Ned R. Sauthoff

U.S. ITER Project Manager
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http://www.pppl.gov/projects/pages/iter.html

Education

- Ph.D. Astrophysical Sciences/Plasma Physics
  Princeton University (1975)

- S.M. Nuclear Engineering
  Massachusetts Institute of Technology (1972)

- National Science Foundation Graduate Fellow

- S.B. Physics
  Massachusetts Institute of Technology (1971/1972)

- Phi Beta Kappa

- Sigma Xi

Dr. Sauthoff is a senior managing principal research physicist at PPPL and a leader in the coordination of international fusion research activities. He was recently named U.S. ITER Project Manager. ITER, Latin for "the way," is a major international fusion experiment that is the next large step for the development of fusion (http://www.pppl.gov/projects/pages/iter.html). For 18 months prior to being named project manager, Dr. Sauthoff served as the U.S. ITER Planning Officer, providing support to the U.S. ITER negotiators, initiating U.S. participation in the ITER Transitional Activities, and planning for the start of the U.S. ITER project activities.

Dr. Sauthoff has headed numerous departments at PPPL. The Laboratory is the largest facility in the U.S. studying the physics of the high-temperature fully-ionized gases, called plasmas that are used to create fusion energy — an attractive energy source for the future. The PPPL is funded by the Department of Energy and managed by Princeton University. From 1997 to recently, Dr. Sauthoff led PPPL's Off-Site Research Department, which conducts collaborative research on leading fusion facilities in the U.S. and abroad in partnership with the host team in pursuit of shared goals. He headed the Plasma Science and Technology Department from 1994-97 and the Physics Department from 1992-94. In addition, Dr. Sauthoff was the Physics Manager for the U.S. participation in ITER project from 1992-1998.

He was co-chair of the 2002 Snowmass Fusion Summer Study, which enabled the U.S. fusion community to agree on the scientific and technological value of burning plasma research and on a uniform technical assessment of the technical readiness and relative research capabilities of three approaches to the study of burning plasmas, including ITER. He has been a member of the Department of Energy Office of Science's Fusion Energy Sciences Advisory Committee (FESAC) since 1996 and has served on numerous FESAC panels. He is one of three U.S. members of the Coordinating Committee of the International Tokamak Physics Activity, which coordinates toroidal research worldwide, identifies high priority research topics based on ITER's needs, and facilitates joint experiments conducted by in-

ternational teams on major facilities. He is one of three U.S. members of the Executive Committee of the International Energy Agency Implementing Agreement on Cooperation Agreement on the Large Tokamak Facilities. Prior to these roles, he led PPPL's Physics Department and PPPL's Experimental Projects Department, was Project Director for the Princeton Beta Experiment-Modification tokamak, and was head of PPPL's Computer Division.

Sauthoff is the author of more than 100 papers and articles in fusion science and computer systems publications. He is a Fellow of the American Physical Society and was President of IEEE-USA in 2001.

Professional Ranks
Princeton University
Princeton Plasma Physics Laboratory (PPPL)
P.O. Box 451, Princeton, New Jersey 08543
July 1975-present

- Principal Research Physicist/Senior Managing June 1990-present
- Principal Research Physicist/Managing October 1988-June 1990
- Principal Research Physicist October 1984-October 1988
- Research Physicist July 1979-September 1984
- Research Staff Member January 1976-June 1979
- Research Associate July 1975-December 1975
- Research Assistant June, 1972-June, 1975