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.

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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.

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Participation

- We had 42 students in total coming from different countries (mainly form 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.

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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

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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

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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

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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

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Visit to Jicamarca

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.

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Organizing Institutions & Sponsors

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

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School webpage

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

http://jro-app.igp.gob.pe/x_colage/internationalschool.html

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Some pictures 1

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Some pictures 2

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