

Curriculum Vitae: Nancy Crooker

Professional Preparation

Knox College, Galesburg, Illinois	Physics	B.A.	1966
University of California, Los Angeles	Meteorology	M.S.	1968
University of California, Los Angeles	Atmos. Sci.	Ph.D.	1972
Cornell University, Ithaca, New York	Elec. Eng.	Postdoc.	1973
Massachusetts Institute of Technology	Space Phys.	Postdoc.	1974-75

Appointments

1994-	Research Professor, Boston University, Boston, Massachusetts
1989-1991	Visiting University Faculty Research Resident, Geophysics Laboratory, Hanscom Air Force Base, Massachusetts
1975-1994	Assistant Research Scientist, Associate Research Scientist, Lecturer, Research Scientist, and Adjunct Professor, Department of Atmospheric Sciences, University of California, Los Angeles
1969	Engineer/Scientist, McDonnell Douglas Astronautics Company, Santa Monica, California

Publications: 133 articles in refereed journals and books

(i) Five publications most closely related to proposed project:

Owens, M. J., P. J. Cargill, C. Pagel, G. L. Siscoe, and N. U. Crooker (2005), Characteristic magnetic field and speed properties of interplanetary coronal mass ejections and their sheath regions, *J. Geophys. Res.*, *110*, A01105, doi:10.1029/2004JA010814.

Crooker, N. U., R. Forsyth, A. Rees, J. T. Gosling, and S. W. Kahler (2004), Counterstreaming electrons in magnetic clouds near 5 AU, *J. Geophys. Res.*, *109*, A06110, doi:10.1029/2004JA010426.

Riley, P., J. T. Gosling, and N. U. Crooker (2004), Ulysses observations of the magnetic connectivity between ICMEs and the Sun, *Ap. J.*, *608*, 1100-1105, doi: 10.1086/420811.

Crooker, N. U., Solar-heliospheric group SHINE sheds light on murky problems, *Eos Trans. AGU*, *83*, 24, 2002.

McAllister, A. H., S. F. Martin, N. U. Crooker, R. P. Lepping, and R. J. Fitzenreiter, A test of real-time prediction of magnetic cloud topology from solar signatures, *J. Geophys. Res.*, *106*, 29,185-29,194, 2001.

(ii) Five other significant publications

Crooker, N. U., S. W. Kahler, D. E. Larson, and R. P. Lin (2004), Large-scale magnetic field inversions at sector boundaries, *J. Geophys. Res.*, *109*, A03108, doi:10.1029/2003JA010278.

Crooker, N. U., C.-L. Huang, S. M. Lamassa, D. E. Larson, S. W. Kahler, and H. E. Spence (2004), Heliospheric plasma sheets, *J. Geophys. Res.*, *109*, A03107, doi:10.1029/2003JA010170.

Crooker, N. U., D. E. Larson, S. W. Kahler, S. M. Lamassa, and H. E. Spence (2003), Suprathermal electron isotropy in high-beta solar wind and its role in heat flux dropouts, *Geophys. Res. Lett.*, *30*(12), 1619, doi: 10.1029/2003GL017036.

Crooker, N. U., J. T. Gosling, and S. W. Kahler (2002), Reducing heliospheric magnetic flux from CMEs without disconnection, *J. Geophys. Res.*, 107(2), 1028, DOI 10.1029/2001JA000236.

Crooker, N. U., J. T. Gosling, and S. W. Kahler (1998), Magnetic clouds at sector boundaries, *J. Geophys. Res.*, 103, 301-306.

Five Synergistic Activities

2004-	President-Elect, AGU Space Physics and Aeronomy Section
2004-	Member, IHY U.S. Regional Steering Committee
2003-2005	Member, NASA Living-with-a-Star Management Operations Working Group
2000-2002	Secretary, AGU Solar-Heliospheric/Space Physics and Aeronomy Section
1999-2002	Coordinator, NSF-sponsored SHINE Summer Workshops

Collaborators and Other Affiliations

(i) Collaborators (no Co-Editors) during past 48 months (not included are coauthors with whom no interaction took place)

J. J. Blanco, U. Alcala de Henares, Spain
W. M. Feuerstein, UC Berkeley
R. J. Forsyth, Imperial College, London
J. T. Gosling, Los Alamos Nat'l. Lab.
T. S. Horbury, Imperial College, London
Q. Hu, UC Riverside
C.-L. Huang, Boston U.
S. W. Kahler, Air Force Research Lab.
S. M. Lamassa, Harvard Center Astrophys.
D. E. Larson, UC Berkeley
R. P. Lepping, GSFC
S. F. Martin, Helio Research
A. H. McAllister, Helio Research
M. B. Moldwin, UCLA
M. J. Owens, Boston U.
A. C. Pagel, Boston U.

J. C. Raymond, Harvard Center Astrophys.
A. Rees, Imperial College, London
J. D. Richardson, MIT
P. Riley, SAIC
J. Rodriguez-Pacheco, U. Alcala de Henares, Spain
G. L. Siscoe, Boston U.
C. W. Smith, U. New Hampshire
H. E. Spence, Boston U.
R. M. Suleiman, Boston U.
A. A. van Ballegooijen, Harvard Center Astrophys.
D. F. Webb, Air Force Research Lab.
R. F. Wimmer-Schweingruber, U. Kiel, Germany.

(ii) Graduate and Post Doctoral Advisors: N. M. Brice, deceased; H. S. Bridge, deceased; G. L. Siscoe, Boston University; S. V. Venkateswaran, UCLA.

(iii) Thesis Advisor and Postgraduate-Scholar Sponsor

During last 5 years at Boston University

Postgraduate Scholar A. Christina Pagel, 2002-2005

Postgraduate Scholar Sheela Shodhan, 1998-2000

Graduate Student Raid Suleiman, 2003-

Undergraduate Senior Stephanie Lamassa, 2002-2003

Undergraduate Senior Jennifer Simmerer, 1999-2000

Total number of undergraduate students advised: 3

Total number of graduate students advised: 4

Total number of postdoctoral scholars sponsored: 2