

# Nuclear Medicine Physics Symposium 2008

## MonteCarlo Applications In Nuclear Medicine and Radiotherapy

Presented by  
ANZSNM Physics SIG  
ACPSEM Nuclear Medicine Specialty Group  
Monday, 8<sup>th</sup> December, 9:00am-5:00pm  
Lecture Theatre 2, Institute of Medical Physics, School of Physics  
University of Sydney

- 08:00 – 09:00 **Registration**
- 09:00 – 09:15 **Opening and Introduction**  
Graeme O’Keefe, Ph.D. Austin Health, Heidelberg, Australia
- 09:15 – 09:45 **Introduction to Monte Carlo Methods**  
Sarath Seneviratne. Prince of Wales, Sydney
- 09:45 – 10:15 **Monte Carlo Radiation Transport:  
Current Capabilities and Future Directions**  
Zdenka Kuncic, Ph.D. Institute of Medical Physics, University of Sydney
- 10:15 – 11:00 *Coffee break*
- 11:00 – 11:30 **Experience using Monte Carlo in the design of PET cameras**  
Mike Casey, Ph.D. Siemens Medical Solutions, Knoxville, Tennessee
- 11:30 – 12:00 **GATE modeling of a Novel Small Animal PET with Depth-of-Interaction**  
Lakshal Perera, Biomedical Physics, University of Wollongong
- 12:00 – 14:00 *Lunch break*
- 14:00 - 14:30 **A Review of MonteCarlo Applications in Radiotherapy**  
Trevor Ackerly. William Buckley Centre, Alfred Hospital, Melbourne
- 14:30 - 15:00 **EGS4 MonteCarlo Applications in Radiotherapy and PET**  
Robin Hill. Royal Prince Alfred, Sydney, Australia
- 15:00 – 15:30 *Coffee Break*
- 15:30 - 16:00 **GATE Applications in Respiratory Motion**  
Graeme O’Keefe, Ph.D. Austin Health, Heidelberg, Australia
- 16:00 – 16:30 **Patient Specific Dose Estimation with GEANT4 MC**  
Sarath Seneviratne, Prince of Wales, Sydney
- 16:30 – 17:00 **Conclusion**

See [www.anzsnm.org.au](http://www.anzsnm.org.au) for more information and registration form

Organisers

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