

**Important dates:**

31 December 2025 Abstract submission

31 January 2026 Abstract acceptance

31 March 2026 Full Paper submission

[info@nuclear-option.org](mailto:info@nuclear-option.org)

[www.nuclear-option.org](http://www.nuclear-option.org)

**15<sup>th</sup> INTERNATIONAL CONFERENCE  
OF THE CROATIAN NUCLEAR SOCIETY**  
**Nuclear Option for Reliable Electricity Generation**

**ZADAR, CROATIA**  
**MAY 31 – JUNE 3, 2026**







**Croatian Nuclear Society**

in co-operation with



## 15<sup>th</sup> INTERNATIONAL CONFERENCE OF THE

## **CROATIAN NUCLEAR SOCIETY** **Nuclear Option for Reliable Electricity Generation**

**ZADAR, CROATIA**  
**MAY 31 – JUNE 3, 2026**



**FIRST ANNOUNCEMENT  
AND CALL FOR PAPERS**

### **Important dates:**

Abstract Submission: 31 December 2025

Abstract Acceptance: 31 January 2026

Full Paper Submission: 31 March 2026

Early Registration: 30 April 2026

Conference: 31 May – 3 June 2026

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## **15<sup>th</sup> INTERNATIONAL CONFERENCE OF THE CROATIAN NUCLEAR SOCIETY** **Nuclear Option for Reliable Electricity Generation**

### **CONFERENCE SCOPE**

Croatian Nuclear Society continues with its successful series of international conferences for professionals working in the field of nuclear energy and associated areas. The purpose of the conference series is to present and discuss the most relevant topics concerning the role and position of nuclear option in the current energy mix, with special attention paid to the countries with small and medium electricity grids. Main concerns with which modern society is faced include availability of energy resources, greenhouse gas emissions and potential climate changes with evidences of apparent global warming. In such a context the issue of ensuring reliable and sustainable energy becomes ever more challenging. Nuclear energy as the CO<sub>2</sub> free energy source should have its place in resolving these concerns and enabling all the countries to cope with challenges they pose. The energy sector needs to be fundamentally transformed into a low carbon and reliable energy supply system to assure that world will be able to mitigate climate changes in the next decades. At the same time, the sector needs to withstand extreme events and to adapt to changes in the environment. Following the success of the previous conferences in the series, the 15<sup>th</sup> International Conference in Zadar will serve the same general purpose, concentrating on the topics which attracted the most of interest previously. At the Conference, the nuclear option will be considered and discussed from the point of view of national energy strategies, resources, costs and technological, organizational and educational requirements, as well as environmental and reliability advantages. The focus will also be on matters related to nuclear power plants operation and design, safety, fuel cycle, waste management, decommissioning and achievement of Long Term Operation (LTO). Additional attention will be paid to synergy between renewable power sources and nuclear including new worldwide tendency for implementation of Small Modular Reactors (SMRs). As in the previous cases, the important goal of the Conference will be to promote worldwide and regional co-operation and exchange of experience in use of nuclear power and fuel cycle facilities among the countries with an interest in the nuclear option.

### **TOPICS**

The topics of the conference series have, over the past decades, followed the developments and main points of interest in the nuclear energy and industry sector, considering also scientific research in the field and current regulatory requirements, as well as the role of the nuclear option in the societal context. With this in mind, the focus of the 15<sup>th</sup> Conference in the series will be on:

- ♦ Nuclear Option for Reliable and Economic Energy Production
- ♦ Nuclear Energy and Environment
- ♦ Synergy of Nuclear and Renewable Sources
- ♦ Power Reactors and Technologies including SMRs
- ♦ Operation, Maintenance, LTO and Configuration Management

- ♦ Safety Culture and Knowledge Management
- ♦ Deterministic Safety Analyses
- ♦ Probabilistic Safety Assessment and Severe Accident Analysis
- ♦ Nuclear Fuel Cycle and Reactor Physics
- ♦ Radioactive Waste Management and Decommissioning
- ♦ Public Relations
- ♦ Regulatory Practice
- ♦ Emergency Preparedness

Several invited lectures from IAEA and ENS representatives are planned to be delivered during the Conference. A round table is planned in order to offer an opportunity for less formal discussions and exchange of ideas on conference topics. The official language of the Conference will be English.

### **PROGRAMME COMMITTEE**

#### **I. Bašić, Croatia, Chairman**

C. Allison, USA	J. Leppänen, Finland	M. Prah, Croatia
D. Banner, France	P. Mach, Czech Republic	A. Prošek, Slovenia
L. Cizelj, Slovenia	A-G. Martini, France	F. Rahnama, USA
N. Čavlina, Croatia	B. Mavko, Slovenia	N. Rendić-Miočević, Croatia
M. Čepin, Slovenia	S. Medaković, Croatia	M. Ricotti, Italy
Z. Čorak, Croatia	D. Mercurio, Finland	S. Rožman, Slovenia
F. D'Auria, Italy	L. Mikelić, Croatia	P. Sabharwall, USA
M. Gluhak, Croatia	J. Mišák, Czech Republic	P. Samanta, USA
D. Grgić, Croatia	S. Monti, Italy	V. H. Sanchez Espinoza, Germany
V. Jelavić, Croatia	M. Naitoh, Japan	G. Slipac, Croatia
D. Jakšić, Croatia	T. Nemec, Slovenia	K. Szarłowicz, Poland
M. Kim, Republic of Korea	L. Pavelić, Croatia	Z. Šimić, Switzerland
I. Kouklik, Czech Republic	P. V. Petkov, Bulgaria	P. Širola, Slovenia
M. Kromar, Slovenia	B. Petrović, USA	Ž. Tomšić, Croatia
M. Kurasch, USA	A. Petrucci, Italy	I. Vrbanić, Croatia
J. Lebegner, Croatia	D. Pevec, Croatia	I. Vuković, Croatia
K-B. Lee, Republic of Korea	G. Pfeifer, Slovenia	T. Žagar, Slovenia

### **ORGANISING COMMITTEE**

#### **M. Matijević, Croatia, Chairman**

A. Ament, Croatia	P. Strmečki, Croatia	K. Trontl, Croatia
P. Družijanić, Croatia	S. Šadek, Croatia	
D. Pevec, Croatia	Ž. Tomšić, Croatia	

### **CONFERENCE SECRETARY**

**A. Ament, Croatia**

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## TIME AND PLACE OF THE CONFERENCE

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May 31 – June 3, 2026, Hotel Kolovare, Zadar, Croatia

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## CALL FOR PAPERS

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Authors are invited to present their work on one or more topics addressed by the Conference. Abstracts of the proposed papers should be submitted before **31 December 2025**. Authors may indicate their preference for oral or poster presentation during submission process. The abstract should be submitted by filling a web form through a web-based Conference Management Tool (Conftool) at: <http://www.nuclear-option.org>.

Authors should first create an account under the section “Account”, then log in the section “Log in”, and finally submit an abstract in the section “User Home”. The abstract will be published in the Book of Abstracts and should include the title of the paper, full names of the authors, their institution, addresses and e-mails, up to one page (from 300 to 500 words).

The Programme Committee will inform authors on the acceptance of their contribution and the form of presentation before **31 January 2026**. Full-length papers should be submitted before **31 March 2026**. All papers, presented orally or as posters, accepted upon peer review will be included into the Proceedings. The Book of Abstracts along with the Proceedings USB memory key, will be ready for distribution at the Conference.

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## CONFERENCE FEE

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Authors or members of the ENS	550 EUR
ENS YGN members and ENS retired members	350 EUR
Others	600 EUR

This is a conference fee for payments received after **30 April 2026**. Early registration fee is charged 50 EUR less for payments received before **30 April 2026**. The payment details can be found at the Conference web-page: [www.nuclear-option.org](http://www.nuclear-option.org)

The Conference fee includes a copy of the Book of Abstracts, Proceedings USB memory key and attendance at the social events (welcome reception, Conference dinner, hotel lunches).

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## VENUE

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The Conference will take place in Hotel Kolovare in Zadar. Information about the hotel, accommodation and room reservations are provided on the Conference website. For initial information feel free to visit the hotel website at: [www.hotel-kolovare.com](http://www.hotel-kolovare.com).

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## ZADAR

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Zadar is a city of exceptional history and rich cultural heritage, a city of tourism. The city is irresistible for those who respect and admire historical monuments and cultural heritage, artists, tourists and its citizens. Zadar is a city monument, surrounded by historical ramparts, a treasury of the archaeological and monumental riches of ancient and medieval times, Renaissance and many contemporary architectural achievements such as the first sea organs in the world



It is a three thousand years old city with tumultuous and dynamic history, often destructed, looted, devastated, every time emerging from the ruins stronger, richer and more beautiful. Zadar appeared for the first time in history in the 4th century B.C. as a settlement of the Illyrian tribe of Liburnians – the name Jader was mentioned, and through history it changed into Idassa (Greek source), Jadera (Roman source), Diadora, Zara (during Venetian and later Italian rule) up to today's name of Zadar. Today Zadar is a preserved monument of various historical times and cultures that have placed their boundaries and visible outlines of their urban appearance. During its existence it was for many centuries the home of the Illyrian Liburni and for 1000 years the capital city of Dalmatia. Zadar is the urban centre of northern Dalmatia as an administrative, economic, cultural and political centre of the region with almost hundred thousands inhabitants.

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## SOCIAL PROGRAMME

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As a part of our tradition, both welcoming reception and Conference dinner will take place in a beautiful surrounding providing opportunity for informal discussions, combining Zadar traditions with the taste of the Adriatic. Since we expect that the beauty of the Conference venue will inspire many of our participants to bring their spouses or other likely companions along, we have organised an accompanying guests' programme.

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## SPECIAL ISSUE

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A special issue of the international peer-reviewed ANS journal *Nuclear Science and Engineering* (<https://www.ans.org/pubs/journals/nse/>), open for extended contributions based on the Conference papers, is foreseen. Also, the selected articles will be published in a special issue of the *Journal of Energy* (<http://www.journalofenergy.com/index.php/joe>).

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## YOUNG AUTHORS CONTEST

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A special Award Committee will review papers and presentations prepared by a first author aged below 36 years. The Committee will give the award for the best young author's contribution, so all candidates are kindly requested to indicate their intent to participate in this contest.



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## INFORMATION AND CONTACT

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All photos are property of the Zadar Tourist Board.

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Inside photos: Fabio Šimićev