

ISSSD 2019, Zacatecas, Zac., Mexico

Venue

Centro de Comunicación y Divulgación de la Ciencia Galileo Galilei (CECODIC)

CONSEJO ZACATECANO DE CIENCIA, TECNOLOGÍA E INNOVACIÓN (COZCyT)

Av. de la Juventud 504, Col. Barros Sierra. 98090 Zacatecas, Zac.

General program

Monday October 7th, 2019

Schedule	PROGRAMME
9:00-11:00	<i>Course 1: Elements of the Research Paper and Ethics in publication</i> Dr. Richard Hugtenburg and Dr. David Bradley
11:00-11:30	POSTER SESSION 1/Coffee break
11:30-13:00	<i>Course 1: Elements of the Research Paper and Ethics in publication</i> Dr. Richard Hugtenburg and Dr. David Bradley
13:00-15:00	Lunch
15:00-18:00	<i>Course 2: Las nuevas tendencias de la Protección Radiológica del paciente</i> Dra. Lydia Paredes <i>Course 3: Radiation Protection in Radiodiagnostics</i> Dr. Claudia Azorin Vega <i>Course 4: Termoluminescent Dosimetry Applied to Medical Physics</i> Dr Juan Azorín Nieto <i>Course5: Physics on Radiodiagnostics</i> Dr Enrique Gaona <i>Course 6: Glow curve deconvolution on Excel spreadsheet</i> Dr. Arturo Agustín Ortiz Hernández For course 6 bring your computer and/or your USB pen drive

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Tuesday October 8th, 2019

Schedule	PROGRAMME
8:00-9:00	Registration
INVITED TALK 1 9:00-9:45	Chair: Juan Azorín Nieto Hugtenburg, RP. Range uncertainty in proton beam radiotherapy due to microstructures in bone and lung.
10:00-11:00	ISSSD 2019 OPENING
11:00-12:00	POSTER SESSION 2/Coffee break
ORAL SESSION 1 12:00-12:15 12:15-12:30 12:30-12:45 12:45-13:00	Chair: Silvia Hidalgo Tobón Santibañez, M et al., Monte Carlo evaluation of the radiation shielding of healthy tissue surrounding tumor tissue doped with Gd, by an endocavitary brachytherapy system based on a ²⁴¹Am source. Vásquez A., M et al., Evaluación dosimétrica de radiofármacos utilizados en exploraciones pulmonares por ventilación/perfusión en adultos con sospecha de embolia pulmonar. Torres-H, F et al., Trace elements in blood samples of post-irradiated cervical cancer patients using X-ray fluorescence in total reflection. De Araújo, LF et al., Monte Carlo Simulation of Extrapolation Chamber for Beta Radiation Dosimetry.
13:00-15:00	Lunch
INVITED TALK 2 15:00-15:45	Chair: Miguel Ángel Vallejo Gaona, E. Protección radiológica del paciente y control de calidad en mastografía: Una revisión de la optimización de dosis-contraste.
ORAL SESSION 2 15:45-16:00 16:00-16:15 16:15-16:30 16:30-16:45 16:45-17:00 17:00-17:15 17:15-17:30 17:30-17:45 17:45-18:00	Chair: Segundo Agustín Martínez Ovalle Soto-Bernal, TG et al., Espectro de neutrones producidos en un LINAC de 12 MV operando con electrones. Mendes, BM et al., Calculation of calibration coefficients for different three head size phantoms for the ¹⁸F-FDG internal monitoring system. Pastrana, CO et al., Yttrium 90 bremsstrahlung SPECT performance evaluation using Monte Carlo simulation. Valente M & Figueroa, R. A novel computed tomography technique based on high-Z nanoparticle fluorescence confocal detection. Torres-Hoyos F et al., Design and assembly of an IOT based device to determine Absorbed dose of gamma and UV radiation in skin. Figueroa, R. et al., Novel design to produce convergent kilovoltage X-ray beam: feasibility and characterization Ortiz, R., JM et al., Virtualización de aplicaciones con orientación a espectrometría y dosimetría de neutrones. Baena-Navarro, R et al., Quantification of gamma, beta and UV radiation using the Internet of Things. Jaramillo, W & Camacho, L. Evaluation of the exposure index and the deviation index to monitor radiation exposure in pediatric chest computed radiography.

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Wednesday October 9th, 2019

Schedule	PROGRAMME
INVITED TALK 3	Chair: Consuelo Letechipía de León
9:00-9:45	Hidalgo Tobón, S. <i>Especialización en Física Médica Clínica en la UAM-Iztapalapa.</i>
ORAL SESSION 3	Chair: Erika P. Azorín Vega
9:45-10:00	Figueroa, R et al., <i>OSIRIS: Tumor targeting by confocal irradiation-detection of high Z nanoparticle infused volumes.</i>
10:00-10:15	Valente, M et al., <i>Characterization of linear energy transfer (LET) of gel dosimeters for mixed radiation fields.</i>
10:15-10:30	Prata, M., A & Santos, FS. <i>Dose reduction in head Computed tomography scans using head tilted.</i>
10:30-10:45	González, PR et al., <i>Efecto de la temperatura de sinterizado en la sensibilidad del MgB₄O₇:Tm obtenido por el método de combustión de soluciones.</i>
10:45-11:00	Torres, B., MB et al., <i>Individual dose planning in Radiosynoviorthesis treatment: Step by step.</i>
11:00-12:00	POSTER SESSION 3/Coffee break
ORAL SESSION 4	Chair: Diego Medina Castro
12:00-12:15	Robles, P., G. et al., <i>Effective dose measurements in dentistry students by X-ray scattering during children periapical dental radiography.</i>
12:15-12:30	Machado, P., EL et al., <i>Evaluation of the radioinduced alteration of gel compound relaxation times obtained by MRI for application as dosimetric system.</i>
12:30-12:45	Flores-Reyes, M et al., <i>Bone mineral density changes produced by estrogen deficiency and type 2 diabetes mellitus determined by X-ray absorbance: Murine model.</i>
12:45-13:00	Ureña-Nuñez, F & Galindo-Urribari, S. <i>Dosimetric evaluation of high-density polyethylene (HDPE) as a dosimeter for high dose-dosimetry.</i>
13:00-15:00	LUNCH
	Cultural activity

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Thursday October 10th, 2019

Schedule	PROGRAMME
INVITED TALK 4	Chair: Pedro R. González
9:00-9:45	David Bradley. <i>TL, Raman spectroscopy and XRD analysis of various glass-carbon dosimetric materials</i>
ORAL SESSION 5	Chair: Victor Martín Hernández Davila
9:45-10:00	Tolosa-Cetina, JO et al., <i>Induced damage in Passive dosimeters exposed to mixed high LET radiation field.</i>
10:00-10:15	Cevallos-Robalino, LE et al., <i>Experimental characterization of FANT.</i>
10:15-10:30	Lara-Camilo, A et al., <i>Medición de dosis de radiación dispersa en tres salas de TC.</i>
10:30-10:45	Malano, F et al., <i>Experimental assessment of Monte Carlo and deterministic simulation tools for X-ray imaging applications.</i>
10:45-11:00	Santibañez, M et al., <i>Gadolinium dose enhancement determination by Gafchromic EBT3 films in phantoms irradiated with ¹⁹²Ir for HDR brachytherapy.</i>
11:00-12:00	POSTER SESSION 4/Coffee break
ORAL SESSION 6	Chair: Epifanio Cruz Zaragoza
12:00-12:15	Baltazar, R., A et al., <i>Matriz de respuesta del BCS/Au.</i>
12:15-12:30	Alkhorayef, M et al., <i>Radiation risk for patients undergoing cardiac Computed Tomography examinations.</i>
12:30-12:45	García-Baonza, R et al., <i>Analysis through Monte Carlo methods of the response of an extended Bonner sphere spectrometry system.</i>
12:45-13:00	Galindo, U, S et al., <i>Viability of Thermogravimetric Analysis (TGA) as a dose assessment method</i>
13:00-15:00	Lunch
INVITED TALK 5	Chair: Pablo Víctor Cerón
15:00-15:45	Martínez-Ovalle, SA, <i>The problem of transport and storage of ²⁴¹AmBe sources used in the oil inspection.</i>
ORAL SESSION 7	Chair: Miguel Ángel Vallejo Hernández
15:45-16:00	Sandoval-Garzón, MA et al., <i>A new graph of soil Rn-Gas transport: Radon-Rose plot.</i>
16:00-16:15	Azorin-Vega, E et al., <i>Hyperglycemia and radioresistance of pancreatic adenocarcinoma.</i>
16:15-16:30	Alqahtani, A et al., <i>Borosilicate glass for TLD applications.</i>
16:30-16:45	Cruz-Zaragoza., E et al., <i>Thermo-and photo-stimulated luminescence detection of polymineral from gamma-irradiated potato.</i>
16:45-17:00	Ramírez, L., A. <i>La falsificación y peritaje de piezas cerámicas arqueológicas aplicando métodos Luminiscentes, DRX y FRX</i>
17:00-17:15	Bustos, F., M & Prata, M., A. <i>Determination of the average glandular dose using Brazilian phantom.</i>
17:15-17:30	Morales-Castro, W et al., <i>Tuberculosis disease: Diagnosis by image processing.</i>
17:30-17:45	Cruz-Aceves, I et al., <i>Automatic design of convolutional templates for the detection of coronary arteries using single-solution based Metaheuristics</i>
17:45-18:00	Ramírez-Luna, A et al., <i>Explorando bajo un mar de lava: Datación por termoluminiscencia y caracterización de cerámicas del Sitio arqueológico de Copilco, San Ángel, México</i>

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Friday October 11th, 2019

Time	PROGRAMME
INVITED TALK 6	Chair: Antonio Baltazar Raigosa
9:00-9:45	Medina Gironzini, E. <i>Cómo mejorar la protección radiológica del paciente.</i>
ORAL SESSION 6	Chair: Enrique Gaona
9:45-10:00	Cruz-Zaragoza E et al., <i>Thermoluminescence detection of the gamma-irradiated Mexican Oyster.</i>
10:00-10:15	Alkhorayef, M. <i>Effective and organ radiation doses in Pediatric PET/CT examinations.</i>
10:15-10:30	Hernández-Rayas, A et al., <i>Structure molecules of biological systems modified by IR radiation.</i>
10:30-11:30	POSTER SESSION 5/Coffee break
11:30-12:15	ISSSD 2019 CLOSING