

MCNEG - 06

City University, School of Allied Health Sciences. London UK 25th – 26th May 2006

Thursday 25th May 2006

- 09:00 - 09:30 Registration & Coffee
- 09:30 - 09:45 Welcome @ Housekeeping
- Session 1**
- 09:45 – 10:50 **Invited Talk I** Relevance of Monte Carlo modelling in quantitative imaging and dosimetry in targeted therapy **Dr Habib Ziadi**
- 10:55 - 11:35 Coffee and industrial exhibits
- 11:40 – 12:05 The Monte Carlo modelling of Elekta SL series Linacs at Cookridge Hospital, Leeds
- 12:10 – 12:35 Recent progress in modelling Siemens Oncor machines at NUI, Galway
- 12:40 – 13:40 Lunch and industrial exhibits
- Session 2**
- 13:45 – 14:50 **Invited Talk II:** The development and functionality of FLUKA **Dr Alfredo Ferrari**
- 14:55 - 15:20 Radiation transport modelling: challenges in fusion
- 15:25 – 15:50 Monte Carlo Statistical Estimation Methods for Time-Absorption (α) Eigenvalue Calculation
- 15:55 – 16:35 Coffee
- 16:40 – 17:05 CodeMore: a fair system of distributing parameter searches on a cluster computer system
- 17:10 – 17:35 Positron stories as told by EGS4nrc
- 17:40 – 18:30 AGM
- 18:30 CLOSURE

Evening dinner 20:15hrs

Evening dinner: We have arranged for evening dinner to be taken in the Maroush Restaurant at a cost of £22 per head. The restraint is a very well respected Lebanese restaurant and includes excellent belly dancing and some 'singing'. The cost of the food is supplemented by MCNEG. I will be sending a separate e-mail to get an idea of how many people would like to attend dinner and I would be most grateful if you could let me know by MONDAY 22nd May.

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Session 3

- 09:00 - 10:05
- 10:10 – 10:35
- 10:35 – 11:00
- 11:05 – 11:30
- 11:35 - 12:00
- 12:05 - 12:30
- 12:35 – 13:35

Chair: Dr Craig Edwards

Invited Talk 3 The use of FLUKA for dosimetry and therapy applications

Dr Alfredo Ferrari

CONRAD WP4: Computational Dosimetry

Coffee

Redesigning the HPA TLD with MCNP

Monte Carlo simulation of electron dose distributions produced by the Elekta Synergy linear accelerator

Calculating stopping powers corrections in EGSnrc and MCNP4c for dosimetry of megavoltage X-rays and mixed neutron/gamma fields

Lunch

Session 4

- 13:40 – 14:45
- 14:50 - 15:15
- 15:20 – 15:45
- 15:50
- Closure

Chair: Dr Craig Edwards

Invited Talk 4 Monte Carlo simulations of nuclear medicine imaging systems

Dr Habib Ziadi

Estimation of induced tumours to the treatment of Keloids by brachytherapy

The effects of tissue inhomogeneity on the depth-dose curves in electron-beam therapy: a Monte Carlo study

Coffee and Closure