

# **Solar Extreme Events: Fundamental Science and Applied Aspects (SEE-2005)**

**International Symposium  
Nor Amberd, Armenia  
26-30 September 2005**

## **Conference Program**

### **Sunday, 25 September**

18:00 - 20:00 Registration at Nor Amberd International Conference Center

### **Monday, 26 September**

Chairperson - **Erwin Flueckiger**

9:00 - 10:00 Registration

10:00-10:20 Opening Ceremony

10:20 -11:00

**Vahe Petrossian**, Stanford University, USA – “Particle Acceleration in Solar Flares”

11:00 – 11:40

**Igor Veselovsky**, Moscow State University, Russia – “Energy and Mass Transports During Extreme Events on the Sun and in the Heliosphere”

11:40 – 12:10 **Coffee break and poster discussion**

12:10 - 12:50

**Ashot Chilingarian**, Cosmic Ray Division of Alikhanian Physics Institute, Armenia – “Aragats Space Environmental Center (ASEC): Space Weather Observatory in Armenia”

12:50 - 13:30

**Vladimir Kuznetsov**, Institute of Terrestrial Magnetism, Russian Academy of Science “CORONAS-F observations of the Sun”

14:00 – 15:00 **Lunch**

15:30 -18:20 **ISTC Session**, Chairperson – **John Bieber**

15:30-15:50

**K.Bunyatov**: International Science & Technology Center – Support of High Energy Astrophysics in Armenia: 1996-2007.

15:50 – 16:10

**V. Babayan** Multivariate Correlation Study of ASEC Monitor’s Data

16:10 – 16:30

**N. Bostandjyan** Can We Estimate Maximal Energy of Accelerated Protons during GLE of 20 January 2005?

16:30– 17:00 **Coffee break and poster discussion**

17:00 – 17:20

**H. Martirosyan** Correlation of the Estimated Arrival Time of the Relativistic Solar Ions at 1 AU and Start of Ground Level Enhancement

17:20– 17:40

**M. Zazyan** Reconstruction of the Energy Spectra of 20 January GLE Using Data from 2 Monitors Located at Same Geographical Coordinates but at Different Altitudes

17:40 – 18:00

**G. Karapetyan** Multidetector Approach for Correlation Study of Solar Transient Events

18:00- 18:20

**A. Yeghikyan** "Data Visualization Interactive Network DVIN for ASEC".

19:00 **Special Event:** Icebreaker + +, Restaurant of YerPhi hotel

## **Tuesday, 27 September**

Chairperson – **Vahe Petrosian**

10:00 -10:40

**Nat Gopalswamy**, NASA/GSFC, USA - “Overview of the October-November 2003 Solar Extreme Eruptions”

10:40 – 11:20

**Erwin Flueckiger**, Physikalisches Institut, University of Bern, Switzerland – “Extreme Events and Super Storms”

11:20 – 12:00 **Coffee break and poster discussion**

12:00 – 12:40

**Michail Panasyuk**, Moscow State University, Russia - “The Radiation Storms in Near Cosmos”

12:40 – 13:20

**Yuri Yermolaev**, Space Research Institute, Russian Academy of Science - “Geoeffectiveness of Solar and Interplanetary Events”

14:00 – 15:00 **Lunch**

15:00 -16:30 Poster Session\*: **Energetic Processes on the Sun during the Extreme Events**

16:30 – 20:00 Excursion to Yerevan

21:00 Meeting of the International Heliophysics Year (IHY) Regional Groups

## Wednesday, 28 September

Chairperson – **Igor Veselovsky**

10:00 -10:40

**John W. Bieber**, University of Delaware, USA – ““Extreme Ground Level Enhancements””

10:40 – 11:20

**Riho Nymmik**, Moscow State University, Russia – “Long-Term Prediction of Solar Extreme Events Based on the General Regularities of Energetic Particle Generation by the Sun”

11:20 – 12:00 **Coffee break and poster discussions**

12:00 – 12:40

**Galina Bazilevskaya**, Lebedev Physics Institute, Russia – “Energy Spectrum of Solar Cosmic Rays”

12:40 – 13:20

**Yuri Stozhkov**, Lebedev Physics Institute, Russia – “Cosmic Rays and the Processes in the Atmosphere”

14:00 – 15:00 **Lunch**

15:00 -16:30 Poster Session\*: **Space Weather**

16:30 – 20:00 Excursion to Echmiadzin, Agarak and Oshakan winery

20:00 **Conference Dinner**, Restaurant of YerPhi hotel

## Thursday, 29 September

Chairperson- **Michael Panasyuk**

10:00 -10:40

**Anatoly Belov**, Institute of Terrestrial Magnetism, Russian Academy of Science – “Cosmic Rays for Space Weather Tasks”

10:40 – 11:20

**Yasushi Muraki**, Kyoto University, Japan – “High Energy Solar Neutrons and Protons Detected on October 28, 2003”

11:20 – 12:00 **Coffee break and poster discussions**

12:00 – 12:40

**Frank Jansen**, University of Greifswald, Germany – “New European Space Weather

Telescope – MuSTAnG.

12:40 – 13:20

**Leonid Lazutin**, Moscow State University, Russia– “On the Storm-Substorm Relation Problem”

14:00 – 15:00 **Lunch**

15:00 -16:30 Poster Session\*: **Magnetospheric Response to the Solar Extreme Events**

17:00 **Closing Ceremony**

21:00 Meeting of the Conference International Board

### **Friday, 30 September**

10:30 –Excursion to Aragats Cosmic Ray Station

14:00 – 15:00 **Lunch**

21:00 – Discussion of the Nor Amberd conclusion for the second World Information Summit (to be held in Tunisia November 2005) on the development of the scientific-information services and networks to warn organizations and individuals on upcoming natural disasters, including violent solar storms.

\* Posters will be presented during the whole conference period in the area where the coffee breaks will be served. The area of 0.5 m (horizontal) 1 m. vertical will be provided for each poster. Please, approach organizing committee if you need more space. The poster session will start with a brief (3-5 min) oral announcement of each poster author.

