

WRMISS 2015 Conference Program

Tuesday 8th September

09.00 – 09.10	Welcome
09.10 – 10.40	Scientific Session 1
10.40 – 11.20	Coffee/Tea Break
11.20 – 12.40	Scientific Session 2
12.40 – 14.00	Lunch
14.00 – 15.30	Scientific Session 3
15.30 – 16.15	Coffee/Tea Break
16.15 – 18.00	Scientific Session 4

Günther Reitz Thomas Berger	Welcome and Organisational Issues
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Scientific Session 1

Francis F. Badavi	A Directional Trapped Proton Model for the International Space Station Orbit
Patrick Dolloso	Preliminary attempt of implementing a full-scale geometrical input file of the International Space Station (ISS) and BION-M #1 (ENERGIA RSC) Biosatellite in MCNPX using AutoCAD solid modelling
Myung-Hee Y. Kim	Exposure Risk Analysis for Human Exploration of Deep Space

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Scientific Session 2

Eric Benton	On the Use of Superheated Bubble Detectors on Space Missions
Satoshi Kodaira	Estimation of dose contribution of secondary target fragment particles for space radiation dosimetry
Pawel Bilsky	Calculations of the relative efficiency of LiF thermoluminescent detectors to cosmic radiation spectrum at the Earth's orbit

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Scientific Session 3

M.B. Smith	Neutron Measurements using Bubble Detectors: ISS-39/40 and ISS-41/42
Rachid Machrafi	Ground Testing of Bubble Detectors used in Space Radiation Dosimetry: Response to High Energy Neutrons
Slava Shurshakov	Recent Radiation Environment Studies aboard Biological Satellites

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Scientific Session 4

Thomas Berger	The DOSIS and DOSIS 3D project on-board the International Space Station – Current Status and Science Overview
Olivier Van Hoey	Overview of TLD and OSL measurements at SCK•CEN in the framework of the DOSIS and DOSIS 3D and the most recent biological experiments
A. Stradi	3D Dose Distribution Measurements by Passive Detectors in the Columbus Module
Iva Ambrozova	Monitoring onboard of ISS with passive detectors – long-term data

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Wednesday 9th September

09.00 – 10.30	Scientific Session 5
10.30 – 11.00	Coffee/Tea Break
11.00 – 12.45	Scientific Session 6
12.45 – 13.30	Lunch
13.30	Transport to DLR
14:00 -17.30	Scientific Symposium at DLR :envihab
17.30	Dinner Buffet and visit of :envihab

Scientific Session 5

Attila Hirn	Pille Measurements on ISS (May 2014-March 2015)
Soenke Burmeister	The DOSIS and DOSIS 3D experiments on-board the International Space Station – Current Status and Latest Data from the DOSTELs as Active Instruments
Livio Narici	Comparing Active Detectors: ALTEA and DosTel

14-16

Scientific Session 6

Attila Hirn	TRITEL Measurements in the Russian Service Module (April-July 2013)
Francis Badavi	November 2013 analysis of high energy electrons on the Japan Experimental Module (JEM: Kibo)
Aiko Nagamatsu	Variation of long term space radiation monitoring and the PHITS simulation during the solar minimum to maximum of the 24th solar cycle inside/outside of the ISS 'KIBO'
Raisa Tolocek	The Results of 5 Sessions of Experimental Study of Local Water Shielding Efficiency to Space Radiation with the Protective Curtain in ISS Crew Cabin
Satoshi Kodaira	Global dose distributions of Lunar neutrons and gamma-rays obtained by the Kaguya gamma-ray spectrometer

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Scientific Symposium

Visit of :envihab at DLR

14:00-14:10	Prof. Dr. Hansjörg Dittus, Member of DLR Executive Board Prof. Dr. Bernhard Koch Deputy Director, DLR Institute of Aerospace Medicine	Welcome
14:10-14:25	Prof. Dr. Rupert Gerzer Former Director, DLR Institute of Aerospace Medicine	Future Life Sciences Challenges of Human Exploration
14:25-15:05	Prof. Dr. Lawrence S. Pinsky John & Rebecca Moores Distinguished Professor of Physics, University of Houston	Things That Have Changed, and Things That Have Not in Space Radiation Dosimetry from Apollo to the ISS and Beyond..."
15:05-15:45	Prof. Dr. Marco Durante Biophysics Department - Director GSI, Darmstadt	Advances in Cosmic Radiation Biology
15:45	Break	
16:10-16:50	Dr. Thomas Berger Head Biophysics Group, Radiation Biology Department, DLR Institute of Aerospace Medicine	From Spacelab to the ISS and beyond – over 30 Years Radiation Research at DLR
16:50-17:30	Prof. Dr. Robert Wimmer-Schweingruber Department of Physics; Research Group Extraterrestrial Physics, Kiel University	Particle Radiation in the Heliosphere - Implications for Human Exploration
17:30	Reception (Dinner Buffet and visit of :envihab)	

Thursday 10th September

09.00 – 10.30	Scientific Session 8
10.30 – 11.15	Coffee/Tea Break
11.15 – 12.45	Scientific Session 9
12.45 – 14.00	Lunch
14.00 – 15.30	Scientific Session 10
15.30 – 16.15	Coffee/Tea Break
16.15 – 18.00	Scientific Session 11

Adjourn

Scientific Session 8

Eddie Semones	Overview and Future Plans of NASA Dosimetry for Manned Spaceflight Operations
Cary Zeitlin	Dose Calibration of the ISS-RAD Fast Neutron Detector
Martin Leitgab	Simulation and Data Unfolding for the ISS-RAD Fast Neutron Detector (FND)

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Scientific Session 9

Michael Vincent	Signal processing of the ISS-RAD Fast Neutron Detector (FND) electronics
Ryan Rios	Calibration and Readiness of the ISS-RAD Charged Particle Detector
Ramona Gaza	SRAG Measurements performed during the Orion EFT-1 Mission
Kerry Lee	MPCV NASA Space Exploration Active Measurements and Future Operations

25-28

Scientific Session 10

Cary Zeitlin	Updates from the MSL-RAD Experiment on the Mars Curiosity Rover
Jingnan Guo	Modeling the dose rate variations of MSL/RAD measurement during its cruise to Mars
Jan Köhler	MSL RAD Measurements of the Neutron Spectrum in Transit to Mars and on the Martian surface
Daniel Matthiä	Particle spectra on the Martian surface – A comparison of models and MSL-RAD measurements

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Scientific Session 11

Larry Pinsky	Current and Future Developments of the Medicpix Technology for Space Radiation Monitoring
Alexander Miller	Neutron Spectrometry Using a 7-Li Enriched CLYC Scintillation Detector
Yukio Uchihori	Development of Active Space Radiation Detector, A-DREAMS-2 at NIRS
Ondrej Ploc	Development of New Cosmic Radiation Detector at NPI
Thomas Berger	EuCPAD and future Projects

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