



18<sup>th</sup> Workshop on Radiation Monitoring  
for the International Space Station  
*3-5 September 2013, Budapest, Hungary*

# 18<sup>th</sup> Workshop on Radiation Monitoring for the International Space Station

## **WELCOME!**



18<sup>th</sup> Workshop on Radiation Monitoring  
for the International Space Station  
*3-5 September 2013, Budapest, Hungary*

## Tuesday 3<sup>rd</sup> Sept

08:00 - 08:45	Registration
08:45 - 09:15	Welcome
09:15 - 10:00	Introductory Talk
10:00 - 11:00	Coffee/Tea Break
11:00 - 12:30	Scientific Session 1
12:30 - 14:00	Lunch
14:00 - 15:30	Scientific Session 2
15:30 - 16:30	Coffee/Tea Break
16:30 - 18:00	Scientific Session 3



18<sup>th</sup> Workshop on Radiation Monitoring  
for the International Space Station  
*3-5 September 2013, Budapest, Hungary*

## Wednesday 4<sup>th</sup> Sept

08:45 - 10:15	Scientific Session 4
10:15 - 11:15	Coffee/Tea Break
11:15 - 12:45	Scientific Session 5
12:45 - 14:15	Lunch
14:15 - 15:45	Scientific Session 6
15:45 - 16:45	Coffee/Tea Break
16:30 - 18:15	Scientific Session 7
19:00	Workshop dinner



18<sup>th</sup> Workshop on Radiation Monitoring  
for the International Space Station  
*3-5 September 2013, Budapest, Hungary*

## Thursday 5<sup>th</sup> Sept

08:45 - 10:15	Scientific Session 8
10:15 - 11:15	Coffee/Tea Break
11:15 - 12:45	Scientific Session 9
12:45 - 14:15	Lunch
14:15 - 15:45	Scientific Session 10
15:45 - 16:45	Coffee/Tea Break
16:30 - 18:15	Scientific Session 11 (with conclusion and adjourn)





18<sup>th</sup> Workshop on Radiation Monitoring  
for the International Space Station  
*3-5 September 2013, Budapest, Hungary*

---

**Scientific Session 1**

---

**Daniel Matthiä**

Calculation of Radiation Exposure Levels in Low Earth Orbit and Beyond

**Francis Badavi**

Estimates of Cosmic Rays Directional Dose for ISS – Part-II

**Ondrej Ploc**

Estimation of the dominant ion composition in space using the shape of the deposited energy spectra of Liulin type instruments and PHITS simulations



18<sup>th</sup> Workshop on Radiation Monitoring  
for the International Space Station  
*3-5 September 2013, Budapest, Hungary*

---

**Scientific Session 2**

**Hisashi Kitamura** Status Report of the ICCHIBAN projects

**Eric Benton** Ground-based Testing of Bubble Detectors

**Satoshi Kodaira** Long-term dose variations in the ISS Piers-module measured by passive dosimeters



18<sup>th</sup> Workshop on Radiation Monitoring  
for the International Space Station  
3-5 September 2013, Budapest, Hungary

---

Scientific Session 3

*Ramona Gaza*

ISS Radiation Area Monitors  
Measurements at Solar Maximum

*Joe Pálfalvi*

Passive dosimetry in the PIRS module:  
2010-2013

*Péter Szántó*

Pille Measurements on ISS





18<sup>th</sup> Workshop on Radiation Monitoring  
for the International Space Station  
3-5 September 2013, Budapest, Hungary

---

**Scientific Session 4**

*Tsvetan Dachev*

Radiation exposure on BION-M No 1 satellite -  
First results

*Victor Benghin*

Results Of The Radiation Monitoring System  
Measurements On Service Module Of ISS  
During 2009 -2013

*Thomas Berger*

The DOSIS and DOSIS-3D experiments: Long  
term dose monitoring on board the European  
Columbus module of the International Space  
Station (ISS)





18<sup>th</sup> Workshop on Radiation Monitoring  
for the International Space Station  
3-5 September 2013, Budapest, Hungary

---

Scientific Session 5

*Soenke  
Burmeister*

The Dosis And Dosis 3d Experiments Onboard  
The International Space Station – Results  
From The Active Dostel Instruments

*Attila Hirn*

TRITEL measurements on board the  
International Space Station

*Livio Narici*

ALTEA: 2012 radiation measurements in the  
ISS



18<sup>th</sup> Workshop on Radiation Monitoring  
for the International Space Station  
3-5 September 2013, Budapest, Hungary

---

Scientific Session 6

*Christer  
Fuglesang*

Relative nuclear abundances LET and dose rates at various locations and configurations in ISS from the ALTCRISS experiment.

*Lawrence Pinsky*

Update on the Status of the Medipix-Based Radiation Environment on the ISS

*Balázs Zábóri*

BEXUS TECHDOSE stratospheric cosmic radiation experiment



18<sup>th</sup> Workshop on Radiation Monitoring  
for the International Space Station  
3-5 September 2013, Budapest, Hungary

---

**Scientific Session 7**

*Tsvetan Dachev*

Altitudinal distribution of the Ionizing Radiation Exposure between the Earth Surface and Free Space

*Brent Ehresmann*

Charged Particle Measurements during Cruise and on Mars with the Radiation Assessment Detector (MSL/RAD).

*Cary Zeitlin*

Refinement of MSL-RAD Dose Rate Measurements in Cruise and on the Martian Surface





18<sup>th</sup> Workshop on Radiation Monitoring  
for the International Space Station  
3-5 September 2013, Budapest, Hungary

---

Scientific Session 8

*Raisa Tolochek*

The Results of 4 Sessions of Experimental Study of Local Water Shielding Efficiency to Space Radiation with the Protective Curtain in ISS Crew Cabin

*Martin Smith*

Neutron Measurements using Bubble Detectors during the ISS-22 to ISS-36 Expeditions

*Aiko Nagamatsu*

Space radiation dosimetry for the Matroshka-R #1 Experiment onboard the KIBO using PADLES from May - Sep. 2012 (Increment 31/32)





18<sup>th</sup> Workshop on Radiation Monitoring  
for the International Space Station  
3-5 September 2013, Budapest, Hungary

---

Scientific Session 9

*Slava  
Shurshakov*

Results from MATROSHKA 1 using the HPA  
dosemeter New Results on Dose  
Distribution in a Human Body in ISS  
Compartments Obtained with the Tissue-  
Equivalent Spherical Phantom

*Tsvetan Dachev*

Radiation Environment on ISS in 2012-  
April 2013 According the Data from Liulin-  
5 Particle Telescope

*M. Fragopoulou*

The response of a depleted p-MOSFET  
dosemeter to photons and electrons



18<sup>th</sup> Workshop on Radiation Monitoring  
for the International Space Station  
3-5 September 2013, Budapest, Hungary

---

**Scientific Session 10**

*Thomas Berger*      The European Crew Personal Active  
Dosimeter (EuCPAD)

*Ryan Rios*              Status of the ISS Radiation Assessment  
Detector

*Cary Zeitlin*            ISS-RAD Calibration Campaign



18<sup>th</sup> Workshop on Radiation Monitoring  
for the International Space Station  
3-5 September 2013, Budapest, Hungary

---

### Scientific Session 11

*Sunghwan Kim*

Overview of Tissue Equivalent  
Proportional Counter for high LET  
Radiation Monitoring in Complex  
Radiation Field

*Sándor Deme*

The LINTEL, a system for estimating the  
effective dose of the space stations'  
crew

*Conclusion/Adj  
ourn*

All