

ISSSD 2018 General Programme

Venue

Centro de Evaluación e Innovación Educativa (CEIE)
Universidad Autónoma Benito Juárez de Oaxaca
68125 Oaxaca, Oax., Mexico

Monday September 24th, 2018

Schedule	Course 1	Course 2	Course 3
9:00-13:00	Thermoluminescent dosimetry applied to Medical Physics	Radiation Protection in Radiodiagnostics	Physics in Radiodiagnostics
15:00-19:00	Instructor Dr Juan Azorín Nieto Universidad Autónoma Metropolitana México	Dr Claudia Azorín Vega Escuela Militar de Materiales de Guerra, SDN México	Dr Enrique Gaona Universidad Autónoma Metropolitana México

Schedule	Course 4	Course 5
9:00-13:00	Introduction to Monte Carlo method and to the MCNP code	Glow curve deconvolution on Microsoft EXCEL® spreadsheet
15:00-19:00	Instructor Dr Hector Rene Vega-Carrillo Universidad Autónoma de Zacatecas México	Dr Arturo A. Ortiz Hernandez, Dr Marlen Hernandez Ortiz and Dr Hector A Duran Muñoz AORTech Research Department Universidad Autónoma de Zacatecas Universidad Politécnica de Zacatecas México

Tuesday September 25th, 2018

Schedule		PROGRAMME
8:00-9:00	Registration	
MAGISTRAL TALK I	Chair: Juan Azorín Nieto	
9:00-10:00	Bradley, DA et al, <i>Carbon based dosimetry.</i>	
10:00-11:00	ISSSD 2018 OPENING	
11:00-12:00	POSTER SESSION I/Coffee break	
ORAL SESSION 1	Chair: Silvia Hidalgo Tobón	
12:00-12:15	Gaona, E et al., <i>Survey of quality control test on x-ray equipment using in diagnostic radiology.</i>	
12:15-12:30	Ladino Gomez, AM et al., <i>Analysis of lens absorbed dose in head CT scan using male anthropomorphic phantom.</i>	
12:30-12:45	González de la Fuente, MJ et al., <i>Dosimetría termoluminiscente de fotones de alta energía producidos en un LINAC de usos médicos.</i>	
12:45-13:00	Díaz Lagos, M et al., <i>Radon concentration in hydrogeothermal deposits and spas of Boyacá, Colombia.</i>	
13:00-13:15	Guerra Paiva, F et al., <i>Comparative study of absorbed and effective doses in a PET/CT examination by using male and female Alderson phantom.</i>	
13:15-16:00	Lunch	
ORAL SESSION 2	Chair: Rebeca Sosa Fonseca	
16:00-16:15	Elnour, A et al., <i>Evaluation of computed tomography patient radiation exposures: A multicentre study.</i>	
16:15-16:30	Abdelrazig, A et al., <i>Radiation exposure and related risks from pediatric patients undergoing percutaneous intervention (PCI) procedures.</i>	
16:30-16:45	Alkhorayef, M et al., <i>Cardiac CT doses in particular MOH hospitals in Saudi Arabia.</i>	
16:45-17:00	Edam, AN. <i>Quality control of diagnostic nuclear medicine in Sudan.</i>	
17:00-17:15	Hobein, R. <i>My OSL – new L dosimeter.</i>	
17:20-19:00	POSTER SESSION II/Coffee break	
20:00-22:00	Welcome	

Wednesday September 26th, 2018

Schedule		PROGRAMME
MAGISTRAL TALK II	9:00-9:45	Chair: Pablo Victor Cerón <i>Martínez Ovalle, SA et al. A new methodology for the design of containers for the fixed storage of $^{241}\text{Am-Be}$ sources for industrial use.</i>
	10:00-11:30	POSTER SESSION III/Coffee break
ORAL SESSION 3		Chair: Enrique Gaona
11:30-11:45		<i>López Coello, LI et al., Murine S values calculations for ^{67}Ga based on MOBY phantom with Geant 4.</i>
11:45-12:00		<i>Azorín-Vega, E et al., Effect of the $^{177}\text{Lu-CXCR4-L}$ radiation dose on the calcium channels (Cav) expression of cells involved in the nociceptive stimuli transmission.</i>
12:00-12:15		<i>Aranda Lara, L et al., Effect of $^{177}\text{Lu-iPSMA}$ radiation dose on human glioma cell proliferation under hypoxia conditions.</i>
12:15-12:30		<i>Torres Hoyos, F et al., Study of cervix cancer through fractals and dynamic quantum clustering algorithm.</i>
12:30-12:45		<i>Santibañez, M et al., Experimental determination of dose enhancement by Gd irradiated with optimized low energy x-ray tube by Gd-PAGAT integral dosimeteres.</i>
13:00-16:00		LUNCH
ORAL SESSION 4		Chair: Erika P Azorín Vega
16:00-16:15		<i>Díaz Merchan, JA et al., Dosimetric study of the response of bolus material under electron and photons beams used in radiotherapy.</i>
16:15-16:30		<i>González, PR et al., Luminiscencia térmicamente estimulada de $\text{Li}_2\text{B}_4\text{O}_7:\text{Cu,Ag,Tm}$.</i>
16:30-16:45		<i>Baltazar-Raigosa, A et al., Diseño de un monitor de área pasivo para medir la $H^*(10)$ de los neutrones producidos en LINACs de uso médico.</i>
16:45-17:00		<i>Bustos Flores M & Prata Mourao, A. Evaluation of the absorbed dose by PMMA plates in mammography equipment.</i>
	17:00-19:00	POSTER SESSION IV/Coffee break

Thursday September 27th, 2018

Schedule		PROGRAMME
MAGISTRAL TALK III	9:00-9:45	Chair: Arturo Becerril Vilchis Ramírez Vázquez, K.H., Gutiérrez Castillo, J.G. & Hernández Tellez, E. <i>El estado de la radioterapia en Oaxaca</i>
ORAL SESSION 5	9:45-10:00	Chair: Gabriel Ramirez Rodríguez de la Fuente Rosales, G et al., <i>Modeling a PTW semiconductor probe used for peripheral doses determination, with the Monte Carlo code GATE.</i>
	10:00-10:15	Martínez Baltezar, R & Azorin, J. <i>Análisis de la curva termoluminiscente del BeO:Mg,Si por el método de Deconvolución.</i>
	10:15-10:30	Martinez-Ovalle, SA et al., <i>Shielding evaluation of a portable ²⁴¹Am-Be high-intensity neutron source by Monte Carlo method.</i>
	10:30-10:45	Cevallos-Robalino, LE et al., <i>Design through Monte Carlo method of a thermal neutron device for material identification (TNMI) in security applications using an ²⁴¹Am/⁹Be source.</i>
	10:45-11:00	Santibañez, M et al., <i>Sensitivity improvement for identifying Gadolinium distribution in planar XRF images by means of optimized low dose EDXRF system.</i>
	11:00-11:45	POSTER SESSION V /Coffee break
ORAL SESSION 6	12:00-12:15	Chair: Pedro R González Figueroa, R et al., <i>Differences of dosimetry performance between divergent and convergent kilo-and ortho-voltage x-ray beams.</i>
	12:15-12:30	Olaya Dávila, H et al., <i>Simulation of distribution of x-ray scattering as a function of the maximum energy in a bimodal PET/CT tomographic system.</i>
	12:30-12:45	Rojas-Calderón, EL et al., <i>Monte Carlo calculations of the radiation absorbed dose produced by ¹⁷⁷Lu iPSMA, ²²⁵Ac-Ipmsa and ²²³RaCl₂ to prostate cancer cell nuclei in a bone microenvironment model.</i>
	12:45-13:00	Hidalgo-Tobón, S et al., <i>Evaluation of corpus callosotomy post-operation by diffusion tensor by nuclear magnetic resonance in children.</i>
	13:00-13:15	Martínez-Ovalle, SA et al., <i>New partially amorphous target with low photoneutron yield for LINAC radiotherapy applications.</i>
FREE AFTERNOON		

Friday September 28th, 2018

Time	PROGRAMME
MAGISTRAL TALK IV	Chair: Patricia Batres Mendoza
8:00-8:45	Mora Garzón, LC. <i>Comparación dosimétrica entre planes de tratamiento de Cáncer de mama bilateral sincrónica con técnicas VMAT vs Tomoterapia helicoidal.</i>
8:45-9:40	POSTER SESSION VI/Coffee break
10:00-10:30	General assembly of the Mexican Society of Irradiation and Dosimetry
10:30-10:45	ISSSD 2018 CLOSING

ISSSD 2018 Poster sessions programme

Tuesday September 25th, 2018

Schedule	PROGRAMME
8:00-9:00	Registration
9:00-10:00	MAGISTRAL TALK I
10:00-11:00	ISSSD 2018 OPENING
11:00-12:00	POSTER SESSION I/Coffee break Chair: Miguel Angel Vallejo & Angel Garcia Duran
G1_01	<i>Valverde-Labstida, MS et al.</i> , Optically stimulated luminescence (OSL) study in Tm ³⁺ doped Sr ₂ P ₂ O ₇ .
G1_02	<i>Méndez Villafañe, R et al.</i> , Development of the new standard at CIEMAT-Neutron standards laboratory: Heavy water moderated- ²⁵² Cf neutron source.
G2_03	<i>Mourao, AP et al.</i> , Dose profile evaluation in digital breast tomosynthesis exposition using radiochromic film.
G1_04	<i>Abdul Sani, SF et al.</i> , Thermoluminescence response of x-ray exposed comercial chalk.
G1_05	<i>Ramli, NA et al.</i> , Commercial kitchenware as potential thermoluminescent dosimeter.
G4_04	<i>Soto-Bernal, TG et al.</i> , Fotones y neutrones producidos durante la interacción de electrones de 10 y 15 MeV con una laminilla dispersora.
G6_03	<i>Castillo-García, LJ et al.</i> , MathCad simulation of Glow curves based in the Randall-Wilkins and Garlick-Gibson models.
G6_05	<i>Durán-Muñoz, H et al.</i> , Simultaneously Glow curve deconvolution with flexible spreadsheet program.
G8_05	<i>Rivera-Montalvo, T et al.</i> , Patient dose determination during interventional cardiology procedures.
G2_07	<i>Castañeda, K et al.</i> , Estimation of doses in organs at risk in treatment of external radiotherapy for breast cancer by using MCNP5.
G10_10	<i>Ortiz Rodriguez, JM et al.</i> , Breast cancer detection based on Generalized regression Artificial Neural Networks.
G7_10	<i>Benites-Rengifo, JL & Vega-Carrillo, HR.</i> Espectros y dosimetría clínica de electroneutrones en tratamientos de cáncer de mama con incremento de dosis de electrones de MV.
12:00-13:15	ORAL SESSION 1
13:15-16:00	Lunch
16:00-17:15	ORAL SESSION 2
17:20-19:00	POSTER SESSION II/Coffee break Chair: Consuelo Leterchiptia de Leon & Izimina Gabriela Soto Bernal
G1_03	<i>Valverde-Labstida, MS et al.</i> , Sr ₂ P ₂ O ₇ :RE ³⁺ phosphor as a thermoluminescent dosimeter.
G2_01	<i>Bustamante López, GA et al.</i> , Synthesis of TiO ₂ :Eu phosphors for high dosage thermoluminescence dosimeters.
G7_09	<i>Vega-Carrillo, HR et al.</i> , Prompt- γ -rays induced in water and polyethylene.
G4_09	<i>Lacerda, MAS et al.</i> , ReBUNKI: A revised version of the BUNKI code.
G11_02	<i>Jaramillo Martínez, R et al.</i> , NSDUAZ 2.0, an update of the neutron spectrum unfolding code based on iterative procedures
G11_01	<i>Martínez Blanco, MR et al.</i> , A neutron spectrum unfolding code based on Generalized regression Artificial Neural Networks.
G4_01	<i>Hernández-Pérez et al.</i> , Thermoluminescence Li ₂ ZrO ₃ :Mg phosphors exposed to beta particle irradiation.
G5_03	<i>Castañeda Palafox, SJ et al.</i> , Aluminato de litio para aplicaciones en dosimetría.
G5_04	<i>Machado Pereira, EL et al.</i> , Volumetric evaluation of the dose distribution with Gel dosimeter for gamma irradiation process control.
G5_05	<i>León Madrid, MI et al.</i> , Estimation of Absorbed dose on Eye lens for patients undergoing a Thorax CT.

G9_05	Vázquez Bañuelos, J et al., Dosis en un Estudio de Radiodiagnóstico de Tórax por TC.
G8_10	Lara-Camilo, A et al., Respuesta TL y OSL de LaO ₃ :Dy impurificado al 0.5%, 1%, 5% y 10%.
G9_01	Escalona Llaguno, MI et al., Detección de gammas y neutrones mediante dos líquidos centelladores de uso genérico.
G6_06	Benavente-Castillo, JA et al., On the influence of the cyclotron components and concrete vault room on the neutron radiation field around the accelerator
G9_03	Campillo Rivera, GE et al., D y E en Cristalino, Tiroides, Glándulas salivales, Glándulas mamarias y Gónadas, en exámenes de Ortopantomografía
G8_09	Rojas, JJ et al., Analysis of CR39 AND LR115 nuclear track detector response to neutron flux of an ²⁴¹ Am/Be source using natural Boron as convertor.
G8_01	Ortiz-Hernández, AA et al., Características de la interacción de rayos γ con las semillas de girasol.
G3_04	García Durán, A et al., Emulador de pulsos nucleares embebido en FPGA.
20:00-22:00	Welcome

Wednesday September 26th, 2016

Schedule	PROGRAMME
9:00-9:45	MAGISTRAL TALK II
10:00-11:30	POSTER SESSION III/Coffee break Chair: Pedro R. González & Carma Oliva Torres Cortes
G3_03	<i>Cañez-Morales, M et al.</i> , Synthesis and thermoluminescence properties of new Ce doped ZnO phosphors.
G3_05	<i>Castro-Campoy, AI et al.</i> , Synthesis and thermoluminescence characterization of self-agglomerating CaSO ₄ .
G2_06	<i>Villanueva Martínez, A et al.</i> , Synthesis of Yttrium aluminate in detection for ionizing energy.
G2_04	<i>Portugal del Castillo, MA et al.</i> , Thermoluminescence of BaZrO ₃ for ionizing radiation detection dosimetry.
G2_08	<i>Moreno Guerra, JA et al.</i> , Synthesis of Cyanuric acid doped with Eu ³⁺ and their study of luminescence, thermoluminescence properties under UV irradiation.
G2_10	<i>Sánchez, JM et al.</i> , Thermoluminescent response of Carbon nitride materials doped with Manganese.
G6_07	<i>Durán-Muñoz, H et al.</i> , Annealing effect on the morphology and luminescence properties of undoped ZnO and Li-doped nanorods by a simple ultrasonic synthesis.
G10_01	<i>Villafaña Bautista, YO et al.</i> , Estudios dosimétricos de abdomen en dos tomógrafos distintos.
G9_08	<i>Sarmiento Rosales, S et al.</i> , Analog Section of a Spectrometric System Based on PIN Diode.
G9_04	<i>Rojas, JJ et al.</i> , Neutron spectrometry and dosimetry in soil using a ²⁵² Cf source through MCNP5 to survey soil moisture.
G3_06	<i>García-Fernández, GF et al.</i> , Monte Carlo evaluation of extended range REM meter WENDI-II for its application in shielding and radiation area monitoring inside a compact Proton therapy center.
G3_08	<i>García González, EA et al.</i> , Particle size effect on the thermoluminescence properties of CaSO ₄ .
G4_03	<i>Soto-Bernal, TG et al.</i> , Análisis de la simetría del campo de neutrones, y el cross-talking, de esferas Bonner en modo Planetario, en una sala de radioterapia.
G4_05	<i>Peña Vidal, JD et al.</i> , Espectros de rayos X para radiodiagnóstico usando MCNP.
G5_07	<i>de León Martínez, HA et al.</i> , Neutrons, X- and γ -ray shielding capacity of quarry tuff.
G4_02	<i>Rojas Solis, DA & Gaona, E.</i> , Estudio retrospectivo de las dosis anuales de radiación recibidas por personal médico y técnico en radiología diagnóstica.
G7_01	<i>Hernández Murillo, CG et al.</i> , Shielding features against x-and γ -rays of block and lightened block.
G9_02	<i>Márquez Mata, CA et al.</i> , Caracterización de seis tipos de Ónix Mexicano.
11:30-12:45	ORAL SESSION 3
13:00-16:00	Lunch
16:00-17:00	ORAL SESSION 4
17:00-18:00	POSTER SESSION IV/Coffee break Chair: Víctor J. Hernández-Davila, C. & Cecilia de Leon Martínez
G7_03	<i>Escalera Velasco, LA et al.</i> , Shielding properties of red brick..
G10_09	<i>Lara-Camilo, A et al.</i> , Optically stimulated luminescence characteristics of organic crystals beta irradiated.
G10_08	<i>García Hernández, R. & Azorín, J.</i> , Determination of the TL kinetic parameters in Amethyst by the Glow curve shape method.
G10_04	<i>Mejía Arratia, CE et al.</i> , Dosimetría de electrones de megavoltaje usando TLDs de LiF:Mg,Ti+PTFE fabricados localmente.
G9_09	<i>Martínez Rendón, AE et al.</i> , Dosis Equivalente Ambiental por rayos γ y neutrones en recintos habitacionales.
G8_02	<i>Ortíz-Hernández, AA et al.</i> , Dosis por radiación no ionizante en torno y dentro de una deshidratadora por inducción electromagnética de 1 kW.
G6_08	<i>Badillo Ranero, MF et al.</i> , Study of LiF crystals size based on different rates of water: Ethanol solvent
G6_09	<i>de Alba, MF et al.</i> , Synthesis, characterization and thermoluminescence study of MgAl ₂ O ₄ .
G3_09	<i>Dorado López, FG et al.</i> , Thermoluminescence of Erbium niobate beta radiation exposed.
G6_01	<i>Valle García, LS et al.</i> , Synthesis and characterization of Lithium fluoride crystals with Copper nanoparticles
G4_07	<i>Aviles-Monreal, R et al.</i> , Influence of thermal annealing conditions on the thermoluminescence response of ZnO:Na.
G7_04	<i>Zavala, JN et al.</i> , El valor de pH y su relación con el tamaño de los cristales de LiF.

Thursday September 27th, 2016

Schedule	PROGRAMME
9:00-9:45	MAGISTRAL TALK III
9:45-11:00	ORAL SESSION 5
11:00-11:45	POSTER SESSION V/Coffee break Chair: Antonio Baltazar Raigosa & Mayra Guadalupe García Reyna
G6_04	<i>Huerta-Rivera, CA et al.</i> , Thermoluminescence of CaZrO ₃ phosphors exposed to beta particle irradiation.
G7_02	<i>Ramírez Gutiérrez, JE et al.</i> , Basic study of radiation damage UV and γ -rays bovine bone by fluorescence.
G8_06	<i>Cano Sánchez, D et al.</i> , DNA damage and overexpression of P53 and Hsp70 in human mononuclear Leukocytes exposed to x-rays.
G8_04	<i>Ugalde Valdés, MA et al.</i> , OSL signal of LnAlO ₃ :Pr ³⁺ as a function of illumination wavelength
G8_03	<i>Arellano, JE et al.</i> , Synthesis and thermoluminescence characterization of LiF:Eu ³⁺ irradiated with x-rays.
G6_10	<i>Velázquez Macías, J et al.</i> , Nanomaterials: Types, uses and applications for thermoluminescent dosimetry.
12:00-13:15	ORAL SESSION 6
FREE AFTERNOON	

Friday September 28th, 2018

Schedule	PROGRAMME
8:00-8:45	MAGISTRAL TALK IV
8:45-9:40	POSTER SESSION VI/Coffee break Chair: Arturo A Ortiz Hernandez & Lenin F Cevallos Robalino
G2_02	<i>Bustamante López, GA et al.</i> , Synthesis and evaluation of the thermoluminescence response of SrTiO ₃ for the development of high dose radiation dosimeters
G3_01	<i>Aburjaile, WN et al.</i> , Dose evaluation of chest computed tomography scans using phantoms.
G3_02	<i>Frederico, MJ et al.</i> , Dosimetric evaluation of computed tomography chest scans for adult and two-year-old patients
G8_08	<i>Cevallos-Rabalino, LE et al.</i> , Analysis by Monte Carlo of Thermal Neutron Flux from a ²⁴¹ Am/ ⁹ Be source for a system of trace analysis in materials
G9_07	<i>Fonseca, TCF et al.</i> , MCMEG: Inter comparison exercise on radiotherapy assessment prostate dose
G10_07	<i>Torres-Cortes, CO et al.</i> , Síntesis y caracterización dosimétrica de dosímetros termoluminiscentes con base en MgB ₄ O ₇ :Dy y MgB ₄ O ₇ :Dy:Na
G11_03	<i>Bastidas, A et al.</i> , Simulation of a Bonner sphere for detection of thermal neutrons
G11_04	<i>Toribio Calero J et al.</i> , Radon progeny in environmental dust samples
G11_05	<i>Pérez Chavez MC et al.</i> , Synthesis, characterization and thermoluminescence response of quantum dots of graphite carbon nitride (g-C ₃ N ₄)
G11_06	<i>Castro-Tapia, S et al.</i> , Breast cancer mass detection in mammograms and tridimensional representation
10:00-10:30	General assembly of the Mexican Society of Irradiation and Dosimetry
10:30-10:45	ISSSD 2018 CLOSING