

12th Workshop on Radiation Monitoring for the International Space Station

**10-12 September 2007
Oklahoma State University**

Chairman

Günther Reitz, DLR

Co-Chairs

**Stephen McKeever, OSU
Eduardo Yukihiro, OSU
Eric Benton, OSU**

12th Workshop on Radiation Monitoring for the International Space Station (WRMISS-12)

Monday, 10 September 2007

8:00 – 8:30	Registration, Breakfast
8:30 – 10:00	Scientific Session
10:00 – 10:45	Break
10:45 – 12:15	Scientific Session
12:15 – 13:45	Lunch
13:45 – 15:15	Scientific Session
15:15 – 16:00	Break
16:00 – 17:30	Scientific Session

Stephen McKeever	Welcome
Günther Reitz	Introduction/Actions of last meeting

Session: Models

Cary Zeitlin	Fragmentation Measurements for GCR Transport
John Wilson	Environmental Models and Validation of Engineering Designs
Razvan Gaza	Radiation Protection Strategy for the Orion/CEV Program: A Contractor's Perspective
Myung-Hee Y. Kim	Minimizing Astronauts' Risk from Space Radiation during Future Lunar Missions

Session: Recent Measurements I

Ramona Gaza	Recent Shuttle and ISS Radiation Measurements: STS-121, STS-115, STS-116, STS-117 and ISS Expedition 13
Filip Vanhavere	<u>D</u> osimetry of <u>B</u> iological <u>E</u> xperiments in <u>S</u> pace (DOBIES) with Luminescence (OSL and TL) at the SCK-CEN
Aiko Nagamatsu	Space Radiation Dosimetry by PADLES in the ISS Russian Segment to Evaluate the Effect of Crew-Cabin Shielding (ALTCRISS Project Phase 1 and 2)
Tamas Pázmándi	TL dose measurements on board the Russian segment of the ISS by the "Pille" system during Expedition-13 and -14
Dazhuang Zhou	High LET Radiation Measured for STS-116 with CR-39 PNTDs

Edward Semones	Tissue Equivalent Proportional Counter Measurements During Recent Shuttle flights and ISS Expedition 15
Kerry Lee	Charged Particle Directional Spectrometer CPDS Measurements of the December 2006 SPEs
Tsvetan Dachev Livio Narici	New Results for the Earth Radiation Environment ALTEA Status and Perspectives
Cary Zeitlin	Measurements of the Radiation Environment in Mars Orbit
Yukio Uchihori, Nakahiro Yasuda, Eric Benton, & Thomas Berger	Status of the ICCHIBAN Project

Tuesday, 11 September 2007

8:00 – 8:30	Breakfast
8:30 – 10:00	Scientific Session
10:00 – 10:45	Break
10:45 – 12:15	Scientific Session
12:15 – 13:45	Lunch
13:45 – 15:45	Scientific Session
15:45 – 17:15	Tour of Venture I Laboratories, Refreshments
18:00 – 19:00	Reception OSU Alumni Center

Session: Recent Measurements II

Thomas Berger	MATROSHKA 2A – Preliminary DLR Results
Pawel Bilski	Preliminary TLD results of the MATROSHKA-2A Experiment
Julianna Szabo	Evaluation of the Track Etch Detector Stacks Exposed Inside and on the MATROSHKA Phantom. Phase IIA, 2005-2006
Dazhuang Zhou	Radiation Measured for Matroshka-2 with Different Passive Dosimeters
Thomas Berger	The MATROSHKA Experiment – Data Intercomparison
Soenke Burmeister	The Silicon Scintillator Devices (SSDs) Inside the MATROSHKA Phantom
Slava Shurshakov	Study of Dose Distribution in a Human Body in Space Flight with the Spherical Tissue-Equivalent Phantom

Session: New Techniques, Instrumentation, and Programs I

Lawrence Pinsky	Update on the Status of the Development of an Active Space Radiation Dosimeter Based on the Medipix-Technology
James J. Connell	Measuring Space Radiation with the Angle Detecting Inclined Sensor (ADIS) Method
Erik Johnson, Christopher Stapels	Tissue Equivalent Radiation Dosimeter on a Chip
Attila Hirn	Space Dosimetry with a 3D Silicon Detector Telescope – the ISS Versions of TriTel

Wednesday, 12 September 2007

8:00 – 8:30	Breakfast
8:30 – 10:00	Scientific Session
10:00 – 10:45	Break
10:45 – 12:15	Scientific Session
12:15 – 13:45	Lunch
13:45 – 15:15	Scientific Session
15:15– 16:00	Break
16:00 – 17:30	Scientific Session and Conclusion
18:30 – 20:00	Reception at Dr. McKeever's home

Session: New Techniques, Instrumentation, and Programs II

Richard Maurer	Combined Ion and Neutron Spectrometer for Space Applications (CINS)
Don Hassler	The Radiation Assessment Detector (RAD) for the Mars Science Laboratory: Applicability for Satisfying Current and Future Needs of NASA Space Radiation Monitoring
Luke Hager	Using the HPA PADDC Dosimeter for Measurements of Neutron Dose on ISS
Carl Johnson	Advances in the Analysis of CR-39 PNTD using Atomic Force Microscopy
Mark Akselrod	Fluorescent Nuclear Track Detectors – A New Technology for LET Spectroscopy of Heavy Charged Particles in Space Dosimetry

Eric Benton	Tissue Equivalent Detectors for Space Crew Dosimetry and Characterization of the Space Radiation Environment
Günther Reitz	Future European Dosimetry Activities using COLUMBUS
Aiko Nagamatsu	Future activities of PADLES dosimetry in JEM docked with ISS
Satoshi Kodaira	Observation Program of Ultra Heavy Nuclei in Galactic Cosmic Rays
Vernon Jones	Polar Balloon Flights: Opportunities for Space Radiation Studies

Round Table Discussion