

**Fusion Studies Laboratory  
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- FSL 873** R. Burton, H. Momota, N. Richardson, Y. Shaban, and G. H. Miley, "Fusion Ship II- A Fast Manned Interplanetary Space Vehicle Using Inertial Electrostatic Fusion", *Space Technology and Applications International Forum - STAIF-2003*, edited by M.S. El-Genk, AIP Conf. Proc., Albuquerque, NM, **654**, pp. 553-562, Feb 2-5 (2003).
- FSL 874** Y. Shaban, and G. H. Miley, "Distributed Power Sources for Mars Colonization", *Space Technology and Applications International Forum - STAIF-2003*, edited by M.S. El-Genk, AIP Conf. Proc., Albuquerque, NM, **654**, pp. 1211-1218, Feb 2-5 (2003).
- FSL 875** G. H. Miley, R. A. Stubbers, and H. Momota, "Advances in Cylindrical IEC Neutron Source Design for Driven Sub-Critical Operation", to be published in the proceedings of *ICON 11:11<sup>th</sup> Int'l Conf. on Nuc. Engr., Nuclear Energy-Dawn of a New Era*, ICON 11, Tokyo, Japan, Apr 20-23 (2003).
- FSL 876** G. H. Miley, R. L. Burton, H. Momota, N. Richardson, Y. Shaban, and J. Webber, "Fusion Ship IIa- An Interplanetary Space Vehicle Using Inertial Electrostatic Fusion", *Proceedings of the 39<sup>th</sup> AIAA/ASME/SAE/ASEE Joint Propulsion Conf.-Powered Flight: The Next Century*, Huntsville, Alabama, Jul 20-23 (2003).
- FSL 877** G. H. Miley\*, L. Wu, and H. J. Kim, "IEC-Based Neutron Generation for Security Inspection System", *6<sup>th</sup> Intn'l Conf. on Methods and Applications of Radioanalytical Chemistry (MARC VI)*, Kailua-Kona, HI, Apr 7-11 (2003).
- FSL 878** G. H. Miley\*, G. Narne, and T. Woo, "Use of Combined NAA and SIMS Analyses for impurity level Isotope Detection", *6<sup>th</sup> Intn'l Conf. on Methods and Applications of Radioanalytical Chemistry (MARC VI)*, Kailua-Kona, HI, Apr 7-11 (2003).
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- FSL 880** H. Hora, P Toupa, P. Evans, F. Osman, R. Castillo, K. Mima, M. Murahami, S. Nakai, K. Nishihara, C. Yamanaka, T. Kamanaka, and G. H. Miley, "Laser ICF with Single Event Solution", *11<sup>th</sup> International Congress on Plasma Physics*, Sydney 2002, R. Deward, Editor, Sydney, Australia, Jul 15-19 (2002).
- FSL 881** C. H. Castano Giraldo, "Evidence of Superconductivity in the Magnetic Properties of Specifically Prepared Palladium Hydride and Deuteride Samples (Pd/PdO: H<sub>x</sub> and Pd/PdO: d<sub>x</sub>)", *Master of Science. Thesis, Department of Nuclear, Plasma, and Radiological Engineering, University of Illinois*, Urbana, Illinois (2002).
- FSL 882** H. Hora, G.H. Miley, F. Osman, P. Evans, P. Toups. K. Mima, M. Murakami, S. Nakai, K. Nishihara, C. Yamanaka, and T. Yamanaka, "Single-event High Compression Inertial Confinement Fusion at Low temperatures Compared with Two Step Fast Ignitor", *Journal of Plasma Physics* (2003). – *Further information needed.*
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- FSL 888** G.H. Miley and P. J. Shrestha, "On Transmutation Reactions in Solids", *June Meeting 2003 of the ANS*, San Diego, CA, Jun (2003).
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- FSL 894** George H. Miley and Heinrich Hora, "Tritium lean ICF fusion using Block Ignitor and volume ignition", *Fusion Trends 5th Symp*, Washington, D.C, Mar (2003).
- FSL 895** G. H. Miley, "Hydrogen Production Using Thin Film Electrode Electrolysis", *Hydrogen and Fuel Cells 2003 Conf. and Trade Show Vancouver*, British Columbia, Canada, Jun 8-11 (2003).
- FSL 896** George H. Miley, Andrei G. Lipson, and Alexander B. Karabut, "A New Type of Phonon-Driven X-ray Laser", *ICFA*, Oxford, England, July (2003).
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- FSL 902** G.H. Miley, G. Narne, T. Woo, "Use of Combined NAA and SIMS Analyses for Impurity Level Isotope Detection", Sixth International Conference on Methods and Applications of Radioanalytical Chemistry.MARC VI Kailua-Kona, Hawaii, Apr 7-11, (2003). *Journal of Radioanalytical and Nuclear Chemistry*, Vol. **263**, pp. 691-696, N0.3, (2005).
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- FSL 904** G. H. Miley, Nie Luo and P.J. Shrestha, "Enhancement of nuclear reactions due to screening effects of core elements", *ICCF10*, Cambridge, MA, Aug 24-29 (2003).
- FSL 905** V. Violante, F. Sarto, E. Santoro, L. Capobianco, M. McKubre, F. Tanzella, G.H. Miley, N. Luo and P.J. Shrestha, "Study of Lattice Potentials on Low Energy Nuclear Processes in Condensed Matter", *ICCF10*, Cambridge, MA, Aug 24-29 (2003).
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- FSL 911** G.H. Miley, H. Momota, R. Stubbers, J. Webber, L. Wu, and H.J. Kim, "Collimator Experiments for IEC-Based Spacecraft Propulsion", *14<sup>th</sup> Pacific Basin Nuclear Conf.*, Mar (2004).
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