Scientific Advisory Committee

Mark Akselrod USA Ian Bailiff United Kingdom Pawel Bilski Poland

Adrie Bos The Netherland

Maria Ester Brandan Mexico Reuven Chen Israel Diniz Chubachi Brazil Vadim Chumak Ukraine Francesco d"Errico USA/Italy Paola Fattibene Italy Jose Maria Gomes-Ros Spain Peter Johnston Australia **Yigal Horowitz** Israel Toshiyuki lida Japan Helen Khourv Brazil Jang-Lyul Kim Korea **Tomas Kron** Australia Stephen McKeever USA Saveta Milianic Croatia Marco Moscovitch USA K.V.R.Murthy India Pawel Olko Poland Margit Osvay Hungary Anatoly Rosenfeld Australia Chris Soares USA Hannes Stadtmann Austria Filip Vanhavere Belgium Clemens Woda Germany Wei Zhiyong China

Local Organising Committee

Takayoshi Yamamoto

Duncan Butler, ARPANSA Australia Lisa Duggan, Newcastle Mater Hospital Australia Susanna Guatelli, CMRP UoW Auatralia Australia Michael Jackson . POWH Tomas Kron .Peter MacCallum CI Australia Michael Lerch, CMRP UoW Australia Peter Metcalfe, CMRP UoW Australia Marco Petasecca . CMRP UoW Australia Mark Reinhard, ANSTO Australia Anatoly Rosenfeld, CMRP UoW Australia Peter Vrahas, eventico Australia

Japan

Summer School Organising Committee

Francesco d'Errico USA/Italy Marco Moscovitch USA **Tomas Kron** Australia Anatoly Rosenfeld Australia

Conference Format

The conference will include oral and poster scientific presentations as well as invited lectures given by experts in selected topics of interest. Technical exhibitors will be present to provide an overview of state-of-the-art instrumentation.

Conference Proceedings

The proceedings will be published in an International Journal within one year after the Conference. All manuscripts will be refereed by two referees and will have to meet the journal acceptance criteria. Deadline for submission will be October 18, 2010

Conference Registration

Registration will be possible on-line at http://www.uow.edu.au/ conferences/SSD16, where you will find registration procedures and fees as well as guidelines for abstract submission. The website will be regularly updated.

Important dates

March 15, 2010 Abstract Submission deadline

Deadline application for young

scientist award

June 1 2010 Notification of acceptance and

Presentation modality

July 19, 2010 Deadline to obtain reduced fee August 16, 2010 Submission deadline bids to host

SSD17

September 15-18, 2010 4th Summer School September 19-24, 2010 SSD16 Conference

October 18, 2010 Manuscript submission deadline

Conference secretariat

Mrs Karen Ford Centre for Medical Radiation Physics University of Wollongong Tel: +61-2 4221 3507 Email: kford@uow.edu.au

Mrs Flena Di Stefano SSD16 Conference Manager University of Wollongong Tel: +61-2 4221 8173 Email: elena@uow.edu.au

http://www.uow.edu.au/conferences/SSD16





Solid State Dosimetry 16th International Conference 19-24 September 2010

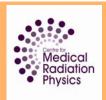
4th Summer School 15-18 September 2010



Sofitel, Sydney Wentworth

61-101 Phillip Street, Sydney NSW Australia Phone +61 2 9228 9188

http://www.uow.edu.au/conferences/SSD16





16th International Conference on Solid State Dosimetry

The University of Wollongong is pleased to announce the 16th International Conference on Solid State Dosimetry, SSD16, which will be held in Sydney, Australia 19-24 September, 2010.

This series of conferences began in 1965 at Stanford, USA and since then has expanded its initial scope from luminescence dosimetry to the current variety of solid state processes and methods available for radiation dosimetry.

In 1995, the International Solid State Dosimetry Organisation, ISSDO, was created to promote and assist in the organisation of triennial SSD Conferences, ensuring their continuity.

SSD16 will be the fifth conference of the series organised under the auspices and regulations of the ISSDO and firstly will be held in Australia. Medical dosimetry is highlight of SSD 16.

4th Summer School on Solid State Dosimetry

A Summer School on Solid State Dosimetry will be offered on the 15-18 September 2010. the School will follow the successful format of the previous Summer School, held in conjunction with the SSD13 in Athens, SSD14 in Yale, SSD15 in Delft and will include lectures by international experts.

The Summer School is intended for scientists who are new in the field and for those who like to deepen and widen their knowledge. This Winter School will be very attractive to medical physicists who wants consolidate their knowledge in methods and state-of-the-arts in clinical dosimetry. Lectures on TLD, OSL, scintillator, semiconductor and electronics dosimetry and its application in mixed radiation field dosimetry, aviation and space dosimetry, medical dosimetry, dosimetric imaging and micronano-dosimetry will be a solid foundation for radiation dosimetry Professionals.

The exact topics and guest lecturers will be announced at the later date on the web site (http://www.uow.edu.au/conferences/SSD16)



Conference Topics

Basic physical processes

- TL, OSL, EPR, RPL, scintillation
- Modelling

Materials characteristics

- Synthetic materials
- Natural materials

Instrumentation/detectors

- Luminescent detectors (TLD, OSLD, RPLD, (scintillators)
- Semiconductor detectors
- EPR detectors
- Equipment development
- Track detectors
- Gel dosimetry
- Superheated emulsions
- Radiochromic dyes







Monitoring and Detection

- Individual dosimetry (external, extremity, internal)
- Environmental dosimetry
- Micro-and nano-dosimetry
- Space and aviation dosimetry
- Neutron dosimetry
- Particle dosimetry
- High-level radiation dosimetry
- Radon monitoring

Special focus: Dosimetry for medicine & biology

- Radiation-therapy dosimetry
- Diagnostic radiology dosimetry
- 2D and 3D dosimetry
- Patient dosimetry
- Radiation transport simulations

Dose reconstruction

- Dating (luminescence, fission-track and EPR)
- Accident dosimetry
- Forensic dosimetry
- Retrospective dosimetry

Explore the Hotel-Sofitel Sydney Wentworth



Sydney's time honoured five star hotel in the heart of Sydney city has a solid reputation for being a welcoming and memorable luxury hotel.

Through a recent enhancement program of \$10 million, this Sydney icon ensures that the most modern facilities are offered whilst retaining the charm and character for which The Wentworth has long been renowned.

Sofitel Sydney Wentworth's unique design allows most rooms to overlook the central Garden Courtyard.

Hotel Features

- 436 elegantly appointed rooms
- Club Sofitel
- Lattouf Aveda Day Spa
- Elixr Health Club
- Garden Court dining
- Concierge services
- Undercover security car parking
- King beds or king single beds
- Babysitting services available
- Premium conference facilities
- Internet facilities & Wi-fi options
- Business centre
- 24 hour in-room dining
- Guest laundry and valet service
- Two level shopping arcade
- Safety deposit boxes
- Special access facilities
- Express check-out service





Transportation

Sydney International Airport is 20 minutes away from the Hotel and the City of Sydney. Public transport is one of the easiest and most affordable ways to travel around the Sydney metropolitan area and greater New South Wales.