

Chio Z. (Frank) Cheng

Current Position:

Head, Space Plasma Physics Division
Leader, Energetic Particle Physics Group
Member, Theory Department Steering Committee
Princeton Plasma Physics Laboratory
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Employment:

- 1999-present, Member of Theory Department Steering Committee, Princeton Plasma Physics Laboratory, Princeton University
- 1996 - present, Member of Research Council, Princeton Plasma Physics Laboratory, Princeton University
- 1996 - present, Distinguished Research Fellow, Princeton Plasma Physics Laboratory, Princeton University
- 1995 - present, Head, Space Plasma Physics Division, Princeton Plasma Physics Laboratory, Princeton University
- 1990 - present, Principal Research Physicist, Princeton Plasma Physics Laboratory, Princeton University
- 1982 - 1990, Research Physicist, Princeton Plasma Physics Laboratory, Princeton University
- 1977 - 1982, Research Staff, Princeton Plasma Physics Laboratory, Princeton University
- 1975 - 1977, Research Associate, Princeton Plasma Physics Laboratory, Princeton University

Education:

- Ph.D. in physics, University of Iowa, Iowa City, Iowa, 1975
- M.S. in physics, University of Iowa, Iowa City, Iowa, 1972
- B.S. in physics, National Cheng-Kung University, Tainan, Taiwan, 1969

Honors and Awards:

- PPPL Distinguished Research Fellow, 1996, by Princeton Plasma Physics Laboratory
- 2004 Award For Excellence In Plasma Physics Research by American Physical Society

Professional Activities:

- 2002, Member of Program Committee, International Congress of Plasma Physics 2002, Sydney, Australia
- 2000, Member of Selection Committee for PPPL Distinguished Research Fellow, Princeton Plasma Physics Laboratory, Princeton University
- 2000, Member of Joint US Department of Energy - National Science Foundation Proposal Review Panel
- 1999, Visiting Professor, Solar-Terrestrial Environment Laboratory, Nagoya University, Japan, participation in research and space physics lectures to graduate students
- 1998, Chairman, Selection Committee for PPPL Distinguished Research Fellow, Princeton Plasma Physics Laboratory, Princeton University
- 1998, Organizer, Mini-Conference on Space Astrophysics, APS Division of Plasma Physics Annual Meeting
- 1998, Member of Program Committee Member, APS Division of Plasma Physics Annual Meeting
- 1998, Member of Program Committee of the International Conference on Substorms - 4, Lake Hamana, Japan, March 9-13, 1998
- 1998, Convener of SP17 Session on "ULF Waves and Kinetic Effects," 1998 Western Pacific Geophysics Meeting Taipei, Taiwan, July 21-24, 1998
- 1998, Convener of Session on "Kinetic Effects in MHD Phenomena," 1998 MIT Symposium/workshop on Multiscale Phenomena in Space Plasma II, Cascais, Portugal, June 22-July 3, 1998
- 1998, Consultant, Applied Physics Laboratory, Johns Hopkins University, Laurel, MD
- 1997, Member of Program Committee of the Fifth IAEA Technical Committee Meeting on Alpha Particles in Fusion Research, Joint European Tokamak, Abingdon, UK, September 8-10, 1997
- 1997, Member of Joint US Department of Energy - National Science Foundation Proposal Review Panel

- 1996-present, Member of Research Council, Princeton Plasma Physics Laboratory, Princeton University
- 1996-present, PPPL coordinator of Joint PPPL-JT60U efforts on Theory and Experiments of Energetic Particle Physics for JT-60U Tokamak, Japan Atomic Energy Research Institute, Naka, Japan
- 1996-present, Member of Patent Committee, Princeton Plasma Physics Laboratory, Princeton University
- 1996, Member of Scientific Committee of COSPAR Colloquium on Magnetospheric Research with Advance Techniques (MRAT), Beijing, China
- 1995, Co-Organizer of the Fourth IAEA Technical Committee Meeting and Joint US-Japan Workshop on Alpha Particles in Fusion Research, Princeton Plasma Physics Laboratory, Princeton, NJ, USA, April 25-28, 1995
- 1996, Consultant, MIT Center for Theoretical Geo/Cosmo Plasma Physics, Cambridge, MA
- 1995-present, Member of Program Committee, Asia-Pacific Plasma Theory Conference
- 1994, US Organizer of US-Japan Workshop on Fast Particle Physics and MHD Activities in Magnetic Confinement Systems, Japan Atomic Energy Research Institute, Naka, Ibaraki, Japan, December 12-16, 1994
- 1992-1995, Visiting Professor, National Central University, Chung-Li, Taiwan; lectures in plasma physics to graduate students
- 1991-present, American Physical Society Fellow
- 1990, Visiting Professor, National Institute for Fusion Sciences, Nagoya, Japan
- 1987, Consultant, Southwest Research Institute, San Antonio, Texas
- 1982, Member of US Department of Energy Proposal Review Panel
- 1980, Visiting Research Physicist, Institute for Fusion Studies, University of Texas, Austin, Texas

Graduate Students, Postdocs and Junior Staff:

- Advisor of the following graduate students:
 Tom R. Harley (1990-1994);
 David J. Ward (1990-1994);
 Peter Liu (1993-1995);
 Qian Qian (1994-1995);
 Yanlin Wu (1994-1997);
 Sorin Zaharia (1998-2003);
 Yang Ren (2001-2002)

- Supervisor of the following postdocs and visiting staff:
G. Y. Fu (1991-1993);
C. T. Hsu (1993-1995);
V. V. Drozdov (1994-1995);
N. Gorelenkov (1994-1999);
Jay R. Johnson (1995-1997);
G. S. Choe (1999-2001)
- Supervisor of the following junior staff:
Jay R. Johnson (1997-present);
N. Gorelenkov (1999-present);
G. S. Choe (2001-present)

Professional Society Membership:

- American Physical Society, 1974 - present
- American Geophysical Union, 1984 - present
- Solar Physics Division/American Astronomical Society, 1997 - present