

## PROGRAMME (CET Time Zone)

Thursday, 10 February	
12:00 – 12:10	<b>OPENING OF THE WORKSHOP – Mats Jonsson</b> (Sweden)
Chairperson: <b>Jai Pal Mittal</b> (India)	
INVITED LECTURE	
12:10 – 12:40	<b>I1: Prof. Beena G. Singh</b> (India) <i>Role of Gold Nanoparticles on the Free Radical Reaction of Antioxidants</i>
ORAL PRESENTATIONS (EARLY CAREER SCIENTISTS)	
12:40 – 13:00	<b>O1: Souad Abou-Zeid</b> (France) <i>Radiation Induced Reduction of Graphene Oxide: Application in Energy Storage</i>
13:00 – 13:20	<b>O2: Julien Audouin</b> (France) <i>Radiolytic Yields Along an Energetic Proton Track-End in Water Using an In-Line 2D Spectrophotometer</i>
13:20 – 13:40	<b>O3: Antoine Danvin</b> (France) <i>Dose-Rate Effects on the Yields of Hydroxyl Radical Under Irradiation by 1 MeV Electrons</i>
13:40 – 14:00	<b>O4: Sawsan El Jamal</b> (Sweden) <i>Radiation-Induced Dissolution of Uranium Carbide and Uranium Nitride in Aqueous Systems</i>
14:00 – 14:10	Coffee break
Chairperson: <b>Jay LaVerne</b> (USA)	
14:10 – 14:40	<b>I2: Dr. Gregory P. Horne</b> (USA) <i>The Role of Pulse Radiolysis in Advanced Nuclear Fuel Cycles</i>
ORAL PRESENTATIONS (EARLY CAREER SCIENTISTS)	
14:40 – 15:00	<b>O5: Hanna Hlushko</b> (USA) <i>Water Radiolysis on Surfaces of Various Zirconium Compounds</i>
15:00 – 15:20	<b>O6: Kazuhiro Iwamatsu</b> (USA) <i>Pulse Radiolysis Study of Metal Additives in Molten LiCl-KCl Salt</i>
15:20 – 15:40	<b>O7: Christian Laube</b> (Germany) <i>Probing Radiation Chemistry inside Electron Transmission Microscopy Liquid Cells</i>

15:40 – 16:00	<b>O8: Ivan Marić</b> (Croatia) <i>Synthesis of Magnetic Iron Oxide/Au Nanostructures Using the <math>\gamma</math>-Irradiation Method</i>
16:00 – 16:05	Coffee break
Chairperson: <b>James Wishart</b> (USA)	
FLASH PRESENTATIONS (EARLY CAREER SCIENTISTS)	
16:05 – 16:10	<b>F1: Susmita Bhattacharya</b> (USA) <i>Comparison of Transient Raman Spectra of Hydrated Dimer Radical Cations of Thiourea and Selenourea</i>
16:10 – 16:15	<b>F2: Jacy K. Conrad</b> (USA) <i>Multiscale Modeling of the Radical-Induced Chemistry of Acetohydroxamic Acid in Aqueous Solution</i>
16:15 – 16:20	<b>F3: Vladimir D. Drabkin</b> (Russia) <i>CH<sub>3</sub>CN Complexes with Water and Carbon Dioxide and Their Radiation-Induced Transformations in Low-Temperature Matrices</i>
16:20 – 16:25	<b>F4: Bin Gu</b> (China) <i>Bragg's Additivity Rule and Core and Bond Model of Water Vapor Studied by Real-Time TDDFT Electronic Stopping Calculations</i>
16:25 – 16:30	<b>F5: Renáta Homlok</b> (Hungary) <i>Effect of Electron Beam Irradiation and the Presence of Antibiotics on the Population Dynamics of Resistant/Sensitive Bacterial Cultures in Model Wastewater Matrix</i>
16:30 – 16:35	<b>F6: Patricia L. Huestis</b> (USA) <i>Exploring Physical and Chemical Effects of Radiation on Explosives</i>
16:35 – 16:40	<b>F7: Stephen Kabasa</b> (Poland) <i>Computer Simulated Degradation of CFCl<sub>3</sub> Under Electron Beam</i>
16:40 – 16:45	<b>F8: Junyi Li</b> (Sweden) <i>Radiation Induced Dissolution of Studtite and Meta-Studtite</i>

<b>Friday, 11 February</b>	
Chairperson: <b>Chantal Houée-Levin</b> (France)	
INVITED LECTURE	
12:00 – 12:30	<b>I3: Prof. Xavier Coqueret</b> (France) <i>From Starch to Pullulan and Nanocellulose: The Radiation Chemistry of Polysaccharides Illustrated Through Examples</i>
ORAL PRESENTATIONS (EARLY CAREER SCIENTISTS)	

12:30 – 12:50	<b>O9: Yogitabali M. Narode</b> (India) <i>Catalytic Role of Gold Nanoparticles in Free Radical Induced Oxidation of Tyrosine</i>
12:50 – 13:10	<b>O10: Mel O'Leary</b> (UK) <i>Novel Radiation Driven Dynamics in Nanoparticle Sludges</i>
13:10 – 13:30	<b>O11: Daniel Olsson</b> (Sweden) <i>Effects of H<sub>2</sub>O<sub>2</sub> Speciation in Radiation Induced Dissolution of UO<sub>2</sub>-Based Nuclear Fuel</i>
13:30 – 13:50	<b>O12: Stephenson B. Owusu</b> (USA) <i>Pulse Radiolysis of Acetate, Malonate and Succinate in High Temperature Water</i>
13:50 – 14:00	Coffee break
Chairperson: <b>Krzysztof Bobrowski</b> (Poland)	
FLASH PRESENTATIONS (EARLY CAREER SCIENTISTS)	
14:00 – 14:05	<b>F9: Mariia A. Lukianova</b> (Russia) <i>Radiation-Induced Assembling of Benzene and Naphthalene Molecules from Molecular Aggregates and Complexes at Low Temperatures</i>
14:05 – 14:10	<b>F10: Karwan Omar</b> (France) <i>Effect of Biomolecule Environment on the Energy Deposition of Swift Charge Particles by First Principles Simulations</i>
14:10 – 14:15	<b>F11: Ilya S. Sosulin</b> (Russia) <i>Reactions of the Radiation-Induced Oxygen Atoms With Fluoroform and its Radiolysis Products: A Model Matrix Isolation and Ab Initio Study</i>
14:15 – 14:20	<b>F12: Roman L. Sverdlov</b> (Belarus) <i>The Influence of H/D Kinetic Isotope Effect and Structure of <math>\alpha</math>-Diols on Their Radiation-Induced Fragmentation in Deaerated Aqueous Solutions</i>
14:20 – 14:25	<b>F13: Jamila Taibi</b> (France) <i>Radio-Grafting of Phosphorus Flame Retardant on Flax Fabrics: Pre-Irradiation Method</i>
14:25 – 14:30	<b>F14: Anastasia D. Volosatova</b> (Russia) <i>Radiation-Chemical Synthesis of C<sub>2</sub> and C<sub>3</sub> Nitriles in Cryogenic Media</i>
14:30 – 14:35	<b>F15: Hanqin Weng</b> (China & Japan) <i><math>\gamma</math>-Radiation-Induced Hydroxylation on Boron Nitride Nanosheets for Selective Oxidative Dehydrogenation of Propane</i>
14:35 – 14:40	<b>F16: Yi Yang</b> (Sweden) <i><math>\gamma</math>-Radiation Induced Synthesis of Ag Nanoparticles Using an Ionomer as Size Regulator</i>

14:40 – 16:40	<b>POSTER SESSION</b> (on Gather Platform)
16:40 – 14:30 (next day)	<b>Gather space will remain open for 24 hrs for scientific discussions and general socialising</b>

<b>Saturday, 12 February</b>	
Chairperson: <b>Erzsébet Takács</b> (Hungary)	
INVITED LECTURE	
12:00 – 12:30	<b>I4: Prof. Tsuneaki Sakurai</b> (Japan) <i>Fabrication of Organic Nanowires Developed by Radiation-Triggered Polymerization of Organic Molecules in Heavy Ion Tracks</i>
ORAL PRESENTATIONS (EARLY CAREER SCIENTIST)	
12:30 – 12:50	<b>O13: Aashini Rajpal</b> (France) <i>Detecting Superoxide Radical Anions in the Aqueous Medium, Resulting from Core-Shell Ionization Upon Exposure to Soft X-Rays</i>
12:50 – 13:10	<b>O14: Alejandro Ramos-Ballesteros</b> (USA) <i>Radiolytic Reduction of Li and Mg in Solid Chlorides</i>
13:10 – 13:30	<b>O15: Anna Tegze</b> (Hungary) <i>Radiation Induced Degradation of Fluoroquinolone Antibiotics in Aqueous Solution</i>
13:30 – 13:50	<b>O16: Eric C. Wu</b> (USA) <i>The Effects of Electrolytes on the Spectroscopy and Dynamics of Hydrated Electrons</i>
13:50 – 14:00	Coffee break
Chairperson: <b>Clara Wren</b> (Canada)	
14:00 – 14:30	<b>I5: Prof. Sylwia Ptasinska</b> (USA) <i>Importance of Radiation Chemistry to Low-Temperature Plasmas</i>
ORAL PRESENTATIONS (EARLY CAREER SCIENTISTS)	
14:30 – 14:50	<b>O17: Hao Yu</b> (Japan) <i>Radiation-Induced DNA Damage and Selective Protection by Antioxidants</i>
14:50 – 15:10	<b>O18: Guillaume Zante</b> (France) <i>Grafted Mesoporous Silicas for Radionuclide Uptake: Radiolytic Stability Under Electron Irradiation</i>

15:10 – 15:30	<b>O19: Pavel V. Zasimov</b> (Russia) <i>C<sub>2</sub>H<sub>2</sub>...CO complex and its Radiation-Induced Transformations: A Building Block for Cold Synthetic Astrochemistry</i>
15:30 – 15:50	<b>O20: Alexey A. Zharikov</b> (Russia) <i>One-Pot Radiation-Induced Preparation of Metal–Polymer Nanocomposites in Aqueous Solutions of 1-Vinyl-1, 2, 4-Triazole Containing Silver Ions</i>
15:50 – 16:00	<b>CLOSING OF THE WORKSHOP – Mats Jonsson</b> (Sweden)