

VIII ENIN ORAL TECHNICAL SESSIONS

MAY 7, TUESDAY

Auditorium Salão de Jogos A

I01 - Energy Generation Sector, Advances in New Nuclear Power Plants Deployment and Technology Innovations & trends

Time	Paper ID	Title / Authors
14:30 - 14:45	I01_ 23649	Should Brazil Invest in Small Modular Reactor? <i>Valéria Emiliana Alcântara e Alves, Daniel José Leibing Samey, Amir Zacarias Mesquita, Vitor Fernandes de Almeida</i>
14:45 - 15:00	I01_ 23691	Nuclear Power Plants: Recent Advances Towards to Safety <i>Lorenzo de Micheli, Claudia Giovedi Motta, Almir de Oliveira Neto, Alfredo Abe</i>
15:00 - 15:15	I01_ 23848	Amaná - Clean Energy Complex: Nuclear Innovation with the Use of SMRs for Synthetic Fuel Production Using Brackish Water and Atmospheric CO2 <i>Larissa Pinheiro, Iago de Oliveira Gomes, Isabella Rezende Magalhães, Suelen Cristina Silva Oliveira, João Victor Gioseffi, Maciel Alegrio Lopes</i>
15:15 - 15:30	I01_ 24016	A Little about Nuclear Fusion <i>Amir Zacarias Mesquita, Leonardo Yago Zwetsch Varella, Walewska Golveia Silva, Welen Nunes Lima, Thessa Cristina. Alonso.</i>
15:30 - 15:45	I01_ 24057	Separation Techniques of Lithium Isotopes by Ion Exchange Method and Monitoring by ICP-MS <i>José Oscar Vega Bustillos, Juliana Ikebe Otomo, Paulo Henrique Barreto Leão, Beatriz Soto Rovelo, Daniela da Costa Gonçalves Santos, João Coutinho Ferreira, Vanderlei Bergamaschi, Vinicius Alvarenga</i>
15:45 - 16:00	I01_ 24160	The Possible Contributions of Graphene to the Nuclear Industry <i>Marcus Vinicius Vieira, Fernando M. Araujo-Moreira</i>

I02 - Plant Operation Strategies, costs and capacity factors in the Nuclear Generation of Large Utilities

Time	Paper ID	Title / Authors
16:00 - 16:15	I02_ 23617	Evaluation of the integrity of mechanical components by selective leaching in metals <i>Bruno Vieira Lopes, Maritza Rodriguez Gual, Rennan de Souza da Silva</i>

I06 - Human Resources and Professional Development

Time	Paper ID	Title / Authors
16:15 - 16:30	I06_ 24036	Experience of the Galeão Air Force Hospital (HFAG) in health training and qualification in approaching victims of radiological and nuclear agents <i>Moisés Bonifácio das Neves, Newton Hirata, Jayme Alberto Mendes, Humberto Silva Fonseca</i>

MAY 8, WEDNESDAY

Auditorium Salão de Jogos A

I04 - Public Awareness, sustainability and social impact of nuclear technologies

Time	Paper ID	Title / Authors
17:00 - 17:15	I04_ 23770	Environmental Performance Assessment in Nuclear Research Facilities: A Review <i>Daniel Henrique Honório, Erica Kushihara Akim, Antonio Carlos Farrapo Junior, Diogo Aparecido Lopes Silva</i>
17:15 - 17:30	I04_ 23860	Exploring the Synergy between Nuclear Technology and Gamification: An Approach to Nuclear Education <i>Rafael dos Santos, Inaya Lima</i>

17:30 - 17:45 I04_ 24171 An Analysis of Brazil's Situation in the Global Survey on Public Support for Nuclear Energy
Fernando Razuck

I05 - Nuclear Safety & Security, non-Proliferation, Safeguards and Nuclear Forensics, Radioprotection and Safety Culture

Time	Paper ID	Title / Authors
17:45 - 18:00	I05_ 24174	Nuclear Non-proliferation: an analysis of the international system in view of nuclear weapons <i>Amanda Rodrigues de Carvalho, Elaine Aparecida Rodrigues, Julia Cristina Garcia, Delvonei Alves de Andrade, Jose Oscar William Vega Bustillos</i>
18:00 - 18:15	I05_ 23890	Three Decades of ABACC: A Regional Safeguards System in the Framework of International Safeguards and Nuclear Cooperation for Peaceful Purposes <i>Fabio Dias, Agustín Arbor González, Ana Maria Vaz de Araujo, Leonardo Ariel Pardo, Marco Antônio Saraiva Marzo, Maria Cristina Lourenço, Sonia Fernández Moreno</i>
18:15 - 18:30	I05_ 23667	A historical overview: radiological and nuclear preparedness needs - safe and adequate country response <i>Madison Coelho de Almeida, Raul dos Santos, João Régis dos Santos, Delvonei Alves de Andrade</i>
18:30 - 18:45	I05_ 23781	Basic Principles of Safeguards by Design <i>Peter Rance, Jeremy Whitlock, Traci Newton, Michael Barletta, Neivy Lopez Pino</i>
18:45 - 19:00	I05_ 23974	Classification assessment of radiological controlled areas subdivision zones <i>Helio Massaharu Murata, Douglas Brandão Baroni, Anelise Ruzzarin, Fagner Chagas Rother. Sad Sandrini Borsoi</i>

MAY 9, THURSDAY

Sala de Seminário 1A

I06 - Human Resources and Professional Development

Time	PaperID	Title / Authors
15:45 - 16:00	I06_ 23856	O DISCURSO DOS PROFISSIONAIS DE ENG. NUCLEAR SOBRE A INFLUÊNCIA DO MESTRADO E OU DOUTORADO NA CONSTRUÇÃO DE SUAS IDENTIDADES ACADÊMICAS E PROFISSIONAIS <i>Rafael Santos, Inaya Lima</i>
16:00 - 16:15	I06_ 24023	Working with Canvas in a Public Institute of Research and Development in the nuclear sector: a Team Effort to Achieve Its Goals <i>Adriana Lourenço d'Ávila, Ana Gabriella Amorim Abreu Pereira, Guilherme Dutra Gonzaga Jaime</i>

VIII ENIN POSTER TECHNICAL SESSIONS

MAY 7, TUESDAY

Biblioteca -TOTEN 2

I01 - Energy Generation Sector, Advances in New Nuclear Power Plants Deployment and Technology Innovations & trends

I02 - Plant Operation Strategies, costs and capacity factors in the Nuclear Generation of Large Utilities

I04 - Public Awareness, sustainability and social impact of nuclear technologies

I05 - Nuclear Safety & Security, non-Proliferation, Safeguards and Nuclear Forensics, Radioprotection and Safety Culture

Time	Paper ID	Title / Authors
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- 14:30 - 14:45** I01_ 23858 Comparison of ion exchange methods for lithium-7 isotopic enrichment for application in PWR reactors.
Juliana Ikebe Otomo, Juliana Ikebe Otomo, Daniela da Costa Gonçalves Santos, João Ferreira Coutinho, Vanderlei Sérgio Bergamaschi, José Oscar William Vega Bustillos
- 14:45 - 15:00** I01_ 23923 Electrochemical properties of activated carbon supercapacitors prepared with electrolytes based on solid and liquid eutectic solvents
Bianca Duarte da Costa, Pedro Vítor Duarte da Cruz, Rubens Nunes de Faria Junior
- 15:00 - 15:15** I01_ 24151 Comparative analysis between provided values and measured values on photovoltaic modules
Vinicius de Melo Puglia, Thadeu Das Neves Conti
- 15:15 - 15:30** I01_ 24185 Purification of lithium ions from lithium hydroxide solution by ion exchange method using cationic resin AG 50W-X8 e HPR 1200
Daniela da Costa Gonçalves Santos, Juliana Ikebe Otomo, Vanderlei Sérgio Bergamaschi, José Oscar Vega Bustillos
- 15:30 - 15:45** I01_ 24438 Comparative analysis between provided values and measured values on photovoltaic modules
Vinicius de Melo Puglia, Thadeu das Neves Conti
- 15:45 - 16:00** I02_ 23616 Techniques in detect selective leaching in metal components
Maritza Rodríguez Gual, Bruno Vieira Lopes, Rennan de Souza da Silva
- 16:00 - 16:15** I04_ 23771 Scientific Outreach and The Museum of Nuclear Knowledge
Júlia Wagner Pereira, Leticia Antunes Ferreira Alves, Robson Bruno Fernandes da Silva Amador, Gabriel Mello dos Santos Abreu Mol, Hilary da Silva Lima, Raphael Rodrigo Pereira, Ana Paula Legey de Siqueira, André Cotelli do Espírito Santo, Sara Isnardo Fernandes, Eugenio Rangel Marins
- 16:15 - 16:30** I04_ 23846 Research Collaboration Dynamics at the National Nuclear Energy Commission (CNEN): Pathways to Enhance Economic and Social Impact
Alessandro Augusto Jordão, Valter Arthur

16:30 - Coffee Break (Biblioteca)

- 17:00 - 17:15** I04_ 23644 Utilization of Multimedia Resources in Nuclear Sciences Communication within the Brazilian School Environment
Vitor Fernandes de Almeida, Amir Zacarias Mesquita, Alexandre Soares Leal, Fernando Soares Santos, Rodrigo Vieira, Valéria Emiliana Alcântara e Alves, Adriano de Almeida Massaud Felipe, Ana Rosa Baliza Maia, Leonardo Yago Zwetsch Varella, Walewska Gouveia Silva
- 17:15 - 17:30** I04_ 24182 Study of gamma radiation in the degradation of high-density polyethylene (HDPE) plastic bags.
Weslei Marcos da Silva Teixeira, Aneuri Souza de Amorim, Luciana Carvalheira
- 17:30 - 17:45** I04_ 23835 A proposal of criteria to improve the quality of scientific divulgation in the nuclear area
Cássio Feitosa Trajano da Silva, Cláudio Henrique dos Santos Grecco, Cláudio Márcio do Nascimento Abreu Pereira
- 17:45 - 18:00** I04_ 23843 Nuclear Energy as a Clean Alternative: Analyzing Citizens' Perception on 'X' through NLP
Gabriella Amorim, Adriana Lourenço D'Ávila
- 18:00 - 18:15** I05_ 23748 Safety and Security issues during the return of contaminated scrap metal to Brazil
Madison Coelho de Almeida, Patrick Rodrigues Perrotta, Raul dos Santos, Delvonei Alves de Andrade, Maria Angelica Vergara Wasserman
- 18:15 - 18:30** I05_ 23776 Methodology to estimate Effective Doses from ¹³⁷Cs Gaussian Plume using MCNP6
Juliana Sanchez, Juliana de Sá Sanchez, Andressa dos Santos Nicolau, César Marques Salgado, Claudio Marcio N. A. Pereira

MAY 8, WEDNESDAY

Biblioteca -TOTEN 2

I05 - Nuclear Safety & Security, non-Proliferation, Safeguards and Nuclear Forensics, Radioprotection and Safety Culture

I06 - Human Resources and Professional Development

Time	Paper ID	Title / Authors
14:30 - 14:45	I05_ 23782	Development of an Epoxy/Carbon Fiber Composite for Radiation Attenuation with a Dispersion of Micro Particles of Bismuth Trioxide (Bi ₂ O ₃) <i>Pedro Munhoz, Fernando Codeko Nascimento, Orlando Rodrigues Junior, Maria da Penha Albuquerque Potiens, Wilson Apararecido Parejo Calvo</i>
14:45 - 15:00	I05_ 24186	Nuclear Security and Cybersecurity: Two Fields with Gender Gap <i>Tania Mara Muguet Haisman</i>
15:00 - 15:15	I05_ 23663	Innovative Deposition of Platinum-Graphene on Alumina for Passive Autocatalytic Recombiners to Improve Nuclear Safety <i>Lorenzo De Micheli, Claudia Giovedi Motta, Rodrigo Fernando Brambilla Souza, Gabriel de Almeida Silvestrin, Almir de Oliveira Neto</i>
15:15 - 15:30	I05_ 24025	Analytical Approach to Public Radiological Protection in Controlled Areas <i>Lucinda Fernandes da Silva, Eará de Souza Luz Oliveira, João Carlos Silva, Gustavo Claassen, Francisco José de Oliveira Ferreira</i>
15:30 - 15:45	I05_ 24055	Strategies for awareness and promotion of nuclear security and safety for professionals through social networks: a case study in Brazil <i>Camila Moreira Araujo, Francisco Cesar Augusto Da Silva, Davi Ferreira De Oliveira</i>
15:45 - 16:00	I05_ 23671	Soft Systems Methodology (SSM) as an approach to the safety management of nuclear facilities: a case report <i>Sabine Neusatz Guilhen, Iara Maria Carneiro de Camargo, Júlio Takehiro Marumo, Teresinha de Moraes da Silva, Gerson Antonio Rubin, Antonio Souza Vieira Neto</i>
16:00 - 16:15	I05_ 23790	Evaluation of Multidosimetry Results during Angra 1 Refueling Outage <i>Fernando Mendonça Soares Filho</i>

16:30 - Coffee Break (Biblioteca)

17:00 - 17:15	I06_ 23695	Study of Organizational Management through measures of implicit and explicit associations to demonstrate the need and possibilities for innovation in public and private management <i>Maria P. S. Martins</i>
17:15 - 17:30	I06_ 24045	Entrepreneurial Innovation in Nuclear Science: Accelerating Research Through the LCAA Supercomputing Initiative <i>Guilherme Dutra Gonzaga Jaime, Adriana Lourenço D'Avila</i>