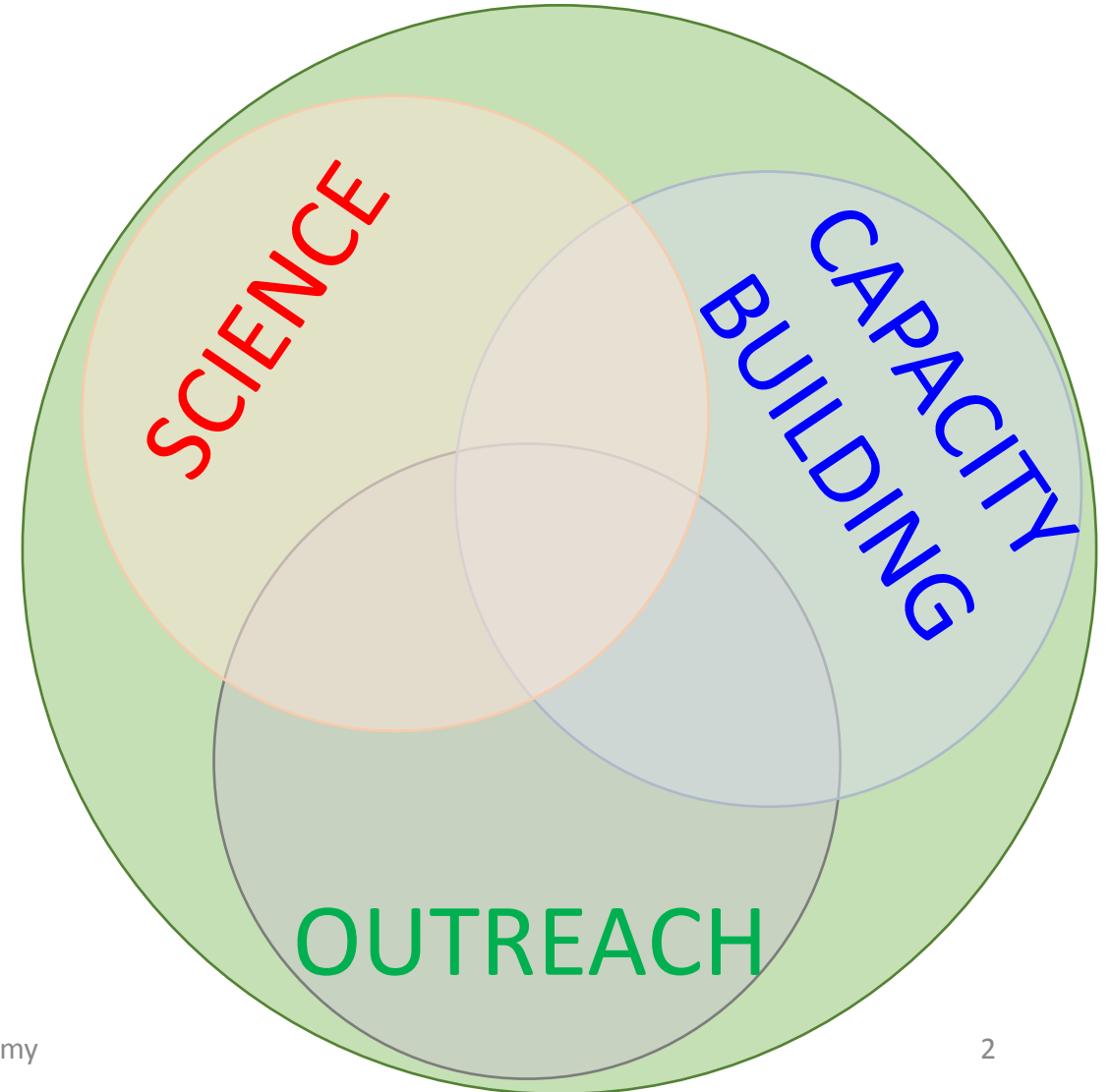


An Update of SCOSTEP Activities

Nat Gopalswamy
President, SCOSTEP

What Does SCOSTEP do?

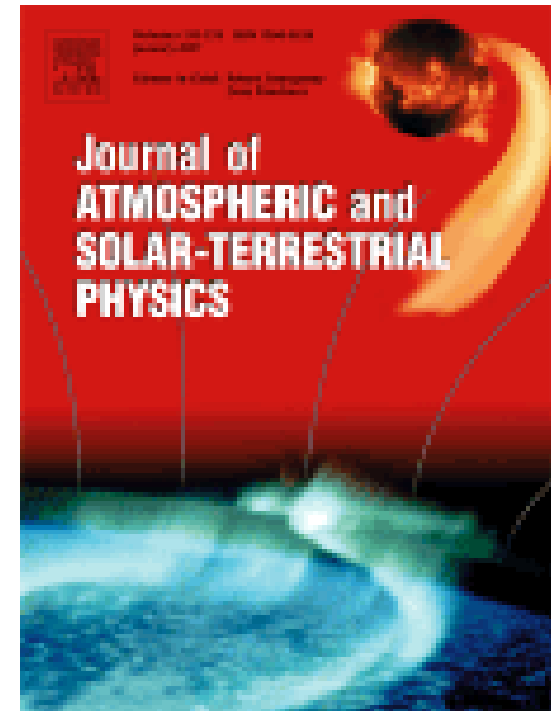
- Runs long-term international interdisciplinary scientific programs in solar terrestrial physics since 1966
- Interacts with national and international programs involving solar terrestrial physics activities
- Engages in Capacity Building activities such as the annual Space Science Schools and SCOSTEP Visiting Scholar Program
- Outreach activities (comics books; public lectures)
- Disseminates new knowledge on the Sun-Earth System and how the Sun affects life and society
- Quarterly Newsletters
- Website: www.yorku.ca/scostep
- Symposia
- Quadrennial Solar Terrestrial Physics Symposia
- Scientific papers in refereed journals



First VarSITI General Symposium: Albena, Bulgaria June 6-10, 2016

- Solar and Heliospheric Drivers of Earth-Affecting Events
- Long-term solar variability
- Understanding the Earth's space environment
- Modeling the connection from Sun to mud
- Data archiving and HELCATS Collaboration (Heliospheric Cataloguing, Analysis and Technique Service)
- Special issue of: Journal of Atmospheric and Solar-Terrestrial Physics (JASTP) deadline: January 31, 2017

More than 100 scientists from 24 countries
114 oral and poster scientific papers



VarSITI General Symposium 2017: July 10, 2017 – July 15, 2017, Irkutsk, Russia

- Solar and heliospheric drivers of Earth-affecting events
- Long-term variation of the Sun, geomagnetic activity, and climate
- Coupling between the Earth's atmosphere and space and its relation to quiet and active Sun
- Understanding Earth's space environment and its connection to Space Weather
- Sun to Earth campaign events study
- Atmospheric response to solar variability and modulation of its impact on timescales from minutes to decades
- Data archiving and analysis tools
- Special Issue in a refereed journal



<http://www.varsiti.org>

<http://varsiti2017.iszf.irk.ru/index.php/conferences/varsiti>

SCOSTEP Co-sponsors UN/US Workshop



UN/US Workshop on ISWI 2017

UN/US Workshop on the International Space Weather Initiative **The Decade after the International Heliophysical Year 2007**

July 31÷ August 4, 2017, Boston College, Chestnut Hill, MA, US

- Economic Impact of Space Weather, Global space weather response
- UNISPACE + 50 Preparation
- Scientific achievements in space weather over the past decade
- Current science results in space weather

<http://www.iswi-secretariat.org>



School Report

Smt. Kasturbai Walchand College of Science & Arts, Rajnemi Campus,
Sangli, Maharashtra 416416, India

http://www.iap.res.in/meet/school_meet/index.php



International School on Space Science

- 28 lectures by 23 Professors from USA, Japan, India, and Norway on Sun-to-Earth topics
- ISWI Instruments workshop conducted by 8 scientists from USA, India, Japan, and Switzerland
- There were 120 applications. 74 students were selected. Participants were from China, Egypt, Ethiopia, India, Indonesia, Ivory Coast, Kenya, Korea, Nigeria, Philippines, Rwanda, Thailand, Uganda, and Vietnam
- The lecturers interacted with 100s of high school students

Full report available: <http://www.iswi-secretariat.org>



Decorative art by the local organizers using color powders (Rangoli)

Interactive Tutorial on Python – the free Software for Data Analysis



The school involved tutorials, lectures, hands-on activities. and instrument workshop

Instrument workshop



Instruments to observe space weather from ground were deployed and demonstrated during the school

Outreach Activities

- Lecturers visited and interacted with students from A. B. Patil High School on November 10, 2016
- A question-answer session was organized to interact with more than 100 science students from local high schools invited to the School venue





Mekelle University



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College of Natural and Computational Science

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Administration

Academics

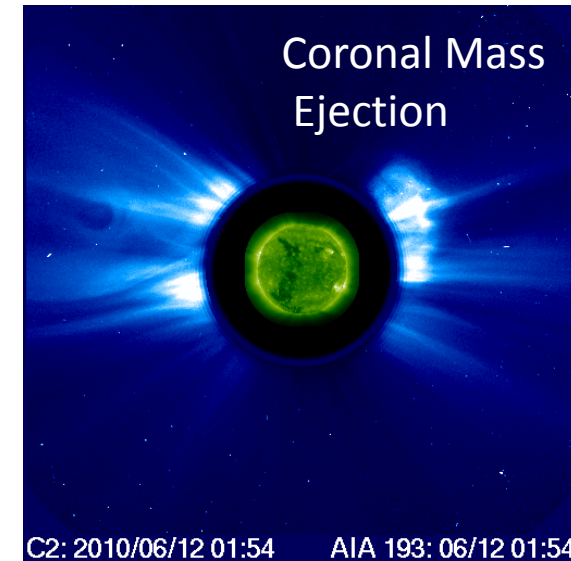
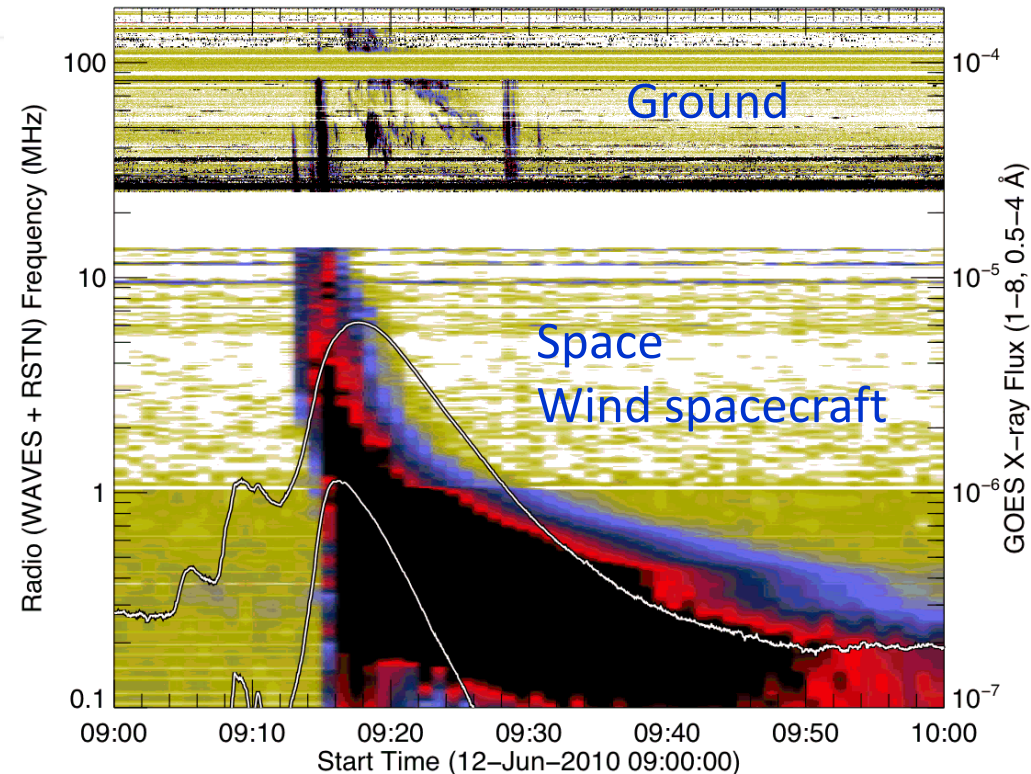
Research & Community

Collaboration

- Deploy radio telescope
- Train on space data
- Scientific collaboration to enhance science return

Capacity Building in Space
Weather:
Study using Ground-based
and Space-based Data

International Data Analysis Workshop on Coronal Mass Ejections and Solar Radio Bursts: Coronal and Interplanetary Shocks



SOHO/SDO Image

Feb 19-25, 2017

SCOSTEP Visiting Scholar Program

- Launched in 2015
- 10 scholar have already benefited in 2015 and 2016
- Application process underway for 2017



Ms. Sneha A. Gokani
(India)
South African Space Agency



Dr. Olawale Segun Bolaji
(Nigeria)
University of Science and
Technology of China



Dr. K. Sasikumar Raja
(India)
MUSER, China



Dr. S. G. Sumod
(India)
Nagoya University Japan

2016 SCOSTEP Awards



SCOSTEP Distinguished Scientists with SCOSTEP Executives

There were excellent nominations for Distinguished Scientist Awards. SCOSTEP Awards committee finalized the following scientists:

Professor Dr. Sami Solanki (Germany)
Distinguished Scientist



Dr. Nicholas Michael Pedatella, USA
Distinguished Young Scientist

Dr. Brent Carter, Australia
Distinguished Young Scientist



Dr. Xin Cheng, China
Honorable Mention

Quarterly update on the VarSITI program and developments in Solar Terrestrial Physics



VarSITI Newsletter
Vol. 10, July 2016

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Project ROSMIC

Article 1:

ROSMIC's Coupling by Dynamics-Working Group

¹Erdal Yiğit, ²Takuji Nakamura and ³Claudia Stolle
¹Department of Physics and Astronomy, George Mason University, USA
²National Institute of Polar Research, Japan
³Helmholtz Centre Potsdam, Germany

Erdal Yiğit

Takuji Nakamura

Claudia Stolle

Volume 11 (November 2016)
Volume 10 (July 2016)
Volume 9 (April 2016)
Volume 8 (January 2016)

archived at varsiti.org

Future Directions in Solar Terrestrial Physics

- SCOSTEP has initiated an effort to develop community consensus in defining its future activities based on surveys of

(i) Current status

(ii) Knowledge gaps

(iii) Future directions in observations and modeling to fill the gaps

- Community leaders have been identified to lead the effort
- Final discussion will be held at the International Space Science Institute in Bern, Switzerland in 2018
- Successor to the current VarSITI