ACPSEM QLD State Symposium

Friday 5th August 2011
Russel Strong Auditorium, Princess Alexandra Hospital, Woolloongabba

Featuring:

**Professor David Thwaites** - Professor of Medical Physics - University of Sydney

‘Some current developments in radiation oncology medical physics, with examples from Leeds and Sydney’

**Dr Nicholas Dowson** - Research Scientist - CSIRO ICT Centre

‘Should FDOPA PET be used to plan post-surgery radiotherapy for Glioblastoma Multiforme?’

**Professor Bryan Burmeister** - Director of Radiation Oncology – PAH

‘Current research within the Trans Tasman Radiation Oncology Group (TROG)’

**Dr Ivan Williams** – Director, ACDS, ARPANSA & **John Kenny** – Senior MP, ACDS, ARPANSA

‘Introduction to the Australian Clinical Dosimetry Service (ACDS)’

PLUS:
A full scientific and educational program, covering a broad range of areas.

This event is FREE and FULLY CATERED

Post-symposium dinner and drinks will be at the **Norman Hotel, Woolloongabba**

Sponsored by:

**Queensland Government**

**Queensland Health**

Professor Thwaites’ speech and attendance has been fully funded by A Qld Health Medical Physics Education and Training Initiative

**ELEKTA**

**VARIAN medical systems**

| Morning Tea | 10:30 – 11:00 |
| Session 1* | 11:00 – 12:30 |
| Lunch | 12:30 – 01:30 |
| Session 2^ | 01:30 – 03:05 |
| Tea | 03:05 – 03:35 |
| Session 3# | 03:35 – 05:00 |
| Prizes & Close | 05:00 – 05:30 |

* Keynote presentations
^ Education session and Proffered scientific papers
# Proffered scientific papers continued
## Presentation Timetable

### 10:30 – 11:00 Tea

### 11:00 – 12:30 Session 1 - Key Note Presentations

**Session Chair: Trent Aland**

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| 11:00 | Introduction and welcome  
Trent Aland, Medical Physicist, Premion  
Introduction and welcome from the QLD Branch Chair |
| 11:10 | Invited speaker 1 - Keynote - Professor David Thwaites  
Professor of Medical Physics, University of Sydney;  
hon. Professor of Oncology Physics, University of Leeds, UK  
'Some current developments in radiation oncology medical physics, with examples from Leeds and Sydney' |
| 11:50 | Invited speaker 2 – Professor Bryan Burmeister  
Director of Radiation Oncology, PAH;  
President of TROG.  
'Current research within Trans Tasman Radiation Oncology Group (TROG)' |
| 12:10 | Invited Speaker 3 – Dr Nicholas Dowson  
Research Scientist, CSIRO ICT Centre  
'Should FDOPA PET be used to plan post-surgery radiotherapy for Glioblastoma Multiforme?' |

### 12:30 – 13:30 Lunch break

### 13:30 – 15:00 Session 2 - Education / Scientific Papers

**Session Chair: Prof David Thwaites**

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| 13:30 | Education 1 - Ivan Williams and John Kenny  
Director and Senior Medical Physicist (respectively)  
ACDS, ARPANSA  
'Introduction to the Australian Clinical Dosimetry Service (ACDS)' |
| 14:00 | Education 2 - Dr Andrew Fielding et al  
Lecturer, QUT  
'Terremotos, Replicas and Medical Physics’ |
| 14:20 | Scientific 1 - Nigel Middlebrook  
Medical Physicist, Premion  
'Junction doses in RapidArc head and neck treatments’ |
| 14:35 | Scientific 2 - Danielle Tyrell  
Senior Medical Physicist, Mater Centre  
'Determination of nanodosimetry based relative biological effectiveness of protons in the distal spread-out Bragg peak’ |
| 14:50 | Scientific 3 - Dr David Thiele  
Manager, Statewide Medical Physics Services, Biomedical Technology Services  
'Implementation of diagnostic reference levels in QLD Health’ |

### 15:05 – 15:35 Tea Break

### 15:35 – 17:00 Session 3 - Scientific Papers

**Session Chair: Dr David Thiele**

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| 15:35 | Scientific 4 - Professor David Thwaites  
Professor of Medical Physics, University of Sydney;  
hon. Professor of Oncology Physics, University of Leeds, UK  
'Measurement and modelling of small field dosimetry using diodes’ |
| 15:50 | Scientific 5 - Dr Josh Boyd  
Medical Physicist, Princess Alexandra Hospital  
'Commissioning of the Monaco treatment planning system’ |
| 16:05 | Scientific 6 - Lucy Sim  
ROMP Cadet, QLD Health  
'Radiosensitisation of Prostate Cancer using Gold Nanoparticles’ |
| 16:30 | Scientific 7 - Pavthrune Pathmanathan  
DIMP Cadet, QLD Health  
'Practical viability of the detective quantum efficiency as an image quality assessment tool in general radiography’ |
| 16:45 | Scientific 8 - Paul Charles  
Senior Medical Physicist, Princess Alexandra Hospital  
'The accuracy of tumour-in-lung calculations using the Varian Anisotropic Analytical Algorithm’ |

### 17:00 – 17:30 Prizes and Close

Dinner and / or drinks will follow at the Norman Hotel, Woolloongaba