Short, presented at the 52nd Annual Meeting of the APS Division of Plasma Physics, Chicago, IL, 8–12 November 2010.


“A CVD Diamond-Based Proton-Bang-Time Detector for OMEGA and the NIF,” H. Rinderknecht, presented at the 52nd Annual Meeting of the APS Division of Plasma Physics, Chicago, IL, 8–12 November 2010.


“Low-Adiabat, High-Compression Cryogenic Deuterium–Tritium Implosions on OMEGA,” V. N. Goncharov, presented at the 52nd Annual Meeting of the APS Division of Plasma Physics, Chicago, IL, 8–12 November 2010 (invited).


“Numerical Investigation of NIF Diagnostic Commissioning Experiments on OMEGA,”


“Observation of Fast Protons in Recent Electron Fast-Ignition Experiments on OMEGA,”


“The Refractive Index and Transparency of Lithium Fluoride Compressed to 800 GPa,”

“Saturation of Two-Plasmon-Decay and Ion-Density Fluctuations,” R. Yan, A. V. Maximov, and C. Ren, presented at the 52nd Annual Meeting of the APS Division of Plasma Physics, Chicago, IL, 8–12 November 2010.

“Scaling Hot-Electron Generation to Long-Pulse, High-Intensity Lasers–Solid Interactions” by P. M. Nilson, A. A. Solodov, J. F. Myatt, W. Theobald, P. A. Jaanimagi,


“Smoothing by Spectral Dispersion (SSD) for Multiple-Picket Pulses on OMEGA and the NIF,” J. A. Marozas, T. J. B. Collins, and J. D. Zuegel, presented at the 52nd Annual Meeting of the APS Division of Plasma Physics, Chicago, IL, 8–12 November 2010.


the 52nd Annual Meeting of the APS Division of Plasma Physics, Chicago, IL, 8–12 November 2010.


“Yield and Ion-Temperature Measurements in Exploding Pusher Experiments on OMEGA and the NIF,” M. Rosenberg, presented at the 52nd Annual Meeting of the APS Division of Plasma Physics, Chicago, IL, 8–12 November 2010.


“Preparing for Polar Drive at the National Ignition Facility,” T. J. B. Collins, J. A. Marozas, S. Skupsky, P. W. McKenty, V. N. Goncharov, P. B. Radha, R. S. Craxton,


“Characterization of Composition and Energy Spectra of Laser-Produced Ions with Thomson Parabola,” G. Fiksel, C. Freeman, J. A. Frenje, J. C. Mileham, P. M. Nilson, N.


2009


Delettrez, and C. Stoeckl, presented at the 51st Annual Meeting of the APS Division of Plasma Physics, Atlanta, GA, 2–6 November 2009.


“2-D Simulations of a 1-MJ CH-Foam Ignition Target on the NIF with 0.5 THz of 1-D Multi-FM SSD Bandwidth Using an Analytic Model,” J. A. Marozas, T. J. B. Collins, and J. D. Zuegel, presented at the 51st Annual Meeting of the APS Division of Plasma Physics, Atlanta, GA, 2–6 November 2009.


“Simple High-Sensitivity, Electro-Optic Sagnac Spectral Shearing Interferometry for Optical Pulse Characterization,” C. Dorrer and J. Bromage, presented at the Ultrafast
Optics and High Field Short Wavelength Meeting, Arcachon, France, 31 August–4 September 2009.


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“Construction and Activation of Large-Aperture, Tiled-Grating Compressors for High-Energy, Petawatt-Class Chirped-Pulse–Amplification Systems,” J. Qiao, J. H. Kelly,


2007


“Optical Control of Flip-Flops Based on Resonant-Type SOA’s,” D. N. Maywar, presented at the University of Tokyo Seminar, Tokyo, Japan, 18 September 2007.


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Marcianti, F. J. Marshall, D. N. Maywar, P. W. McKenty, P. B. Radha, S. P. Regan,
R. G. Roides, W. Seka, W. T. Shmayda, S. Skupsky, V. A. Smalyuk, C. Stoeckl,
B. Yaakobi, J. D. Zuegel, D. Shvarts, J. A. Frenje, C. K. Li, R. D. Petrasso, and F. H.

“Hohlraum Energetics and Implosion Symmetry with Elliptical Phase Plates Using a
Multi-Cone Beam Geometry on OMEGA,” S. P. Regan, T. C. Sangster, D. D.
Glebov, O. S. Jones, D. Callahan, P. A. Amendt, N. B. Meezan, L. J. Suter, M. D. Rosen,
O. L. Landen, E. L. DeWald, S. H. Glenzer, C. Sorce, S. Dixit, R. E. Turner, and

“Modeling High-Compression, Direct-Drive ICF Experiments,” V. N. Goncharov, P. B.
Radha, R. Betti, T. J. B. Collins, J. A. Delettrez, R. Epstein, S. X. Hu, I. V.
Sangster, W. Seka, S. Skupsky, V. A. Smalyuk, and D. Shvarts, presented at IFSA 2007,
Kobe, Japan, 9–14 September 2007.

“Multidimensional Numerical Investigation of NIF Polar-Direct-Drive Designs with Full
Beam Smoothing,” P. W. McKenty, T. J. B. Collins, J. A. Marozas, S. Skupsky, D. R.
Harding, J. D. Zuegel, D. Keller, A. Shvydky, D. D. Meyerhofer, and R. L. McCrory,

“Nonlocal Ion-Heat and Momentum Transport in ICF Implosions,” S. Skupsky, V. N.
Goncharov, and D. Li, presented at IFSA 2007, Kobe, Japan, 9–14 September 2007.

Kelly, L. J. Wexer, S. F. B. Morse, I. A. Begishev, J. Bromage, C. Dorrer, J. L. Edwards,
III, C. Stoeckl, K. A. Thorp, and J. D. Zuegel, presented at IFSA 2007, Kobe, Japan, 9–

“The Role of Fast-Electron Preheating in Low-Adiabat Cryogenic Implosions on
Marshall, P. B. Radha, S. P. Regan, T. C. Sangster, W. Seka, S. Skupsky, C. Stoeckl,
B. Yaakobi, J. A. Frenje, C. K. Li, R. D. Petrasso, and F. H. Séguin, IFSA 2007, Kobe,

“Shock Ignition of Thermonuclear Fuel with High Areal Densities,” R. Betti,


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2006


Meeting of the APS Division of Plasma Physics, Philadelphia, PA, 30 October–3 November 2006.


Meeting of the APS Division of Plasma Physics, Philadelphia, PA, 30 October–3 November 2006.


“Performance of the Cryogenic Test Facility Used to Simulate the Effect of Injecting an Inertial Fusion Energy Target into a Hot Target Chamber,” S. Scarantino, M. Bobeica, and D. R. Harding, presented at the 17th Target Fabrication Meeting, San Diego, CA, 1–5 October 2006.


2005


“Direct-Drive Inertial Fusion: Basic Concepts and Ignition Target Designing,” V. N. Goncharov, presented at the 60th Scottish Universities Summer School in Physics, St. Andrew, Scotland UK, 14–27 August 2005.


2004


“Handling Cryogenic DT Targets at the Laboratory for Laser Energetics,” W. T. Shmayda, D. R. Harding, L. D. Lund, R. Janezic, and T. W. Duffy, presented at the
7th International Conference on Tritium Science and Technology, Baden-Baden, Germany, 12–17 September 2004.


“Parasitic Second-Harmonic Generation in Optical Parametric Chirped-Pulse Amplification,” I. A. Begishev, V. Bagnoud, M. J. Guardalben, J. Puth, L. J. Waxer, and


2003


“Modeling of the Two-Plasmon-Decay Instability Driven by Incoherent Laser Beams,”
45th Annual Meeting of the APS Division of Plasma Physics, Albuquerque, NM,

“On the Role of Electron-Acoustic Waves in Two-Plasmon Decay and Stimulated Raman
Scattering,” R. W. Short, presented at the 45th Annual Meeting of the APS Division of

“Optimization of Low-Order Uniformity for Polar Direct Drive on the National Ignition
Facility (NIF),” J. A. Marozas, P. B. Radha, T. J. B. Collins, P. W. McKenty, and
S. Skupsky, presented at the 45th Annual Meeting of the APS Division of Plasma

“Polar Direct Drive on the National Ignition Facility,” S. Skupsky, J. A. Marozas, R. S.
Craxton, R. Betti, T. J. B. Collins, J. A. Delettrez, V. N. Goncharov, P. W. McKenty, P.
Meyerhofer, T. C. Sangster, and R. L. McCrory, presented at the 45th Annual Meeting of
the APS Division of Plasma Physics, Albuquerque, NM, 27–31 October 2003 (invited).

“Proton Temporal Diagnostic for ICF Experiments on OMEGA,” V. Yu. Glebov,
C. Stoeckl, S. Roberts, T. C. Sangster, J. A. Frenje, R. D. Petrasso, R. A. Lerche, and
R. L. Griffith, presented at the 45th Annual Meeting of the APS Division of Plasma

“Quartz Equation-of-State (EOS) Measurements at the OMEGA Laser Facility,” T. R.
Boehly, D. G. Hicks, T. J. B. Collins, G. W. Collins, P. M. Celliers, E. Vianello, D. D.
Armstrong, S. G. Noyes, D. Turner, D. Guy, S. Scarantino, T. Lewis, F. A. Rister, and
L. D. Lund, presented at the 45th Annual Meeting of the APS Division of Plasma

“Secondary Neutron Energy Spectra Measurements with the 1020 Array on OMEGA,”
V. Yu. Glebov, C. Stoeckl, T. C. Sangster, P. B. Radha, S. Roberts, S. Mott, S. Padalino,
Séguin, and R. D. Petrasso, presented at the 45th Annual Meeting of the APS Division of

“Simulation of Enhanced Neutron Production in OMEGA EP Cryogenic Implosions,” J.
A. Delettrez, P. B. Radha, C. Stoeckl, S. Skupsky, and D. D. Meyerhofer, presented at the
45th Annual Meeting of the APS Division of Plasma Physics, Albuquerque, NM,


A. Fletcher, S. Padalino, C. Freeman, N. Izumi, J. A. Koch, R. A. Lerche, M. J. Moran,
T. W. Phillips, and G. J. Schmid, presented at the Third International Conference on

“Formation of Deuterium-Ice Layers in OMEGA Targets,” D. R. Harding, E. L. Alfonso,
L. M. Elasky, L. S. Iwan, J. Sailer, W. Seka, A. Warrick, and M. D. Wittman, presented
at the Third International Conference on Inertial Fusion Sciences and Applications,

“High-Gain, Direct-Drive Foam Target Designs for the National Ignition Facility,” T. J.
B. Collins, S. Skupsky, V. N. Goncharov, R. Betti, P. W. McKenty, P. B. Radha,
R. Epstein, A. Poludnenko, A. Frank, and S. Mitran, presented at the Third International

“Optical Parametric Chirped-Pulse Amplifier as the Front End for the OMEGA EP Laser
Chain,” V. Bagnoud, I. A. Begishev, M. J. Guardalben, J. Keegan, J. Puth, L. J. Waxer,
and J. D. Zuegel, presented at the Third International Conference on Inertial Fusion

“Progress in Inertial Confinement Fusion in the United States,” R. L. McCrory, presented
at the Third International Conference on Inertial Fusion Sciences and Applications,
Monterey, CA, 7–12 September 2003 (keynote speaker).

“ρR Asymmetry in the Spherical Implosions of Inertial Confinement Fusion,” C. K. Li, F.
S. P. Regan, T. C. Sangster, and W. Seka, presented at the Third International Conference

“Polymer Cholesteric Liquid Crystal Flakes for Particle Displays: Impact of Flake
Geometry and Materials Processing on Field-Induced Motion in a Fluid Host,” T. Z.
Research Conference, Cancun, Mexico, 17–21 August 2003 (invited).

“Breaking the 100-fs Barrier with a Streak Camera,” P. A. Jaanimagi, presented at the

“Grain Decoration in Aluminum Oxynitride (ALON) from Polishing on Bound Abrasive
Laps,” L. L. Gregg, A. E. Marino, J. C. Hayes, and S. D. Jacobs, presented at the


2002


2001


2000


“Imprint Reduction with Shaped Pulses,” T. J. B. Collins and S. Skupsky, presented at the 42nd Annual Meeting of the APS Division of Plasma Physics, Quebec City, Canada, 23–27 October 2000.


“SBS from Fast and Slow Waves in Two-Ion Plasmas,” C. J. McKinstrie and M. V. Kozlov, presented at the 42nd Annual Meeting of the APS Division of Plasma Physics, Quebec City, Canada, 23–27 October 2000.


“One-Dimensional Simulation of the Effects of Unstable Mix on Neutron and Charged Particle Spectra from Laser-Driven Implosion Experiments,” R. Epstein, J. A. Delettrez,


1999


presented at Inertial Fusion Sciences and Applications (IFSA) 1999, Bordeaux, France, 12–17 September 1999.


1998


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“Inertial Confinement Fusion: Status, Challenges, and Future,” J. P. Knauer, presented at the Department of Physics and Astronomy at the University of Hawaii, Honolulu, HI, 10 September 1998.


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“Transit-Time Damping and a New Physical Picture for Landau Damping,” A. Simon, presented at the Physics Department of the National Cheng Kung University, Taiwan, China, 9 March 1998.


1997


“Precision Control of Aqueous Magnetorheological Fluids for Finishing of Optics,” S. D. Jacobs, W. I. Kordonski, and H. M. Pollicove, presented at the 6th International


“Three-Dimensional Analysis of the Power Transfer Between Crossed Laser Beams,” C. J. McKinstrie, A. V. Kanaev, V. T. Tikhonchuk, R. E. Giacone, and H. X. Vu, presented


1996


“Modeling of an Actively Stabilized Regenerative Amplifier for OMEGA Pulse-Shaping Applications,” M. D. Skeldon, A. Babushkin, J. D. Zuegel, R. L. Keck, A. Okishev, and


“Ablative Rayleigh–Taylor Instability: Applications of the Linear Theory to Target Designs Relevant to Inertial Confinement Fusion,” V. N. Goncharov, R. Betti, R. L.


1995


“Comparison of a One-Dimensional Mix Model for the Linear and Weakly Nonlinear Regime of the Rayleigh–Taylor Instability with Two-Dimensional ORCHID Results,” J.


“Simulations of SBS in Long-Scale-Length Laser Plasmas of Variable Density: The Inability of Linear Theory to Explain Experimental Observations,” A. V. Chirokikh, A.


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1994


“The Effects of Realistic Geometry on Two-Dimensional Stimulated Brillouin Scattering,” T. Kolber, C. J. McKinstrie, R. Betti, and R. E. Giacone, presented at the


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1993


“Microwave Response of Mixed-Phase Bi$_2$Sr$_2$Ca$_2$Cu$_3$O$_{x}$/Bi$_2$Sr$_2$Ca$_1$Cu$_2$O$_{y}$ Thin Films,” P. Gierlowski, W. Kula, S. J. Lewandowski, and R. Sobolewski, presented at the Materials Research Society 1993 Fall Meeting, Boston, MA, 29 November–3 December 1993.


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