Brief Biography of Dr. Nat Gopalswamy

Dr. Nat Gopalswamy is a staff scientist at the Solar System Exploration Division of NASA's Goddard Space Flight Center, Greenbelt, Maryland. He holds the position of Astrophysicist in the Laboratory for Planetary Magnetospheres. Before joining NASA, he had held the positions of Research Professor at the Catholic University of America and Associate Research Scientist position at the University of Maryland, College Park. He was a Senior Resident Research Associate of the National Research Council at the Goddard Space Flight Center (1998-2000). Dr. Gopalswamy received his PhD from the Indian Institute of Science, Bangalore (1982) and did his post-doctoral training at the University of Maryland, College Park (1985). He was briefly (1983-1985) the Resident Scientist of the Kodaikanal Observatory of the Indian Institute of Astrophysics before moving to the United States.

Over the past two decades, Dr. Gopalswamy has been engaged in solving problems in solar and solar terrestrial physics using data from various large radio telescopes and space missions. In particular, he is interested in coronal mass ejections and their impact on Earth and on the heliosphere in the form of magnetic storms and particle radiation. He has considerable expertise in the analysis of multi-wavelength data (X-ray, EUV, optical and radio). In the recent years, he has been extensively involved in the analysis of Yohkoh, SOHO, Wind and ACE data in conjunction with radio and optical images obtained by ground based instruments. Dr. Gopalswamy's research interests include solar terrestrial physics and solar radio astronomy. He is a member of the SOHO team engaged in studying coronal mass ejections using SOHO and Wind spacecraft data. He has published more than 150 papers, mostly first-authored.

Some of the notable discoveries of Dr. Gopalswamy: radio CME (1992), Umbral oscillations in microwaves (1993), transient microwave brightenings (1995), three-part CME using non-coronagraphic observations (1996), Effective interplanetary acceleration of CMEs (2000), Colliding CMEs (2001), High-latitude CMEs and solar polarity reversal (2003), Empirical shock arrival model (2005).

Dr. Gopalswamy is actively involved in NASA's Living with a Star (LWS) program in organizing the Coordinated Data Analysis Workshops (commonly known as CDAWs). He is an associate editor of Journal of Geophysical Research (Space Physics). Dr. Gopalswamy served as the Workshop Coordinator for the US National Science Foundation's SHINE program and a member of its steering committee (2003-2005). He is also the International Coordinator for the International Heliophysical Year (IHY) 2007 program and a member of its international executive committee. He also plays organizational roles in IAU, SCOSTEP, and CAWSES. He has served as a member of NASA's 2005 Sun-Solar System Connection Roadmap committee.