SCOSTEP/ISWI International School on Space Science

Instituto Geofísico del Perú, Lima, Peru
September 15-23, 2014
Introduction

• The SCOSTEP/ISWI International School on Space Science, sponsored by the Scientific Committee on Solar-Terrestrial Physics (SCOSTEP) and the International Space Weather Initiative (ISWI) took place between September 15 to 24, 2014. The school was held at the headquarters of the Instituto Geofísico del Perú (IGP) that is located in the city of Lima, Peru.

• The School covered topics ranging from the solar interior to the impact of the solar variability on the terrestrial space environment including the effects on the magnetosphere, ionosphere, and upper atmosphere. Space weather and Earth’s climate were also topics of the School.
Organizers

• **School Directors**
  - Dr. Nat Gopalswamy (NASA, USA)
  - Dr. Marco Milla (IGP, Peru)
  - Dr. Abraham Chian (INPE, Brazil)

• **Local Organizing Committee**
  - Dr. Marco Milla (IGP)
  - Dr. Danny Scipión (IGP)
  - Shermely Moyna (Ciencia Internacional)
  - Pierina Morales (IGP)

• **Local Support Group**

  María Villaverde, Daniel Suárez, Lucy Yupanqui, Juan Carlos Espinoza, Julio Balbin, José Gamboa, Percy Condor.
Participation

- We had 42 students in total coming from different countries (mainly from Latin America).
  Argentina 3, Brazil 15, Chile 2, Colombia 3, Mexico 3, Peru 13, Spain 1, Uruguay 1, USA 1.
- All foreign students received financial support to participate in the School.
- We had 20 professors coming from different international institutions.
Lectures 1

1. Sun in the Universe  
   Jose Valdes-Galicia, Universidad Nacional Autónoma de México (UNAM), Mexico

2. Plasma Physics  
   Abraham Chian, Instituto Nacional de Pesquisas Espaciais (INPE), Brazil

3. Magnetohydrodynamics  
   Daniel Gomez, Universidad de Buenos Aires, Argentina

4. Numerical Simulation in Space Plasmas  
   Joerg Buechner, Max Planck Institute for Solar System Research, Germany

5. Solar Interior  
   Phil Scherrer, Stanford University, USA

6. Solar Dynamo  
   Mark Miesch, High Altitude Observatory, NCAR, USA

7. Solar Atmosphere  
   Mark Miesch, High Altitude Observatory, NCAR, USA

8. Solar Wind  
   Adolfo Vinas, NASA/GSFC, USA
Lectures 2

9. Sun and Climate
   Sami Solanki, Max Planck Institute for Solar System Research, Germany

10. Solar Eruptions
    Nat Gopalswamy, NASA/GSFC, USA

11. Solar Energetic Particles, Radio Imaging
    Dalmiro Maia, University of Porto, Portugal

12. Nonlinear Plasma Physics
    Juan Valdivia, Universidad de Chile, Chile

13. Magnetospheric Physics
    Nikolai Ostgaard, University of Bergen, Norway

14. Plasmas of the magnetosphere
    Joe Borovsky, Space Science Institute, USA

15. Magnetosphere-solar wind interaction
    Joe Borovsky, Space Science Institute, USA

16. Atmospheric Physics
    John Meriwether, Clemson University, USA
Lectures 3

17. Ionospheric Physics  
   Cesar Valladares, Boston College, USA

18. Equatorial Aeronomy  
   David Hysell, Cornell University, USA

19. Space Weather  
   Christine Amory-Mazaudier, Laboratoire de Physique des Plasmas (LPP), France

20. Magnetosphere-Ionosphere Coupling  
   Akimasa Yoshikawa, Kyushu University, Japan

21. Magnetic reconnection and Space weather  
   Cesar La Hoz, The Arctic University of Norway, Norway

22. Global Warming  
   John Meriwether, Clemson University, USA
Instrument Workshop at JRO

1. Jicamarca Radio Observatory
   Marco Milla, Instituto Geofisico del Peru (IGP), Peru

2. SID and AWSOME
   Deborah Scherrer, Stanford University, USA

3. CALLISTO
   Nat Gopalswamy, NASA/GSFC, USA
ISSS students and professors visited the Jicamarca Radio Observatory on September 20, 2014. The instrument workshop was organized as part of this visit. The participants had the opportunity to learn about the Jicamarca radar and its components. The same day, we had our group lunch in a restaurant nearby the observatory.
Organizing Institutions & Sponsors

International: SCOSTEP, ISWI, NSF
Peru: IGP, Ciencia Internacional, CONCYTEC
School webpage

School material (including lectures) available at the next link.

http://jro-app.igp.gob.pe/x_colage/internationalschool.html
Some pictures 1
Some pictures 2