RADAM07 Programme 19th-22nd June 2007

Registration begins at 8 am each morning in Front Hall.

Conference Venue is the Houston Lecture Theatre unless otherwise indicated (CH) = College Hall, (BR) = Board Room, Video-Conference Room.

Tuesday 19th June <i>Early</i> <i>Researcher</i> <i>Tutorial Day</i>	Wednesday 20th June <i>RADAM'07 Day 1</i>	Thursday 21st June <i>RADAM'07 Day 2</i>	Friday 22nd June <i>RADAM'07 Day 3</i>
09:00 WG3 Tutorial	09:00 <u>WG3-A</u> Radiation in physiological environments	09:00 WG5-A Track structures in cells	08:30 WG4-B Theoretical developments for radiation damage
10:00 WG5 Tutorial			
11:00 <i>Tea/Coffee</i>	10:30 <i>Tea/Coffee (CH)</i>	10:30 Tea/Coffee	10:00 Tea/Coffee
11:30 WG2 Tutorial	11:00 WG1-A Electron and biomolecular interactions	11:00 WG1-B Electron and biomolecular interactions	10:30 WG5-B Track structure in cells
12:30 Lunch	12:30 Lunch (CH)	12:30 Lunch	40.00 Osufsusus Tsuu
14:00 WG1 Tutorial	13:30 WG2-A lons and biomolecular interactions	13:30 <u>WG2-B</u> Ions and biomolecular interactions	12:00 Conference Tour1. Walking tour of Dublin City Centre
15:00 <i>Tea/Coffee</i>	15:00 <i>Tea/ Coffee (CH)</i>	15:00 Tea/Coffee	
15:30 WG4 Tutorial	15:30 WG4-A Theoretical developments for radiation damage	15:30 WG3-B Radiation in physiological environments	2. Bus Tour to Brú na Bóinne Neolithic site and interpretive centre
16:30 Summary	17:00 Break	17:00 Break	(Packed lunch provided)
		18:00 Management Committee Meeting (VR)	
	20:00 Poster Session and Reception (CH+BR)	20:00 Management Committee Dinner (BR)	19:30 Conference Dinner (CH + BR)

Tuesday 19th June

08:30-09:00 Registration

	Early Researcher Tutorial Workshop Coordinators: Jimena Gorfinkiel, Open University, UK Isabella Baccarelli, CASPUR, IT	Venue: Houston Lecture Theatre
09:00-09:10	Introduction	Jimena Gorfinkiel
	Tutorial 1: Working Group 3 - Radiation in physiologi	cal environments
09:10-10:00	Radiation Damage in Biological Systems	Aidan Meade <i>Dublin</i>
	Tutorial 2: Working Group 5 - Track structure in cells	
10:00-11:00	Damage structure along ion tracks in cell nuclei	Andreas Hauptner Munich
11:00-11:30	Tea/Coffee	
	Tutorial 3: Working Group 2 - Ions and biomolecular	interactions
11:30-12:00	Experiments 1: Ion sources and collisions with isolated biomolecules	Sam Eden <i>Lyon</i>
12:00-12:30	Experiments 2: Ion irradiation of large biomolecules and clusters	Adam Hunniford Belfast
12:30-14:00	Lunch	
	Tutorial 4: Working Group 1 - Electron and biomolecu	ular interactions
14:30-15:00	Theory: Electron-driven molecular processes induced in biological systems by ionizing sources	I. Baccarelli Rome
15:00-15:30	Experiments: Inelastic electron interactions with biomolecules: from gas phase to complex systems	S. Denifl Innsbruck
15:00-15:30	Tea/Coffee	
	Tutorial 5: Working Group 4 - Theoretical developments for radiation damage	
15:30-16:30	Quantum chemical and dynamical tools for solving photochemical problems	Ines Corral Perez <i>Berlin</i>
16:30-	Summary	

Wednesday 20th June

08:30-09:00	Registration	Venue: Front Hall
09:00-10:30	Session 1 WG3-A: Radiation in physiological environments Chair: Nigel Mason, Open University, UK	Venue: Houston Lecture Theatre
09:00-09:40	Mechanisms of Adaptive Radiation Responses in Mammals at Chernobyl	Ron Chesser Texas Tech University, USA
09:40-10:05	Risks & potential damage from Ultraviolet (UV) Radiation used for Phototherapy	Neil O'Hare St James Hospital, Dublin, Ireland
10:05-10:30	The use of X-ray and particle microbeam techniques for investigating DNA damage in cells	Melvyn Folkard Grey Cancer Institute, UK
10:30-11:00	Tea/Coffee break	
11:00-12:30	Session 2 WG1-A: Electrons and biomolecular interactions Chair: Ron Chesser, Texas Tech University, USA	Venue: Houston Lecture Theatre
11:00-11:30	Synchrotron radiation studies of biomolecules	Kevin Prince Elletra, Italy
11:30-12:00	Theoretical calculations of parameters characterising electron impact with biomolecules	Dr.Peter Papp Comenius University, Slovakia
12:00-12:30	Prethermal radiation events in aqueous environments: the tenuous borderline between direct and indirect molecular damages	Yann-A. Gauduel CNRS, France
12:30-13:30	Lunch	

Wednesday 20th June continued

13:30-15:00	Session 3 WG2-A: Ions and biomolecular interactions Chair: Paulo Limao-Vieira, New University of Lisbon, Portugal	Venue: Houston Lecture Theatre
13:30-14:10	Hyperthermal Ions Damage to DNA Components	Michaels Huels University of Sherbrooke, Canada
14:10-14:35	Ion processing of astrophysical ices	Maria Elisabetta Palumbo <i>Catania Astrophysical</i> <i>Observatory, Italy</i>
14:35-15:00	Energetics of ion induced fragmentation of DNA building blocks	Fresia Alvarado University of Groningen, Netherlands
15:00-15:30	Tea/Coffee break	
15:30-17:00	Session 4 WG4-A: Theoretical developments for radiation damage Chair: Herwig Paretzke, GSF-Institut für Strahlenschutz Neuherberg, Germany	Venue: Houston Lecture Theatre
15:30-16:00	Recent applications of the QM/MM method in photochemistry and photobiology	Adalgisa Sinicropi University of Siena, Italy
16:00-16:25	Photochemistry and photophysics of DNA nucleobases	Lluis Blancafort Institut de Química Computational, Girona, Spain
16:25-16:45	Theoretical studies of electron-molecule collisions	Jimena Gorfinkiel The Open University, Milton Keynes, UK
16:45-17:05	Renner-Teller/Jahn Teller intersections along the collinear axes of polyatomic molecules	Ágnes Vibók Department of Theoretical Physics, Debrecen, Hungary
17:05-20:00	Break	
20:00-22:00	Poster Session and Welcome Reception	Venue: College Hall and Board Room

Thursday 21st June

08:30-09:00	Registration	Venue: Front Hall
09:00-10:30	Session 5 WG5-A: Track structure in cells Chair: Fiona Lyng, FOCAS, DIT, Dublin, Ireland	Venue: Houston Lecture Theatre
09:00-09:30	Effect of oxygen on DNA damage caused by ionizing radiation - theoretical modeling approach	Vaclav Stepan Nuclear Physics Institute, Prague, Czech Republic
09:30-10:00	Local changes of higher-order chromatin structure during DSB-repair	Martin Falk Academy of Sciences of Czech Republic, Brno
10:00-10:30	Photoionization at atmospheric pressure of oligodeoxyribonucleotides: strand breaks induced by low energy electrons and hydrogen atoms	Aïcha Bagag ICSN-CNRS, France
10:30-11:00	Tea/Coffee	
11:00-12:30	Session 6 WG1-B: Electron and biomolecular interactions Chair: Kevin McGuigan, RCSI, Dublin, Ireland	Venue: Houston Lecture Theatre
11:00-11:30	VUV irradiation of DNA	Gosia Smialek The Open University, Milton Keynes, UK
11:30-12:00	Electron attachment to gas phase biomolecules in superfluid helium	Stephan Denifl <i>University of Innsbruck,</i> <i>Austria</i>
12:00-12:30	Electron interaction with DNA and deoxyribose analogues	Aleksandar Milosavljevic Institute of Physics, Belgrade, Serbia
12:30-13:30	Lunch	

Thursday 21st June continued

13:30-15:00	Session 7 WG2-B: Radiation in physiological environments Chair: Dimitra Markovitsi Laboratoire Francis Perrin, CEA, France	Venue: Houston Lecture Theatre
13:30-13:40	RADAM '08 Conference, Debrecen, Hungary	Bela Sulik ATOMKI, Debrecen, Hungary
13:40-14:10	Orientation sensitivity of capture fragmentation channels: a study with small molecules of different degree of symmetry	Bela Sulik ATOMKI, Debrecen, Hungary
14:10-14:35	Low Energy Ion Induced Radiation damage to DNA and its components	Adam Hunniford Queen's University Belfast, UK
14:35-15:00	Electron capture induced dissociation of peptide cations	Kristian Støchkel University of Aarhus, Denmark
15:00-15:30	Tea/Coffee break	
15:30-17:00	Session 8 WG3-B: Radiation in physiological environments Chair: Bob McCullough, Queen's University Belfast, UK	Venue: Houston Lecture Theatre
15:30-16:00	Targeting DNA in therenies, using demages to design	
	Targeting DNA in therapies: using damages to design strategies on cell sensitisation	Claudia Lage Universidade Federal do Rio de Janeiro, Brazil
16:00-16:30		Universidade Federal do
16:00-16:30 16:30-17:00	strategies on cell sensitisation	<i>Universidade Federal do</i> <i>Rio de Janeiro, Brazil</i> Herwig Paretzke
	strategies on cell sensitisation Polonium 210: The German Experience It may not take a shillelagh to end a controversy	Universidade Federal do Rio de Janeiro, Brazil Herwig Paretzke GSF Neuherberg, Germany Brenda Laster Ben Gurion University of
16:30-17:00	strategies on cell sensitisation Polonium 210: The German Experience It may not take a shillelagh to end a controversy among radiation scientists	Universidade Federal do Rio de Janeiro, Brazil Herwig Paretzke GSF Neuherberg, Germany Brenda Laster Ben Gurion University of

Friday 22nd June

08:30-09:00	Registration	Venue: Front Hall
08:30-10:00	Session 9 WG4-B: Theoretical developments for radiation damage. Chair: Thomas Schlatholter, University of Groningen, Netherlands	Venue: Houston Lecture Theatre
08:30-09:00	Theoretical study of the fragmentation of small biomolecules by swift ions	Jack Sabin University of Florida, Gainesville, USA
09:00-09:30	UV interactions with DNA helices	Dimitra Markovitsi Laboratoire Francis Perrin, CEA, France
09:30-10:00	Photostability of DNA: ultra-fast deactivation of an excited Guanine-Cytosine base pair	Martial Boggio-Pasqua Imperial College, London, UK
10:00-10:30	Tea/Coffee break	
10:30-12:00	Session 10 WG5-B: Track Structure in Cells Chair: Marie-Christine Bacchus, Université Claude Bernard Lyon 1, France	Venue: Houston Lecture Theatre
10:30-11:00	Interphase chromosomes: structure and radiation damage	Sergey Andreev Institute of Biochemical Physics, Moscow, Russia
11:00-11:30	Models and simulations of radiation induced chromosome damage	Andrea Ottolenghi University of Pavia, Italy
11:30-12:00	Biophysical modelling of DSB repair processes	Werner Friedland GSF Neuherberg, Germany
12:00-	Conference Tour	
	1. Walking Tour of Dublin City Centre (Packed Lunch Provided)	
	2. Bus Tour to Brú na Bóinne Neolithic Site and Interpretive Centre (Packed Lunch Provided)	
19:30-22:00	Conference Dinner	Venue: College Hall and Board Room