



**5th INTERNATIONAL CONFERENCE ON
NUCLEAR DECOMMISSIONING AND
ENVIRONMENTAL RECOVERY**

**INUDECO 2020
online**

Conference Agenda

Slavutych, 27 – 29 April 2020

CONFERENCE AGENDA

5th International Conference on Nuclear Decommissioning and Environmental Recovery, INUDECO 2020 online

Monday, April 27

9:00 – 10:00 Online registration, test speaking, and organizational communications for the conference participants (personal meeting IDs will be sent to all registered participants)

10:00 – 11:00 Welcome of participants. Plenary session “From Catastrophe to the New Life: Challenges of COVID-19 / Chornobyl”. Discussion moderated by Yurii Fomichev, Slavutyich City Mayor.

10:00 *Yurii Fomichev, Slavutyich City Mayor*

10:15 *Sergii Kalashnyk, Head of the State Agency of Ukraine for the Exclusion Zone Management*

10:30 *Valeriy Seyda, SSE Chornobyl NPP, First Deputy General Director*

10:45 *Serhii Paskevych, Institute for NPPs Safety Problems of the NAS of Ukraine, Deputy Director*

11:00 *Pavlo Muzyka, Energodar City Mayor*

11:15 *Sergii Dudkin, SE NNEGC “Energoatom” Separate Subvision “Atomremontservis”, Deputy Technical Director for Engineering*

11:30 – 12:00 **Coffee Break, networking in the conference chat-room**

12:00 – 13:00 Section 1. Chornobyl NPP and Object Shelter (management of radioactive waste and spent nuclear fuel, implementation of the project on Object Shelter transformation into an environmentally safe system) (*Section moderated by Maksym Saveliev, Candidate of Engineering Sciences, Scientific Researcher of the Institute for NPPs Safety Problems of the NAS of Ukraine*)

13:00 – 14:00 **Break for lunch**

14:00 – 15:20 Section 1 continued

15:20 – 15:40 **Coffee break, networking in the conference chat-room**

15:40 – 18:00 Section 1 continued.

Tuesday, April 28

9:00 – 10:00 Online registration, test speaking, and organizational communications for the conference participants

10:00 – 11:00 Section 2. Nuclear Power and New Energy (NPP maintenance and repair, NPP decommissioning, information technology for critical infrastructure)
(*Section moderated by Viktor Kuchynskyi, Deputy Head of the Strategic Planning Department, SSE Chornobyl NPP*)

11:00 – 11:30 **Coffee break, networking in the conference chat-room**

11:30 – 13:00 Section 2 continued.

13:00 – 14:00 **Break for lunch**

14:00 – 15:20 Section 2 continued.

15:20 – 15:40 **Coffee break, networking in the conference chat-room**

15:40 – 18:00 Section 2 continued.

Wednesday, April 29

9:00 – 10:00 Online registration, test-speaking, and organizational communications for the conference participants

10:00 – 11:00 Section 3. From Catastrophe to the New Life (rehabilitation, reintegration of territories, and social adaptation of the public, use of alternative and renewable energy sources, extreme and industrial tourism in the Chornobyl Exclusion zone and in Slavutych)
(*Section moderated by Aryna Starovoitova, Director of the Municipal Enterprise “Regional Development Agency” of the Slavutych City Council*)

11:00 – 11:30 **Coffee break, networking in the conference chat-room**

11:30 – 13:00 Section 3 continued.

13:00 – 14:00 **Break for lunch**

14:00 – 16:00 Section 3 continued.

16:00 – 16:20 **Coffee break, networking in the conference chat-room**

16:20 – 17:20 Section 3 continued.

17:20 – 18:00 Wrap-up discussion, networking in the conference chat-room.

Logistic Information for the Conference Participants

24-26 April 2020, invitation letters to join the Telegram-channel and a private networking chat-room of the conference will be sent to participants

26 April 2020, 21:00 world premiere of the documentary “STALKING CHERNOBYL”. The link will be available at

<https://www.facebook.com/nucleardecommissioning/>

26 April 2020, starting from 23:00 online broadcasting of the campaign “CHORNOBYL.34 LIGHT A CANDLE” held in Slavutych – the link will be available at <https://www.facebook.com/nucleardecommissioning/>

Virtual tour to the Local History Museum of Slavutych and Chornobyl NPP <https://bit.ly/2KtAjW5>

Virtual tour to the space under the New Safe Confinement of Chornobyl NPP <https://bit.ly/2RUXJYT>

Promotional video of the city of Slavutych, Kyiv Region (Ukraine). The youngest Ukrainian city of Slavutych is the magnet for initiative, creative, active, innovative and ambitious people with new ideas. Welcome to Slavutych – the City of New Ideas! <https://bit.ly/3cFL5VB>

27-29 April 2020, starting from 9:00 to 9:45 online registration of the conference participants, *test-speaking* and organizational communications for the conference participants.

Personal meeting IDs will be sent to all the registered conference participants by e-mail and/or via the Telegram messenger.

Contact Information of the Steering Committee

+38 050 353 11 35, 045 79 2 10 90, 2 22 50 – for general questions

+38 050 900 94 74 – Aryna Starovoitova, for organizational questions

+38 050 464 91 61 – Maryna Karasiova, for registration and organizational questions

+38 099 24482 84 – Anna Prykhodko, for payment questions

The Steering Committee’s e-mail inudeco2018@gmail.com

Web-site of the conference <https://inudeco.pro/uk/>

Slavutych city official web-site <http://e-slavutich.gov.ua/>

SSE ChNPP <https://chnpp.gov.ua/ua/>

SAUEZM <http://dazv.gov.ua/>

ISP NPP <http://www.ispnpp.kiev.ua/>

Atomremontservis <http://ars.atom.gov.ua/>

ME “Regional Development Agency” <https://arr.in.ua/>

BREAKOUT SESSIONS SCHEDULE
**5th International Conference on Nuclear Decommissioning
and Environmental Recovery**
INUDECO 2020 online

27 April 2020

Section 1 Chernobyl NPP and Object Shelter

Moderated by *Maksym Saveliev, Candidate of Engineering Sciences, Scientific Researcher of the Institute for NPPs Safety Problems of the NAS of Ukraine*

1. 12:00 – 12:20 **Yasunori Igarashi, Mark Zheleznyak, Nanba Kenji, Yoshifumi Wakiyama, Alexei Konoplev, Serhii Kirieiev, Dmitry Samoilov, Gennady Laptev, Oleg Voitsekhovych**
Fukushima University, Japan Long-term trend of radionuclides concentration and hydrological situation: results from the SATREPS project
2. 12:20 – 12:40 **Dmytro Stelmakh**
SSE ChNPP Implementation of the project on Object Shelter transformation into an environmentally safe system
3. 12:40 – 13:00 **Valentyn Kupnyi**
Slavutych city NGO “Public Council on the City Development” Forecast for Object Shelter
- 13:00 – 14:00** ***Break for lunch***
4. 14:00 – 14:20 **Vasyl Biegun**
Institute for Mathematical Machines and Systems Problems of the NAS of Ukraine Coincidence and Regularity. Historic reenactment of the causes of Chernobyl disaster
5. 14:20 – 14:40 **Serhii Paskevych**
Institute for NPPs Safety Problems of the NAS of Ukraine Autoradiographical analyses of bottom sediment samples from the ChNPP Cooling Pond
6. 14:40 – 15:00 **Mykola Panasiuk**
Institute for NPPs Safety Problems of the NAS of Ukraine Principles of improvement of the observation wells network for radio-hydroecological monitoring of the areas of the ISF-2 and NSC-SO

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| 7. | 15:00 – 15:20 | Ihor Kovalenko
<i>Institute for NPPs Safety
Problems of the NAS of
Ukraine</i> | Determining the impact of basic ions on the 90 Sr migration capacity according to the NSC-SO radiohydrological monitoring |
| 15:20 – 15:40 Coffee break, networking in the conference chat-room | | | |
| 8. | 15:40 – 16:00 | Nataliia Sosonna
<i>Institute for NPPs Safety
Problems of the NAS of
Ukraine</i> | Application of GIS-technology methods for radiohydroecological monitoring tasks at ChNPP site |
| 9. | 16:00 – 16:20 | Norbert Molitor
<i>Plejades</i>
Andreas Wetzig
<i>Fraunhofer IWS</i> | Laser Cutting – an Option for Segregation of Corium And Lava-type FCM at Chornobyl NPP and Object Shelter |
| 10. | 16:20 – 16:40 | Peter Krzystek
<i>Munich University of
Applied Sciences
Munich, Germany</i> | UAV-based Mapping of Vegetation and Contamination in the Chornobyl Exclusion Zone – New Developments and Future Prospects |
| 11. | 16:40 – 17:00 | Ihor Zhyhaniuk
<i>Institute for NPPs Safety
Problems of the NAS of
Ukraine</i> | Phase Composition of Black Ceramics of Lava-like Fuel-Containing Materials of NSC-SO |
| 12. | 17:00 – 17:20 | Yevhen Vysotskyi, Roman Hodun, Maksym Saveliev
<i>Institute for NPPs Safety
Problems of the NAS of
Ukraine</i> | Nuclear Safety of the NSC-SO System |
| 13. | 17:20 – 17:40 | Dmytro Khomenko, Serhii Brylka
<i>Institute for NPPs Safety
Problems of the NAS of
Ukraine</i> | Problems connected with protrusive elements of Object Shelter. Solution Options |
| 14. | 17:40 – 18:00 | Maksym Saveliev
<i>Institute for NPPs Safety
Problems of the NAS of
Ukraine</i> | Distribution of Gamma-Radiation over the Object Shelter |
| 15. | 18:00 – 18:20 | Pavlo Krukovskyi
<i>Institute of Engineering
Thermophysics of the NAS
of Ukraine</i> | Analysis of unorganized air exchange of the New Safe Confinement with the environment |

28 April 2020

Section 2 Nuclear Power and New Energy

Moderated by Viktor Kuchynskyi, Deputy Head of the Strategic Planning Department, SSE ChNPP

1. 10:00 – 10:20 **Viktor Kuchynskyi**
SSE ChNPP Strategic Aspects of ChNPP
Decommissioning
2. 10:20 – 10:40 **Yurii Olkhovyk**
State Institution “Institute for Environmental Geochemistry” of the NAS of Ukraine Management of ChNPP
Irradiated Reactor Graphite
3. 10:40 – 11:00 **Viktor Berezin**
TOV “Research Institute for System Analysis” Treatment of Radioactive Water
at Nuclear Power Plants
- 11:00 – 11:30 **Coffee break, networking in the conference chat-room**
4. 11:30 – 11:50 **Petr Stemberk**
Czech Technical University in Prague Corium-Concrete Interaction and
Structural Aspects Connected
5. 11:50 – 12:10 **Yuliia Khmurovska**
Czech Technical University in Prague Numerical Analysis of
Concrete Biological Shield
6. 12:10 – 12:30 **Alla Rozko**
M. P. Semenenko Institute of Geochemistry, Mineralogy and Ore Formation of the NAS of Ukraine Effects of the geopolymers
composition on the strength of
compounds when cementing
liquid radioactive water
7. 12:30 – 12:50 **Yuliia Bondar**
M. P. Semenenko Institute of Geochemistry, Mineralogy and Ore Formation of the NAS of Ukraine Clinoptilolite tuff-based
ferrocyanide sorbent for
selective removal of Cesium
nuclides from high salinity water
solutions
- 13:00 – 14:00 Break for lunch**
8. 14:00 – 14:20 **Yuliia Mamchyn**
National Technical University of Ukraine “Igor Sikorsky Kyiv Polytechnic Institute” Analysis and study of the impact
of karst-suffusion processes on
the RNPP territory and buildings
9. 14:20 – 14:40 **Serhii Iyevliev**
RPE “Atom Komplex Prylad” Methodical and technical means
of radioactive waste control

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| 10. | 14:40 – 15:00 | Volodymyr Tarasenko
<i>Ukratomprylad</i> | Automated Radiation
Monitoring System of CSFSF.
Interaction with ARMS |
| 11. | 15:00 – 15:20 | Olena Skakalina
<i>Poltava Polytechnic
University</i> | Energy management of the
traditional types of energy
carriers |
| | 15:20 – 15:40 | Coffee break, networking in the conference chat-room | |
| 12. | 15:40 – 16:00 | Mariia Voitsekhovska
<i>Chernihiv National
University of Technology</i> | Information Security Culture
Wide-Scale Implementation
Model |
| 13. | 16:00 – 16:20 | Ihor Skiter
<i>Chernihiv National
University of Technology</i> | Modeling the spread of cyber
attacks in a distributed
information system |
| 14. | 16:20 – 16:40 | Yelizaveta Chernysh
<i>Sumy State University</i> | Utilization of radioactive waste
for energy purposes |
| 15. | 16:40 – 17:00 | Anton Maksymov
<i>Chernihiv National
University of Technology</i> | Information technology and
systems for
analytical processing of multiple
data. |

29 April 2020

Section 3 “From Catastrophe to the New Life”

Moderated by *Aryna Starovoitova, Director of the Municipal Enterprise “Regional Development Agency” of the Slavutyich City Council*

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| 1. | 10:00 – 10:20 | Andrii Koveria
<i>Dnipro University of
Technology</i> | Practical aspects of remediation
of radioactively contaminated
territories based on the self-
decontamination effect |
| 2. | 10:20 – 10:40 | Iryna Kovalchuk, Larysa
Spasionova,
Oleksandra Bashchak
<i>National Technical
University of Ukraine
“Igor Sikorsky Kyiv
Polytechnic Institute”,
Institute for Sorption and
Problems of Endoecology</i> | Removal of radioactive
contamination from the
groundwater with organophilic
clays |
| 3. | 10:40 – 11:00 | Olha Kriazhych
<i>Volodymyr Dahl East
Ukrainian National
University</i> | Research of some features of
tritium migration in the
environment |

- 11:00 – 11:30 **Coffee break, networking in the conference chat-room**
4. 11:30 – 11:50 **Anatolii Prysiashniuk**
State Institution “National Research Center for Radiation Medicine of NAMS of Ukraine” The results of a 30-year monitoring of malignant tumors in residents of contaminated territories adjacent to Chernobyl
5. 11:50 – 12:10 **Oksana Sakal**
State Institution “Institute for Environmental Economics and Sustainable Development of the NAS of Ukraine” Climate change issues. Strategic environmental assessment of public planning documents
6. 12:10 – 12:30 **Olha Korniyeva**
SoftServe Small Modular Reactors as an alternative solution of the social and economic problems caused by ChNPP decommissioning process
7. 12:30 – 12:50 **Yuliia Ruban**
National University of Life and Environmental Sciences of Ukraine Prospects for the use of microorganisms from the temporary radioactive waste storage facilities
- 13:00 – 14:00 Break for lunch**
8. 14:00 – 14:20 **Viktor Griza**
National Pedagogical Dragomanov University Cultural Methodology and Creative Tools to Slowdown the Inertia of Mental Trauma in Post-Apocalyptic Communities
9. 14:20 – 14:40 **Viktor Khomenko**
“Solartown” History of the Solartown Creation in Slavutyich
10. 14:40 – 15:00 **Aryna Starovoitova**
Municipal Enterprise “Regional Development Agency” of the Slavutyich City Council Tourism and Promotion as the growth area for Slavutyich: Potential and Challenges
11. 15:00 – 15:20 **Yanina Havrylova**
NGO “Ukrainian Tourist Guides Association” Nature and Human: interpretational week-end programs
12. 15:20 – 15:40 **Olena Fomina**
TOV “Gamma-Travel” Chornobyl Tourism as an Educational Tourism

16:00 – 16:20 Coffee break, networking in the conference chat-room

13. 16:20 – 16:40 **Anna Bovkun**
National University of Life and Environmental Sciences of Ukraine Radiation Treatment of Agricultural Products as a Method to Fight Against Mycotoxins
14. 16:40 – 17:00 **Bohdan Sinenko**
National University of Life and Environmental Sciences of Ukraine From Chernobyl to the Mars: Use of Biota of Chernobyl Contaminated Territories for Colonization of the Mars
15. 17:00 – 17:20 **Oleksandr Hedz**
Institute for Mathematical Machines and Systems Problems of the NAS of Ukraine “Smart Building” System for Multistoried Buildings

17:20 Close of conference, networking in the conference chat-room



INUDECO

У Міжнародна конференція
"Проблеми зняття з експлуатації об'єктів ядерної енергетики та відновлення навколишнього середовища"

OnLine

27-29.04.2020

5th International Conference on Nuclear Decommissioning and Environmental Recovery



We are waiting for you in Slavutych! See you at INUDECO 2021!