



# 14th WRMISS Workshop Dublin Castle

## 8th -10th September 2009



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## Final Programme

### Tuesday 8th September 2009

**8.15am to**

**9.00am**

Registration

**9.00am  
Welcome**

Prof Dervalla  
Donnelly

Chairperson of the Council of the Dublin  
Institute for Advanced Studies (DIAS)

Dr Brendan  
McCormack

Irish Delegate to ESA Finance Committee,  
Office of Science, Technology and  
Innovation, Department of Enterprise, Trade  
and Employment

**Organisational  
Issues**

Prof Denis  
O'Sullivan

DIAS

9.15	10.30	Scientific Session
10.30	11.00	Coffee Break
11.00	12.30	Scientific Session
12.30	13.45	Lunch Break
13.45	15.15	Scientific Session
15.15	15.45	Coffee Break
15.45	18.00	Scientific Session

Measurements

Dosimetry and LET spectrometry in He 150 MeV/n MONO and C 290 MeV/n SOB HIMAC ion beams - first results obtained by different detectors	Frantisek Spurny
Preliminary Results of SI3 and ICCH-CR-39 experiments obtained by PADC track etch detectors	Beata Dudas
DOSIS (HIMAC Intercomparison) and NSRL Solar Particle Event (low LET efficiency)	Thomas Berger
Structuring of Database for ICCHIBAN Experiments and Brief Reports on the Ongoing Experiments	Hisashi Kitamura
Radiation Measurements for DOBIES (Dosimetry of Biological Experiments in Space)	Denis O'Sullivan
Radiation Measurements with passive detectors during recent Shuttle flights	Yvonne Roed
Summary of 2008-2009 SRAG's Radiation Measurements in Low-Earth Orbit Using Passive Radiation Detectors	Ramona Gaza
First Area Monitoring using Area PADELS onboard the KIBO	Aijo Nagamatsu
Time variation of dose quantities obtained by passive dosimeters onboard International Space Station	Satoshi Kodaira
Radiation Measured in Low Earth Orbit (LEO) during STS126 Space Mission	Yvonne Roed
Radiation Measured during ISS-Expedition 16-17 with Different Dosimeters	Eddie Semones
Canadian high-energy Neutron Spectrometry System	Brent Lewis
Determination of the charged particle response of the HPA neutron PADC dosimeter in the ISS, using calibrations and calculations	Luke Hager
Dose Measurements Onboard the ISS with Pille TLD System	Peter Szanto

**Wednesday 9th September 2009**

9.00am

Meeting Start

9.00 10.30 Scientific Session  
 10.30 11.00 Coffee Break  
 11.00 12.30 Scientific Session  
 12.30 13.45 Lunch Break  
 13.45 15.15 Scientific Session  
 15.15 15.45 Coffee Break  
 15.45 17.15 Scientific Session

**18.30 Workshop Dinner,  
 Merrion Hotel,  
 Merrion Street**

Docking of Space Shuttle with ISS Drops down the measured SAA Doses	Tsvetan Dachev
Long-term variation of the trapped flux	Naralia Nikolaeva
DOSIS and DOSTEL E Results	Soenke Burmeister
ALTEA: Latest results and comparison with other instruments	Livio Narici
Bubble Detector Measurements of the International Space Station as part of the MATROSHKA –R Experiment	Machrafi Rachid
Dose Characteristics on and inside the spherical phantom MATROSHKA-R	Iva Jadnickova
Comparison of Space Radiation Doses inside the MATROSHKA –Torso Phantom installed outside the ISS with doses in a human body in ORLAN-M spacesuit	Vyacheslav Shurshakov
MATROSHKA - current status and Effective Dose from MTR 1 and MTR 2A	Thomas Berger
Preliminary Results from MATROSHKA-2B Thermoluminescence Dosimetry. Part 1: Spatial Distribution of Absorbed Dose in the Phantom Slices	Michael Hajek
Preliminary Results from MATROSHKA-2B Thermoluminescence Dosimetry. Part 2: Absorbed Doses in the Organ and Poncho Packages	Pawel Bilski
MATROSHKA 2B: SRAG's Preliminary Results	Ramona Gaza
Preliminary Results of MATROSHKA-IIB experiments and comparison to previous measurements on the ISS	Josef Palfalvi

MTR I+IIA Active Measurements	Johannes Labrenz

## Thursday 10th September 2009

9.00am	Meeting Start
9.00	10.30 Scientific Session
10.30	11.00 Coffee Break
11.00	12.30 Scientific Session
12.30	13.45 Lunch Break
13.45	16.00 Scientific Session

<b>Measurements and Simulations</b>	
ODI - Open Data Interface for SAAPS, SEDAT, and SPENVIS	Daniel Heynderickx
MATSIM: Development of a Numerical Model for the MATROSHKA Phantom	Andrea Zechner
Monte Carlo Modeling of Microdosimetric Spectra of the Absorbed Dose and Dose Equivalent due to Exposure of Tissue and Silicon in the ISS Space Radiation Field	Peter Beck
Simulations of MATROSHKA experiment at ISS using PHITS	Lembit Sihver
Correlating the ISS-6A Liulin/TEPC measurements with simulation using HZTERN	Francis Badavi
Earth and Moon Radiation Environment Results Obtained by RADOM Instrument on Indian Chandrayaan-1 Satellite. Comparison with Model	Tsvetan Dachev
<b>New Developments</b>	
The Performance of the Medipix2 TimePix device in a range of Heavy Ion Beams,	Larry Pinsky
Update on NASA TEPC measurements and next generation hardware developments	Eddie Semones
High Sensitive MOSFET – based neutron dosimeter for space applications	Fragopolou Marianthi
Development of Tissue Equivalent Detectors for Space Crew Dosimetry and Characterisation of the	Eric Benton

Space Radiation Environment	
RAZREZ system for RADIOSCAL Experiment	Petrov Vasily
RaDI-N Measurement of Neutron Radiation on the International Space Station	Les Bennett
A Study of Phoswich Detectors for Dosimetry Measurements	Esther M. Dönsdorf
<b>Future Activities</b>	
Preparation of Proton Irradiation System for Intercomparison Experiments of Luminescence Detectors (Proton-ICCHIBAN-2)	Yukio Uchhori
European Activities in Space Dosimetry	Guenther Reitz

Last updated 07-Sep-2005