

Scientific Committee

Stefano Agosteo	Italy
Jean-Marc Bordy	France
Jean-Louis Chartier	France
Loïc de Carlan	France
Jorge Fernandez	Italy
Jose-Maria Gomez Ros	Spain
Bernd Grosswendt	Germany
Gianfranco Gualdrini	Italy
Ivo Kodeli	IAEA & NEA
Robert Price	United Kingdom
Sofia Rollet	Austria
Francesc Salvat	Spain
Frank Schultz	The Netherlands
Bernd Siebert	Germany
Hamid Tagziria	EU-JRC
Rick Tanner	United Kingdom
Michel Terrissol	France
Maria Zankl	Germany

Organizing Committee

Gianfranco Gualdrini	ENEA-Bologna
Jorge Fernandez	University-Bologna
Stefano Agosteo	Politecnico-Milano
Paolo Ferrari	ENEA-Bologna

The workshop will be held at the Aula G. Prodi, which is located in the city centre in the historical complex of **San Giovanni in Monte**, a XVI century monastery that now hosts the University Departments of History and Archaeology.



Workshop aims, abstracts and proceedings

The aims of the workshop are to present the outcomes of the questionnaire on uncertainties, discuss the results submitted in response to the intercomparison problem set and to present contributions of general relevance within the scope of the WP4 action.

Summaries of the results will be presented during the workshop. The participants submitting solutions to the problems (including the knee phantom intercomparison) are invited to present an **abstract**. The scientific committee will choose one oral presentation for problems P1, P2, P3, P5, P6 and P7. All the other works will be accepted as posters (including papers on P4 problem and knee phantom).

All the papers will be published in the Conference Proceedings and should be submitted to the **Scientific Secretary** by the last day of the workshop (10th October). Template for abstract and full paper (6-pages maximum) will be available on the EURADOS web site.

Important Dates

April 30 th 2007	Questionnaire replies deadline
May 15 th 2007	Abstract submission deadline
June 15 th 2007	Communication of acceptance
September 4 th 2007	Registration deadline
October 8 th -10 th 2007	Paper submission and workshop
Spring 2008	Workshop Proceedings

Registration, Fee and Accommodation

For organizing reasons, people interested in the workshop are kindly invited to fill, complete and return the **registration form** before the deadline. The registration can be done using the **form** that is available on the EURADOS web site: www.eurados.org

The workshop fee is 360.00 € and 180.00 € for students (VAT included). The fee will include coffee breaks, social dinner and the workshop proceedings.

For the accommodation and all the practical information, participants are kindly asked to turn to the **Organizing Secretary**.

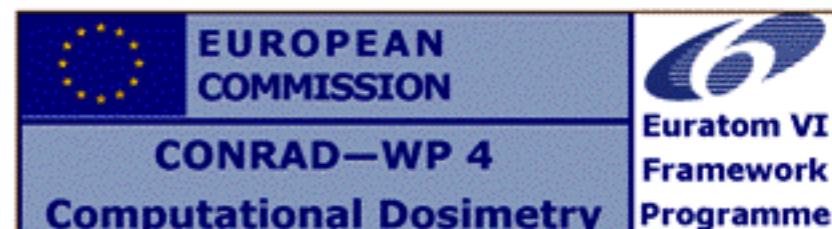
Organizing Secretary

Mrs. Maria Antonietta Melchiorre
Planning Congressi

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Scientific Secretary

Dr. Gianfranco Gualdrini, Workshop Chairman
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CONRAD-WP 4
Computational Dosimetry

BOLOGNA-Italy October 8-10 2007 A workshop on **UNCERTAINTY ASSESSMENT IN COMPUTATIONAL DOSIMETRY** A Comparison of Approaches



Final Program



October 8th 2007

8.30 REGISTRATION

Chairperson: R. Price

9.15 OPENING WELCOME AND INTRODUCTION

Chairperson: R. Tanner

9.45 B.R.L. Siebert: GUM-based uncertainty evaluation in radiation dosimetry: survey on methods and practices.

10.30 G. Gualdrini, R. Bedogni, P.Ferrari: Summary of P2 problem: Bonner sphere spectrometer.

11.05 COFFEE BREAK AND POSTERS

11.35 One oral to be assigned on P2.

11.50 R. Bedogni: Neutron spectrometry using Bonner spheres.

12.15 M. Reginatto: Unfolding techniques for neutron spectrometry.

12.50 R.Tanner, V. Lacoste: Summary of P3 problem: Sigma simulated work-place neutron field.

13.15 One oral to to be assigned on P3.

13.30 LUNCH

Chairperson: M. Zankl

15.00 J-M. Bordy, L. de Carlan: Summary of P4 problem: photon irradiation facility.

15.35 C. Hranitzky, H. Vincke: Special aspects of P4 problem.

16.10 COFFEE BREAK AND POSTERS

16.40 Poster and general discussion on scientific topics of the day.

18.00 CLOSURE OF THE FIRST DAY

October 9th 2007

Chairperson: J.L Chartier

9.00 M. Terrissol: Modelling of ionizing radiation effects on DNA.

9.30 B. Grosswendt: From macro to nanodosimetry: limits of the absorbed dose concept and definition of new quantities.

10.00 E. Gargioni, S. Rollet: Monte Carlo calculation of pulse-height and microdosimetric spectra for a mini-TEPC in photon radiation fields.

10.40 H.G. Hughes: Variance reduction with pulse-height tallies in MCNP.

11.10 COFFEE BREAK AND POSTERS

11.40 M. Zankl: State of the art of voxel phantoms development.

12.10 H.G. Hughes: Recent developments in MCNP and MCNPX

12.50 LUNCH

Chairperson: F. Schultz

14.00 J-M. Gomez Ros: International comparison of Monte Carlo modelling for *in vivo* measurements of Americium in a knee phantom.

14.40 J.L. Chartier, P. Cassette: Summary of P5 problem: Manganese bath.

15.15 COFFEE BREAK AND POSTERS

15.30 One oral to be assigned on P5.

15.45 I. Kodell, S.P. Simakov: Summary of P6 problem: the iron sphere experiment.

16.15 One oral to be assigned on P6.

16.30 CLOSURE OF THE SECOND DAY

Social Programme

16.30-18.45 AFTERNOON VISIT TO THE CENTRE OF BOLOGNA

20.30 SOCIAL DINNER

October 10th 2007

Chairperson: B. Grosswendt

9.15 R. Price : Summary of P7 problem: energy response characteristics of a RadFET radiation detector.

9.50 One oral to be assigned on P7.

10.05 J-M. Bordy: Design of a realistic calibration field for diagnostic radiology (medical staff dosimetry)

10.25 F. Schultz: Simulation of an interventional cardiac catheterization procedure (medical staff dosimetry)

10.45 L. Struelens: Summary of the submitted problem solutions (medical staff dosimetry).

11.05 COFFEE BREAK AND POSTERS

11.35 S. Agosteo, A. Pola: Summary of P1 problem:recoil-proton telescope detector.

12.10 One oral to be assigned on P1.

12.25 J. Fernandez, V. Scot: Photon polarization treatment in Monte Carlo transport modelling.

12.50 S. Agosteo, G. Fehrenbacher, C. Hranitzky, S. Rollet: Monte Carlo simulations of carbon ion irradiation experiment at GSI.

13.15 LUNCH

Chairperson: M. Terrissol

14.30 J. Posselt, J. Henniger, B.R.L. Siebert: Sensitivity study of a recoil-proton telescope detector.

15.00 H. Vincke : High energy dosimetry study on CERN accelerators.

15.30 COFFEE BREAK AND POSTERS

Chairperson: S. Agosteo

16.00 General discussion on scientific contents of the topics of the day, on whole workshop and future perspectives.

17.00 CLOSURE OF THE WORKSHOP