

ISWI Steering Committee Meeting 2019  
Conference Room C2, 7th floor, C-building  
Vienna International Centre (VIC), Vienna Austria  
9 AM to 6 PM, February 14, 2019

Agenda

1. Introduction & Report (Nat Gopalswamy, Chair)
2. Secretariat update (Schools/Workshops: P. Doherty; Newsletter: G. Maeda; Website: D. Danov/K. Georgieva)
3. Steering Committee update; SC member remarks
4. ISWI National Coordinators (Report by Christine Amory; committee members)
5. ISWI Instruments update (Shing Fung)
6. Data Subcommittee Report (Shing Fung)
7. ISWI – UNOOSA Collaboration (Sharafat Gadimova)
8. Expert Group update (Ian Mann)
9. ISWI/NASA report (Jim Spann, NASA HQ)
10. ISWI Workshop in Trieste supported by ICTP, UNOOSA (Nat Gopalswamy, Patricia Doherty, Sharafat Gadimova)
11. SunGeo Special Issue (Shing Fung)
12. VarSITI Report Katya Georgieva
13. COSPAR Coordination (Masha Kuznetsova/Jim Spann)
14. National/Regional Coordinator reports
15. Any other business

# Attendance

- 10 out of 18 Steering Committee members attended
- Apologies:

Keith Groves

Lika Guhathakurta

Terry Onsager

Jean-Pierre Raulin

Kazunari Shibata

Akimasa Yoshikawa

Norbert Jakowski

# Approval of the Agenda

15. ESWW – request from Jean Lilensten

# Main Activities

- Latin American School on Data Analysis and Simulations for Space Physics, April 23-26, 2018, Buenos Aires, Argentina
- COSPAR Capacity Building Workshop in Mekelle (May 21-Jun 1, 2018)
- ISWI School on Space Weather and Global Navigation Satellite Systems (GNSS), Baku, Azerbaijan, 8 – 12 October 2018
- 15th International Symposium on Equatorial Aeronomy (ISEA), Ahmedabad, India during October 22-28, 2018 (co-sponsored)
- ISWI Instrument network: CALLISTO – C. Monstein Retired
- Final Data Policy in place

# Latin American School on Data Analysis and Simulations for Space Physics



<http://www.iafe.uba.ar/colage11/school.html>

July 23-26, 2018  
School of Sciences, University of Buenos Aires,  
Argentina

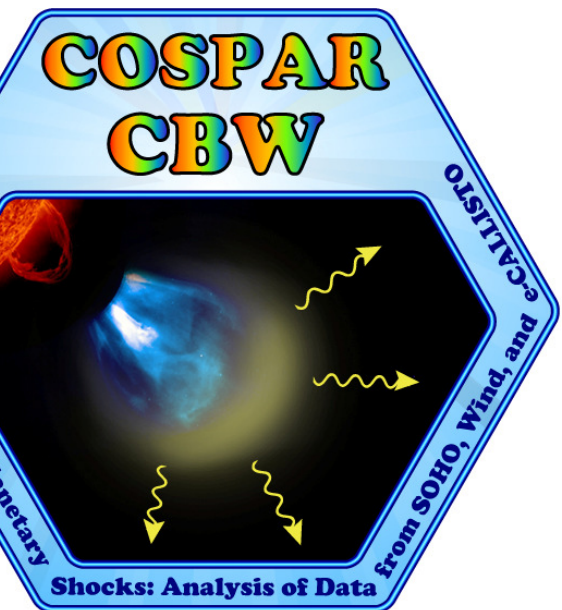
## Lecturers and Topics

- *Planetary Magnetospheres*, Dr. Frances Bagenal (University of Colorado, USA)
- *Particle acceleration and shocks*, Dr. David Ruffolo (Mahidol University, Thailand)
- *Turbulence in the Solar Wind*, Dr. William H. Matthaeus (University of Delaware, USA)
- *Space Weather*, Dr. Clezio DeNardin (INPE, Brasil)
- *Solar and Heliospheric Physics*, Fouad Sahraoui (Ecole Polytechnique, France)

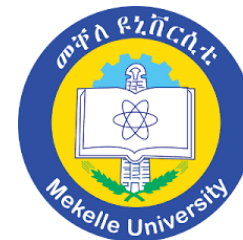
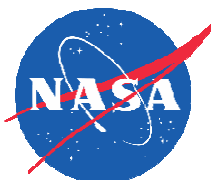
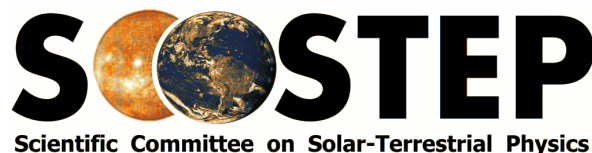
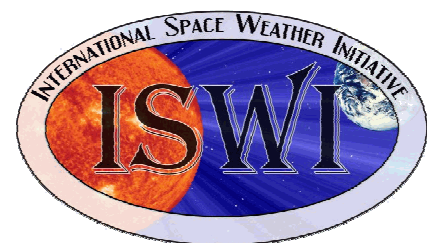
Supported by ISWI

Link to lecturer presentations:  
<http://bit.ly/COLAGE2018School>

# COSPAR Capacity Building Workshop on Shock Waves from the Sun **May 21 - June 1, 2018, Mekelle, Ethiopia**



- The main objective of the COSPAR Capacity-Building Workshops is to encourage the scientific use of space data by scientists in developing countries.
- The Mekelle workshop involved analysis of data from SOHO, STEREO, ACE, Wind missions in conjunction with ground based radio data from ISWI instruments
- 35 PhD/Masters students from Ethiopia, Kenya, Nigeria, India, Nepal, Rwanda, Srilanka
- Lecturers from Ethiopia, Greece, India, Italy, Switzerland, USA (lectures, hands-on activities, data analysis)





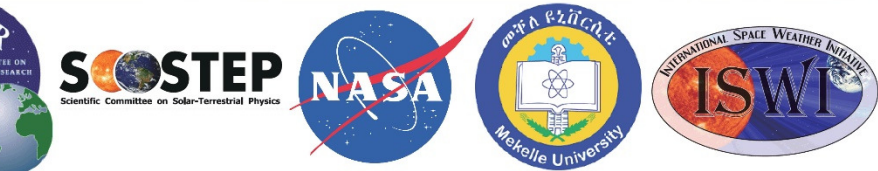
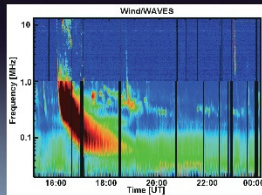
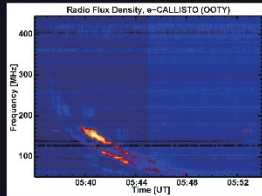
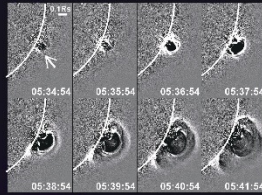
# Coronal and Interplanetary Shocks: Analysis of Data from SOHO, Wind, and e-CALLISTO

20 - June 1, 2018

Mekelle Univ.  
(Mekelle, Tigray, Ethiopia)

SOC: G. Abraha, N. Gopalswamy, M. Mendez, C. Monstein,  
P. Mäkelä, S. Yashiro, C. Kathiravan, and A. Nindos  
LOC: T. B. Teklu, G. Haileslasie, W. Gebretsadkan, A. Haftu  
A. Hagos

<http://e-callisto.org/cospar2018/COSPAR2018workshopEthiopia.html>



<http://cosparhq.cnes.fr/events/cb-workshops>



<http://www.sdf.gov.az/conferences/iswischool2018/>

# ISWI School 2018



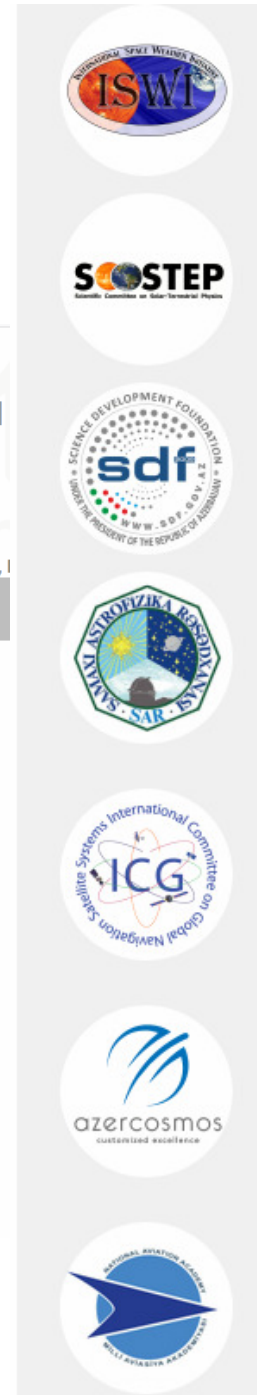
The International Space Weather Initiative School  
**Space Weather &  
Global Navigation Satellite Systems**  
8 – 12 October 2018, Baku, Azerbaijan

Welcome to ISWI Baku School 2018!

**The International Space Weather Initiative School on  
Space Weather and Global Navigation Satellite Systems**  
8–12 October 2018, Baku, Azerbaijan

The International Space Weather Initiative (ISWI) School on Space Weather (SW) and Global Navigation Satellite Systems (GNSS) will be held in Baku, Azerbaijan, on 8 – 12 October 2018.

The School will be an excellent learning and enrichment opportunity for scientists and graduate students from Asia and Eastern Europe. **The purpose of the School** is to advance the topics of Space Weather and Global Navigation Satellite Systems to scientists, engineers and graduate level students, who are pursuing doctorate (PhD) in solar physics, space science and engineering. Some Masters level students, who have already some exposures in solar/space physics may also apply. **Some financial assistance** will be provided to students and scientists attending the school. The co-sponsors of the ISWI School will jointly select participants on a competitive basis.



## The Lectures of School

Solar Physics;  
Sun-Earth connection;  
Transient Disturbances from the Sun  
(Coronal mass ejections (CMEs), Flares, Energetic Particles);  
Solar wind, Magnetic reconnection, Dynamo theory;  
Solar energetic particles;  
Ionosphere, Ionosphere irregularities  
Ionosphere modeling;  
Magnetosphere/Ionosphere coupling  
Space Weather and its effects on society  
Introduction to GNSS;  
GNSS systems and signals;  
GNSS applications affected by Space Weather;  
Space Physics and Space Plasma;  
Solar Activity and Climate Changes;  
Solar and Geomagnetic Activity effects on modern society;  
Helioseismology;  
Nano-satellites and Space debris;  
**Hands on:** Solar eruptions and Using the database: [cdaw.gsfc.nasa.gov](http://cdaw.gsfc.nasa.gov/);

**Technical tours** to Shamakhy Astrophysical Observatory, ANAS, “AzerCosmos” JSCo and National Aviation Academy.

Presentations available:

<http://www.sdf.gov.az/conferences/iswischool2018/?page=notes>



# Hosts



Local Hosts: Drs. Namig DZHALILOV and Elchin BABAYEV

**School directors:** Nat Gopalswamy, Patricia H. Doherty, Sharafat Gadimova Elchin Babayev

0 Students from 16 countries; 21 lecturers from 9 countries





## 2. Secretariat Update

Nat Gopalswamy *Executive Director*  
George Maeda *Newsletter Editor*  
Katya Georgieva/Mitko Danov *Webmaster*  
Sharafat Gadimova *UN Liaison*  
Pat Doherty *Workshop Coordinator*  
Shing Fung *Data Coordinator*



*Steering Com*

C Amory-Mazaudier S Gadimova K Geo  
J A Gonzalez Esparza N Gopals  
K Groves M Guhathakurta N Jakowski  
R Marshall C Monstein T Onsager B  
J-P Raulin K Shibata E Talaat C  
A Yosh

# Changes

- Christian Monstein Retired
- Marina Battaglia will be the new Swiss coordinator
- Also European Coordinator?
- Need an ESA S/C member?
- Any other?



# 14 Newsletter issues in 2019

522 subscribers



Editor – George Maeda  
Kyushu Institute of Technology  
Kitakyushu, JAPAN

Contents can be downloaded from [iswi-secretariat.org](http://iswi-secretariat.org)





## About ISWI Newsletter:

It is scheduled to be published throughout the ISWI period, 2010 through 2012, by SERC (Space Environment Research Center) of Kyushu University, Japan. The publisher is Professor K. Yumoto (also Director of SERC) and the editor is George Maeda, who is a member of his SERC staff. This newsletter was requested by Prof. Hans Haubold (United Nations Program on Space Applications) (click [here](#) UN PSA archive). His letter is a beautifully concise statement about the mission of ISWI - where it came from and where it is to go.



Read more [about this Newsletter](#)

The number of subscribers is **525** (Dec 10, 2018) ([details](#)).  
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# ISWI

(International Space Weather Initiative)

# Newsletter

published by *ICSWSE*  
(Kyushu University, Japan) under the  
auspices of the *United Nations*



**Four issues of the Newsletter were published in 2009. [See the list](#)**

**One hundred and nine issues of the Newsletter were published in 2010 [See the list](#)**

**One hundred ten issues of the Newsletter were published in 2011. [See the list](#)**

**Hundred thirty-one issues of the Newsletter were published in 2012. [See the list](#)**

**One hundred twenty-six issues of the Newsletter were published in 2013 [See the list](#)**

**Forty-eight issues of the Newsletter have been published in 2014. [See the list](#)**

**Nineteen issues of the Newsletter was published in 2015. [See the list](#)**

**Twenty issues of the Newsletter was published in 2016. [See the list](#)**

**Seventeen issues of the Newsletter was published in 2017. [See the list](#)**

**Fourteen+ issues of the Newsletter was published in 2018. [See the list](#)**

**Two issues of the Newsletter are published in 2019. [See the list](#)**

# Web Site Update

The ISWI web site is hosted by Bulgarian Academy of Sciences under the leadership of Katya Georgieva (Steering Committee member)

Webmaster: Mitko Danov, Space Research and Technology Institute, Bulgarian Academy of Sciences

A presentation on the web site and the Newsletter can be found in [Annexure 0](#)



Katya Georgieva



Mitko Danov

# 3. SC Member Comments

## 4. ISWI National Coordinators (Report by Christine Amory)



# Puerto Rico

- **ARECIBO Observatory Puerto Rico: Request to be part of ISWI (from Alessandra Abe Pacini)**
- I'm a Space Physicist working at the APL/JHU (Maryland- SA) and now as a visiting scientist at Arecibo Observatory (AO), Puerto Rico.
- Since my background is in Solar Radio Physics (I started my career in Brazil, in the Pierre Kaufmann's group, then I went to INPE for my first PhD), I'm interested in starting some Solar Radio Observations here at the AO. After discussing that with the Director of the Arecibo's Space and Atmospheric Dept, Dr. Christiano Brum (who is cc'ed in this message), we decided to talk to you about the possible implementation of the Callisto instruments here at the AO. Could you please send us a quotation and explanation of how it would work if we have one of your receivers here?
- **Action: Americo Gonzalez-Esparza to contact Alessandra and confirm her and Dr. Brum could be ISWI coordinators for Puerto Rico**

# 5. ISWI Instruments update (Shing Fung)

- Total number of ISWI instruments: 19

# 6. Data Subcommittee Report (Shing Fung)

# 7. ISWI – UNOOSA Collaboration (Sharafat Gadimova)



## 8. Expert Group update (Ian Mann)

# 9. ISWI/NASA report: Jim Spann

# 10. ICTP Workshop on ISWI in Trieste (Patricia Doherty)

# 11. SunGeo Special Issue (Shing Fung)

- **Special Issue:** "The Decade after the International Heliophysical Year 2007" based on UN/USA workshop, Boston College, Boston, US, July 31÷ August 4, 2017
- 9 papers + Editorial Appreciation
- *Guest Editors: Shing F. Fung, D. Webb, Manju Gopalapillai*

# 12. VarSITI Report Katya Georgieva

- Details in [Annexure](#)

# 13. COSPAR Coordination (M Kuznetsova/ J Spann)



# 14. National/Regional Coordinator reports

## ISWI REPORTS of Coordinators

ASIA

Richard Marshall for Asian ISWI coordinator will present slides for different national coordinators

AFRICA

Godwin Rabiou for some coordinators of African countries

- Nigeria
- Egypt => African Geophysical Society
- Other African countries

Christine Amory-Mazaudier will present reports of the following African coordinators

(slides for each country)

- Burkina Faso => Frédéric Ouattara
- Côte d'Ivoire => Vafi Doumbia
- Cameroon => Cesar M'Bane
- DRC => Bruno Kahindo
- Senegal => Idrissa Gaye
- RC => Bienvenu Dinga
- Morocco => Aziza Bounhir
- Algeria => Naima Zaourar

## Europe

Christian Monstein the ISWI coordinator for Europe will work only on the Callisto network

Report - Slovakia => Ivan Dorotovic (report sent)

Report - Portugal => Teresa Barata (report sent)

Report - Switzerland => Christian Monstein (report sent)

Report - Sweden => Hermann Opgenoorth will present

Report - Austria => Manuela Temmer will present

Report-Greece => Anna Belehaki (report sent)

Report Italy => Vincenzo Romano will present

Few slides (~ 10 ) for each report

## AMERICA

J. Americo Gonzales will not participate to the next ISWI meeting he will send reports

Report -Argentina

Report-Brazil

Report - Mexico

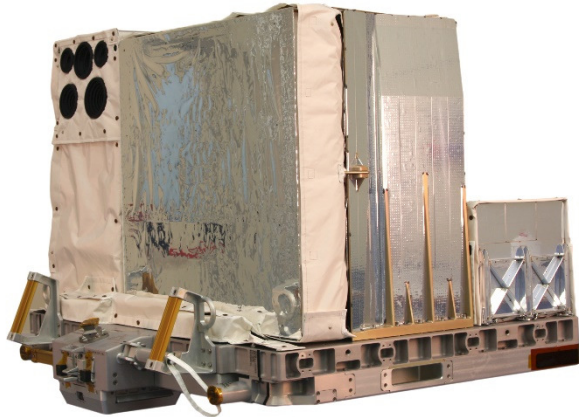
Report - Uruguay

## NEWS

European Space Weather => Jean Lilenstein

Projet ICMP : Michel Blanc and William Liu (report sent)

# Atmosphere-Space Interaction Monitor (ASIM)



Launched April 2, 2018 to ISS, to detect

Lightning

Transient Luminous Events (TLE)

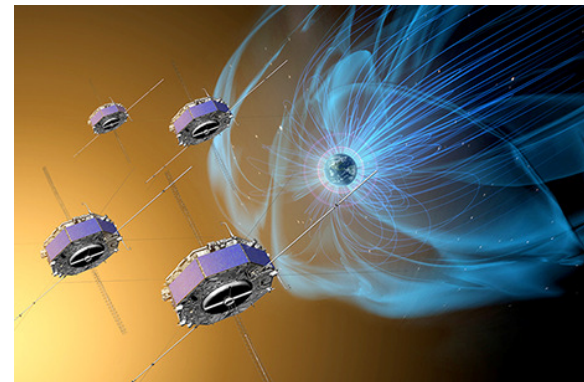
Terrestrial Gamma-Ray flashes (TGF)

First results at AGU fall meeting, 2018

More to come at EGU, 2019



# MMS workshop in Bergen 2018





# AGU Press release – 24 January 2019



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Home / [New study presents surprising explanation for differences in southern and northern lights](#)

## NEW STUDY PRESENTS SURPRISING EXPLANATION FOR DIFFERENCES IN SOUTHERN AND NORTHERN LIGHTS

24 January 2019

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Joint Release

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WASHINGTON — For many years, scientists assumed the aurora seen around the north pole was identical to the aurora seen around the south pole. The poles are connected by magnetic field lines and auroral displays are caused by charged particles streaming along these field lines. Because the charged particles follow these field lines, it would make sense that the auroras would be mirror images of each other.

However, in 2009, scientists discovered aurora can look differently around the north pole and the south pole, including having different shapes and occurring at different locations – a phenomenon called asymmetry.

Now, a **new study** in the *Journal of Geophysical Research: Space Physics*, a publication of the American Geophysical Union, explains how this asymmetry comes about and causes the differences in auroral displays near Earth's poles. The new research finds the differences in aurora are likely caused by squeezing of Earth's



### Resources

- [Fall Meeting Media Center](#)
- [Ocean Sciences Media Center](#)
- [Journalism Awards](#)
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**Joshua Speiser**  
Manager, Strategic Communications

# 2020 Activities

- UN/India Workshop on ISWI
- Schools requested in Uganda, Portugal, Nepal
- Workshop requested in Morocco
- C. Amory: Francophone schools



# 15. Any Other Business?

- ESWW