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PERSONAL:

Born July 28, 1944 in Orangeburg, South Carolina.

Married to Carol N. Boozer (D.Sc., Harvard School of Public Health, 1976).

EDUCATION:

Ph.D. in physics, Cornell University, 1970 (Woodrow Wilson Fellow, National Science Foundation Fellow). Thesis under E. E. Salpeter on "Late Stages of Stellar Evolution."

B.A. in physics, University of Virginia with High Distinction 1966 (Echols Scholar, Dupont Regional Scholar, Phi Beta Kappa).

PROFESSIONAL:

1994-present: Full professor, Department of Applied Physics and Applied Mathematics, Columbia University.

1986-1994: Full professor, Department of Physics, College of William and Mary.

1974-1986: Research physicist, Plasma Physics Laboratory, Princeton University. Held ranks up to the most senior, principal research physicist; member of the theoretical division steering committee and the laboratory program committee; acting head of the theoretical division from June 1985 to May 1986.

1970-1974: Officer in the U.S. Air Force, (1970-1971) at the Air Force Armaments Laboratory, Eglin AFB, FL and (1971-1974) at the Air Force Cambridge Research Laboratories, Hanscom Field, MA. Received Commendation Medal.

Elected to external scientific membership in the German Max Planck Society (Auswärtiges Wissenschaftliches Mitglied der Max-Planck-Gesellschaft) (1989). Awarded the Alfvén Prize by the Division of Plasma Physics of the European Physical Society (2010). Awarded the Kaul prize (2014), the highest scientific award of the Princeton Plasma Physics Laboratory.

Fellow American Physical Society (elected 1982); Secretary/Treasurer APS Division of Plasma Physics 1989-1990; Elected to three-year chair sequence of the APS Division of Plasma Physics (1998-2001). Member of the Plasma Science Committee of the National Research Council (2001-2004).

Held first U.S.-Japan fusion theory visiting professorship at Nagoya University (1982). Associate Editor of Physics of Plasmas (1992-94); Editorial Board for Plasma Physics and Controlled Fusion (1992-95); president of the University Fusion Association (1992).

Asked by the Reviews of Modern Physics to write the most general article that they have published on plasma physics, "Physics of Magnetically Confined Plasmas," Reviews of Modern Physics 76, 1071-1141 (2004).

PUBLICATIONS:

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3. Particle trapping in magnetic line cusps
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4. Ion heating in a train of orthogonal magnetoacoustic shocks
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5. The orthogonal conductivity of a toroidal plasma
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Phys. Fluids 19, 1210-1216 (1976).
7. Effect of magnetic perturbations on divertor scrape-off width
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8. Magnetic surfaces in the reversed field geometry
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9. Reduction of electron parallel thermal conductivity using waves
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Comments Plasma Phys. Cont. Fusion 4, 31-35 (1978).
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11. Field reversal in mirror machines
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N. J. Fisch and A. H. Boozer
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14. Enhanced transport in tokamaks due to toroidal ripple
A. H. Boozer
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15. Classical diffusion in the presence of an X point
S. P. Auerbach and A. H. Boozer
Phys. Fluids 23, 2396-2412 (1980).
16. Neoclassical transport in helically symmetric systems
A. Pytte and A. H. Boozer
Phys. Fluids 24, 88-92 (1981).
17. Monte Carlo evaluation of transport coefficients
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Phys. Fluids 24, 851-859 (1981).
18. Tokamak microturbulence and the second law of thermodynamics
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Phys. Fluids 24, 1382-1387 (1981).
19. Force on a moving plasma by a finite conductivity wall
A. H. Boozer
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20. Confinement of high energy trapped particles in tokamaks
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21. Plasma equilibrium with rational magnetic surfaces
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