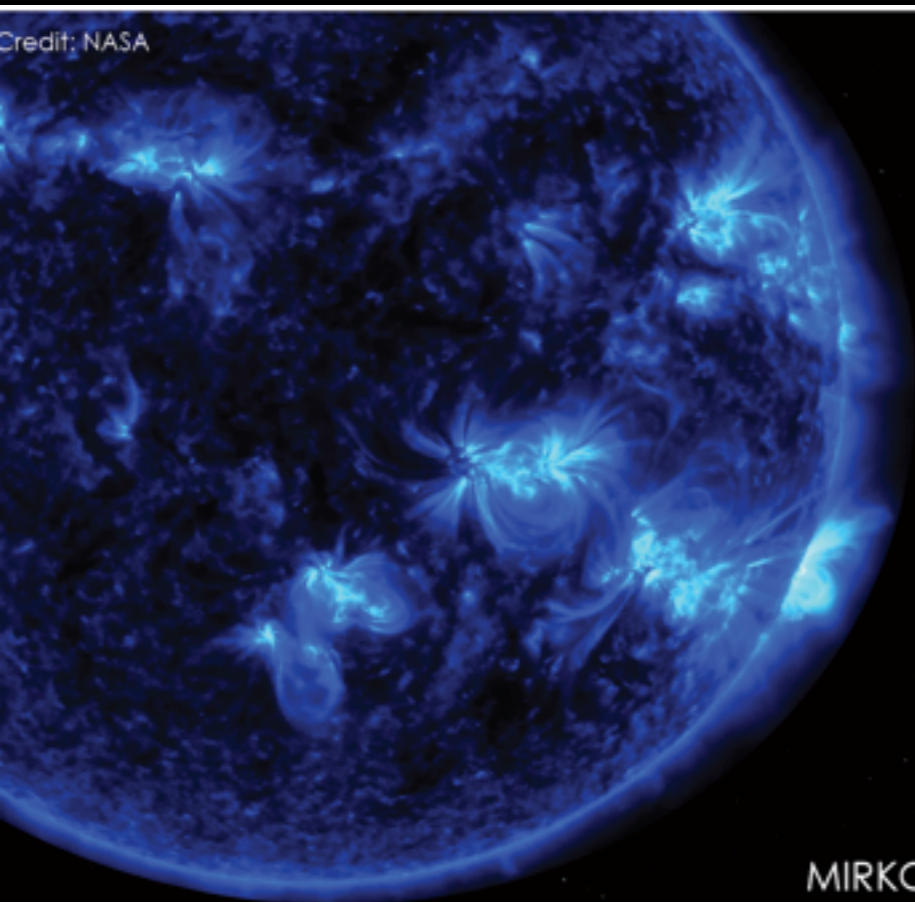


Credit: NASA



# SOLAR ENERGETIC PARTICLES SOLAR MODULATION AND SPACE RADIATION

*NEW OPPORTUNITIES IN THE AMS-02 ERA #2*

APRIL 24 - 26, 2017

HYATT ARLINGTON - WASHINGTON DC

## ORGANIZER

VERONICA BINDI

UNIVERSITY OF HAWAII AT MĀNOA

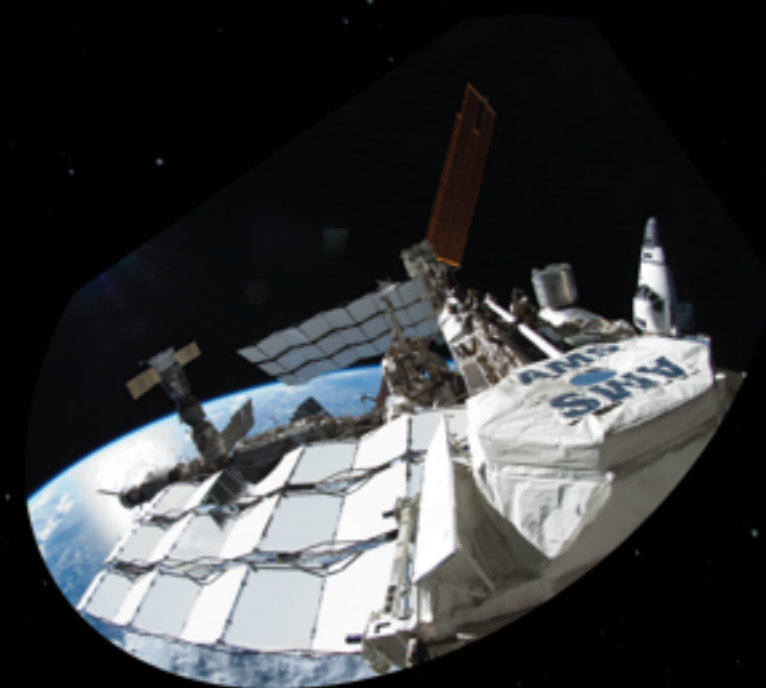
## COMMITTEE

MIRKO BOEZIO INFN TRIESTE - CRISTINA CONSOLANDI UH MANOA

MARTIN A LEE UNH - JOHN NORBURY NASA LRC

MARIUS POTGIETER NWU - EDDIE SEMONES NASA JSC

ALLAN TYLKA NASA GSFC - ILYA USOSKIN U OULU



SOLAR ENERGETIC PARTICLES - SOLAR OBSERVATIONS - SOLAR FLARES AND CORONAL MASS EJECTIONS -  
SOLAR MODULATION OF GALACTIC COSMIC RAYS - COSMIC RAYS PROPAGATION IN HELIOSPHERE -  
EARTH'S MAGNETOSPHERE - GEOMAGNETIC CUTOFF - SPACE RADIATION ENVIRONMENT

WEBSITE <http://www.phys.hawaii.edu/ams02/pages/workshop.php>

INFO EMAIL [bindi@hdwail.edu](mailto:bindi@hdwail.edu)

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COLLEGE OF NATURAL SCIENCE



AES



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# Committee, organizers and special support

## Committee:



M. Boezio



M. Lee



J. Norbury,



M. Potgieter



E. Semones



A. Tylka



I. Usoskin

## Organizers:



V. Bindi



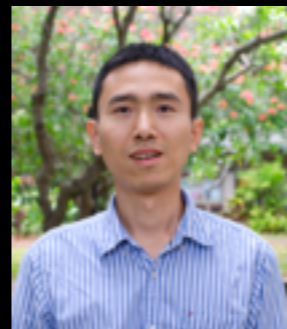
C. Consolandi



C. Corti



C. Light



X. Luo



M. Palermo



A. Popkow



K. Whitman

## Support:



M. Kadooka



K. Mertz



S. Rocchi

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10:31pm 57°F / 14°C

HOTEL PHOTOS 

GUEST PHOTOS 

**HYATT CENTRIC ARLINGTON**

1325 Wilson Boulevard  
Arlington, Virginia, USA, 22209  
Tel: +1 703 525 1234

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**FIND RATES + OFFERS**

Arrive

Depart



Thank you John!

# Sponsors



NASA Advanced Exploration Systems JSC



NSF - heliosphysics division



University of Hawaii

# Motivations behind this Workshop

- **SEP acceleration** at high energies and their **propagation** through the heliosphere are not well understood and still a matter of debate.
- **Solar modulation** and transport of **different species of GCRs** inside the heliosphere have been significantly improved, however a lot of work still needs to be done.
- **Space weather** forecast and predictions are still very challenging.
- GCR and SEPs pose a significant **radiation risk for people and technology in space**, thus it is becoming increasingly important to understand the space radiation environment.
- **New manned missions** to Mars and the solar system are receiving increasing attention, not only from the scientific community, but also from society and the media.

# Goals of the workshop

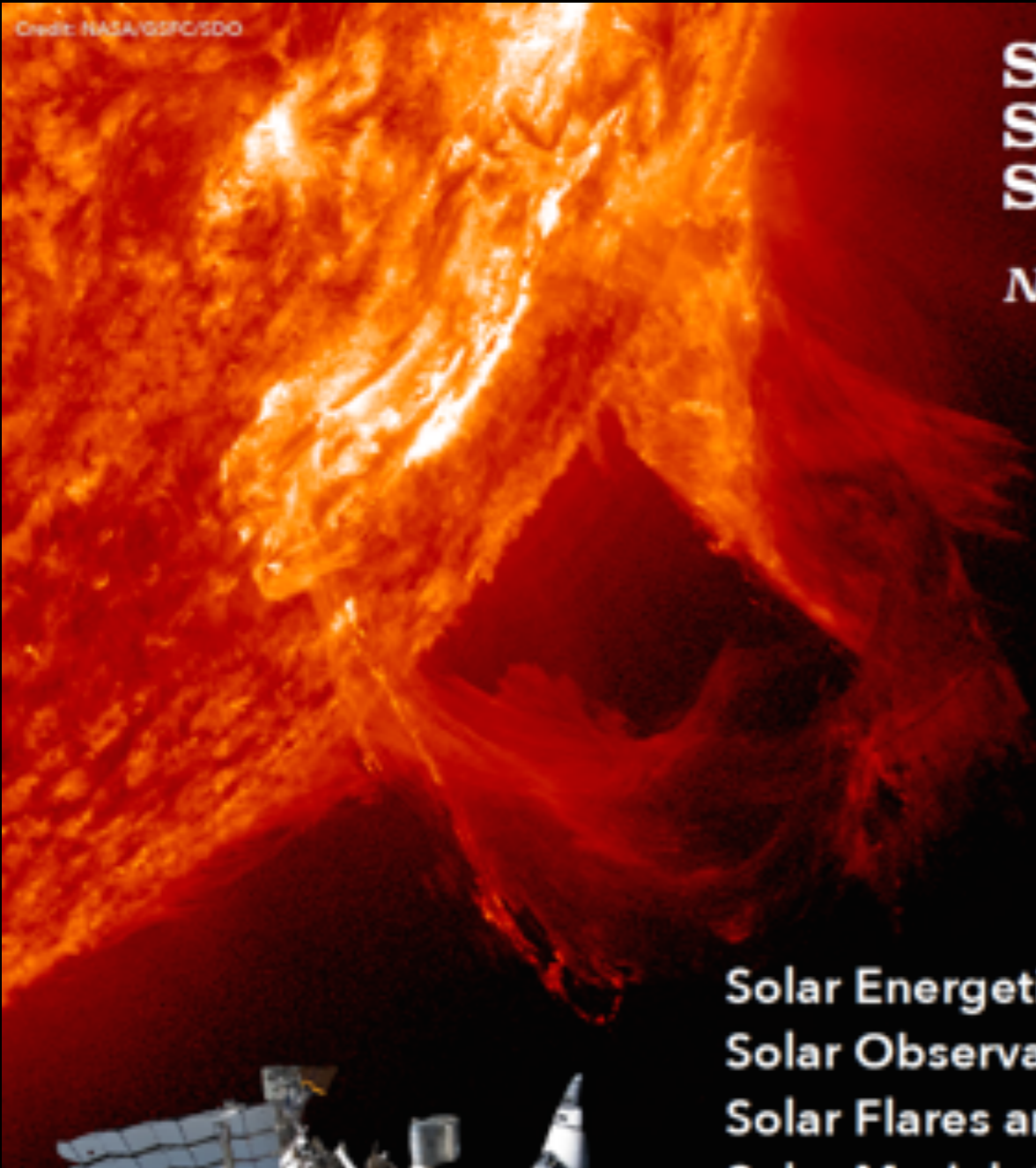
- Facilitate interactions and strengthen collaborations between the fields of **heliophysics, astroparticles and space radiation.**
- Foster a deeper understanding within each discipline by sharing knowledge across fields.
- Provide an opportunity to contribute to science across fields in an unanticipated way, as is often the case preceding new discoveries.
- Strengthen the connections and build new links among experts in these fields.



# First edition of the workshop



Credit: NASA/GSFC/SDO



## **SOLAR ENERGETIC PARTICLES SOLAR MODULATION AND SPACE RADIATION**

*NEW OPPORTUNITIES IN THE AMS-02 ERA*



**OCTOBER 18 - 24, 2015  
HONOLULU, HAWAII**

<https://indico.cern.ch/event/390724/>

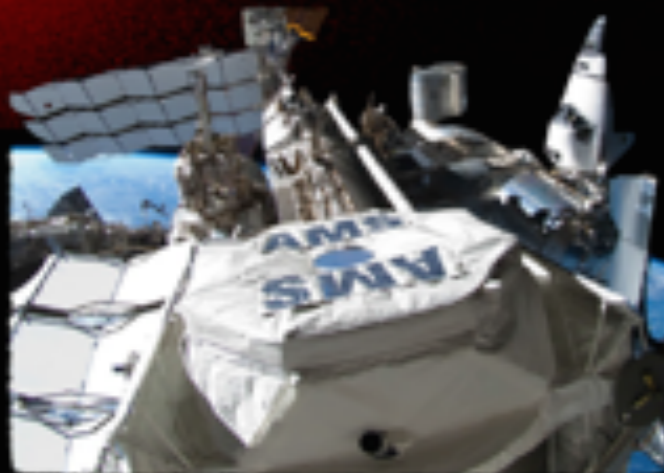
### **Committee**

*Mirko Boezio  
Martin A Lee  
Marius Potgieter  
Eddie Semones  
Allan Tylka  
Ilya Usoskin*

### **Local Organizer**

*Veronica Bindi*

**Solar Energetic Particles  
Solar Observations  
Solar Flares and Coronal Mass Ejections  
Solar Modulation of Galactic Cosmic Rays  
Cosmic Rays Propagation in Heliosphere  
Earth's Magnetosphere  
Geomagnetic Cutoff  
Space Radiation Environment**





# Hawaii October 2015







# Special Issue: *Advances in Space Research*

Accepted 12 papers for publication

Special Issue *Advances in Space Research* Vol 60 , 2017

"Solar Energetic Particles, Solar Modulation and Space Radiation:  
New Opportunities in the AMS-02 Era"

*Peggy and Don send their  
best regards from Maui!  
Aloha!*



**M. Shea**

ASR Co-Editor for  
Special Issues

Let's get started!

Wifi connection

Wifi: Hyatt Arlington Meeting

Pwd: Hyattisthebest

	Chair: V. Bindi	Chair: V. Bindi	Chair: M. Lee
08:30 – 9:00	8:45 - 9:00 Veronica Bindi <i>University of Hawai'i at Manoa</i>	William H. Gerstenmaier <i>NASA Associate Administrator for the Human Exploration And Operations Directorate</i>	Gary Zank <i>University of Alabama in Huntsville</i>
9:00 – 9:30	Daniel Baker <i>University of Colorado Boulder</i>	Donald M. Hassler <i>Southwest Research Institute</i>	Joe Giacalone <i>University of Arizona</i>
9:30 – 10:00	Martin Lee <i>University of New Hampshire</i>	Edward Semones <i>NASA</i> Martha Clowdsley <i>NASA Langley Research Center</i> 45 min total	Nariaki Nitta <i>Lockheed Martin Solar and Astrophysics Laboratory</i>
10:00 – 10:30	J. R. (Randy) Jokipii <i>University of Arizona</i>	10.15 – 10.30 Group Picture	Francis Badavi <i>ODURF</i>
10:30 – 10:45	Coffee Break	Coffee Break	Coffee Break
	Chair: K. Whitman	Chair: M. Boezio	Chair: E. Semones
10:45 – 11:15	Christina Cohen <i>Caltech</i>	Veronica Bindi <i>University of Hawai'i at Manoa</i>	Francis Badavi <i>ODURF</i>
11:15 – 11:45	James Ryan <i>University of New Hampshire</i>	Cristina Consolandi <i>University of Hawai'i at Manoa</i>	John Norbury <i>NASA Langley Research Center</i>
11:45 – 12:15	Eric Christian <i>NASA/GSFC</i>	Kathryn Whitman <i>University of Hawai'i at Manoa / University of Houston</i>	Melissa Pesce Rollins <i>INFN – Pisa</i>
12:15 – 14:00	Lunch	Lunch	Lunch
	Chair: C. Corti	Chair: J. Norbury	Chair: A. Popkow
14:00 – 14:25	Mirko Boezio <i>INFN – Trieste</i>	Zachary Robinson <i>Fifth Gait Technologies, Inc.</i>	Gerald Share <i>University of Maryland</i>
14:25 – 14:50	Riccardo Munini <i>INFN – Trieste</i>	Christopher Mertens <i>NASA Langley Research Center</i>	Haihong Che <i>UMCP/GSFC</i>
14:50 – 15:15	Alessandro Bruno <i>INFN – Bari</i>	Valeriy Tenishev <i>University of Michigan</i>	Suruj Seunarine <i>University of Wisconsin-River Falls</i>
15:15 – 15:40	Marius Potgieter <i>North-West University</i>	Annika Peter <i>Ohio State University</i>	David Alain Maurin <i>Centre National de la Recherche Scientifique</i>
15:40 – 16:00	Coffee Break	Coffee Break	Coffee Break
	Chair: M. Palermo	Chair: C. Consolandi	Chair: C. Light
16:00 – 16:25	Xi Luo <i>North-West University</i>	Tim Linden <i>Ohio State University</i>	Pierre-Simon Mangeard <i>University of Delaware</i>
16:25 – 16:50	Fan Guo <i>Los Alamos National Laboratory</i>	Claudio Corti <i>University of Hawai'i at Manoa</i>	Open Discussion & Meeting Adjourned
16:50 – 17:15	Joel Dahlin <i>NASA GSFC</i>	Patrick Kühl <i>University of Kiel</i>	
17:15 – 17:40		Poster Session	
18:00 – 21:00		Social Dinner	

# Social Dinner

It is still not too late!

If you want to join us for the social dinner please let Silvia know.

**Social dinner first floor Judiciary room**

**6 pm**

# Participants Workshop 2017

- 62 registered participants
- 45 submitted abstracts
- 39 talks
- 7 posters

I am very happy for your participation in this workshop and for being an important part of this community.

***I want to personally thank you all for increasing the quality of this workshop with your participation!***

**Let's make this meeting  
a very fruitful one!**

**We wish you a lovely stay in  
Washington DC!**