

PROGRAM

Brasilia time	type	name	title	affiliation
Monday - September 13th				
Opening				
11:00 - 11:30	OPENING	María Ester Brandan, Helen Khoury, Oswaldo Baffa, Raúl Ramírez, José F.D. Chubaci		
Special Talk - chair persons: María Ester Brandan / Carmen Cecilia Bueno				
11:30 - 12:15	SPECIAL TALK	Maria Martisikova	Assessment of the dose distribution in carbon ion radiotherapy using secondary ions	German Cancer Center in Heidelberg, Germany
12:15-12:30	BREAK			
Session: New detector concepts - part 1 - chair persons: Petrus Santa-Cruz / Oswaldo Baffa				
12:30 - 12:45	ORAL	Eder Jose Guidelli	Localized Surface Plasmons Shifts the Stimulation Wavelength of Optically Stimulated Luminescence Dosimeters	USP - Universidade de São Paulo - Riberão Preto, Brazil
12:45-13:00	ORAL	Carolina Beatriz Brigida Miranda Ferreira	Enhanced OSL Emission from A-Al ₂ O ₃ Produced In Presence of Halloysite Nanocrystals	USP - Universidade de São Paulo - Riberão Preto, Brazil
13:00-13:15	ORAL	Luiz Jacobsohn	Engineering MgAl ₂ O ₄ Spinel for Optically Stimulated Luminescence (OSL) Dosimetry	Clemson - Clemson University (Clemson, SC, USA)
13:15-13:30	ORAL	Caroline Paschoal Fernandes	Luminescent Properties of the Pink Salt and its Potential Dosimetric Applications	UNIFESP - Universidade Federal de São Paulo - Brazil
13:30-15:00	LUNCH BREAK			
Technical Session - chair persons: Josemary Gonçalves /Sonia Tatumi				
15:00-15:30	TECHNICAL PRESENTATION	Presenter TBD	Title TBA	ROTUNDA
15:30-17:30	Exhibition/Poster session 1			
17:30-18:00	BREAK			
Session: TL characteristics - chair persons: Neilo Marcos Trindade / Sonia Tatumi				

18:00-18:30	INVITED TALK	Makaiko Chitambo	The Analysis Of Phototransferred Thermoluminescence	Physics Department at Rhodes University, South Africa
18:30-18:45	ORAL	Alvaro de Farias Soares	Analysis of the photo-thermo transference property on TL and OSL emissions of the green natural fluorapatite	USP - University of São Paulo - São Paulo - Brazil
18:45-19:00	ORAL	Bruno do Rêgo Soares	Effect of Blue Light Bleaching in High TL Sensitivity Natural Quartz	UFPE - Federal University of Pernambuco - Recife, PE, Brazil
19:00-19:15	ORAL	Fania Caicedo Mateus	Comparing the Monochromatic TL Response of a High Sensitivity Natural Quartz Irradiated with β and γ Rays	UFPE - Federal University of Pernambuco - Recife, PE, Brazil
19:15-19:30	ORAL	Carlos David Gonzales Lorenzo	Thermoluminescence Study of Several Synthetic Materials Based on Silicates Produced by Different Methods	UNSA - Universidad Nacional de San Agustín - Arequipa, Peru

Tuesday - September 14th

Session: Dosimeters and nanoparticles - chair persons: Luiz Jacobsohn / Oswaldo Baffa

11:00-11:15	ORAL	Ettore Alves dos Santos	Dosimetric Properties of Halloysite Nanotubes and their Composites with Silver Nanoparticles	USP - Universidade de São Paulo - Riberão Preto, Brazil
11:15-11:30	ORAL	Mileni Mayumi Isikawa	Microfluidic Synthesis of Scintillating Nanoparticles Based on Lanthanides: Developing Theranostic Nanodevices with Dosimetric Properties	USP - Universidade de São Paulo - Riberão Preto, Brazil
11:30-11:45	ORAL	Silas Cardoso dos Santos	Synthesis Of Thulium-Yttria Nanoparticles with EPR Response	IPEN-CNEN/SP - Instituto de Pesquisas Energéticas e Nucleares (Av. Lineu Prestes, 2242. Cidade Universitária, SP.
11:45-12:00	ORAL	Luiz Nunes	Better than nanoparticles: on the use of silver nanoclusters for ionizing radiation dosimetry	USP - Universidade de São Paulo - Riberão Preto, Brazil
12:00-12:30	BREAK			

Session: High dose and Monte Carlo - chair persons: José María Gómez-Ros / José Fernando Chubaci

12:30-13:00	INVITED TALK	Barbara Obryk	Wide dose range neutron dosimetry around nuclear fusion tokamak with TL detectors	Institute of Nuclear Physics Polish academy of Science, Poland.
13:00-13:15	ORAL	Daniel Esteveo	Monte Carlo Estimative of Absorbed Dose in Aluminum Based Epoxy Resin for Undulator Vacuum Chamber Applications In Sirius	CNPEM - Centro Nacional de Pesquisa em Energia e Materiais - Campinas - Brazil
13:15-13:30	ORAL	Fernando Miletto	Benefits of the Monte Carlo method in the choice of materials used for radiological protection.	IFGW - Instituto de Física "Glab Wataghi" - Campinas - Brazil
13:30-15:00	LUNCH BREAK			

Technical Session - chair persons: Josemary Gonçalves / José Fernando Chubaci

15:00-15:30	TECHNICAL PRESENTATION	Kayla Kielar	QA Vision	Varian
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15:30-17:30	Exhibition/Poster session 2			
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17:30-18:00	BREAK			
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Session: Nuclear electronics - chair persons: Anderson Vinicius Alves / Guerda Massillon				
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18:00-18:15	ORAL	Matheus Fernando dos Santos	Characterization of a Low-Cost Silicon Pin Diode for Stereotatic Radiosurgery Dosimetry	RHP - Real Hospital Português de Beneficência em Pernambuco - Recife - Brazil
18:15-18:30	ORAL	Miguel Luis Rodrigues	Development of an Integrated System for Thermoluminescence and Radioluminescence Measurements	IFSP - Federal Institute of Education, Science and Technology of São Paulo - São Paulo - Brazil
18:30-18:45	ORAL	Adriana Moreno-Ramírez	Response in water compared to air of two ionization chambers exposed to low-energy x-rays	IF-UNAM - Instituto de Física, Universidad Nacional Autónoma de México - Ciudad de México - Mexico
18:45-19:00	ORAL	Ricardo Ferrari Ferraz	Structural and Morphological Characterization of the Chromium-Doped β -Spodumene to Ceramic Pigment	Univasf - Universidade Federal do Vale do São Francisco - Juazeiro - Brazil
19:00-19:30	INVITED TALK	Anatoly Rosenfeld	Semiconductor Microdosimetry and its Applications in Particle Therapy and Space	University of Wollongong - Wollongong - Australia

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Wednesday - September 15th				
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Session: Dose reconstruction - chair persons: Anne Skinner / Vinicius Saito de Barros				
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11:00-11:30	INVITED TALK	Stephen W.S. McKeever	The potential of protective glass from smartphones as an emergency personal dosimeter for members of the general public in radiological accidents	Emeritus Regents Professor of Physics at Oklahoma State University, USA
11:30-11:45	ORAL	Thays Desiree Mineli	Application of Quartz OSL Standardized Growth Curve for Dating of Brazilian Sediments	IGc - USP - Instituto de Geociências - USP - São Paulo, SP - Brazil
11:45-12:00	ORAL	Pontien Niyonzima	Assessing the potential of quartz post-blue violet stimulated luminescence to extend dating range of Brazilian fluvial sediments	USP - University of São Paulo - São Paulo, Brazil
12:00-12:15	ORAL	Andre Oliveira Sawakuchi	Optically Stimulated Luminescence of Quartz for Provenance Analysis	IGc - USP - Instituto de Geociências - USP - São Paulo, SP - Brazil

12:15-12:30	BREAK			
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Session: Complex field dosimetry - chair persons: Eder Guidelli / Helen Khoury

12:30-13:00	INVITED TALK	Eduardo G. Yukihara	Current status regarding the use of luminescence detectors at extreme high dose rates	Radiation Dosimetry Group of the Paul Scherrer Institute, Switzerland
13:00-13:15	ORAL	Allan Alves	Evaluation of radiation exposure in interventional radiology with OSL dosimetry	IBB UNESP - Botucatu Biosciences Institute - São Paulo State University - Botucatu - Brazil
13:15-13:30	ORAL	Patrícia Nicolucci	Energy and Angular Response of a TLD-Based Personal Dosimetry Badge: Monte Carlo Approach	USP - Universidade de São Paulo - Riberão Preto, Brazil

13:30-15:30 LUNCH BREAK

15:30-17:30 Exhibition/Poster session 3

17:30-18:00 BREAK

Session: Quality Assurance - chair persons: Divanizia Souza / Viviane K. Asfora

18:00-18:30	TECHNICAL TALK	Bianca Cerbaro	"Practical application of radiation detectors and their benefits for high quality radiotherapy treatments - EPID, Portal Dosimetry & MPC"	Oncologia D'Or - Unidade Gávea- Rio de Janeiro / Varian
18:30-18:45	ORAL	Jessica Caroline Lizar	Automatic Workflow for Gamma Analyses QA Verification	USP - Universidade de São Paulo - Riberão Preto, Brazil
18:45-19:00	ORAL	Jessica Hernandez Sanchez	Impact of Dose to Peripheral Organs in KVCBCT for IGRT Prostate Cancer Radiotherapy: TLD Measurements Using an Anthropomorphic Phantom	UC - Pontificia Universidad Catolica de Chile - Macul - Chile
19:00-19:15	ORAL	Alberto Edmundo Gonzales Ccoscco	Scattered Radiation Dose Assessment of Portable Dental X-Ray Equipment Using The Monte Carlo Method	UNI - Universidad Nacional de Ingeniería - Lima - Peru
19:15-19:30	ORAL	Bruna Garcia	Relative Thermoluminescent Response of CaSO ₄ :Tm and CaSO ₄ :Dy for 90Sr Radiation Beam	USP - Universidade de São Paulo - Riberão Preto, Brazil

Thursday - September 16th

Session: Novel Prospects - chair persons: Patrícia Nicolucci / Susana de Souza Lalic

11:00-11:30	INVITED TALK	Francesco d'Errico	Radiation detection opportunities with "poorly" luminescent materials	Università di Pisa - Pisa - Italia / Yale University - USA
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11:30-11:45	ORAL	Debora Siqueira Nascimento	Investigation of Magnesium Tetraborate Production for Thermoluminescence Measurements	UNIFI - Università di Pisa - Pisa - Italia
11:45-12:00	ORAL	Gabriela Guimaraes Donald	Challenges in Personal and Clinical Dosimetry Using Li2B4O7 and MgB4O7 as TLD and OSLD	UFS - Universidade Federal de Sergipe - São Cristóvão - Brazil
12:00-12:15	ORAL	Juan Munoz	OSL response of Al2O3:C,Mg exposed to beta and UVC radiation	IFSP - Instituto Federal de Educação, Ciência e Tecnologia de São Paulo - São Paulo - Brazil
12:15-12:30	BREAK			
Session: Round Table - chair persons: Linda Caldas /Susana de Souza Lalic				
12:30-13-30	ROUND TABLE	Beatriz Sanchez-Nieto (Chile), Helen J. Khoury (Brazil), Maria Ester Brandan (Mexico), Mauro Valente (Argentina)	Solid State Dosimetry in Latin America: State of Art & Future	
13:30-15:00	LUNCH BREAK			
15:00-17:30	Exhibition			
17:30-18:00	BREAK			
Session: 2D and 3D dose mapping - chair persons: Francesco d'Errico / Vinicius Saito de Barros				
18:00-18:30	INVITED TALK	Juliana Pavoni	3D gel dosimetry applications	USP - Universidade de São Paulo - Riberão Preto, Brazil
18:30-18:45	ORAL	Anderson Alves	Novel Low-Diffusion PVA-GTA Fricke Gel with Silver Nanoparticles	YSM - Yale University - School of Medicine- New Haven, CT - USA
18:45-19:00	ORAL	Matheus Antonio Silveira	3D Dose Reconstruction of Small Fields in a Kilovoltage Beam	USP - Universidade de São Paulo - Riberão Preto - Brazil
19:00-19:15	ORAL	Jimena de Souza	Image Quality and Dosimetric Evaluation of a Digital Mamography System in 2D and 3D Acquisition Modes	EUTM - Escuela Universitaria de Tecnología Médica - Montevideo - Uruguay
19:15-19:30	ORAL	Paulo R. R. V. Caribé	Influence of BPL-Based Reconstruction Algorithm on Image Quality for Quantitative 90Y-Pet Imaging	UGent - Ghent University - Gent, Belgium

Friday - September 17th

Session: New detector concepts - part 2 - chair persons: Edy Elar Cuevas Arizaca / Carmen Cecilia Bueno

11:00-11:15	ORAL	Anne Skinner	An ESR Dating Mystery -- solved?	WC - Williams College Chemistry Dept. - Williamstown - USA
11:15-11:30	ORAL	Magno Nogueira Xavier	Radiation-Induced Micronuclei in Onion (Allium Cepa) Cells as a Support System for Environmental Dosimetry	UFS/DFI - Universidade Federal de Sergipe - Brazil
11:30-11:45	ORAL	Matheus Cavalcanti dos Santos Nunes	UVC-Irradiated Alexandrite Pellets for Applications in the Dosimetry Field	IFSP - SPO - Federal Institute of Education, Science and Technology of São Paulo - BRAZIL
11:45-12:00	ORAL	Petrus Santa-Cruz	Personal Monitoring of Cutaneous Vitamin D3 Production Using Smartphone Through Printable UV Molecular Dosimetry Strips	DQF- UFPE - Universidade Federal de Pernambuco - Recife - Brazil
12:00-12:15	Young Scientist Award Competition - chair persons: Guerda Massillon / Linda Caldas			
12:15-13:00	CLOSING			