

European Summer School
1 - 5 July 2024 (Strasbourg- Karlsruhe)
**Radiation Measurements and Radiochemistry in Environment and
Decommissioning**
Scientific program
(version 02/07/2024)

Monday July 1th : Faculty of Physics and Engineering	
15h - 17h00	Registration and Poster installation
17h - 18 h00	Welcome Reception
Tuesday July 2th Amphi Carnot - Faculty of Physics and Engineering	
9h00 -9h30	Opening and Welcome: Prof. Rémi Barillon: Vice President of University of Strasbourg Prof. Luc Hebrard: Dean of Faculty of Physics and Engineering, University of Strasbourg Prof. Abdel-Mjid NOURREDDINE: IPHC Strasbourg
09h30 – 10h30	Radioactivity, friend or foe of life on earth? Speaker : Dr. Vincent BRETON, Laboratoire de Physique de Clermont-Ferrand, Clermont-Ferrand, France
10h30 - 11h00	Coffee break and poster session
11h00 - 12h00	From polonium to nihonium – radiochemical research at the Paul Scherrer Institute Speaker: Prof. Patrick Julian STEINEGGER, Paul Scherrer Institut/ETH Zurich, Switzerland
12h00-13h30	Lunch
13h30 - 14h30	Radiation damage studies: fuels and actinides compounds Speaker: Dr. Thierry WISS, JRC, Karlsruhe, Germany
14h30 - 1530	Chemical decontamination of metallic waste and measurement of radionuclides Speaker: Dr. Tomo SUZUKI, Subatech Laboratory, Nantes, France
15h30 - 16h00	Coffee break and poster session
16h00 -17h00	Characterization methodologies and management of radioactive waste at CERN Speaker: Dr. Nabil MENAA CERN , Genève, Switzerland
17h30 –	Social program (welcome reception at the Hotel de Ville)
Wednesday July 3th : Karlsruhe Institute of Technology (Germany)	
07h30	Bus to Karlsruhe Institute of Technology - Institute for Nuclear Waste
09h00	Arrival at KIT-Campus North entrance
09h30	Research at the Institute for Nuclear Waste Disposal Speaker: Prof. Horst GECKEIS, KIT-INE, Karlsruhe, Germany
09h45	Accelerator Mass spectrometry (AMS) for radionuclide analysis Speaker: Dr. Francesca QUINTO, KIT-INE, Karlsruhe, Germany
11h15	Decommissioning of nuclear facilities Speaker: Dr. Carla KRAUSS, KIT-TMB, Karlsruhe, Germany
12h	Transfer INE - Casino
12h15	Lunch
13h45	Transfer Casino – KARA
14h00	Introduction to accelerator research at KIT-IBPT Speaker: Dr. Bastian HÄRER, KIT Karlsruhe, Germany
14h45	Hard X-ray XAS investigations of high level nuclear waste forms (HLW) at the KIT Light Source Speaker: Dr. Jorg ROTHE, KIT-INE, Karlsruhe, Germany
15h15	Actinide electronic structure and speciation using high energy resolution X-ray absorption and emission spectroscopy Speaker: Dr. Tonya VITOVA, KIT-INE, Karlsruhe, Germany
16h00	Visit: Synchrotron based X-ray spectroscopic characterization of radionuclides
17h00	Retour Bus

Thursday July 4th : Amphi Grünewald - Institut Pluridisciplinaire Hubert Curien	
9h30 – 10h00	Welcome and IPHC presentation Speaker: Prof. Sandrine COURTIN, IPHC Strasbourg University, France
10h00-11h00	Radioactive aerosol metrology, pollutant transfer and measurement Speaker: Dr. Grégoire DOUGNIAUX, IRSN, Saclay France
11h00 - 11h30	Coffee break and poster session
11h30 – 12h30	Gamma-ray spectrometry for environmental radioactivity analysis Speaker: Dr. Anne DE VISMES, IRSN, Orsay France
12h30-14h00	Lunch
14h00 – 18h00	Experimental works
20h00 – 22h00	Social program Evening entertainment: Tartes Flambées (Ancienne Douane Restaurant)
Friday July 5th : Amphi Carnot - Faculty of Physics and Engineering	
9h00-10h00	Radiological emergency: how the radiological situation is determined, with a focus on aeroradiometric measurements in Switzerland. Speaker: Dr. Cristina PORETTI, National Emergency Operations Centre, Switzerland
10h00 - 10h30	Coffee break and poster session
10h30 - 11h15	Dismantling of Strasbourg research nuclear reactor Speaker: Prof. Benoit GALL, IPHC Strasbourg University, France
11h15 - 12h00	Radionuclide speciation and transfers in the environment: recent research in radiochemistry and new perspectives from multidisciplinary approaches. Speaker: Dr. Mirella DEL NERO, IPHC, Strasbourg, France
12h00-14h00	Lunch
14h00 – 15h00	Report of the United Nations Scientific Committee on the Effects of Atomic Radiation Speaker: Dr. Jing CHEN, Chair of UNSCEAR, former head of the Radiological Impact Section at the Radiation Protection Bureau of Health, Ottawa, Canada
15h00-16h30	Oral Presentation of experimental work
17h00	Closing of the European Summer School