



founded in 1931

Nancy Ryan Gray, Ph.D.
Director and President

GORDON RESEARCH CONFERENCES *frontiers of science*

512 LIBERTY LANE, WEST KINGSTON, RI 02892

WORLD WIDE WEB: <http://www.grc.org>

GORDON RESEARCH CONFERENCES

Radiation Chemistry - 2014

FINAL PROGRESS REPORT

Department of Energy
Grant Number DE-SC0011700

The Gordon Research Conference on Radiation Chemistry was held at Proctor Academy, Andover, New Hampshire, July 13-18, 2014. The Conference was well-attended with 102 participants (attendees list attached). The attendees represented the spectrum of endeavor in this field coming from academia, industry, and government laboratories, both U.S. and foreign scientists, senior researchers, young investigators, and students. Of the 102 attendees, 25 voluntarily responded to a general inquiry regarding ethnicity which appears on our registration forms. Of the 25 respondents, 16% were Minorities – 0% Hispanic, 16% Asian and 0% African American. Approximately 28% of the participants at the 2014 meeting were women.

The Gordon Research Seminar on Radiation Chemistry was held at Proctor Academy, Andover, New Hampshire, July 12-13, 2014. The Conference was well-attended with 51 participants (attendees list attached). The attendees represented the spectrum of endeavor in this field coming from academia, industry, and government laboratories, both U.S. and foreign scientists, senior researchers, young investigators, and students. Of the 51 attendees, 10 voluntarily responded to a general inquiry regarding ethnicity which appears on our registration forms. Of the 10 respondents, 10% were Minorities – 0% Hispanic, 10% Asian and 0% African American. Approximately 35% of the participants at the 2014 meeting were women.

In designing the formal speakers program, emphasis was placed on current unpublished research and discussion of the future target areas in this field. There was a conscious effort to stimulate lively discussion about the key issues in the field today. Time for formal presentations was limited in the interest of group discussions. In order that more scientists could communicate their most recent results, poster presentation time was scheduled. Attached is a copy of the formal schedule and speaker program and the poster program. In addition to these formal interactions, "free time" was scheduled to allow informal discussions. Such discussions are fostering new collaborations and joint efforts in the field.

Thank you for your support of this Conference. As you know, in the interest of promoting the presentation of unpublished and frontier-breaking research, Gordon Research Conferences does not permit publication of meeting proceedings. If you wish any further details, please feel free to contact me. Thank you.

Sincerely,
Jay Laverne, Conference Chairperson
University of Notre Dame

Sarah Reiff, Seminar Chairperson
University of Notre Dame

Radiation Chemistry

Radiation Driven Processes in Physics, Chemistry, Biology, and Industry

July 13-18, 2014

Proctor Academy

Andover, NH

Chair:

Jay A. Laverne

Vice Chair:

James F. Wishart

The Gordon Research Seminar (GRS) and Gordon Research Conference (GRC) on Radiation Chemistry: Radiation Driven Processes in Physics, Chemistry, Biology, and Industry focus on the fundamental chemical and physical science of ionizing radiation and their applications. The primary objective of this conference is to catalyze the interchange of new ideas and recent discoveries within the basic radiation sciences of physics, chemistry, and biology, and to facilitate translating this knowledge to applications in medicine and industry.

Capitalizing on its traditional interdisciplinary platform, a major goal of this GRS/GRC is to both educate and promote the next generation of scientists interested in radiation-driven processes. The newly added GRS provides an opportunity for graduate students and postdoctoral fellows to independently organize a meeting that will foster interactions between the young investigators. The GRS, thereby, establishes a camaraderie that extends into the GRC and increases opportunities for young investigators to interact with leaders in all of the radiation science fields. To promote this interaction, the GRC features a "Young Investigators Session" that is designed to showcase early career scientists by giving them an opportunity to present and discuss their work with a diverse audience populated with leaders in fields that span all of the radiation sciences.

The GRS is held 1 day prior to the GRC and will have 4 sessions that encompass a minimum of 4 topics selected from the proffered abstracts to complement and augment the topics presented during the GRC. The GRC will cover 9 general topics: Challenges in the Nuclear Power Industry, Nanoparticles and Radiation, Track Structure and Modeling, Low Energy Electron Radiolysis, Heavy Ion Therapy and Protection, Polymer and Composites Radiolysis, Fast Kinetics in Radiation Chemistry, Radiolysis of Macromolecules, and the "Young Investigator" session.

SUNDAY

2:00 pm - 9:00 pm Arrival and Check-in

6:00 pm Dinner

7:30 pm - 7:40 pm Welcome / Introductory Comments by GRC Site Staff

7:40 pm - 9:30 pm **Challenges in the Nuclear Power Industry**

Discussion Leader: **Clara Wren** (Western University, Canada)

7:40 pm - 8:20 pm **David Shoesmith** (Western University, Canada)

"The Radiolytic Corrosion of Nuclear Fuel Inside a Failed Waste Container"

8:20 pm - 8:35 pm Discussion

8:35 pm - 9:15 pm **Melissa Denecke** (University of Manchester, England)

9:15 pm - 9:30 pm Discussion

MONDAY

7:30 am - 8:30 am Breakfast

9:00 am - 12:30 pm **Low Energy Electron Radiolysis**

Discussion Leader: **Stephen Mezyk** (California State University Long Beach, USA)

9:00 am - 9:40 am **David Grills** (Brookhaven National Laboratory, USA)

"Mechanistic Details of CO₂ Reduction Processes Revealed by Pulse Radiolysis with IR Detection"

9:40 am - 10:00 am Discussion

10:00 am Coffee Break

10:30 am - 11:10 am **Sylwia Ptasinska** (University of Notre Dame, USA)

"Selective Bond Dissociation in Gas-Phase Molecules Induced by Low Energy Electrons"

11:10 am - 11:30 am Discussion

11:30 am - 12:10 pm **Bernd Winter** (Helmholtz-Zentrum Berlin, Germany)

"Proton Dynamics and Electron Scattering in Liquid Water Studied by Photoelectron Spectroscopy"

11:30 am - 12:10 pm Discussion

12:30 pm Lunch

1:30 pm - 4:00 pm Free Time

4:00 pm - 6:00 pm Poster Session

6:00 pm Dinner

7:30 pm - 9:30 pm **Young Investigator Presentations**

Discussion Leader: **James Wishart** (Brookhaven National Laboratory, USA)

7:30 pm - 7:45 pm **Srabanti Ghosh** (University of Paris-Sud, France)

"One-Dimensional Conducting Polymer Nanostructures and Hybrid Composites Synthesized in Swollen Hexagonal Mesophases for Energy Applications"

7:45 pm - 7:50 pm Discussion

7:50 pm - 8:05 pm **Sylvain Massey** (University of Sherbrooke, Canada)

"'Oxygen Effect' on DNA Studied by Low-Energy Electron Stimulated Desorption"

8:05 pm - 8:10 pm Discussion

8:10 pm - 8:25 pm **Pierre-Olivier Lahaie** (University of Sherbrooke, Canada)

"Desorption and Polymerisation Induced by Low Energy Electron (Less-Than 50 eV) Quantification in Films of DNA Building Blocks"

8:25 pm - 8:30 pm Discussion

8:30 pm - 8:45 pm **Natascia Grimaldi** (Università degli Studi di Palermo, Italy)

"E-Beam Crosslinked PVP-Based Nanogels as Building Blocks for the Assembly of

	Tumor-Target Nanodevices"
8:45 pm - 8:50 pm	Discussion
8:50 pm - 9:05 pm	Michele Dawley (Notre Dame Radiation Laboratory, USA) "Dissociative Electron Attachment to Gas Phase N-Methylformamide"
9:05 pm - 9:10 pm	Discussion
9:10 pm - 9:25 pm	Suraj Dev Prakash Dhiman (Brookhaven National Laboratory, USA) "Gamma and Heavy Ion Radiolysis of Ionic Liquids: A Comparative Study"
9:25 pm - 9:30 pm	Discussion
TUESDAY	
7:30 am - 8:30 am	Breakfast
8:30 am	Group Photo
9:00 am - 12:30 pm	Radiolysis of Macromolecules Discussion Leader: Amanda Bryant-Friedrich (University of Toledo, USA)
9:00 am - 9:40 am	Krzysztof Bobrowski (Institute of Nuclear Chemistry and Technology, Warsaw, Poland) "Oxidation of Peptides Containing Sulfur Amino Acids"
9:40 am - 10:00 am	Discussion
10:00 am	Coffee Break
10:30 am - 11:10 am	Peter O'Neill (Oxford University, England) "Radiation-Induced DNA Damage in Living Cells - Watching the Repair Proteins Come and Go in Real Time"
11:10 am - 11:30 am	Discussion
11:30 am - 12:10 pm	Amit Adhikary (Oakland University, USA) "Effect of Base and Backbone Modifications on Radiation-Induced Damage in DNA"
11:30 am - 12:10 pm	Discussion
12:30 pm	Lunch
1:30 pm - 4:00 pm	Free Time
4:00 pm - 6:00 pm	<u>Poster Session</u>
6:00 pm	Dinner
7:30 pm - 9:30 pm	Track Structure and Modeling Discussion Leader: Simon Pimblott (Manchester University, England)
7:30 pm - 8:10 pm	Zdenka Kuncic (University of Sydney, Australia) "Computational Radiation Biophysics: Challenges and Opportunities"
8:10 pm - 8:30 pm	Discussion
8:30 pm - 9:10 pm	Mathieu Karamitros (Université Bordeaux, France) "Overview and Recent Developments of the Geant4-DNA Project"
9:10 pm - 9:30 pm	Discussion

WEDNESDAY

7:30 am - 8:30 am Breakfast

9:00 am - 12:30 pm **Nanoparticles and Radiation**

Discussion Leader: **Mats Jonsson** (KTH, Sweden)

9:00 am - 9:40 am **Hynd Remita** (University of Paris-Sud, France)

"Nanomaterials Induced in Mesophases by Radiolysis: Synthesis and Applications"

9:40 am - 10:00 am Discussion

10:00 am Coffee Break

10:30 am - 11:10 am **Sudipta Seal** (University of Central Florida, USA)

"Role of Nanotechnology in Radiation Research"

11:10 am - 11:30 am Discussion

11:30 am - 12:10 pm **Fred J. Currell** (Queens University Belfast, Northern Ireland)

"Radiation Chemistry of Gold Nanoparticles in Aqueous Environments"

11:30 am - 12:10 pm Discussion

12:30 pm Lunch

1:30 pm - 4:00 pm Free Time

4:00 pm - 6:00 pm Poster Session

6:00 pm Dinner

7:00 pm - 7:30 pm Business Meeting

Nominations for the Next Vice Chair; Fill in Conference Evaluation Forms; Discuss Future Site and Scheduling Preferences; Election of the Next Vice Chair

7:30 pm - 9:30 pm **Hadron Therapy and Protection**

Discussion Leader: **Jorge Kohanoff** (Queen's University Belfast)

7:30 pm - 8:10 pm **Karen Kirkby** (University of Surrey, England)

"Ion Beams and Cancer - From Bench to Bedside"

8:10 pm - 8:30 pm Discussion

8:30 pm - 9:10 pm **Gerard Baldacchino** (CEA Saclay, France)

"Extreme Conditions of T and LET in Water Radiolysis. Implications in Nuclear Industry and Hadrontherapy"

9:10 pm - 9:30 pm Discussion

THURSDAY

7:30 am - 8:30 am Breakfast

9:00 am - 12:30 pm **Fast Kinetics in Radiation Chemistry**

Discussion Leader: **Andrew Cook** (Brookhaven National Laboratory, USA)

9:00 am - 9:40 am **Yosuke Katsumura** (University of Tokyo, Japan)

"A Pulse Radiolysis Study on High Temperature Liquids"

9:40 am - 10:00 am Discussion

10:00 am Coffee Break

10:30 am - 11:10 am **Mehran Mostafavi** (University of Paris-Sud, France)
 "New Findings About the Short Lived and Powerful Oxidizing Species: $\text{H}_2\text{O}^{\circ+}$ "

11:10 am - 11:30 am Discussion

11:30 am - 12:10 pm **Kenji Takahashi** (Kanasawa University, Japan)
 "Excess Electron in Ionic Liquids - Kinetics, Spectra and Dynamics"

11:30 am - 12:10 pm Discussion

12:30 pm Lunch

1:30 pm - 4:00 pm Free Time

4:00 pm - 6:00 pm Poster Session

6:00 pm Dinner

7:30 pm - 9:30 pm **Polymer and Composite Radiolysis**
 Discussion Leader: **Clelia Dispenza** (Università degli Studi di Palermo, Italy)

7:30 pm - 8:10 pm **Mohamad Al-Sheikhly** (University of Maryland, USA)
 "Radiolytic Synthesis of Absorbent-Grafted Polymers for Extraction of Uranium from Seawater"

8:10 pm - 8:30 pm Discussion

8:30 pm - 9:10 pm **Marie-Claude Clochard** (Ecole Polytech, France)
 "Ion Track Polymer Membrane, a Versatile Tool for Research and Applications"

9:10 pm - 9:30 pm Discussion

FRIDAY

7:30 am - 8:30 am Breakfast

9:00 am Departure

Radiation Chemistry (GRS)

Gordon Research Seminar

Radiation Driven Processes in Physics, Chemistry, Biology and Industry

July 12-13, 2014

Proctor Academy

Andover, NH

Chair:

Sarah C. Reiff

The Gordon Research Seminar on Radiation Chemistry is a unique forum for graduate students, post-docs, and other scientists with comparable levels of experience and education to present and exchange new data and cutting edge ideas.

The focus of this meeting is to promote the exchange of new ideas and recent discoveries within the basic sciences of physics, chemistry, and biology with regards to radiation driven processes. Applied research with applications in medicine and industry will also be emphasized.

SATURDAY

1:00 pm - 5:00 pm Arrival and Check-in

3:30 pm - 3:45 pm Introductory Comments by GRC Site Staff / Welcome by the GRS Conference Chair

3:45 pm - 4:30 pm **Keynote Session**

Discussion Leader: **Sarah Reiff** (Notre Dame Radiation Laboratory)

3:45 pm - 4:15 pm **Jay LaVerne** (Notre Dame Radiation Laboratory) and **James Wishart** (Brookhaven National Laboratory)
"Radiation Chemistry in Everyday Life"

4:15 pm - 4:30 pm Discussion

4:30 pm - 6:00 pm Poster Session I

6:00 pm Dinner

7:30 pm - 9:30 pm **Applications of Radiation Chemistry in Industry**

Discussion Leader: **Jennifer Schofield** (University of Manchester)

7:30 pm - 7:50 pm **Gregory Horne** (University of Manchester)
"Investigation into the Radiolysis of the PUREX Solvent Systems"

7:50 pm - 8:00 pm Discussion

8:00 pm - 8:20 pm **Daniel Ortiz** (CEA Saclay)
"Analytical Investigation on Electrolyte Degradation Products After Irradiation in Lithium Ion Batteries"

8:20 pm - 8:30 pm Discussion

8:30 pm - 8:50 pm **Eleonora Pellizzi** (CEA Saclay)
"Linear Energy Transfer and Temperature Influence on the Gas Radiolytic Yields of Polymers: The Case of PVC, PE, and Cellulose"

8:50 pm - 9:00 pm Discussion

- 9:00 pm - 9:20 pm **Andrew Palm** (State University of New York College of Environmental Science and Forestry)
"Mechanical Properties of a Wood-Plastic Composite Crosslinked with Ionizing Radiation"
- 9:20 pm - 9:30 pm Discussion

SUNDAY

- 7:30 am - 8:30 am Breakfast
- 9:00 am - 11:00 am **Radiation Processes in Biological Materials**
Discussion Leader: **Xu Han** (Notre Dame Radiation Laboratory)
- 9:00 am - 9:20 am **Konrad Skotnicki** (Institute of Nuclear Chemistry and Technology)
"Radiation-Induced Radical Processes Involving Amino Acids and Quinoxalin-2-One Derivatives Relevant to Their Pharmacological Applications"
- 9:20 am - 9:30 am Discussion
- 9:30 am - 9:50 am **Matthew Bird** (Brookhaven National Laboratory)
"Mobility of Holes on Oligo- and Polyfluorenes of Defined Lengths Measured by Pulse Radiolysis Time Resolved Microwave Conductivity (PR-TRMC)"
- 9:50 am - 10:00 am Discussion
- 10:00 am - 10:20 am **Soumen Das** (University of Central Florida)
"Engineered Mixed Valence State Cerium Oxide Nanoparticles Ameliorate Radiation Induced DNA Damage to Male Germ Cells"
- 10:20 am - 10:30 am Discussion
- 10:30 am - 10:50 am **Saloua Sahbani** (University of Sherbrooke)
"Low Energy Electrons Induce Lethal Lesions in DNA as Measured by the Loss of Plasmid Functionality"
- 10:50 am - 11:00 am Discussion
- 11:00 am - 12:30 pm Poster Session II
Coffee will be served in the poster area from 11:00 am - 11:30 am
- 12:30 pm Lunch
- 1:30 pm - 2:30 pm **Fundamental Radiation Chemistry Research**
Discussion Leader: **Ana Laura Luna** (University of Paris-Sud)
- 1:30 pm - 1:50 pm **Sergey Ryazantsev** (Lomonosov Moscow State University)
"Dynamics and Reactions of the Radiation-Induced Oxygen Atoms in Rare-Gas Solids"
- 1:50 pm - 2:00 pm Discussion
- 2:00 pm - 2:20 pm **Mina Mozafari** (Simon Fraser University)
"Investigation of H Atom and Free Radical Behavior in Gas Hydrates"
- 2:20 pm - 2:30 pm Discussion
- 2:30 pm - 3:00 pm Evaluation Period

Fill in GRS Evaluation Forms

3:00 pm

Seminar Concludes

Radiation Chemistry (2014)

Name	Organization	Participation	Status
Adhikary, Amitava	Oakland University	Speaker	Registered
Al-Sheikhly, Mohamad	University of Maryland	Speaker	Registered
Baidak, Aliaksandr	University of Manchester	Poster Presenter	Registered
Baldacchino, Gerard	CEA Saclay	Speaker	Registered
Barkam, Swetha	University of Central Florida	Poster Presenter	Registered
Bartels, David M	Notre Dame Radiation Laboratory	Poster Presenter	Registered
Behmand, Behnaz	University de Sherbrooke	Poster Presenter	Registered
Bird, Matt J	Brookhaven National Lab	Poster Presenter	Registered
Bobrowski, Krzysztof	Institute of Nuclear Chemistry and Technology	Speaker	Registered
Boncher, William L	Los Alamos National Lab	Poster Presenter	Registered
Bryant-Friedrich, Amanda	University of Toledo	Poster Presenter	Registered
Cabelli, Diane Esther	Brookhaven National Laboratory	Attendee	Registered
Cantrell, William A	Notre Dame Radiation Laboratory	Poster Presenter	Registered
Carmichael, Ian	Notre Dame Radiation Laboratory	Attendee	Registered
Clochard, Marie-Claude	CEA	Speaker	Registered
Close, David M	East Tennessee State University	Attendee	Registered
Cook, Andrew R	Brookhaven National Laboratory	Discussion Leader	Registered
Coqueret, Xavier	Universite de Reims Champagne Ardenne	Poster Presenter	Registered
Currell, Fred	Queens University Belfast	Speaker	Registered
Das, Soumen	University Of Central Florida	Poster Presenter	Registered
Dawley, M. Michele	University of Notre Dame	Poster Presenter	Registered
Denecke, Melissa	University of Manchester	Speaker	Registered
Dhiman, Suraj Dev Prakash B	Brookhaven National Laboratory	Poster Presenter	Registered
Dingfelder, Michael	East Carolina University	Poster Presenter	Registered
Dispenza, Clelia	Università degli Studi di Palermo	Attendee	Registered
Donoclift, Thomas A	University of Manchester	Poster Presenter	Registered
Driscoll, Mark S	SUNY College of Environmental Science and Forestry	Poster Presenter	Registered
England, Matthew J	University of Surrey	Poster Presenter	Registered
Esmaili, Sasan	University of Sherbrooke	Poster Presenter	Registered
Farah, Jad	IRSN - Inst. Radiol Prot & Nucl Saf	Poster Presenter	Registered
Ghosh, Srabanti	University de Paris SUD 11	Poster Presenter	Registered
Gohdo, Masao	ISIR, Osaka University	Poster Presenter	Registered
Grills, David C	Brookhaven National Laboratory	Poster Presenter	Registered
Grimaldi, Natascia	Università di Palermo	Poster Presenter	Registered
Han, Xu	University of Notre Dame	Poster Presenter	Registered
Hatomoto, Daisuke	Osaka University	Poster Presenter	Registered
Horne, Gregory P	University of Manchester	Poster Presenter	Registered
Janik, Ireneusz	University of Notre Dame	Poster Presenter	Registered
Jonsson, Mats	KTH Royal Institute of Technology	Poster Presenter	Registered
Kaddissy, Josiane	Commissariat l'Energie Atomique, CEA-Saclay,	Poster Presenter	Registered
Kadlubowski, Slawomir	Lodz University of Technology	Poster Presenter	Registered
Kaga, Toshiki	Kanazawa University	Poster Presenter	Registered
Kanjana, Kotchapphan	University of Notre Dame	Poster Presenter	Registered
Karamitros, Mathieu	University de Bordeaux	Speaker	Registered

Katsumura, Yosuke	University of Tokyo	Speaker	Registered
Kim, Byungnam	Korea Atomic Energy Research Institute	Poster Presenter	Registered
Kirkby, Karen	University of Surry	Speaker	Registered
Kohanoff, Jorge	Queen's University Belfast	Poster Presenter	Registered
Kondoh, Takafumi	ISIR, Osaka University	Poster Presenter	Registered
Kumar, Anil	Oakland University	Poster Presenter	Registered
Kuncic, Zdenka	University of Sydney	Speaker	Registered
Lahaie, Pierre-Olivier	Université de Sherbrooke	Poster Presenter	Registered
Laverne, Jay A	University of Notre Dame	Chair	Registered
Luna, Ana Laura	LCP Universite Paris Sud	Poster Presenter	Registered
Madden, Keith P	Ivy Tech Community College	Poster Presenter	Registered
Maeyama, Takuya	RIKEN	Poster Presenter	Registered
Mani, Tomoyasu	Brookhaven National Laboratory	Poster Presenter	Registered
Massey, Sylvain	University of Sherbrooke	Poster Presenter	Registered
Mayhead, Natalie M	University of Surrey	Poster Presenter	Registered
Mc Allister, Maeve	Queens University Belfast	Poster Presenter	Registered
Meylan, Sylvain	Institut de Radioprotection et de Suret Nuclear	Poster Presenter	Registered
Mezyk, Stephen P	California State University	Attendee	Registered
Morehouse, Kim M	Food and Drug Administration	Poster Presenter	Registered
Mostafavi, Mehran	University Paris-sud	Speaker	Registered
Mozafari, Mina	Simon Fraser University	Poster Presenter	Registered
Muroya, Yusa Ym	ISIR, Osaka University	Poster Presenter	Registered
Musat, Raluca M	Kanazawa University	Poster Presenter	Registered
Nishii, Satoshi	ISIR, Osaka University	Poster Presenter	Registered
O'Neill, Peter	University of Oxford	Speaker	Registered
Ortiz, Daniel	Commissariat a l'Energie Atomique et Aux Energies	Attendee	Registered
Palm, Andrew D	SUNY College of Environmental Science and Forestry	Poster Presenter	Registered
Paquirissamy, Aurelie	CEA Saclay	Attendee	Registered
Pellizzi, Eleonora	CEA Saclay	Poster Presenter	Registered
Pimblott, Simon M	University of Manchester	Discussion Leader	Registered
Precek, Martin	Institute of Physics, AS CR	Poster Presenter	Registered
Ptasinska, Sylwia	University of Notre Dame	Speaker	Registered
Reiff, Sarah C	University of Notre Dame	Poster Presenter	Registered
Remita, Hynd	CNRS/ University Paris-Sud, Orsay	Speaker	Registered
Ryazantsev, Sergey	Lomonosov Moscow State University	Poster Presenter	Registered
Sahbani, Saloua	Faculty of medecine of Sherbrooke	Poster Presenter	Registered
Schofield, Jennifer	The University of Manchester	Poster Presenter	Registered
Seal, Sudipta	University of Central Florida	Speaker	Registered
Shoesmith, David W	Western University	Speaker	Registered
Skotnicki, Konrad Mr	Institute of Nuclear Chemistry and Technology	Poster Presenter	Registered
Smith, Marisa E	University of Manchester	Poster Presenter	Registered
Steele, Samantha E	SUNY Environmental Science and Forestry	Poster Presenter	Registered
Sterniczuk, Marcin	University of Notre Dame	Poster Presenter	Registered
Stuart, Craig R	Atomic Energy of Canada Limited	Attendee	Registered
Swarts, Steven G	University of Florida	Poster Presenter	Registered
Swiatla-Wojcik, Dorota M	Technical University of Lodz	Poster Presenter	Registered
Takahashi, Kenji	Kanazawa University	Speaker	Registered

Toigawa, Tomohiro	Osaka University	Poster Presenter	Registered
Traboulsi, Ali	SUBATECH Laboratory	Poster Presenter	Registered
Tweddle, Zoe L	University of Manchester	Poster Presenter	Registered
Ulanski, Piotr	Lodz University of Technology	Poster Presenter	Registered
Vyushkova, Mariya	Notre Dame Radiation Laboratory	Poster Presenter	Registered
Winter, Bernd	Helmholtz Zentrum Berlin	Speaker	Registered
Wishart, James F	Brookhaven National Laboratory	Vice Chair	Registered
Wren, Clara	University of Western Ontario	Discussion Leader	Registered
Yamaso, Suguru	ISIR, Osaka University	Poster Presenter	Registered
Yang, Miao	KTH, Royal Institute of Technology, Sweden	Poster Presenter	Registered
Yoshida, Yoichi	Osaka University	Poster Presenter	Registered
102 Attendees			

Radiation Chemistry (GRS) (2014)

Name	Organization	Participation	Status
Baidak, Aliaksandr	University of Manchester	Poster Presenter	Registered
Barkam, Swetha	University of Central Florida	Poster Presenter	Registered
Behmand, Behnaz	University de Sherbrooke	Poster Presenter	Registered
Bird, Matt J	Brookhaven National Lab	Poster Presenter	Registered
Boncher, William L	Los Alamos National Lab	Poster Presenter	Registered
Cantrell, William A	Notre Dame Radiation Laboratory	Poster Presenter	Registered
Das, Soumen	University Of Central Florida	Poster Presenter	Registered
Dawley, M. Michele	University of Notre Dame	Poster Presenter	Registered
Dhiman, Suraj Dev Prakash B	Brookhaven National Laboratory	Discussion Leader	Registered
Donocliift, Thomas A	University of Manchester	Poster Presenter	Registered
England, Matthew J	University of Surrey	Poster Presenter	Registered
Esmaili, Sasan	University of Sherbrooke	Poster Presenter	Registered
Farah, Jad	IRSN - Inst. Radiol Prot & Nucl Saf	Poster Presenter	Registered
Ghosh, Srabanti	University de Paris SUD 11	Poster Presenter	Registered
Grimaldi, Natascia	Università di Palermo	Poster Presenter	Registered
Han, Xu	University of Notre Dame	Poster Presenter	Registered
Horne, Gregory P	University of Manchester	Poster Presenter	Registered
Kaddissy, Josiane	Commissariat l'Energie Atomique, CEA-Saclay,	Poster Presenter	Registered
Kadlubowski, Slawomir	Lodz University of Technology	Poster Presenter	Registered
Kaga, Toshiaki	Kanazawa University	Poster Presenter	Registered
Kanjana, Kotchaphan	University of Notre Dame	Poster Presenter	Registered
Karamitros, Mathieu	University de Bordeaux	Poster Presenter	Registered
Lahaie, Pierre-Olivier	Université de Sherbrooke	Poster Presenter	Registered
Laverne, Jay A	University of Notre Dame	Speaker	Registered
Luna, Ana Laura	LCP Université Paris Sud	Poster Presenter	Registered
Maeyama, Takuya	RIKEN	Poster Presenter	Registered
Massey, Sylvain	University of Sherbrooke	Poster Presenter	Registered
Mayhead, Natalie M	University of Surrey	Poster Presenter	Registered
Mc Allister, Maeve	Queens University Belfast	Poster Presenter	Registered
Meylan, Sylvain	Institut de Radioprotection et de Sûreté Nuclear	Poster Presenter	Registered
Mozafari, Mina	Simon Fraser University	Poster Presenter	Registered
Nishii, Satoshi	ISIR, Osaka University	Poster Presenter	Registered

Ortiz, Daniel	Commissariat a l'Energie Atomique et Aux Energies	Poster Presenter	Registered
Palm, Andrew D	SUNY College of Environmental Science and Forestry	Poster Presenter	Registered
Paquirissamy, Aurelie	CEA Saclay	Poster Presenter	Registered
Pellizzi, Eleonora	CEA Saclay	Poster Presenter	Registered
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Ryazantsev, Sergey	Lomonosov Moscow State University	Poster Presenter	Registered
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Skotnicki, Konrad Mr	Institute of Nuclear Chemistry and Technology	Poster Presenter	Registered
Smith, Marisa E	University of Manchester	Poster Presenter	Registered
Steele, Samantha E	SUNY Environmental Science and Forestry	Poster Presenter	Registered
Sterniczuk, Marcin	University of Notre Dame	Poster Presenter	Registered
Toigawa, Tomohiro	Osaka University	Poster Presenter	Registered
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Tweddle, Zoe L	University of Manchester	Poster Presenter	Registered
Vyushkova, Mariya	Notre Dame Radiation Laboratory	Poster Presenter	Registered
Wishart, James F	Brookhaven National Laboratory	Speaker	Registered
Yamaso, Suguru	ISIR, Osaka University	Poster Presenter	Registered
Yang, Miao	KTH, Royal Institute of Technology, Sweden	Poster Presenter	Registered
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