



Croatian Nuclear Society

in cooperation with



EUROPEAN NUCLEAR SOCIETY



15th International Conference of the

**C R O A T I A N
N U C L E A R S O C I E T Y**

Nuclear Option for Reliable
Electricity Generation

May 31 – June 3, 2026, Zadar, Croatia

Conference Programme

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CONFERENCE LOCATION

The conference will take place in the **Hotel Kolovare** in Zadar.

CONFERENCE PROCEEDINGS

All papers, presented orally or as posters, accepted upon peer review are included into the Conference Proceedings. Book of Abstracts and Conference Proceedings on the USB memory stick can be found in the conference package.

INFORMATION

For further information and possible questions please refer to the Conference registration desk in the Hotel Kolovare.

SOCIAL EVENTS

WELCOME RECEPTION

The welcome reception will take place on **Sunday, May 31st 2026, at 20:00 h** in the **Hotel Kolovare, Wine Boutique area**. You are welcome to attend.

CONFERENCE DINNER

The conference dinner will take place on **Tuesday, June 2nd 2026**, in the **Hotel Kolovare Restaurant at 20:00 h** in Zadar.

CONFERENCE OVERVIEW

ORAL PRESENTATIONS

From Monday, June 1st, till Wednesday, June 3rd, following 8 sessions with oral presentations are foreseen:

Session 1. Nuclear Safety Analyses (NSA)

Session 2. Operation, Maintenance and Lifetime Expansion Experience (OMLEE)

- Session 3. ***Nuclear Option in the Context of Energy, Economics, Finance and Resilience (NEEFR)***
- Session 4. ***Regulatory Practice, Licensing, Emergency Preparedness, Safety Culture and Public Relations (RPLEP)***
- Session 5. ***Reactor Physics and Nuclear Fuel Cycle (RPNFC)***
- Session 6. ***Severe Accident Analyses and Risk Assessment (SAA) treba imati akronim (SAARA)***
- Session 7. ***Radioactive Waste Management and Decommissioning, Radiation Hazard and Protection (RWMD)***
- Session 8. ***Small Modular Reactors (SMRs)***

INVITED PRESENTATIONS

Eleven invited presentations (by I. Paić, M. Perić, M. Španić, R. Tomičić, B. Petrović, K-B. Lee, P. Mach, J. Mišák, I. Kouklik, A. Guelfi, S. Park, W. Bizollon, Y. Kim) will be held in the course of the Conference. The details are given in the programme.

ROUND TABLE

Round table discussion “**SMRs today and tomorrow**” is taking place on Tuesday, **June 2nd 2026, from 17:30 to 19:00 h**. The round table discussion is devoted to SMR trends and perspectives from the point of view leading industry vendors.

POSTER PRESENTATIONS

Poster session will take place on Wednesday, **June 3rd 2026, from 9:00 h to 10:30 h**, in the Posters Hall.

YOUNG AUTHORS AWARD CEREMONY

The Young Authors Award Ceremony will take place on Wednesday, **June 3th 2026**, during the Conference Closing session **from 16:30 h to 17:00 h**.

CONFERENCE

	Sunday, May 31 st	Monday, June 1 st
8:00		Registration
8:30		
9:00		Welcome Addresses
9:30		
10:00		Invited Presentation 1
10:30		Invited Presentation 11
11:00		Coffee Break
11:30		Invited Presentation 2
12:00		Session 2: OMLEE
12:30		Invited Presentation 3
13:00		Lunch Break
13:30		
14:00		Invited Presentation 4
14:30		Session 3: NEEFR
15:00		
15:30		Coffee Break
16:00		
16:30		Session 5: RPNFC
17:00		
17:30		
18:00		
18:30	Conference Registration	
19:00		
19:30		
20:00	Welcome Reception	
20:30		

Sessions:

- RT** Round Table
- NSA** Nuclear Safety Analyses
- OMLEE** Operation, Maintenance and Lifetime Expansion Experience
- NEEFR** Nuclear Option in the Context of Energy, Economics, Finance and Resilience

PROGRAMME

Tuesday, June 2 nd	Wednesday, June 3 rd		
Registration	Registration	8:00	
		8:30	
Invited Presentation 7	Poster Session	9:00	
Invited Presentation 8		9:30	
Invited Presentation 9		10:00	
Invited Presentation 10		10:30	
Coffee Break	Coffee Break	10:30	
Session 8: SMRs	Session 4: RPLEP (con)	11:00	
	Session 6: SAARA	11:30	
		12:00	
Lunch Break	Lunch Break	12:30	
		13:00	
	Invited Presentation 6	Session 7: RWMD	13:30
			14:00
Invited Presentation 5	14:30		
Coffee Break	15:00		
Session 1: NSA	Coffee Break	15:30	
	Coffee Break	16:00	
	Conference Closing	16:30	
Round Table (RT): SMRs today and tomorrow		17:00	
		17:30	
		18:00	
		18:30	
		19:00	
		19:30	
Conference Dinner		20:00	
		20:30	

Sessions:

- RPLEP** Regulatory Practice, Licensing, Emergency Preparedness, Safety Culture and Public Relations
- RPNFC** Reactor Physics and Nuclear Fuel Cycle
- SAARA** Severe Accident Analyses and Risk Assessment
- RWMD** Radioactive Waste Management and Decommissioning, Radiation Hazard and Protection
- SMRs** Small Modular Reactors

CONFERENCE SCHEDULE

MONDAY, June 1st

8:00-9:00	Registration of participants
9:00-11:00	<p>OPENING SESSION</p> <p>Chairs: Siniša Šadek, Ivica Bašić, Mario Matijević (Croatian Nuclear Society)</p> <p>Welcome Addresses</p> <p>Invited Presentations</p>
	<p>IP-1 Ivan Paić, Mario Perić KONČAR's Long-Term Operational and Maintenance Support at the Krško Nuclear Power Plant</p> <p>IP-11 Yong Hee Kim Advanced Breakeven Molten Salt Fast Reactor (BeMFR) for Sustainable Nuclear Energy</p>
11:00-11:30	Coffee Break
11:30-12:00	Invited Presentations
	IP-2 Matea Španić, Robert Tomičić Automated Flaw Detection from Eddy Current Data Using Convolutional Neural Networks
12:00-12:30	<p>Operation, Maintenance and Lifetime Expansion Experience (OMLEE)</p> <p>Chairs: Mario Gluhak (NPP Krško, Slovenia), Igor Vuković (NPP Krško, Slovenia)</p>
	<p>S2-106 Nejc Friškovec, Klemen Grozina, Manja Obreza, Dalibor Igrec Data-Driven Regression Approaches for Early Anomaly Detection in Medium-Voltage Electric Motors</p> <p>S2-160 Amir Beširević, Nataša Kovjanović, Bruno Bogatin Evaluation of Control Rod Drop Time Measurement Methodologies in Nuclear Power Plants</p>
12:30-13:00	Invited Presentations
	IP-3 Bojan Petrović Opportunities for Nuclear Power in Maritime Applications
13:00-14:00	Lunch Break
14:00-14:30	Invited Presentations
	IP-4 Ki Bog Lee The Role of Nuclear Power in Korea's Energy Mix: Current Status, Policy Direction, and Future Outlook

14:30-15:30	<p style="text-align: center;">Nuclear Option in the Context of Energy, Economics, Finance and Resilience (NEEFR)</p> <p style="text-align: center;">Chairs: Jozef Mišák (UJV Rez, Czech Republic), Nikola Čavlina (FER University of Zagreb, Croatia)</p>
	<p>S3-101 Jan Emblemvåg Powering Small Grids and Islands Using Floating Nuclear Power Plants</p> <p>S3-102 Marianne Synnes Emblemvåg, Jan Emblemvåg Stakeholder Engagement in the Adoption of Nuclear Propulsion in Merchant Shipping</p> <p>S3-134 Dandara Araujo Da Silva Microreactors: Enabling Resilient Energy Solutions for Critical Applications</p> <p>S3-201 Damjana Pirc, Andrej Trošt, Gregor Srpčič, Urška Klenovšek, Mateja Podgoršek Methodology for the Identification of Sites for the Deployment of Small Modular Reactors (SMRs) in Slovenia</p>
15:30-16:00	Coffee Break
16:00-17:30	<p style="text-align: center;">Reactor Physics and Nuclear Fuel Cycle (RPNFC)</p> <p style="text-align: center;">Chairs: Bojan Petrović (Georgia Institute of Technology, USA), Marjan Kromar (Jožef Stefan Institute, Slovenia)</p>
	<p>S5-129 Erlend Hagen Closing the Loop: Why the Nuclear Fuel Cycle Matters for a Sustainable European Energy System</p> <p>S5-132 Lucija Dasović, Mario Matijević Calculation of PWR Reactor Xenon Poisoning Using the Wigner-Seitz Approximation and Physics-Informed Neural Networks</p> <p>S5-139 Božidar Obradović, Miodrag Milošević Extension of the WIMSD-5B Code for Multi-Zone Fuel Modelling Using Geometry-Consistent Dancoff Factors</p> <p>S5-164 Marjan Kromar, Gašper Letnar Criticality Sensitivity Analysis of a Generic Spent Nuclear Fuel Disposal Cask</p> <p>S5-170 Mario Matijević, Siniša Šadek, Krešimir Trontl Severe Accident Gamma Dose Mapping of PWR Nuclear Island Using FW-CADIS Methodology and Contribution Flux</p> <p>S5-175 Paul Vollrath, Farzad Rahnema, Ding Kang Zhang, Abderrafi Ougouag A Stylized 3D General Electric PRISM Nitride Fuel Configuration Benchmark Problem</p>

TUESDAY, June 2nd

8:00-9:00	Registration of participants
9:00-11:00	Invited Presentations
	<p>IP-7 Ivo Kouklik CEZ Small Modular Reactors Program</p> <p>IP-8 Antoine Guelfi NUWARD SMR, a Multi-energy Platform Serving Industries and Utilities to Accelerate Transition to a Low-carbon Energy Future</p> <p>IP-9 Sohyun Park KHNP i-SMR: Advanced Passive Safety Design and Deployment Strategy for Emerging Nuclear Markets</p> <p>IP-10 William Bizollon Holtec SMR-300: From First-of-a-Kind Deployment to Global Fleet Readiness</p>
11:00-11:30	Coffee Break
11:30-13:00	<p>Small Modular Reactors (SMRs)</p> <p>Chairs: Ivo Kouklik (CEZ, Czech Republic), Davor Grgić (FER University of Zagreb, Croatia)</p>
	<p>S8-113 Marko Budimir, Dejan Strbad, Mihaela Orić, Filip Novoselnik, Ante Bilušić, Fabjan Jozić, Josip Žunić, Rita Rudelić, Toma Šiklič Physics-Informed Digital Twin and Reconstruction Pipeline for Under-Lead Ultrasonics in Lead-Cooled SMRs</p> <p>S8-117 Joonku Lee, Daeil Lee, Bonseung Koo, Sanghoon Bae, Youngwoong Kim Development Strategies for Advanced Nuclear Instrumentation Technologies for Innovative Small Modular Reactors</p> <p>S8-125 Hanna Kim, Rira Park, Hyungmo Kim Individual Phase Flow Rate Measurement Technique Using Optical Fiber Sensor in Horizontal Stratified Flow</p> <p>S8-202 Andrew Girona, Abderrafi Ougouag, Sonat R. Sen, Farzad Rahnema, George Griffith, Dingkang Zhang A Coolant-Free Generic Replacement for Reactor Vessel Cooling Systems: Steady-State Normal Operation Analysis of Implementation for a Small Sodium-Cooled Fast Reactor (SFR)</p> <p>S8-192 Hlib Kryvonishchenko, Julia Brzozowska Westinghouse Advanced Passive (AP) Technology</p>

13:00-14:30	Lunch Break
14:30-15:30	Invited Presentations
	<p>IP-6 Jozef Mišák Specific Issues of Licensing Small Modular Reactors</p> <p>IP-5 Petr Mach Approach to License New Build NPPS in Czechia</p>
15:30-16:00	Coffee Break
16:00-17:30	<p>Nuclear Safety Analyses (NSA) Chairs: Siniša Šadek (FER University of Zagreb, Croatia), Josip Vuković (Enconet, Croatia)</p>
	<p>S1-151 Seungwon Jeon, Hyewon Lim, Seoyeon Park, Jaegu Lee, Jihun Yun, Youngmin Kim, Hyungmo Kim A Lock-up Characteristics of the Hydraulic Snubber for Plant Piping Systems</p> <p>S1-154 Ryuichi Kishimoto, Albert Dairo, Jaclyn Natividad, Mark Gino Aliperio From Steam to Power: Using the GPWR Simulator to Strengthen Safety Culture in Turbine-Generator Operations</p> <p>S1-155 Petra Strmečki, Davor Grgić, Siniša Šadek, Paulina Družijanić Calculation of Radiological Consequences of Design Basis Accidents for Licensing Purposes</p> <p>S1-176 Bong-Oh Choi, Min-Shin Jung, Ung-Soo Kim A Safety Analysis Methodology for Non-Loss of Coolant Accidents (Non-LOCA) in an Innovative Small Modular Reactor (i-SMR)</p> <p>S1-183 Alessandro Agostini, Kim Anh Ngoc Truong, Domenico De Luca Validation of Coupled RELAP5/PARCS Codes for Main Steam Line Break analysis: a TMI-1 Benchmark Study</p>
17:30-19:00	<p>Round Table: SMRs today and tomorrow Chair: Davor Grgić (FER University of Zagreb, Croatia)</p>
20:00	Conference Dinner

WEDNESDAY, June 3rd

8:00-9:00	Registration of participants
9:00-10:30	<p style="text-align: center;">Poster Session Chair: Paulina Družijanić (FER University of Zagreb, Croatia)</p> <p>S1-121 Jungseon An, Sangjung Park, Daegwang Hong Overview of i-SMR Non-LOCA Safety Analysis (SAR sections 15.3&4)</p> <p>S1-122 Seokhwan Jeong, Juhyun Park Safety Analysis of i-SMR under LOCA Conditions using SPACE Code</p> <p>S1-150 Vesna Benčik, Davor Grgić, Siniša Šadek, Paulina Družijanić, Petra Strmečki Protection System Setpoints for Steam Line Break Accident Containment Response Analysis for NPP Krško</p> <p>S1-153 Mark Gino Aliperio Simulated Small-break Loss-of-Coolant Accident (SBLOCA): Transient Analysis in PWRs</p> <p>S1-156 Ryuichi Kishimoto, Albert Dairo, Jaclyn Natividad, Mark Gino Aliperio Strengthening Emergency Preparedness for Station Blackout Using a GPWR Simulator</p> <p>S1-159 Josip Vuković, Davor Grgić FDS Fire Modelling Calculations in NPP Safety Related Pump Rooms</p> <p>S1-161 Michele Marra, Cristiano Ciurluini, Fabio Giannetti Thermomechanical and Reactivity Feedback Analysis in Lead-Cooled Fast Reactor Cores</p> <p>S1-189 Alessandro Agostini, Simone Di Pasquale, Marco Cherubini Assessment of Intra-Pellet Temperature Distribution Effects on Reactivity During RIA Conditions: A Deterministic Analysis Based on the HERA JEEP Benchmark</p> <p>S2-107 Marko Pirc, Renato Barbarić, Klemen Grozina, Nejc Friškovec Dielectric Losses Diagnostic Testing of Medium-Voltage Cables and Motors in Krško Nuclear Power Plant</p> <p>S2-114 Gordan Janković, Franjo Boh Modernization of Central Alarming System at Krško NPP</p> <p>S2-124 Robert Kelavić, Sanja Smirić, Dejan Kralj Modernization of the Film Forming Amine Injection Skid and Performance Evaluation of the 2025 FFA Application at Krško Nuclear Power Plant</p>

S2-136	Darko Cicvarić Digital Rod Position Indication Advances Display System Installation at Krško NPP
S2-138	Vladislav Krošelj, Anton Preskar Water Treatment System Replacement in Perspective of Long Term Krško NPP Operation
S2-158	Klemen Debelak, Martin Avguštin JEK2 Condenser Cooling Technology
S3-123	Luka Alujević System Levelized Cost of Electricity of Nuclear Power Plants and Other Energy Sources
S3-126	Jan Kuhar, Tomaž Ploj JEK2 Project Schedule: Key Milestones Toward the Final Investment Decision
S3-127	Jure Kladnik, Gregor Srpčič, Robert Bergant Non-electric Applications of Small Modular Reactors in Slovenia
S3-144	Dinka Lale, Dubravko Pevec, Nora Miljanić, Mario Matijević Maritime Applications of Nuclear Energy
S4-112	Chanki Lee Analyses of Nuclear Emergency Preparedness and Response Regulations Between U.S. and South Korea
S4-120	Sunghyun Park, Uiju Jeong, Chulkyu Lim, Sung-Yeop Kim Revision of Siting Criteria and Status of Emergency Planning Zone in Korea: Implications for Small Modular Reactors
S4-133	Krešimir Trontl, Mario Matijević Public Opinion Survey on Nuclear Energy and Radioactive Waste Management 2026
S4-184	Juraj Milobar, Vedran Nikl, Hrvoje-Josip Maraković, Zvonimir Čaić Exploring Trends and Patterns in International Event Reporting
S4-194	Lara Kerep, Andrea Talian The Role of Information Centres in Communication with the Public on Radioactive Waste Management
S5-141	Luka Marjanović, Miodrag Milošević Development and Optimization of Geometric Models of a HPGe Detector for Numerical Efficiency Calculation
S5-142	Paulina Družijanić, Davor Grgić, Radomir Ječmenica, Davor Rašeta Shielding Analysis of a Reinforced Concrete Container for Conditioning Low- and Intermediate-level Radioactive Waste from Nuclear Power Plant Krško

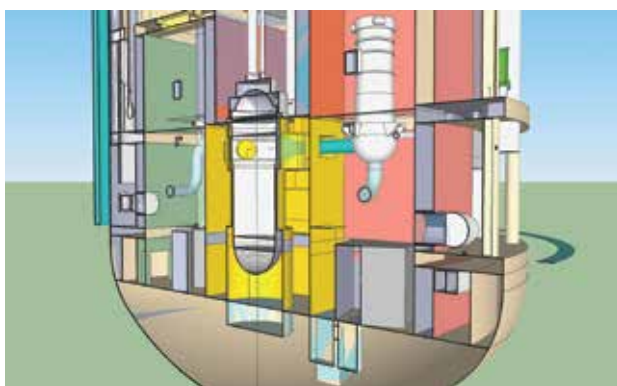
S5-145	Paulina Družijanić, Matija Zidar, Davor Grgić Optimization of Spent Fuel Assemblies Arrangement in Dry Storage Casks using Mixed integer Programming and Heuristic Methods
S5-169	Mario Matijević, Antonia Mesić, Krešimir Trontl, Pevec Dubravko Application of Composite Buildup Factors in Point-Kernel Method for Laminated Gamma Shields
S5-182	Davor Grgić, Radomir Ječmenica, Bojan Petrović FHR Core Monte Carlo Calculation using Serpent2 Code
S6-105	Reni Banov Optimizing the Number of Gates Representing a FTA k/n Operator on a Quantum Computer
S6-143	Mario Mihalina, Daniel Schneider Feasibility Assessment of Structural and Component Enhancements at Generation II Pressurized Water Reactors for Implementing External Reactor Vessel Cooling (ERV) in Severe Accident Mitigation
S6-187	Siniša Šadek, Davor Grgić, Petra Strmečki, Mario Matijević Thermohydraulic Influence on the Severe Accident Progression in a Small Modular Reactor
S7-109	Luka Lotina, Paula Antonija Bačani, Gabriela Jazvac, Ana Marija Kožuljević, Luka Pavelić Testing the Response of Several Dosimeters to X-ray Radiation
S7-111	Ana Marija Kožuljević, Gabriela Jazvac, Luka Pavelić Segmented Compton Camera with Dual Perpendicular Silicon Photomultiplier Read-Out for 4π Gamma Ray Imaging
S7-137	Matej Rupret, Sandi Viršek NORM Disposal Sites at the Closed Uranium Mine Žirovski Vrh
S7-163	Danijela Soldatović, Dalibor Arbutina Legacy Radioactive Waste Management and Development of a Radioactive Waste Processing Facility at the Vinča Site
S7-171	Simona Sučić Information System Modernization for Safe and Traceable Management of Radioactive Waste at ARAO
S7-178	Mirta Čanak, Andrea Rapić, Josip Lebegner, Ozren Larva, Marko Špelić, Marko Budić, Tomislav Kurečić, Josipa Maslač Soldo, Dario Perković Research, Development and Establishment Program for a Radioactive Waste Disposal Facility in the Republic of Croatia

	<p>S8-108 Sanghoon Bae, Joonku Lee Consideration of GWR Technique Adaptation for Pressurizer Level Measurement in i-SMR</p> <p>S8-140 Jiyeon Choi, Hyewon Lim, Juheon Kim, Hyungmo Kim Uncertainty Analysis of Wall-Temperature Measurement using Distributed Optical Fibre Sensors</p> <p>S8-166 Ondrej Uhrík Advanced Modular Reactor Development in the Slovak Republic</p>
10:30-11:00	<p align="center">Regulatory Practice and Emergency Preparedness (RPEP)</p> <p align="center">Chairs:</p> <p align="center">Sanja Kukmanović (Fund for Financing the Decommissioning of the Krško NPP, Croatia), Krešimir Trontl (FER University of Zagreb, Croatia)</p>
	<p>S4-118 Blaž Vene, Matjaž Podjavoršek Slovenian Nuclear Safety Administration Foreign Operating Experiences System</p> <p>S4-146 Sanja Kukmanović Building Relationship with the Local Community</p>
11:00-11:30	Coffee Break
11:30-12:00	Regulatory Practice and Emergency Preparedness (RPEP) (cont)
	<p>S4-157 Sung-yeop Kim, Sunghyun Park Technical Status of EPZ Evaluation for SMRs in Korea</p>
12:00-13:00	<p align="center">Severe Accident Analyses and Risk Assessment (SAARA)</p> <p align="center">Chairs:</p> <p align="center">Ivica Bašić (APOSS, Croatia), Reni Banov (Zagreb University of Applied Sciences, Croatia)</p>
	<p>S6-119 Chul-Kyu Lim, Sung-Hyun Park Risk-Informed SSC Categorization for an Innovative SMR under NEI 00-04 (10 CFR 50.69)</p> <p>S6-149 Uroš Škoflek, Dane Lovelace, Ivan Vrbanić, Ivica Bašić Detailed Circuit Analyse for Fire Probabilistic Risk Assessment (NUREG/CR-6850, EPRI 1011989)</p> <p>S6-181 Vedat Cagdavul, Hector Lopez, Domenico De Luca Verification and Validation of GOTHIC 8.5(QA) with Severe Accident Containment Experiments</p>

	<p>S6-188 Omar Chaaraoui, Domenico De Luca, Ivan Urbanić, Ivica Bašić, Brian Curtt, Vitor Medeiros, Alvaro Caldas Determining LOCA Initiator Categories for a PSA of a New Reactor Design</p>
13:00-14:00	Lunch Break
14:00-16:00	<p>Radioactive Waste Management and Decommissioning, Radiation Hazard and Protection (RWMD)</p> <p>Chairs: Josip Lebegner (Fund for Financing the Decommissioning of the Krško NPP, Croatia), Sandi Viršek (ARAO, Slovenia)</p>
	<p>S7-128 Frantisek Huptych, Filip Randak Selection of the Final and Backup Sites for the Czech Deep Geological Repository Including Radioactive Waste Disposal</p> <p>S7-130 Jaehun Lee, Sia Hwang, Hee Reyoung Kim The Study on the Solidification of Radioactive Zeolite Waste Using Alkaline Active Agents for Final Disposal</p> <p>S7-135 Miha Ašič, Sandi Viršek Construction Progress and Technical Overview of the Vrbina LILW Disposal Facility near Krško, Slovenia</p> <p>S7-174 Mirta Čanak, Andrea Rapić, Josip Lebegner, Leon Kegel, Sandi Viršek, Ozren Larva, Marko Špelić, Marko Budić, Tomislav Kurečić, Josipa Maslač Soldo RD&D Program for joint SNF and HLW Disposal in Deep Geological Repository in Republic of Croatia or in Republic of Slovenia</p> <p>S7-180 Sven Nothvogel, Céline Boulet, Wolfgang Schuch, Klaus Büttner, Thomas Fishedick, Robert Lehr Results from Waste ERASER: Testing the Complete Treatment Process from Chemical Decomposition to Final Conditioned Waste Package</p> <p>S7-195 Aljaž Petančić, Violeta Čalić NEK's LILRW Management and Handover Preparations for 2028–2030</p>
16:00-16:30	Coffee Break
16:30-17:00	<p>Conference Closing</p> <p>Siniša Šadek, Ivica Bašić, Mario Matijević (Croatian Nuclear Society)</p>

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Croatian Nuclear Society

Zadar, May 31 – June 3, 2026