

SCOSTEP/ISWI School Nairobi, Kenya

Oct 21-Nov 1, 2013



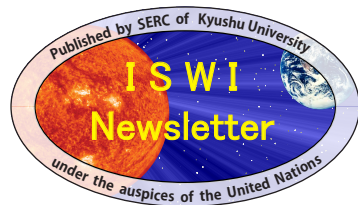
Nat Gopalswamy and Paul Baki

Organizers

- **School Directors:**
 - Nat Gopalswamy (SCOSTEP)
 - Paul Baki (Technical University of Kenya)
- **The Local Organizing Committee:**
 - Paul Baki (Technical University of Kenya)
 - Andrew Oduor (Maseno University)
 - Harrison Amwayi (Technical University of Kenya)
- **Teacher Workshop:**
 - Deborah Scherrer (Stanford University)

International Advisory Committee

- Dr. Sharafat Gadimova (UNOOSA)
- Professor K. Yumoto (Japan)
- Dr. Madhulika Guhathakurta (NASA)
- Professor Marius Potgieter (South Africa)
- Dr. Nicole Vilmer (France)
- Professor Vafi Doumbia (Cote D'Ivoire)



This 28-page pdf was
circulated in
Volume 5, Number 121,
on 29 November 2013.

Lectures

- Sun in the Universe (Legesse Kebede, Ethiopia)
- Solar Interior (Jesper Schou, Germany)
- Solar Dynamo (Mark Miesch, USA)
- Solar Atmosphere and Solar Wind (John Raymond, USA)
- Solar Flares and Coronal Mass ejections (Nat Gopalswamy, USA)
- Energetic Particles from the Sun (Dalmiro Maia, Portugal)
- Cosmic Rays, Cosmic Rays and climate (Nadir O. Hashim, Kenya)
- Space weather & Dynamos (Christine Amory Mazaudier, France)
- Solar wind-magnetosphere-ionosphere System (Nikolai Ostgaard, Norway)
- Sudden Ionospheric Disturbance (Deborah Scherrer, USA)

Lectures...

- Basic Ionospheric Physics (Paul Baki, Kenya)
- Ionosphere and GNSS (Florence D'Ujanga, Uganda)
- Equatorial Ionosphere (Babatunde Rabiou, Nigeria)
- Data Processing in Ionospheric Studies (Andrew Akala, Nigeria)
- Atmospheric Physics (F.-J. Luebken, Germany)
- Data Analysis techniques (Farzad Kamalabadi, USA)
- Sun and Climate (Chris Oludhe, Kenya)

Participants

- There were 39 students from 7 countries (Ethiopia, Kenya, Uganda, Tanzania, Rwanda, Malawi and Nigeria) and 17 lecturers from 9 countries (Ethiopia, Germany, USA, Portugal, Kenya, France, Norway, Uganda, Nigeria)
- High School students from Brookhouse School learned about Space Situational Awareness and Space Weather
- The teacher workshop had 20 participants from Kenya

Other Activities

- Teacher workshop (Deborah Scherrer)
- Instrument workshop (D. Maia, C. Monstein, C. Amory – Mazaudier, N. Gopalswamy, B. Rabiou, D. Scherrer)
- Public lecture to high school students on Space Situational Awareness and Space Weather (D. Maia)
- All lectures were followed by hands-on exercises
- Discussion on SCOSTEP's VarSITI program (N. Gopalswamy) and VarSITI's ROSMIC program (F.-J. Luebken)
- Discussion on the Participation of African countries in international organizations such as SCOSTEP, ISWI, ILWS
- Discussion on African Geophysical Society (B. Rabiou)
- Participant Seminars

SPONSORS

- Scientific Committee on Solar-Terrestrial Physics (SCOSTEP)
- International Council for Science (ICSU)
- International Space Weather Initiative (ISWI)
- Committee on Space Research (COSPAR)
- Technical University of Kenya
- International Committee on GNSS (ICG), UNOOSA
- Japan Society for the Promotion of Science (JSPS)
- International Center for Space Weather Science and Education, Kyushu University, Japan
- National Space Research and Development Agency, Nigeria
- Several lecturers spent their own funds to get to the school

Assessment by the Participants

ISWI/SCOSTEP SPACE SCIENCE SCHOOL

October 21- November 1, 2013

Nairobi, Kenya

Assessment Questionnaire

Please assess the following activities by ticking appropriate responses on the following scale:

1 - Excellent

2 - Good

3 - Average

4 - Poor

	Activity	1	2	3	4	Total
1.	Delivery of the lectures	16	13	0	0	29
2.	The usage of multimedia system	10	17	5	0	32
3.	Participants participation	14	15	9	0	38
4.	Knowledge transfer	15	14	9	0	38
5.	Lecturer's overall performance	15	16	0	0	31
6.	Time management	14	10	3	0	27
7.	Meals	11	14	11	1	37
8.	Tea break	19	10	0	0	29
9.	Local Transportation	13	9	5	0	27
	average	14	13	5	0	32

Some pictures that captured the
School moments

Inauguration by Prof. Dr. Francis O. Aduol
Vice Chancellor, KTU

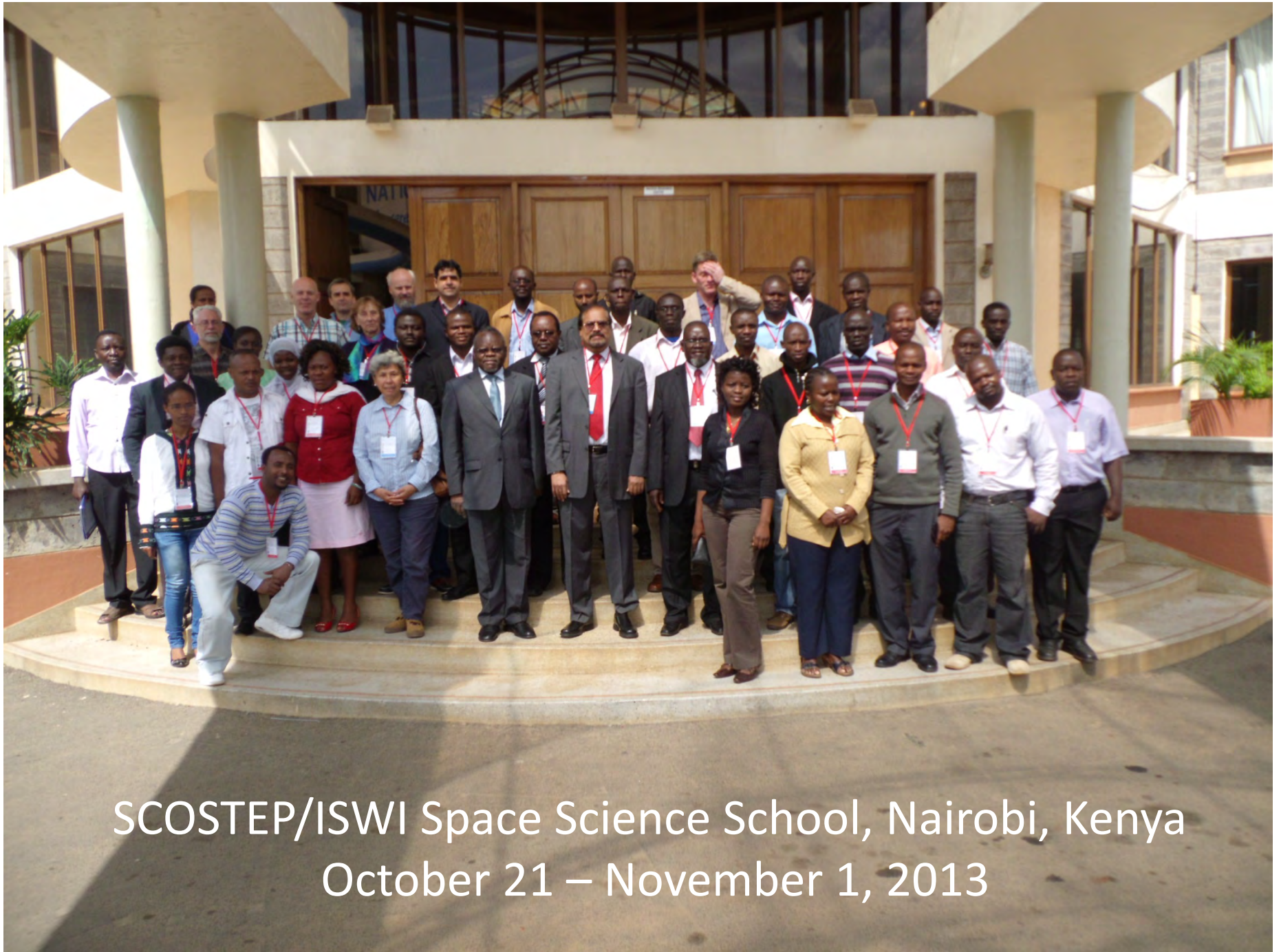




School Directors with the Vice Chancellor (left)

Opening session: C. Amory-Mazaudier addressing the audience





SCOSTEP/ISWI Space Science School, Nairobi, Kenya
October 21 – November 1, 2013



Another group of lecturers and students



Discussion



Interaction during coffee break





Paul Baki teaching basis ionospheric physics



Babatunde Rabiú talking about equatorial ionosphere



Andrew Akala talking about data analysis





Franz-Josef Luebken explaining
atmospheric Physics

An attentive class



Colette Abimana gave a seminar on "Advances of Space Science in Rwanda"



Teachers Workshop

- The teachers workshop is to engage participants in hands-on activities so they can teach more effectively
- The teacher workshop on solar terrestrial relationship was combined with the astronomy teaching conducted by NASE (Network for Astronomy School Education). This is an activity by IAU Commission 46
<http://www.iau.org/education/commission46/nase/>
- There were about 20 participants in the teacher workshop

Debbie Scherrer explains
how to make a spectrograph
during the teacher workshop





Dalmiro Maia with High School students