PUBLICATIONS AND CONFERENCE PRESENTATIONS March 1980 – May, 1980

Publications

1. "Symmetric Laser Compression of Argon-Filled Glass Shells to Densities of 4-6 g/cm^3," B. Yaakobi, S. Skupsky, R.L. McCrory, C.F. Hooper, H. Deckman, P. Bourke, and J.M. Sourse; *Physical Review Letters* **44,** *16 (April 1980) 1072-75.*

2. "X-Ray Line Shift as a High Density Diagnostic for Laser-Imploded Plasmas," S. Skupsky; *Physical Review A* **21,** (April 1980) 1316-26.

Forthcoming Publications

1. "High Density Effects on Thermonuclear Ignition for Inertially Confined Fusion", Stanley Skupsky; submitted for publication in *Phys. Rev. Letters.*

2. "X-Ray Absorption Fine Structure Measurement Using Laser Compressed Target as a Source", B. Yaakobi, H. Deckman, P. Bourke, S. Letzring, J.M. Soures; submitted to *Applied Physics Letters.*

3. "Time Resolved Spectroscopy of Large Bore Xe Flashlamps for Use in Large Aperture Amplifiers", John H. Kelly, David C. Brown, and Kenneth Teegarden; submitted for publication to *Applied Optics.*

4. "Theory of High Efficiency Third Harmonic Generation of High Power Nd: Glass Laser Radiation", R.S. Craxton; accepted for publication by *Optics Communications.*

5. "Demonstration of High Efficiency Third Harmonic Conversion of High Power Nd:Glass Laser Radiation", W. Seka, S.D. Jacobs, J.E. Rizzo, R. Boni, and R.S. Craxton; accepted for publication by *Optics Communications.*

6. "X-Ray Absorption Lines: Signature for Preheat Level in Non-Explosive Laser Implosions", B. Yaakobi, R.L. McCrory, S. Skupsky, P. Bourke, and J.M. Soures; accepted for publication by *Optics Communications.*

7. 'Electrooptic Prepulse Suppression for Fusion Laser Systems", G. Mourou, J. Bunkenburg, W. Seka; accepted for publication by *Optics Communications.*

8. "Picosecond Time Delay Fluorimetry Using a Streak Camera", Michael Stavola, Gerard Mourou, Wayne Knox; accepted for publication by *Optics Communications.*

9. "Soft X-Ray Population Inversion in Laser-Plasmas by Resonant Photo Excitation and Photon Assisted Processes", V.A. Bhagavatula; accepted for publication by *Journal of Quantum Electronics.*