

## PUBLICATIONS

1. M. Rhodes, UV Pre-ionized Rail-gap Switch for Stacked Blumlein Pulse Generators, Proceedings of the 15<sup>th</sup> IEEE International Pulsed Power Conference, Monterey CA (2005)
2. M. Rhodes and J. Sullivan, Ferrite-free Stacked Blumlein Pulse Generator for Compact Induction LINACS, Proceedings of the 15<sup>th</sup> IEEE International Pulsed Power Conference, Monterey CA (2005)
3. Boley, C.D., Rhodes, M.A. Modeling of Plasma Behavior in a Plasma Electrode Pockels Cell, IEEE Trans. Plas. Sci., 27 713 (1999)
4. Rhodes, M.A. Very Large Aperture Plasma Electrode Pockels Cells, Applied Optics (1995).
5. Rhodes, M.A., Chen, G., A Spark Gap Trigger Monitor System Employing Fiber Optics, SPIE LASE (1988)
6. Rhodes, M., Corbett, J., Ion Energy Analyzer for Direct Insertion in a Dense Hot Ion Plasma, accepted by Rev. Sci. Instr. (1985).
7. Rhodes, M., Dawson, J.M., Gao, P., Luhmann, N.C., Jr., Ratliff, S.T., Leboeuf, J. N., Hot Ion Plasma in the Toroidal Cusp Experiment, IAEA-CN-44-I-1-5, to appear in Plasma Physics and Controlled Thermonuclear Fusion (1985).
8. Rhodes, M., Dawson, J.M., LeBoeuf, J.N., Luhmann, N.C., Jr., Ion Heating and Confinement in the U.C.L.A. Toroidal Cusp Experiment, UCLA-PPG-583, Phys. Rev. Lett. 48, 1821 (1982).
9. Ratliff, S.T., Dawson, J.M., Leboeuf, J.N., Rhodes, M., Luhmann, N.C., Jr., Computer Simulations of the Toroidal Cusp Experiment, Nucl. Fus. 23, 987 (1983).
10. Leboeuf, J.N., Dawson, J.M., Batliff, S.T., Rhodes, M., Luhmann, N.C., Jr., Inductive Ion Acceleration and Heating in Picket Fence Geometry: Theory and Simulations, Phys. Fluids 25, 2025 (1982).
11. Dawson, J.M., Leboeuf, J.M., Ratliff, S.T., Luhmann, N.C., Jr., Rhodes, M., Toroidal Confinement Experiment Featuring Direct Ohmic Heating of the Ions, Nucl. Instr. & Meth. 207, 197 (1983).
12. Lee, A.Y., Nishida, Y., Luhmann, N.C., Jr., Obenschain, S.P., Gu, B., Rhodes, M., Albritton, J.R., Williams, E.A., Resonant Absorption Produced Hot Electrons in a Microwave-plasma Interaction, Phys. Rev. Lett. 48, 319 (1982).

13. Mase, A., Luhmann, N.C., Jr., Holt, J., Huey, H., Rhodes, M., DiVirgilio, W.F., Thompson, J.J., Randall, C.J., Stimulated Brillouin Scattering Studies in Low Density Plasmas Using Microwave Sources, Plasma Physics and Controlled Nuclear Fusion Research, 1980, vol. 2, p. 745.
14. Rhodes, M., Lee, A., Luhmann, N.C., Jr., Obenschain, S.P., Observation of Soliton Flash, Proc. of Conf. on Plasma in the Inst. of Electrical Engineers in Japan, Sendai, Japan EP-79-19, Dec. 8, 1979 (in Japanese).
15. Huey, H., Lee, A., Luhmann, N.C., Jr., Mase, A., Nishida, Y., Obenschain, S.P., Rhodes, M., Laser-Plasma Interaction Studies in Low Density Plasmas Using Microwave Sources, OSA IEEE Technical Digest 80 CH 1536-2 QUE, 26 April 7, 1980.
16. Nishida, Y., Rhodes, M., Lee, A., Luhmann, N.C., Jr., Obenschain, S.P., Experimental Investigation on the Absorption of Intense Electromagnetic Waves, Proc. of the U.S.-Japan Workshop of Physics of High Power RF Heating, Kyoto, Japan, March 24-27, 1980.
17. Rhodes, M., Lee, A., Nishida, Y., Luhmann, N.C., Jr., Obenschain, S.P., Investigation of the Soliton Flash, Proc. of Int. Conf. on Plasma Physics, Nogoya, Japan, April 7-11, 1980.
18. Mase, A., Huey, H., Rhodes, M., Holt, J., Luhmann, N.C., Jr., Stimulated Brillouin Scattering, Proc. of Int. Conf. Plasma Physics, Nagoya, Japan, April 7- 11, 1980.
19. Luhmann, N.C., Jr., Huey, H., Lee, A., Mase, A., Nishida, Y., Obenschain, S.P., Microwave Modeling of Laser-Plasma Interactions, Proc of Conf., TRW, Redondo Beach, CA., June 1979.

#### INVITED TALKS

1. Rhodes, M., Gao Peng, Ratliff, S., Dawson, J. M., Luhmann, N.C., Jr., Recent Results from the Toroidal Cusp Experiment, paper 5c3, IEEE Int. Conf. on Plasma Science, San Diego, Ca. (1983).

#### PRESENTATIONS AND REPORTS

1. Rhodes, M., Dawson, J.M., Luhmann, N.C., Jr., A Toroidal Plasma Device Featuring Permanent Magnet Confinement and Ohmic Heating, Bul. Am. Phys. Soc., 26, paper 6U33 (1981), IEEE Conf. on Plasma Sci., paper 5P16 (1981), Bul. Am. Phys. Soc., 25, paper 7D5 (1980).

2. Lee, A., Gu, B., Luhmann, N.C., Jr., Obenschain, S.P., Nishida, Y., Rhodes, M., Microwave-Plasma Interaction Study of Resonance Absorption, Bul. Am. Phys. Soc, 26, paper 2S7 (1981).
3. Mase, A., Luhmann, N.C., Jr., Holt, J., Huey, J., Rhodes, M., DiVirgilio, W.F., Thompson, J.J., Saturation of SBS in a Microwave-plasma Interaction Experiment, Bul. Am. Phys. Soc, 25, paper 4R6 (1980)
4. Huey, H., Mase, A., Luhmann, N.C., Jr., Holt, J., Rhodes, M., DiVirgilio, W.F., Thompson, J.J., Finite Bandwidth Control of SBS, Bul. Am. Phys. Soc., 25, paper 4R7 (1980).
5. Huey, H., Lee, A., Luhmann, N.C., Jr., Nishida, Y., Obenschain, S.P., Rhodes, M., Laser-Plasma Interaction Studies in Low Density Plasmas Using Microwave Sources, CLEOS-ICF, paper TuD6, San Diego (1980).
6. Rhodes, M., Lee, A., Nishida, Y., Luhmann, N.C., Jr., Obenschain, S.P., Observation of Soliton Flash, UCLA-PPG-428 (1979), Bul. am. phys. Soc., 24, paper 2S13 (1979).
7. Mase, A., Huey, H., Rhodes, M., Luhmann, N.C., Jr., Effects of Finite Bandwidth Pump on Stimulated Brillouin Scattering, Bul. Am. Phys. Soc., 24, paper 3S17 (1979).
8. Lee, A., Rhodes, M., Nishida, Y., Luhmann, N.C., Jr., Obenschain, S.P., Magnetic Field Generation in a Microwave-Plasma Interaction, Bul. Am. phys. Soc. 24 paper 4U8 (1979).
9. Nishida, Y., Lee, A., Rhodes, M., Luhmann, N.C., Jr., Magnetic Field Bubble Formation in a Microwave-Plasma Interaction, Bul. Am. Phys. Soc., 24, paper 4U7 (1979).
10. Rhodes, M., Lee, A., Luhmann, N.C., Jr., Nishida, Y., 9th Annual Conf. on Anomalous Absorption of Electromagnetic Waves, Rochester, NY, May 16-18, 1979.
11. Rhodes, M., Lee, A., Luhmann, N.C., Jr., Obenschain, S. P., Nishida, Y., Generation of Magnetic Fields in Microwave Experimental Simulations of Laser Fusion Interactions, IEEE Int. Conf. on Plasma Science Montreal, Canada, June 1973.
12. Nishida, Y., Lee, A., Rhodes, M., Luhmann, N.C., Jr., Obenschain, S.P., Observation of Soliton Flash, Conf. on Plasma in the Inst. of Electrical Engineers in Japan, Sendai, Japan, EP-79:19, December 1979.

13. Mase, A., Luhmann, N.C., Jr., Huey, H., Holt, J., Rhodes, M., DiVirgilio, W.F., Thompson, J. J., SBS Study in Microwave-Plasma Interaction, presented at Nuclear Fusion Research Joint Meeting of Phys. Assoc. of Japan and IEEE of Japan , February 1981 .
14. Mase, A., Rhodes, M., Gustincic, J., Peebles, W.A., Luhmann J.C., Jr., Electron Cyclotron Radiation Measurements from the OCLA Tokamaks, Bul. Am. Phys. Soc., 23, paper 7Q7 (1978).
15. Jou, C., Rhodes, M. Luhmann, N.C., Jr., Boxcar Integrator Data Processor, UCLA-ENG-7968 ( 1979) .