

## **Prof. Dr. Natchimuthukonar Gopalswamy**

### **Biography**

Dr. Natchimuthukonar Gopalswamy is a staff scientist at NASA's Goddard Space Flight Center (GSFC) in Greenbelt, Maryland. GSFC is the largest Earth and Space Science research organization in the world. Dr. Gopalswamy is a solar terrestrial physicist in the Heliophysics division studying the constantly varying Sun and its impacts on Earth. In particular he studies coronal mass ejections (CMEs), which are magnetized plasmas hurled by the Sun into the heliosphere. Dr. Gopalswamy is a Co-Investigator of the Solar Terrestrial Relations Observatory (STEREO) mission, which has two spacecraft that provide information on the three-dimensional aspects of CMEs. Dr. Gopalswamy is also a solar radio astronomer, studying radio bursts produced by CMEs. Over his career to date, Dr. Gopalswamy has authored or coauthored more than 300 research papers.

Dr. Gopalswamy promotes international cooperation in space research in collaboration with the United Nations Office of Outer Space Affairs. He has been the International Coordinator for the IHY 2007 program, which promoted deployment of small instruments for space observations in many developing countries, particularly in Africa. Dr. Gopalswamy also organized IHY scientific activities in collaboration with international scientific organizations such as the International Astronomical Union (IAU), the Scientific Committee on Solar Terrestrial Physics (SCOSTEP), and the International Association of Geomagnetism and Aeronomy (IAGA), thus inspiring a much wider scientific community for a focus on global scientific cooperation. Dr. Gopalswamy serves as a member of the SCOSTEP Bureau, representing IAU.

Previously Dr. Gopalswamy was a Research Professor at the Catholic University of America (1997 – 1999) and a Research Scientist at the University of Maryland, College Park (1985-1997). Between 1983 and 1985 Dr. Gopalswamy worked for the Indian Institute of Astrophysics, running the Kodaikanal Observatory as its Resident Scientist. Dr. Gopalswamy received his B.Sc. and M.Sc. degrees in Physics from the University of Madras (1975 and 1977) and a Ph.D. in Plasma Physics from the Indian Institute of Science in Bangalore (1982).

### **Tentative Programme**

30 Oktober 2009 (Jumaat) - Bilik Senat, Aras 5, Bangunan Canseleri, UKM

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|---------|---|---|
| 3.00 pm | - | Arrival of Guest  |
| 3.15 pm | - | Doa Recitation  |
| 3.20 pm | - | Welcome Speech by Director of Institute of Space Science (ANGKASA), UKM<br>Prof. Dr. Mohd. Alauddin Mohd. Ali |
| 3.30 pm | - | Public Lecture by Prof. Dr. Natchimuthukonar Gopalswamy<br>"Space Weather for the Next Generation"            |
|         | - | Souvenir Presentation   |
|         | - | Refreshment   |
|         | - | End   |