



28 September - 1 October 2022

Frédéric Joliot-Curie International House of Scientists at St. Constantine and Elena Resort, Bulgaria

PROGRAMME

Recommendation to the speakers: Keep 3-5 minutes of the time of your presentation for Q&A

Wednesday, 28.09.2022	
16:00 - 18:30	Registration, In front of the Conference Room No 1
19:30 - 22:30	Welcome wine cocktail – Panorama cafe - the top floor of the hotel
Thursday, 29.09.2022	
08:00 - 09:15	Registration, In front of the Conference Room No 1
	Conference room No 1
09:15	Mladen MITEV , BgNS President – <i>Welcome words</i>
09:20	Leon CIZELJ , ENS president – <i>Welcome words</i>
09:30	Pavlin GROUDEV , Chair of the conference, <i>Opening the Conference</i>
	Session: NEWS AND OVERVIEWS
	Chairs: Mladen MITEV (INRNE-BAS, BG) and Mladen MILCHEV (Kozloduy NPP, BG)
09:30 - 10:00	Jiri Zdarek, Petr Vomacka , ÚJV Řež, Czech Republic, ” <i>Lifetime management and refurbishment</i> “
10:00 - 10:30	Lyuben Marinov , NPP Kozloduy New Builds Plc, Bulgaria, ” <i>Status and challenges facing the project for new nuclear power at Kozloduy NPP</i> “
10:30 - 11:00	Boyka Nenkova, Petar Manchev , “GCR” Ltd, Bulgaria, ” <i>Integrated Management System – a Key Factor for Success of the Organization</i> ”
11:00 - 11:30	<i>Coffee break</i>



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	<i>Session: NPP POLICY AND MANAGEMENT</i>
	Chairs: Luben MARINOV (Kozloduy NPP New Build, BG) and Viktor KOLYKHANOV (Odessa NPU, UA)
11:30 - 12:00	David Mauritzson, Jimmy Nilsson, Veselin Lefterov, Jonathan Al-Ani , Westinghouse Electric Sweden AB – Bulgaria Branch, “ <i>Westinghouse’s VVER-1000 model for APROS</i> ”
12:00 - 12:30	Slavyan Lachev , Bulgarian Energy Holding EAD, Bulgaria, “ <i>Diversification and the Need for Its Implementation in the Nuclear Sector</i> ”
12:30 - 13:00	E. Kostov, Á. Pérez-Salado Kamps, Ch. Hartman, D. Zeniuk, H. Troselius , Westinghouse Electric Sweden AB – Bulgaria Branch, “ <i>Innovative Long Term Containment Cooling System for VVER-440</i> ”
13:00 - 14:30	<i>Break</i>
	<i>Session: NPP POLICY AND MANAGEMENT (Cont.)</i>
	Chairs: Luben MARINOV (Kozloduy NPP New Build, BG) and Viktor KOLYKHANOV (Odessa NPU, UA)
14:30 - 15:00	Bilyana Simeonova , NPP Kozloduy New Builds Plc, Bulgaria, “ <i>Environmental monitoring of the site approved for the deployment of the new nuclear power plant at Kozloduy NPP</i> ”
15:00 - 15:30	Lorenzo Santini, Ivaylo Mirchev , Worley Nuclear Services JSC, Bulgaria, “ <i>Worley Forefront Activities in the SMR Space: Focus on Coal to SMR Retrofitting</i> ”
15:30 - 16:00	Emil Kichev , Technical University of Sofia, Bulgaria, “ <i>Once again for the lifetime of nuclear reactors: Myths and reality</i> ”
16:00 - 16:30	<i>Coffee break</i>
16:30 - 17:00	<i>Session: POSTERS</i>
	Chairs: Krassimira ILIEVA (BgNS) and Petya VRYASHKOVA (INRNE-BAS, BG)
	<i>POSTERS</i> listed behind the Program will be presented. <i>Request for short (3 min) presentation has to be done preliminary to the chairs.</i>

POSTERS



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1. **V.I. Skalozubov, I.L. Kozlov, Hani Hayo, O.I. Kozlov, D.S. Bundevev**, Odessa National Polytechnic University, Ukraine, “*Lessons from the Chernobyl Accident for the Modern Nuclear Power Industry Environmental Safety*”.
2. **Victor Kolyhanov, Igor Kozlov, Kyrulo Murenko**, Odessa National Polytechnic University, Ukraine, “*The Reliability Estimation of the Turbine Lubricating Oil System for VVER-1000*”.
3. **L.E. Herranz (CIEMAT), S. Paci (UNIPI), I. Ivanov (TUS), P. Groudev (INRNE-BAS)**, “*MUSA - Management and Uncertainties of Severe Accidents – subjects and focal points of the project*”
4. **L. Dobrev¹, B. Slavchev¹, D. Dimitrova¹, S. Krastevski¹, Z. Zahariev¹, Tz. Nonova¹, B. Veleva¹, E. Geleva¹, D. Tonev¹**, ¹-Institute for Nuclear Research and Nuclear Energy – Bulgarian Academy of Sciences, “*Comparison of the results of gross alpha and gross beta activity in tap water samples from central southern Bulgaria from 2019 till now*”

Friday, 30.09.2022	
Conference room No. 4	
YOUNG GENERATION COMPETITION	
Chairs: Dobromir DIMITROV (INRNE-BAS, BG) and Petr Vomachka (UJV Rez, Czech Republic)	
09:00 - 11:00	<p><i>For presentation - 15 min plus, for questions - 3 min.</i></p> <p>1. Aleksandar Georgiev, Sofia University „st. Kliment Ohridski”, Bulgaria, “<i>Nuclear safety culture</i>”</p> <p>2. Lora Raycheva , Georgi Varbanov, EnproConsult Ltd, Bulgaria ”<i>Application of RVT for Generation of Floor Response Spectra for the PSA Elaboration</i>”</p> <p>3. Nikol BORISOVA², Plamen V. Petkov*¹, Boyan Todorov² and Hristo Iliev¹, Sofia University “St. Kliment Ohridski”, ¹Faculty of Physics, ² Faculty of Chemistry and Pharmacy, Bulgaria, “<i>Modeling of VVER-1000 primary coolant chemistry during normal reactor operation and investigation of coolant/wall interactions</i>”</p> <p>4. Sonya Hammashi¹, Plamen V. Petkov², ¹International School UWEKIND, Bulgaria, ²Sofia University “St. Kliment Ohridski,”, Bulgaria, ”<i>New concepts in development of nuclear energy (Small modular reactors with lead containing coolant)</i>”</p> <p>5. Simona Miteva, B. Marinova, GCR Ltd, Bulgaria, “<i>Use of PSA methods to evaluate technical decisions performed on Unit 5 and 6 on the Kozloduy NPP</i>”</p> <p>6. Tsvetan Yovov, Technical University of Sofia, Bulgaria, “<i>NPP Safety</i>”</p>



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	<p>7. <u>Ivan Stoyanov</u>¹, <u>Alexander Tomov</u>² and <u>Plamen Petkov</u>¹, ¹Faculty of physics, Sofia University “St. Kliment Ohridski”, 5 J. Bourchier Blvd, Sofia 1164, Bulgaria, ²Kozloduy NPP, Kozloduy 2230, Bulgaria, <i>“Defects in the operation of nuclear fuel and root causes for their occurrences and growing”</i></p> <p>8. <u>Angel Ivanov</u>, <i>Technical University of Sofia, Bulgaria, “Economics properties comparison of conventional nuclear power reactors and SMRs with pressurized water”</i></p>
11:00 - 11:10	<i>Voting</i>
11:10 - 11:30	<i>Coffee break</i>
	<i>Session: APPLICATION AND EXPERIMENT IN NUCLEAR</i>
	Chairs: Kalin FILIPOV (Technical University of Sofia, BG) and Igor Kozlov (Odessa NPU, UA)
11:30 - 11:50	<p><u>Vladimir Yurukov</u>, <u>Ivaylo Efremov</u>, ATP-AtomToploProekt ltd, Bulgaria, <i>“Approaches, main results and conclusions in the implementation of the activities under the Contract with the Kozloduy NPP “Design of a topic: Construction of a System for Supply of Cooling Medium in the Reactor Core in Conditions of Severe Accident and Total Black-out with Mobile Means”</i></p>
11:50 - 12:10	<p><u>Tsvetan Andreev</u>, Theta Consult Ltd, <i>“Radiation Control and Radiation surveys In Situ. Control of radioactive contaminations”</i></p>
12:10 - 12:30	<p><u>Plamen Petkov</u>^{1*}, <u>Dimitar Todorov</u>², <u>Anton Ziapkov</u>¹, <u>Nedislav Veselinov</u>¹, <u>Kalojan Genkov</u>¹, and <u>Nikolay Zografov</u>^{1, 2}, Faculty of Physics, Sofia University, Bulgaria, ² – Danlex EOOD Research center, Bulgaria, <i>“Thermal Monitoring of an X-ray Generator and Development of Criteria for Failure Prevention by Condition Based Maintenance”</i></p>
12:30 - 12:50	<p><u>Yavor Andreev</u>, Theta Consult Ltd, Bulgaria, <i>“Nuclear and radiation terrorism. How are the borders Bulgaria protected”</i></p>
12:50 - 13:10	<p><u>Lyuben Dobrev</u>¹, <u>Dobromir Dimitrov</u>¹, <u>Mladen Mitev</u>¹, <u>Tzvetana Nonova</u>¹, ¹-Institute for Nuclear Research and Nuclear Energy – Bulgarian Academy of Sciences, <i>“Determination of the specific activity of ⁵⁹Fe in iron activation detectors”</i></p>
13:20 - 14:30	<i>Break</i>
14:30 – 17:30	<i>Excursion to Palace Evksinograd</i>
19:30 – 23:30	<p><i>Gala dinner, Hotel Restaurant</i> <i>Awarding the best YG presentations</i></p>