

	Room A Conference Hall	Room B S I	Room C S III	Room D Red Room	
May 23	8:15 Departure to ICN (bus from Muntenia Hotel with a stop at Ramada Hotel)				
	08:30 - 09:30 Registration				
	09:30 - 10:45 Opening Ceremony, Key Notes				
	10:45 - 11:30 Poster Session 1 with Coffee & Tea				
	11:30 - 13:30 Plenary Session 1				
	13:30 - 14:20 Lunch				
	14:30 - 15:50		HLM Technology	Radioprotection & Air, Water and Soil Protection	Education Training and Knowledge Management
	15:50 - 16:10 Coffee break				
	16:10 - 17:10		HLM Technology	Radioprotection & Air, Water and Soil Protection	Panel Discussion: Capacity building for nuclear development
	17:30 Departure to Pitesti				
May 24	8:15 Departure to ICN (bus from Muntenia Hotel with a stop at Ramada Hotel)				
	09:30 - 11:00 Plenary Session 2				
	11:00 - 12:00 Poster Session 2 with Coffee & Tea				
	12:00 - 13:30 Plenary Session 2				
	13:30 - 14:20 Lunch				
	14:30 - 15:50		Radioactive Waste Management	Nuclear Technology and Materials	Nuclear Reactors, Nuclear Safety & Severe Accidents
	15:50 - 16:10 Coffee break				
	16:10 - 17:10		Radioactive Waste Management	Nuclear Technology and Materials	Nuclear Reactors, Nuclear Safety & Severe Accidents
	17:10 - 18:00		Nuclear 2018 Awards; Conference closure		
	18:00 Departure to Pitesti				
20:00 Conference Dinner at RAMADA Hotel					
May 25	8:30 Departure from Muntenia Hotel (with a stop at Ramada Hotel)				
	10:00 - 12:00 Technical visit: Vidraru Hydro Power Plant				
	13:00 - 15:00 Lunch in Valea cu Pesti				
	17:00 Arrival in Pitesti				

Wednesday, May 23

08:30 - 09:30 **Registration**

Welcome
Opening Remarks

Key notes

09:30 - 10:45

Nicolae Burnete - Ministry of Research and Innovation
Robert Tudorache – State Secretary, Ministry of Energy
Roger Garbil – European Commission, DG RTD
Romeo Urjan – Deputy General Director, SNN
Teodor Chirica – FORATOM president

10:45 - 11:30 **Poster Session 1 with Coffee & Tea**

PLENARY SESSION I

Room A

Chair: **Serban Constantin Valeca**

Co-chair: **Maria Roth**

11:30 - 12:00 **RATEN ICN Infrastructure for R&D and E&T in nuclear energy**

Alexandru Toma
RATEN ICN Pitesti, Romania

12:00 - 12:30 **The new evolution of SNETP and its Strategic Research and Innovation Agenda**

Hamid Aït Abderrahim
SNETP, Belgium

12:30 - 13:00 **The ALFRED Project: status, achievements and perspectives**

Alessandro Alemberti
ANSALDO NUCLEARE, Italy

13:00 - 13:30 **Progress on the MYRRHA project: Status at the end of 2017 - Scientific case & new implementation plan**

Hamid Aït Abderrahim
SCK.CEN, Belgium

13:30 - 14:20 **Lunch**

Parallel Sessions

Session 1.3

HLM Technology

Room B

Chair: **Alessandro Alemberti**

Co-Chair: **Ilie Turcu**

-
- 14:30 - 14:50 Interaction of Np and Am Bearing Fuels with LBE Coolant**
Daniel Freis, A.Cambriani, S.Gardeur, A.Guiot, P Lajarge, J.-F. Vigier, R.J.M. Konings
 European Commission, Joint Research Centre Karlsruhe, Germany
-
- 14:50 - 15:10 Status and Perspectives of the ALFRED RD&Q programme**
Mariano Trantino, Giacomo Grasso
 ENEA, Italy
-
- 15:10 - 15:30 Performing transient tests on LFR type fuel–interim results**
Csaba Roth, B.Boer, R.Delville, M.Mladin, C.Dulama, M.Verwerft, G.Budriman, C.Truta, D.Barbos, I.Popa, A.Udrea, L.Aioanei, C.Gondac, L.Savu
 RATEN ICN, Pitesti, Romania
-
- 15:30 - 15:50 Crack initiation in Heavy Liquid Metals, the KAMILE experience**
Fosca Di Gabriele, A.Hojna, M.Chocholousek, Z.Spirit, J.Lorincik, P.Halodova, J. Duchon
 CV Řež, Czech Republic
-
- 15:50 - 16:10 Coffee break**
-
- 16:10 - 16:30 Fe-Ni-Cr Superficial Structures Developed on Carbon Steels from Ionic Liquids by Electrodeposition**
Mariana Pătrașcu, E.Coacă, A.Marin, G.Oncioiu, L.Velciu, O.Rusu
 RATEN ICN Pitesti, Romania
-
- 16:30 - 16:50 On Some Specifics in Defining the Postulated Initiators for Generation IV Reactors**
Dan Serbanescu
 Nuclearelectrica SA & Romanian Academy, Romania
-
- 16.50 - 17:10 Requirements and Needs for ALFRED Environmental Impact Assessment**
Minodora Apostol, M.Constantin, I.Turcu, M.Nitoi, D.Gugiu
 RATEN ICN, Pitesti, Romania
-

Session 2.2 & 2.3

Radioprotection & Air, Water and Soil Protection

Room C*Chair: Radu Vasilache**Co-Chair: Cristian Dulama*

-
- 14:30 - 14:50** **The Effect of Gamma Radiation on Mechanical Properties of Cement Mortar**
Y.Khmurovska, Petr Stemberk, S.Sikorin, Y.Kaladkevich, E.Pavalanski, V.Fatseyeu
Czech Technical University in Prague, Prague, Czech Republic
-
- 14:50 - 15:10** **Natural Radioactivity of Geothermal Waters from Herculane Area**
Ioan Zaharie, M. Goloşie
Politehnica University Timișoara, Romania
-
- 15:10 - 15:30** **A proposal for an extensive dose - response study involving the existing Romanian research infrastructure**
Radu A. Vasilache
Canberra Packard, Romania
-
- 15:30 - 15:50** **Methodology for evaluation of tritium degassing rate and removable contamination for metallic surfaces**
Cristian Dulama, R.Dobrin, Al.Toma, I. I.Popescu
RATEN ICN Pitesti, Romania
-
- 15:50 - 16:10** **Coffee break**
-
- 16:10 - 16:30** **National Arrangements regarding International Assistance Convention in Case of Nuclear Accident or Radiological Emergency**
Petre Min
CNCAN, Romania
-
- 16:30 - 16:50** **Comparison of Different Methods for Analysis of Uranium Content in Secondary Raw Materials**
Katarzyna Kiegiel, D.Gajda, P.Kalbarczyk, G.Zakrzewska-KoŹtuniewicz
Institute of Nuclear Chemistry and Technology, Warsaw, Poland
-
- 16.50 - 17:10** **An Improved Method for Determination of Natural Uranium in Aqueous Samples by Alpha-LSC**
Silvia Stoica, R.Dobrin, V.Neculae, I.Prisecaru
RATEN ICN Pitesti, Romania
-

Session 3 (in Romanian)

Education, Training and Knowledge Management

Room D

Chair: **Serban Constantin Valeca**

Co-Chair: **Sorin Fianu**

- 14:30 - 14:40** **Symbiosis between education and research in the nuclear field**
Sorin Fianu
 University of Pitesti, Romania
-
- 14:40 - 14:55** **The Effects of a LOCA Accident on the Durability of the CANDU 600 Concrete Containment**
Raluca Boboc, Irina Paraschiv, Șerban Constantin Valeca
 RATEN ICN, Romania
-
- 14:55 - 15:10** **The Involvement of Bacteria in the Failure of a Carbon Steel Pipe**
Doinița Bucșă, Mariana Tunaru, Alice Dinu, Lucian Velciu, Laurentiu Popa
 RATEN ICN, Romania
-
- 15:10 - 15:25** **Consideration on the Corrosion Process in CANDU Steam Generator Tubes**
Maria Șerbucă, Alice Dinu, Șerban Constantin Valeca
 RATEN ICN, Romania
-
- 15:25 - 15:40** **Preliminary Study on the Cost Competitiveness of an SMR using LFR Technology in Romanian Energy System**
Cosmin C.Din, Cristina Alice Mărgeanu, Serban Constantin Valeca
 University of Pitesti, Romania
-
- 15:40 - 15:50** **Students awarding ceremony**
 Serban Constantin Valeca
-
- 15:50 - 16:10** **Coffee break**

Panel discussion:

Capacity building for nuclear development

Room D

Moderator: **Sorin Fianu**; **Panelists: Daniela Giosan (UPIT); Dumitra Lucan (RATEN ICN), Sorin Fusea (I.Zamfirescu High School)**

- 16.10 – 17:10** **The Role of Centers of Excellence in Ensuring National Safety, a Knowledge Management Approach**
 Ene Daniel Dumitru
 National School for Public Administration and Political Science,
 Bucharest, Romania
-
- Academic Involvement in Developing a Deep Geological Repository - Preparing the Future Generations of Experts as a Permanent Task**
 Mihaela Filip, Rodica Nicolae
 RATEN CITON, Bucharest, Romania

Thursday, May 24

PLENARY SESSION II

Room A

Chair: Roger Garbil

Co-Chair: Alexandru Toma

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|----------------------|--|
| 09:30 - 10:00 | The JRC Euratom Research and Training Programme
<u>Said Aousahl</u>
<i>EC DG JRC</i> |
| 10:00 - 10:30 | NUGENIA: An Association for Collaborative R&D towards Safe and Efficient Nuclear Power Plants
<u>Abdou Al Mazouzi</u>
<i>France</i> |
| 10:30 - 11:00 | Nuclear Development in the Context of New Energy Markets
<u>Marin Constantin</u>
<i>RATEN ICN, Romania</i> |
| 11:00 - 12:00 | Poster Session 2 with Coffee & Tea |
| 12:00 - 12:30 | Canada's Progress in Meeting the Paris Agreement on Climate Change: One Year Later
<u>John Saroudis</u>
<i>JIS Consultanta SRL, Romania</i> |
| 12:30 - 13:00 | Experimental Program in support to ALFRED project
<u>Giacomo Grasso, Mariano Tarantino</u>
<i>ENEA Italy</i> |
| 13:00 - 13:30 | RATEN ICN opportunities as Technical Support Organisation
<u>Mirela Nitoi, Ilie Turcu</u>
<i>RATEN ICN, Romania</i> |
| 13:30 - 14:20 | Lunch |

Parallel Sessions

Session 1.1 & 1.2

Nuclear Reactors, Nuclear Safety & Severe Accidents

Room D

Chair: Marin Constantin

Co-Chair: Cristina Alice Margeanu

- | | |
|----------------------|--|
| 14:30 - 14:50 | <p>Multicriteria Comparative Evaluation of Evolutionary and Innovative Nuclear Energy Systems using INPRO KIND Project Approach
 <i>Cristina Alice Mărgeanu, M.Constantin, M.Apostol, I.Prodea, C.A.Rizoiu</i>
 RATEN ICN Pitesti, Romania</p> |
| 14:50 - 15:10 | <p>CANDU Nuclear Fuel Performance Improving by Using the Advanced 52-Element Bundle Design
 <i>Iosif Prodea, M.Șerbănel, D.Oproiu</i>
 RATEN ICN Pitesti, Romania</p> |
| 15:10 - 15:30 | <p>SERPENT Simulations for CANDU 6® Fuel Bundle Using LEU and Thorium Mixed Oxide
 <i>Iuliana Visan, A.Moise, G.Olteanu</i>
 RATEN ICN Pitesti, Romania</p> |
| 15:30 - 15:50 | <p>Evaluation of the ELESIM-TORIU Computer Code Capability to Simulate the Thorium Based CANDU Fuel Behavior in Normal Irradiation Conditions
 <i>Alina Cristina Răduț, D.F.Oproiu, S.Florea, G.Olteanu, M.R.Roman, D.V.Ionescu</i>
 RATEN ICN Pitesti, Romania</p> |
| 15:50 - 16:10 | <p>Coffee break</p> |
| 16:10 - 16:30 | <p>Reducing Void Effect in Thorium-Based Advanced CANDU Reactors by Using Burnable Absorbers
 <i>Roxana Bezdedeanu-Neacșa, A.Rizoiu, I.Prisecaru</i>
 RATEN ICN Pitesti, Romania</p> |
| 16:30 - 16:50 | <p>Sensitivity Analysis for Neutron Parameters Affected by Technological Tolerances in Typical CANDU Cells
 <i>Ana Maria Segarceanu, M.Constantin</i>
 RATEN ICN Pitesti, Romania</p> |
| 16.50 - 17:10 | <p>Human Performance Analysis in Socio-Technical System
 <i>Mita Farcasiu, C.Constantinescu, H.Iorga</i>
 RATEN ICN Pitesti, Romania</p> |

Session 1.4

Nuclear Technology and Materials

Room C

Chair: Fosca Di Gabriele

Co-Chair: Vasile Radu

14:30 - 14:50 Comparison of Coatings Used for Heavy Liquid Metal Applications

J. Prehradná, Fosca Di Gabriele, L.Rozumová, M.Chocholoušek, Z.Spirit, S.M.Deambrosis, E.Miorin, M.Utili

CV Řež, Czech Republic

14:50 - 15:10 Study of the Stress Relaxation Induced by Creep at Blunt Flaws in the CANDU Pressure Tubes

Vasile Radu

RATEN ICN Pitesti, Romania

15:10 - 15:30 The Influence of Hydrogen Concentration on the Ramberg-Osgood Constitutive Equation for Zr-2.5%Nb Pressure Tube Alloy

Alexandra Ion, V.Radu, Al.Nitu

RATEN ICN Pitesti, Romania

15:30 - 15:50 New Fracture Mechanics Method for the ODS Steel Testing

Alexandru Nitu, M.Abrudeanu, V.Radu, V.Ionescu, A.Ion, V.Olaru

RATEN ICN Pitesti, Romania

15:50 - 16:10 Coffee break

16:10 - 16:30 Study about the configuration of the protection system in LabView - Virtual Security System for important modules from tritium separation plant

Carmen Maria Moraru, Iulia Stefan, Ciprian Bucur, Ovidiu Balteanu, Nicolae Sofilca

ICSI, Romania

16:30 - 16:50 Influence of Temperature Level on the Properties of C25/30 Concrete used at Cernavoda NPP Containment

Irina Paraschiv, I.Voica

RATEN ICN Pitesti, Romania

16.50 - 17:10 Advanced Complementary Techniques for the Investigation of Pure Copper Plates Friction Stir Welding

Raluca Negrea, R.Budişteanu, A.Constantin, C.Ducu, A.G.Plăiasu, St.Tabacu, S.Moga, D.Negrea

RATEN ICN Pitesti, Romania

Session 2.1

Radioactive Waste Management

Room B**Chair:** Daniela Diaconu**Co-Chair:** Crina Bucur

14:30 - 14:50 Safety of the Dry Spent Nuclear Fuel Storage. Thermal Regimes*Svitlana Alyokhina, D.Lunov*

V.N.Karazin Kharkiv National University, Kharkiv, Ukraine

14:50 - 15:10 The Assessment of Selection and Application of Relevant Features, Events and Processes for Biosphere Model in Slovak Republic*Dorota Flamíková, V.Nečas*

Slovak University of Technology in Bratislava, Slovakia

15:10 - 15:30 Release of C-14 and H-3 from Irradiated Graphite of the Thermal Column of VVR-S Reactor to Solution and Gas Phase*Viorel Fugaru, C.Postolache, G.Bubueanu*

IFIN-HH Bucharest, Romania

15:30 - 15:50 Long-Term Corrosion Tests on Irradiated Zy-4 cladding and ¹⁴C Release Assessment*Crina Bucur, M. Fulger, I. Florea, R. Dobrin, C. Diaconescu, A Tudose, O. Uta*

RATEN ICN Pitesti, Romania

15:50 - 16:10 Coffee break

16:10 - 16:30 Sensitivity analysis of C-14 radiological impact for a generic concept of spent fuel disposal in Romania*Daniela Diaconu, A. Constantin, C. Bucur*

RATEN ICN Pitesti, Romania

16:30 - 16:50 Study Regarding Safety Evaluation of Radioactive Liquid Waste Management System*Iulian Nita*

RATEN CITON Bucharest, Romania

16:50 - 17:10 Characterization of Spent Ion-Exchange Resins by Alpha Spectrometry Technique*Marina Petre, D.Miriță, C.Lazăr, M.Mincu, I.Prisecaru*

RATEN ICN Pitesti, Romania



Conference closure

Room A

17:30 **NUCLEAR 2018 Awards Ceremony**

17:50 **Conference closure**

18:00 **Departure**

20:00 **Conference Dinner (Ramada Hotel)**

Friday, May 25

8:30 **Departure from Muntenia Hotel (with a stop at Ramada Hotel)**

10:00 - 12:00 **Technical visit: Vidraru HydroPower Plant**

13:00 - 15:00 **Lunch in Valea cu Pesti**

17:00 **Arrival in Pitesti**

Wednesday, May 23 (10:45 -11:30)

Poster Sessions 1

Radioprotection & Air, Water and Soil Protection

S1-P1	C.Tuca, A.Zorliu <i>IFIN-HH, Romania</i>	Key Aspects Regarding the Dismantling of the Reactor Block Biological Shielding and External Exposure of the Workers
S1-P2	Diana Chiper, Cristian Postolache, Viorel Fugaru <i>IFIN-HH, Romania</i>	Experimental Study Regarding New Methods of Radioactive Decontamination
S1-P3	Diana Chiper, Cristian Postolache, Viorel Fugaru, George Bubueanu, Andrei Antohe, Catalin Tuta <i>IFIN-HH, Romania</i>	Obtaining of Titanium Tritides for AMS Facilities Calibration
S1-P4	Diana Chiper, Cristian Postolache, Viorel Fugaru, Catalin Tuta, George Bubueanu <i>IFIN-HH, Romania</i>	Titanium Tritides Standards With Different H/T Isotopic Ratio
S1-P5	Oana Popescu, D.Dobrea, A.Florea, G.Serbanescu, S. Balasoiu, M.Vitan <i>RATEN ICN, Romania</i>	Analysis of BF3 Neutron Field Measurement Results Obtained During a Long Time Interval
S1-P6	Valentina Neculae, Relu Dobrin, Cristian Dulama <i>RATEN ICN, Romania</i>	Quality Control of the Gamma Spectroscopy Systems used at the Radiation Protection Laboratory of the Institute for Nuclear Research
S1-P7	Gina Zăvoianu, Ovidiu Hiriță, Relu Dobrin <i>RATEN ICN, Romania</i>	Determination of Natural Uranium Content in Waste Water by Chemical and Radiological Methods
S1-P8	Ion Zabet Ion, Gratiela Maria Tarlea <i>RATEN CITON, Romania</i>	Modeling of Thermodynamic Processes for Cooling System with Digital Scroll Compressors
S1-P9	M. Stefanescu, E.Diac <i>RATEN CITON, Romania</i>	Nuclear Power Plants Land Management for Soil Protection
S1-P10	Stefan-Ionut Spiridon, Eusebiu Ilarian Ionete, Bogdan Florian Monea <i>ICSI-Rm. Valcea, Romania</i>	Gas Sensor Development For Air Quality Monitoring And Detection Of CO And CO2 Emissions
S1-P11	Gabriela Barbu <i>RATEN ICN, Romania</i>	Statistical Analysis of Data on Ionizing Radiation Exposure of Professionally Exposed Personnel from Institute for Nuclear Research Pitesti

Education, Training and Knowledge Management

E1-P1	Raluca Boboc, Irina Paraschiv, Șerban Constantin Valeca <i>RATEN ICN, Romania</i>	The Effects of a LOCA Accident on the Durability of the CANDU 600 Concrete Containment
E1-P2	Ioana Toader, Șerban Constantin Valeca, Valentin Olaru, Gheorghe Olteanu <i>University of Pitești, Romania</i>	Microstructural Comparative Analysis of Tensile Tested SEU-43 Tube Samples
E1-P3	Alexandru F.Florea, O.Popescu, G.Serbanescu, S.Balasoiu, M.Mocanasiu <i>University of Pitești, Romania</i>	Neutron field monitoring system using PLC S7-300 platform
E1-P4	Madalin Savu, Marina Petre, Șerban Constantin Valeca <i>University of Pitești, Romania</i>	Characterization Methods for the Sodium Molybdate Solution Used in Nuclear Medicine
E1-P5	M. Vitan, O.Popescu, M.Mocanasiu, C.Costea, A.Florea, G.Serbanescu <i>University of Pitești, Romania</i>	Data Acquisition and Control of Nuclear Processes with Industrial PLC Equipments Educational Development Systems
E1-P6	Mariana Tunaru, Doinita Bucșă, Alice Dinu, Lucian Velciu, Laurentiu Popa <i>RATEN ICN, Romania</i>	The Involvement of Bacteria in the Failure of a Carbon Steel Pipe
E1-P7	Silvia Mariana Vulpe, Șerban Constantin Valeca, Adrian Florinel Bucșă <i>University of Pitești, Romania</i>	Determination of Arsenic Species in Water
E1-P8	Raluca Elena Hăbudeanu, Monica Valeca, Doru Savu, <i>University of Pitești, Romania</i>	Quality Control of Solid Low Radioactive Waste Treatment Process
E1-P9	Valentina Cristina Rosu, Elena Dumitru, Monica Valeca <i>University of Pitești, Romania</i>	Laboratory Experiments for Processing of Radioactive Sludge
E1-P10	Maria Șerbucă, Alice Dinu, Șerban Constantin Valeca <i>University of Pitești, Romania</i>	Consideration on the Corrosion Process in CANDU Steam Generator Tubes
E1-P11	M.C.Radulescu, G.Duna, V.Cojocar, Șerban Constantin.Valeca <i>University of Pitești, Romania</i>	Equipment for Simulating the Loss of Working Agent Caused by the Appearance of Cracks in High Pressure Pipes
E1-P12	Cristina M.Chivoreanu, Monica Valeca, Carmen Arsene <i>University of Pitești, Romania</i>	Treatment of Irradiated Graphite from Thermal Columns of TRIGA Reactor
E1-P13	Cosmin C.Din, Cristina Alice Mărgeanu, Șerban Constantin Valeca <i>University of Pitești, Romania</i>	Preliminary Study on the Cost Competitiveness of an SMR using LFR Technology in Romanian Energy System

E1-P14	Alina-Mihaela Udrea, Mihaela-Mirela Vitan <i>University of Pitesti, Romania</i>	Intelligent Measuring System of Radioisotope Nuclear Activity for the Medical Field
E1-P15	Laura Savu, Serban Constantin Valeca, Calin Stefan Truta <i>University of Pitesti, Romania</i>	Some elements of Ageing Management at INR TRIGA Research Reactor
E1-P16	Diana-Adriana Sîrbu, Şerban Constantin Valeca, Iosif Prodea <i>University of Pitesti, Romania</i>	Implications on the Nuclear Safety at the using of a Mixed Uranium-Thorium Fuel Design in a CANDU Power Reactor
E1-P17	Beatrice Ionela Nen, Serban Constantin Valeca, Liliana Bujoreanu <i>University of Pitesti, Romania</i>	Methods for determination of beta radionuclides from liquid radioactive waste by scintillation fluid spectrometry
E1-P18	Mihai Alexandru Nate, Monica Valeca, Daniela Diaconu <i>University of Pitesti, Romania</i>	Temperature influence on the bentonite swelling properties at spent fuel disposal

Thursday, May 24 (11:00-12:00)

Poster Sessions 2

Nuclear Safety and Severe Accidents

S2-P1	Mihaela Petra, Mita Farcasiu, Ileana Cretu, Eleonora Dragan <i>RATEN ICN, Romania</i>	The Assessment of the Safety Culture at Institute for Nuclear Research Pitesti
S2-P2	Marieta Șerbănel, Iosif Prodea <i>RATEN ICN, Romania</i>	Thermalhydraulic Modelling of 100% ROH LBLOCA for CANDU 6 Reactor using RELAP5 Code
S2-P3	Gheorghe POPESCU, Marian VACARU <i>ICSI Rm. Valcea, Romania</i>	Nuclear energy & safety evolution

Nuclear Reactors

S2-P4	Raluca Gherasim, Doina Pantazi, Gh. Petre, S. Meglea <i>RATEN CITON, Romania</i>	Obtaining Nuclear Data Libraries for Advanced CANDU Reactor (ACR) Fuel Configurations using SCALE 5 System Code Resources
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Generation IV

S2-P5	Andrei Vilcu, Masatoshi Kondo, Takahashi Minoru <i>RATEN ICN, Romania</i>	Study about the Corrosion of Structural Materials in Pb-Bi Eutectic and Coolant Oxidation
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Nuclear Technology and Materials

S2-P6	Dumitra Lucan, Alice Dinu, Madalina Stanciulescu, Maria Mihalache <i>RATEN ICN, Romania</i>	Properties of Deposits Removed from the CANDU Steam Generator Secondary Side
S2-P7	<u>Razvan Marinescu, M.Mincu</u> <i>ICSI, Romania</i> RATEN ICN Pitesti, Romania	Establishing Optimal Parameters for Determination of the Hydrogen Concentration Using the Differential Scanning Calorimeter
S2-P8	Lucian Velciu, Tiberiu Meleg, Marian Pantiru, Daniel Petrescu, Florea Voicu <i>RATEN ICN, Romania</i>	Assessment of Inconel 617 Alloy Tested by Heat-Cycling
S2-P9	Diana Diniși, Dumitra Lucan, Manuela Fulger <i>RATEN ICN, Romania</i>	Electrochemical Testing of SA 516 Carbon Steel Oxidized in Simulated Primary Circuit Conditions

S2-P10	Mihai-Cătălin Arva, Mihai Stoica <i>RATEN ICN, Romania</i>	Techniques and Methods of Signal Integrity Assessment at Neutron Detector Preamplifier Module DEPIN-01
S2-P11	Viorel Ionescu, Vasile Radu, Alexandru Nitu, Viorel Cojocar, Alexandra Ion, V.Olaru <i>RATEN ICN, Romania</i>	Study of Mechanical Fatigue under Various Load Spectra on the Zr-2.5%Nb Pressure Tube Specimens
S2-P12	Maria Mihalache, Iulia Dumitrescu, Madalina Stanculescu <i>RATEN ICN, Romania</i>	Evaluation Method of Chemical Composition for Metallic Powder by X-Ray Spectroscopy
S2-P13	Laurentiu Popa, Mariana Tunaru, Lucian Velciu, M.Lazăr <i>RATEN ICN, Romania</i>	Corrosion Behaviour of Dissimilar Welds Between Inconel 600 Alloy and Carbon Steel From Primary Circuit of CANDU NPP
S2-P14	Aurelia Elena Tudose, Manuela Fulger, Lucian Velciu, Maria Mihalache <i>RATEN ICN, Romania</i>	Analysis of the Oxides Formed on Stainless Steel Components of the Secondary Circuit of CANDU Reactor
S2-P15	Dumitru Puiu, Tiberiu Gyongyosi, Bogdan Corbescu, Gheorghe Deloreanu, Elena Dinu, Costin Cepisca, Bogdan Puiu <i>RATEN ICN, Romania</i>	Matlab Software Application to Determine the Electrically Conductor Heating
S2-P16	Marin Dinca, Luiza Diana Stoenescu <i>RATEN ICN, Romania</i>	Method of Non-Destructive Investigation of the Fresh Nuclear Fuel with Scintillators and Radiological Films
S2-P17	Diana Mirită, Marina Petre, Ana-Maria Ivan, Cosmina Lazăr <i>RATEN ICN, Romania</i>	Resins Used in Purification Stages of the Sodium Molybdate Solution
S2-P18	Marius Media, T.Tudorache, A.Amzoi <i>RATEN ICN, Romania</i>	Numerical Modeling of the Induction Heating Process for Brazing Upper Seal of Instrumented TRIGA - LEU Nuclear Fuel Element
S2-P19	Daniel Petrescu, V. Lautaru <i>RATEN ICN, Romania</i>	Comparative Study Regarding Efficiency of Magnetite and Zirconium Hydroxide for Antimony Removal from Aqueous Solutions
S2-P20	Gabriel Ghiță, Ilie Prisecaru <i>RATEN ICN, Romania</i>	Cooling System for Neodymium Permanent Magnets Liquid Metal Pumps
S2-P21	Gabriela Gheorghe, Silviu Ionescu, Ion Man <i>RATEN ICN, Romania</i>	Mechanical Tests on C-Shape Samples Machined Out of CANDU Pressure Tube Samples
S2-P22	Bogdan Corbescu, Tiberiu Gyongyosi, Dumitru Puiu, Valeriu Nicolae Panaitescu <i>RATEN ICN, Romania</i>	Forming an Ice Plug Inside a Horizontal High Diameter Pipeline (200 Mm Nominal Diameter) Using a 15% Nitrogen Vapours Exhaust Nozzle Restriction

S2-P23	Tiberiu Gyongyosi, Bogdan Corbescu, Dumitru Puiu, Serban Constantin Valeca, Valeriu Nicolae Panaitescu <i>RATEN ICN, Romania</i>	Pipe Ice Plugging Tests Using a ~ 15% Exhaust Liquid Nitrogen Vapor Restriction for The Freezing Device Mounted On a 200 mm Horizontal Pipe, in a Stationary Flow Regime
S2-P24	Tiberiu Gyongyosi, Gheorghe Deloreanu, Dumitru Puiu, Bogdan Corbescu, Nicolae Anghel, Ramona Nastase, Elena Dinu <i>RATEN ICN, Romania</i>	Ageing Behaviour of the Pressure Tube Simulator – Spacer – Calandria Tube Simulator Coupling (by Stages), in the First Half Service Period
S2-P25	Octavian Uță, Cristian Gentea, Mădălin Savu <i>RATEN ICN, Romania</i>	Ir-192 Sealed Sources for Industrial Radiography
S2-P26	Bogdan Florian MONEA, Eusebiu Ilarian IONETE, Stefan-Ionut SPIRIDON <i>ICSI Rm. Valcea, Romania</i>	Absorption/desorption of hydrogen isotopes on a 70:30 wt.% ZrNi bed

Radioactive Waste Management

S2-P27	G.C. Lazăr, M.Mincu, M.G.Petre, D.I.Miriță, R.Marinescu, A.Benga <i>RATEN ICN, Romania</i>	Lanthanides Separation from Spent Fuel by High Performance Liquid Chromatography
S2-P28	Raluca Fako, Iulian Niță <i>RATEN CITON, Romania</i>	Valorization of old archaeological sources for medium and long term predictions in view of repository engineering barriers - Dobrogean area
S2-P29	Magdalena Dianu, Crina Bucur <i>RATEN ICN, Romania</i>	Matrix Influence on ⁶³Ni Activity Recovery from Aqueous Samples