

**THOMAS RICHARD JARBOE**  
**Professor, Aeronautics and Astronautics**  
**Adjunct Professor of Physics, Aerospace and Energetics Research Program**  
Aerospace & Engineering Research Bldg. Rm.438, Box 352250  
University of Washington, Seattle, WA 98195-2250; 206 685-3427  
[jarboe@aa.washington.edu](mailto:jarboe@aa.washington.edu)

Education and Training.

University of Illinois, Urbana, Engineering Physics B.S., 1967

University of California, Berkeley, Plasma Physics Ph.D., 1974

Honors: Member, Sigma Tau and Tau Beta Pi; Fellow, American Physical Society

Research and Professional Experience:

January 1991-present -- Professor, Aeronautics & Astronautics, Adjunct Professor of Physics,  
University of Washington

August 1989-December 1990 -- Professor, Nuclear Engineering, University of Washington

1974-1989 -- Los Alamos National Laboratory, NM

1985-1989 Group leader, CTR-5; 1983-1985 Deputy group leader; 1982-1983 Associate group leader;

1980-1982 Task leader; 1974-1980 Staff member; 1985-1986 Sabbatical leave, Culham Laboratory, UK

1967-1974 -- University of California, CA

1969-1974 Research Assistant; 1967-1969 Teaching Assistant

Summer 1968 Physicist, Naval Weapons Center, China Lake, CA

Publications:

Jarboe T.R.; Akcay C.; Chilenski M.A.; Ennis D.A.; Hansen C.J.; Hicks N.K.; Aboul Hosn R.Z.; Hossack A.C.; Marklin G.J.; Nelson B.A.; O'Neill R.G.; Sieck P.E.; Smith R.J.; Victor B.S.; Wrobel J.S.; Nagata M. "Recent results from the HIT-SI experiment" *Nuclear Fusion*, **51**(6): 2011-06-01

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W. T. Hamp, T. R. Jarboe, B. A. Nelson, R. G. O'Neill, R. Raman, A. J. Redd, B. T. Stewart, and D. Mueller, "Temperature and density characteristics of the Helicity Injected Torus-II spherical tokamak indicating closed flux sustainment using coaxial helicity injection", *Phys. Plasmas* **15**, 082501 (2008).  
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R. Raman, T. R. Jarboe, D. Mueller, B. A. Nelson, M. G. Bell, M. Ono, T. Bigelow, R. Kaita, B. LeBlanc, R. Maqueda, J. Menard, S. Paul, and L. Roquemore "Plasma Startup in the National Spherical Torus Experiment Using Transient Coaxial Helicity Injection" *Phys. Plasmas*, **14**, 056106 (2007).  
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- R. G. O'Neill, G. J. Marklin, T. R. Jarboe, C. Akcay, W. T. Hamp, B. A. Nelson, A. J. Redd, R. J. Smith, B. T. Stewart, and J. S. Wrobel, "A Fully Relaxed Helicity Balance Model for an Inductively Driven Spheromak", *Phys. Plasmas* **14**, 112304 (2007). <http://link.aip.org/link/?PHPAEN/14/112304/1>
- T. R. Jarboe, A. Bayless, E. Held, J.Y. Ji, C. Kim, A. Macnab, G. Marklin, R. D. Milroy, B. A. Nelson, U. Shumlak, C. Sovenic, Srinath Vadlamani, and Simon Woodruff, "Overview of the Plasma Science and Innovation Center (PSI – Center)" *J. Fusion Energy* **26** 1/2, June 2007.
- D. Mueller, R. Raman, M. G. Bell, T. R. Jarboe, B. LeBlanc, R. Maqueda, S. Sabbagh, B. A. Nelson "NSTX plasma start-up using transient coaxial helicity injection" *Fusion Sci Tech.* **52**(3), pages 393397, Oct 2007.
- A. J. Redd, T. R. Jarboe, B. A. Nelson, R. G. O'Neill, and R. J. Smith "Coaxial Helicity Injection in Open-Flux Low-Aspect-Ratio Toroidal Discharges" *Phys. Plasmas* **14**, 112511 (2007) <http://link.aip.org/link/?PHPAEN/14/112511/1>
- T. R. Jarboe, W. T. Hamp, G. J. Marklin, B. A. Nelson, R. G. O'Neill, A. J. Redd, P. E. Sieck, R. J. Smith, and J. S. Wrobel "Spheromak Formation by Steady Inductive Helicity Injection" *Phys. Rev. Lett.* **97**, 115003 (2006) <http://link.aps.org/doi/10.1103/PhysRevLett.97.115003>
- P.E. Sieck, T.R. Jarboe, V. A. Izzo, W.T. Hamp, B.A. Nelson, R.G. O'Neill, A.J. Redd and R.J. Smith "Demonstration of Steady Inductive Helicity Injection" *Nucl. Fusion*, **46**, 254-261. February 2006. <http://dx.doi.org/10.1088/0029-5515/46/2/008>
- Jarboe, "The Spheromak Confinement Device" *Physics of Plasma*, **12**, 058103, May 2005. <http://link.aip.org/link/?PHPAEN/12/058103/1>
- A. Izzo and T. R. Jarboe, "Three-Dimensional Magnetohydrodynamics simulations of the Helicity Injected Torus with Steady Inductive Drive" *Physics of Plasma*, **12**, 0561009-1, April 2005. <http://link.aip.org/link/?PHPAEN/12/056109/1>

Synergistic Activities:

2005-present, Director of the Plasma Science and Innovation (PSI) Center; 2005-present, Program Committee Chair of the Innovative Confinement Concepts (ICC); 2003-2006, NSTX-PAC; 2001-2003, President of University Fusion Association; 2000-2003, NSO-PAC; 2000-2003 VLT-PAC; 1998-2000, University Fusion Association Excom; 1998-2000, Member of APS/DDP Excom

Identification of Potential Conflicts of Interest or Bias in Selection of Reviewers:

(a) Collaborators and Co-Editors:

Mike Bell, Princeton Plasma Physics Laboratory (PPPL); Paul Bellan, Caltech; William Hamp, UW; Alan Glasser, UW; Eric Held, Utah State (USU); Dan Homiak, Aerojet; Bick Hooper, Lawrence Livermore National Laboratory (LLNL); Valerie Izzo, General Atomic; Jeong-Young Ji, Utah State (USU); Jay Kesner, Massachusetts Institute Of Technology (MIT); Charlson Kim UW; Slava Lukin UW; George Marklin, UW; Tom Mattick, UW; Richard Milroy, UW; Dennis Mueller, Princeton Plasma Physics Lab. (PPPL); Brian Nelson UW; N. Nagata, University of Hyogo, Japan; Griff O'Neill, LAN; R. Raman, Princeton Plasma Physics Laboratory (PPPL); A. J. Redd, Univ. of Wisc.; L. Roquemore, Princeton Plasma Physics Laboratory (PPPL); John D. Sahr, UW; Mike Schaffer General Atomics; Uri Shumlak, UW; John Sarff; U. Wisc.; Paul Sieck, Los Alamos National Lab. (LANL); John Slough UW; Carl Sovinec, U. Wisc; Glen Wurden; Los Alamos National Lab. (LANL)

(b) Graduate and Postdoctoral Advisors and Advisees:

Graduate and Postdoctoral Advisees:

Griff O'Neill, LAN, Bay Area

Paul Earl Sieck, Los Alamos National Laboratory

Chris Holcomb, General Atomics San Diego, CA

Valerie Izzo, UCSD

Hyundae Kim, Samsung