

MCNEG 2013, Suffolk University, Ipswich. May 28-29.

Programme

Tuesday May 28

11.00 Registration

12.00 Lunch

1.15 Welcome and introduction

1.30 Book review: Monte Carlo in radiation therapy by Seco and Verhaegen.
Henry Lawrence, Ipswich Hospital

2.00 Proton microdosimetry. *Richard Hugtenburg, Swansea University*

2.30 Fluka, MCNP and EGS codes for photon backscattering simulation. *Ihsan al-Affan, Swansea University*

3.00 Tea break

3.30 VisualMC: Teaching the principles of Monte Carlo simulation for radiation dose calculation. *Colin Baker and Alan Nahum, Physics Department, Clatterbridge Cancer Centre*

4.00 Cross-section and stopping-power calculations for Electrons and Positrons. Inelastic Scattering in liquid water. *Zine-El-Abidine Chaoui, University of Setif (Algeria)*

7.30 Evening meal : Social evening of song and dance.

Wednesday May 29

10.0 FLUKA: recent developments and future plans. *Alfredo Ferrari, CERN*

10.30 Physics design of the standard specification rig for the technology development centre. *Trevor J. Williams. Pulsed Power Group, AWE plc, Aldermaston*

11.00 Coffee

11.30 an MPI engine for use in parallel Monte Carlo particle simulations. *G.C. Crow, AWE plc, Aldermaston*

12.00 Survey of a nuclear submarine. *Ian Adsley, Nuvia Limited*

12.30 Simulating radiation dosimeters based on porous glass and quantum dots using the PENELOPE code. *Peter Hobson, Brunel University*

1.00 Lunch

2.00 FLUKA applications: from LHC to hadrontherapy. *Alfredo Ferrari, CERN*

2.30 The use of Monte Carlo in radiotherapy machine design. *David Roberts, Senior Physicist, Research and Development, Elekta, Crawley*

3.00 Backscatter factor and parallel plate chamber simulations with GEANT4 for kV dosimetry in contact radiotherapy. *Anthony Carver, Clatterbridge Cancer Centre*

3.30 Tea

4.00 Evaluating skin dose from Cone-Beam CT using the BEAMnrc MC code. *Emiliano Spezi, Velindre Cancer Centre, Cardiff*

4.30 MCNEG committee meeting. Followed by Close of meeting