International Conference on Applications of Radiation Science and Technology



Monday, 24 April 2017 - Friday, 28 April 2017

IAEA Headquarters

Scientific Programme

<div style="text-align: justify;">
Programme Structure:

A series of plenary sessions will address the topics listed below, and the conference programme will include invited keynote speeches from representatives of academia and industry, oral presentations and panel discussions. A poster session will be organized to allow ample time for discussion and interaction among participants. A final round table session will review the main conclusions drawn in the plenary sessions and will summarize recommendations for the future development of radiation sciences and technologies.

Target Audience:

The target audience for this conference comprises but is not limited to:</div>

Radiation technology professionals

Entrepreneurs or stakeholders involved in applications of radiation technologies

Research scientists engaged in radiation research

Policy makers and regulators <div style="text-align: justify;"> **Topics:**

Abstracts on the following topics will be considered:</div>

FUNDAMENTAL AND APPLIED RADIATION CHEMISTRY RESEARCH

- Recent advances in radiation chemical sciences
- Current radiation technology trends
- Radiation chemical aspects related to water coolant systems in nuclear reactors, fuel reprocessing and nuclear waste management
- Radiation sterilization

FUNDAMENTAL AND APPLIED RADIATION CHEMISTRY RESEARCH - 01

Reviewer Celina Horak

FUNDAMENTAL AND APPLIED RADIATION CHEMISTRY RESEARCH - 02

Reviewer Mohamad Al-Sheikhly

FUNDAMENTAL AND APPLIED RADIATION CHEMISTRY RESEARCH - 03

Reviewer Laszlo Wojnarovits

FUNDAMENTAL AND APPLIED RADIATION CHEMISTRY RESEARCH -04

Reviewer Sara Goldstein

MITIGATING THE IMPACT OF CLIMATE CHANGE

- Radiation treatment of gaseous pollutants,
- Radiation treatment of industrial wastewaters, municipal wastewater, and sludge
- · Radiation treatment of emerging organic pollutants
- Applications of tracers and radiotracers for studying environmental processes including regulatory and radioprotection aspects (workers, public, biota)
- Use of radiation technology for cultural heritage imaging and preservation

MITIGATING THE IMPACT OF CLIMATE CHANGE - 01

Reviewer Valentin Moise

MITIGATING THE IMPACT OF CLIMATE CHANGE - 02

Reviewer Erzsebet Takacs

MITIGATING THE IMPACT OF CLIMATE CHANGE -03

Reviewer John Havermans

MITIGATING THE IMPACT OF CLIMATE CHANGE -04

Reviewer Patrick Brisset

MITIGATING THE IMPACT OF CLIMATE CHANGE -05

Reviewer Yongxia Sun

MITIGATING THE IMPACT OF CLIMATE CHANGE -06

Reviewer Pablo Vasquez Salvador

MITIGATING THE IMPACT OF CLIMATE CHANGE -07

Reviewer Bumsoo Han

IRRADIATION FACILITIES

- Setting up of new radiation facilities
- Production and transportation of cobalt-60
- New generation electron beam accelerators and X-ray sources
- Operational experience from radiation facility operations
- Radiation dosimetry
- Implementing quality management practices for the control of radiation processes
- New generation safety and control features in irradiation facilities
- Economic aspects of radiation technologies vis-à-vis conventional technologies

IRRADIATION FACILITIES -01

Reviewer András Kovács

IRRADIATION FACILITIES -02

Reviewer Mr. Zimek

IRRADIATION FACILITIES -03

Reviewer Peng Wei

IRRADIATION FACILITIES -04

Reviewer Andre Miller

IRRADIATION FACILITIES -05

Reviewer Florent Kuntz

IRRADIATION FACILITIES -06

Reviewer Mr. V.K.Tikku

IRRADIATION FACILITIES -07

Reviewer Bumsoo Han

IRRADIATION FACILITIES -08

Reviewer Patrick Brisset

IRRADIATION FACILITIES -09

Reviewer Mr. Mittendorfer

IRRADIATION FACILITIES -10

Reviewer Mr. Kohli

RADIATION SYNTHESIS AND MODIFICATION OF MATERIALS

- · Radiation modification of polymeric materials
- Synthesis and design of nanomaterials
- Development of advanced materials using radiation technology
- Surface curing using radiation technologies

RADIATION SYNTHESIS AND MODIFICATION OF MATERIALS -01

Reviewer Xavier Coqueret

RADIATION SYNTHESIS AND MODIFICATION OF MATERIALS -02

Reviewer Olgun Guven

RADIATION SYNTHESIS AND MODIFICATION OF MATERIALS -03

Reviewer Maolin Zhai

RADIATION SYNTHESIS AND MODIFICATION OF MATERIALS -04

Reviewer Piotr Ulanski

RADIATION SYNTHESIS AND MODIFICATION OF MATERIALS -05

Reviewer Mariano Grasselli

RADIATION SYNTHESIS AND MODIFICATION OF MATERIALS -06

Reviewer Clelia Dispenza

RADIATION SYNTHESIS AND MODIFICATION OF MATERIALS -07

Reviewer Mr. Mittendorfer

RADIATION SYNTHESIS AND MODIFICATION OF **MATERIALS -08**

Reviewer Sara Goldstein

RADIATION SYNTHESIS AND MODIFICATION OF **MATERIALS -09**

Reviewer Mr. Nho

RADIATION SYNTHESIS AND MODIFICATION OF **MATERIALS -10**

Reviewer Saphwan Al-Assaf

RADIATION SYNTHESIS AND MODIFICATION OF MATERIALS -11

Reviewer Mr. Bhandwaj

RADIATION SYNTHESIS AND MODIFICATION OF MATERIALS -12

Reviewer Bumsoo Han

RADIATION SYNTHESIS AND MODIFICATION OF **MATERIALS -13**

Reviewer Peng Wei

RADIATION SYNTHESIS AND MODIFICATION OF **MATERIALS -14**

Reviewer Laszlo Wojnarovits

RADIATION SYNTHESIS AND MODIFICATION OF **MATERIALS -15**

Reviewer Lalit Varshney

RADIATION SYNTHESIS AND MODIFICATION OF **MATERIALS -16**

Reviewer John Havermans

COUNTRY REPORT/REVIEW

COUNTRY REPORT/REVIEW - 01

Reviewer Patrick Brisset

COUNTRY REPORT/REVIEW - 02

Reviewer Sunil

COUNTRY REPORT/REVIEW -03

Reviewer Agnes

EDUCATIONAL TOOLS AND METHODS FOR **HUMAN RESOURCE DEVELOPMENT**

RADIATION TECHNOLOGIES FOR MEASUREMENT

- Production of nuclides, from nuclides to tracers and transportation
- Applications of tracers and radiotracers for studying industrial processes
- New tracers and new methodologies
- Thin layer activation method for wear, erosion and corrosion measurement
- Nucleonic control and measurement systems
- Radiation detection techniques and equipment
- Computational fluid dynamics and numerical modelling of residence time distribution
- Radiation based imaging technologies: CT, SPECT, PET, CARPT....
- Regulation and radioprotection aspects

RADIATION TECHNOLOGIES FOR MEASUREMENT - 01

Reviewer J.L. Boutaine

RADIATION TECHNOLOGIES FOR MEASUREMENT - 02

Reviewer J. Thereska

RADIATION TECHNOLOGIES FOR MEASUREMENT - 03

Reviewer J.H. Jin

RADIATION TECHNOLOGIES FOR MEASUREMENT - 04

Reviewer Patrick Brisset

RADIATION TECHNOLOGIES FOR MEASUREMENT - 05

Reviewer T. Bjornstad

RADIATION TECHNOLOGIES FOR MEASUREMENT - 06

Reviewer Nick Cutmore

RADIATION TECHNOLOGIES FOR MEASUREMENT - 07

Reviewer J. Bandeira

RADIATION TECHNOLOGIES FOR MEASUREMENT - 08

Reviewer T. Sauvage

RADIATION TECHNOLOGIES FOR MEASUREMENT - 09

Reviewer H. Ben Abdelouahed

RADIATION TECHNOLOGIES FOR MEASUREMENT - 10

Reviewer J.L. Boutaine

RADIATION TECHNOLOGIES FOR MEASUREMENT - 11

Reviewer Nick Cutmore

RADIATION TECHNOLOGIES FOR MEASUREMENT - 12

Reviewer Nick Cutmore

RADIATION TECHNOLOGIES FOR MEASUREMENT - 13

Reviewer N. Cutmore

RADIATION TECHNOLOGIES FOR MEASUREMENT - 14

Reviewer P. Livolsi