INTERNATIONAL FORUM ON ADVANCES IN RADIATION PHYSICS

BUENOS AIRES, May 4-5 2017

Thursday May 4th

09:00-10:00	**Registration**	
10:00-10:30	**Opening Session**	
10:30-11:00	**Sultan Dabagov** (Invited). *On Advanced Channeling Technologies*	**Fundamental Processes in Radiation Physics I** Chair person: Jorge Fernandez
11:00-11:30	**Coffee Break**	
11:30-11:50	**Suelen F. Barros, Vito R. Vanin, Nora L. Maidana and José M. Fernández-Varea.** *Alignment after Au L3 ionization by electron impact*	**Fundamental Processes in Radiation Physics I** Chair person: David Bradley
11:50-12:10	**Juan A. Garcia Alvarez, José M. Fernández-Varea, Vito R. Vanin, Osvaldo Botello Santos, Suelen Fernandes de Barros, Alexandre A Malafronte, Cleber L Rodrigues, Marcos N. Martins, Marina F Koskinas and Nora L Maidana.** *Experimental evaluation of currently accepted electron bremsstrahlung doubly differential cross sections*	
12:10-12:30	**Pablo Daniel Pérez, Tabatha Pamela Rodríguez, Jorge Carlos Trincavelli and Sergio Suárez.** *L shell X-ray production cross sections for Sr and Mo by proton impact*	
12:30-13:00	**Héctor Jorge Sánchez, Juan José Leani and Jose L. Robledo** (Invited). *Low resolution RIXS: a versatile Spectroscopic Tool for Chemical State Assessments*	
13:00-14:00	**Lunch (Roma exhibition hall)**	
14:00-14:30	**David Bradley** (Invited). *Novel media and mechanisms applied to radiation dosimetry*	**Applications in Medicine and Biology** Chair person: Jorge Fernandez
14:30-15:00	**Odair Gonçalves and Simone Cardoso** (Invited). *Medical Physics Research at the Laboratory of Radiation Physics at the Federal University of Rio de Janeiro*	
15:00-15:20	**Mohammed Alkhorayef, Yousif Hamza, Esameldeen Babikir, Abdelmoneim Sulieman and David Bradley.** *Effective dose and radiation risk estimation in certain paediatric renal imaging procedures*	
15:20-15:40	**Amjad Alyahyawi and David Bradley.** *Study of a novel sensitive GeB codoped silica flat fibre for dosimetry in diagnostic radiology*	
15:40-16:00	**Leonardo D. H. Soares and Martin E. Poletti.** *Evaluation of different parameterizations of the linear attenuation coefficient to extract material parameters*	
16:00-16:30	**Coffee Break**	
16:30-17:00	**Aldo Craievich** (Invited). *Modern photon sources. New applications and challenges*	**Sources and Detectors I** Chair person: Isabel Lopes
17:00-17:30	**Rafael Ferragut** (Invited). *Detection methods for positron and positronium interferometry*	
17:30-17:50	**Vito R. Vanin, Nora L. Maidana, Alessio Mangiarotti, Roberto R. Lima, Alexandre A. Malafronte, Suelen F. Barros and Marcos N. Martins.** *The 10-100 keV irradiation chamber of the Sao Paulo Microtron electron accelerator*	
17:50-18:10	**Katie Ley, Shakardokht Jafari, Annika Lohstroh and David Bradley.** *Coloured Silica Beads Luminescent Response for Beta Dosimetry*	
18:10-18:30	**Abdulaziz Alanazi, Mohammed Alkhorayef and David Bradley.** *Novel Dosimetric Study of sp2 to sp3 Irradiation hybridisation Ratio in Free – Standing CNTs*	

Friday May 5th

09:00-10:00	**Isabel Lopes** (Invited). *Detectors for Dark Matter Search: Present Status*	**Sources and Detectors II** Chair person: Sultan Dabagov
09:30-10:00	**William Dunn and Walter McNeil** (Invited). *A Review of the Activities of the Consortium for Nonproliferation Enabling Capabilities on Replacement of Dangerous Radiological Sources*	
10:00-10:20	**Suelen Barros, Vito Vanin, Alexandre Malafronte, Nora Maidana and Marcos Martins.** *Energy-dependent dead-time in digital pulse processors applied to Silicon Drift Detector's x-ray spectra*	
10:20-10:40	**Tareq Alrefae, Tiruvachi Nageswaran, Nasser Demir, Mohammed Alkhorayef and David Bradley.** *NORM Content in Meat Consumed in Kuwait*	**Applications to Cultural Heritage and Environmental Sciences** Chair person: Odair Goncalves
10:40-11:00	**Abdullah Alsubaie, Maisarah Jaafar, Abdullah N Al-Dabbous, L Alsulaiti, Mohammed Alkhorayef, Abdulaziz Alanazi, Amjad. R Alyahyawi, Eman Daar, S. E. Alomairy, Yasir Altowairqi, K. S. Almugren, N. I. Ward and D. A. Bradley.** *Trace element levels in roadside dust from Riyadh & Doha: Evaluating their impact on the environment*	
11:00-11:30	**Coffee Break**	
11:30-12:00	**Raysa C. Nardes, Ramon S. Santos, Francis A. C. R. A. Sanches, Eliane M. Zanatta, Davi F. Oliveira, Marcelino J. Anjos, Sofia Pessanha, Maria L. Carvalho, Ricardo T. Lopes, Victor M. T. Reyes, Joel S. Domiguez and Joaquim T de Assis** (Invited). *Study on Brazilian 18th century imperial carriage using X-ray nondestructive techniques*	**Applications to Cultural Heritage and Environmental Sciences** Chair person: Odair Goncalves
12:00-12:30	**Marcelo Rubio, María Fernanda Mera, Carlos Alberto Pérez, Sofía Cazón and Maximiliano Adrian Merlo** (Invited). *Advances in phytoremediation of soils contaminated by lead and antimony in Argentina*	
12:30-13:00	**Jorge E. Fernandez** (Invited). *The X-ray characteristic line in the framework of the Boltzmann transport equation*	**Fundamental Processes in Radiation Physics II** Chair person: William Dunn
13:00-14:00	**Lunch (Roma exhibition hall)**	
14:00-14:30	**Jose Paulo Santos** (Invited). *Fundamental parameters for interactions of Xrays with matter*	**Fundamental Processes in Radiation Physics II** Chair person: William Dunn
14:30-14:50	**Martin Alurralde, Marcela Barrera, Agustin Dato, Alberto Filevich, Javier Garcia, Maria Lujan Ibarra, Igor Prario and Exequiel Yaccuzzi.** *EDRA, the Argentine facility to simulate radiation damage in space*	**Applications to Space and Earth** Chair person: Marcelo Rubio
14:50-15:10	**Igor Prario, Mónica Martínez Bogado, Mariana Tamasi, Juan Plá, Hernán Sokolovsky, Javier García, Alberto Filevich and Martín Alurralde.** *A non-traditional approach to predict on-orbit proton damage on c-Si photovoltaic coarse sun sensors for satellite space missions.*	
15:10-15:30	**Javier A. Garcia, Martín A. Alurralde and Juan Plá.** *First Deep Level Transient Spectroscopy Measurements for Radiation Damage Studies in Argentina*	
15:30-16:00	Coffee Break	
16:00-16:20	**Martín Alurralde.** *Could a silicon solar cell survive a Carrington type event?*	**Applications to Space and Earth** Chair person: Marcelo Rubio
16:20-16:40	**M. Barella, G.Sanca, F.Gómez, Marlasca, G.Rodriguez, D.Martelliti, L. Patrone, J.Lipovetzki, J.Marin, C.Quinteros, J. Longhino, F.Golmar and Pablo Levy.** *LabOSat: a versatile Laboratory-on-a-Satellite for studying radiation damage on electronic devices*	
16:40-17:10	**Closing Session**	