

		Room A Conference Hall	Room B S I	Room C S III	Room D Red Room
May 18	8:15	Departure to ICN (bus from Muntenia Hotel with a stop to Ramada Hotel)			
	08:30 - 09:15	Registration			
	09:15 - 10:15	Opening Ceremony, Key Notes			
	10:15 - 11:15	Poster Session 1 with Coffee&Tea			
	11:15 - 13:45	Plenary Session 1			
	13:45 - 14:30	Lunch			
	14:40 - 16:00	<i>Parallel Sessions</i>	Nuclear Reactors, Nuclear Safety & Severe Accidents	Radioactive Waste Management	Education Training and Knowledge Transfer
	16:00 - 16:10		Coffee break		
	16:10 - 17:30		Nuclear Reactors, Nuclear Safety & Severe Accidents	Radioactive Waste Management	Education Training and Knowledge Transfer
	17:40	Departure to Pitesti			

		Room A Conference Hall	Room B S I	Room C S III	Room D Red Room
May 19	8:30	Departure to ICN (bus from Muntenia Hotel with stop to Ramada Hotel)			
	09:00 - 10:30	Plenary Session 2			
	10:30 - 11:30	Poster Session 2, Coffee&Tea			
	11:30 - 13:30	Plenary Session 2			
	13:30 - 14:30	Lunch			
	14:40 - 16:00	<i>Parallel Sessions</i>	Radioprotection & Air, Water and Soil Protection	Nuclear Technology and Materials	International Partnership for Sustainable Development
	16:00 - 16:10		Coffee break		
	16:10 - 17:30		Radioprotection & Air, Water and Soil Protection	Nuclear Technology and Materials	International Partnership for Sustainable Development
	17:30 - 17:50	Nuclear 2016 Awards; Conference closure			
	18:00	Departure to Pitesti			
20:00	Conference Dinner at RAMADA Hotel				

May 20	8:00	Departure to ICN (bus from Muntenia Hotel with stop to Ramada Hotel)			
	8.30 - 12:00	Technical visits: TRIGA Reactor, Hot Cells, Radioactive Waste Treatment Plant			
	13:30 - 15:00	Lunch in Bucharest (transport provided)			
	17:00	Arrival in Pitesti			

Wednesday, May 18

08:30 - 09:15	Registration
09:15 - 09:45	Opening Ceremony
09:45 - 10:15	Key notes: J. Saroudis, <i>JIS Consultanata SRL</i> – “Does nuclear energy has a future?” T. Chirica, <i>FORATOM</i> – “Nuclear in Europe, Challenges Ahead”
10:15 - 11:15	Poster Session 1 with Coffee & Tea

PLENARY SESSION I**Room A****Chairman: Maria Roth****Co-chairman: Marin Constantin**

11:15 - 11:45	<u>Alessandro Alemberti</u> ANSALDO NUCLEARE, Italy	Generation IV and the Lead Fast Reactor: Status and Perspectives
11:45 - 12:15	<u>Giacomo Grasso</u> ENEA, Italy	The ALFRED Scientific Case: building excellence
12:15 - 12:45	<u>Marin Constantin</u> RATEN ICN, Romania	Social Benefits of ALFRED Investment
12:45 - 13:15	<u>Gérald Ouzounian</u> ANDRA, France	Radioactive Waste Management - The French Experience
13:15 - 13:45	<u>Bogdan Prunaiche, R. Bonner</u> AECOM, United Kingdom	Experience and Continuity - Premises to Excellence in Nuclear End-Of-Life-Cycle Projects
13:45 - 14:30	Lunch	

Parallel Sessions

Wednesday, May 18

Nuclear Reactors, Nuclear Safety & Severe Accidents**Room B****Chairman: Mohammed Sallah****Co-chairman: Cristina Alice Mârgeanu****Sessions I.1, I.2**

14:40 - 15:00	<u>Fredrik Espegren,</u> <u>T. Retegan</u>	Chalmers University of Technology, Sweden	Interaction between Iodine and Liquid Lead-Bismuth Eutectic Search (Safe ExploitAtion Related CHEmistry for HLM reactors)
15:00 - 15:20	<u>Erik Karlsson,</u> <u>F. Espegren, T. Retegan</u>	Chalmers University of Technology, Sweden	Initial Studies of LBE, UO ₂ Fuel and 15- 15Ti Cladding Material Interactions
15:20 - 15:40	<u>Liliana Visan, D. Gugiu</u>	RATEN ICN, Romania	SERPENT 2 Code - Preliminary Neutronic Evaluations for ALFRED Core
15:40 - 16:00	<u>Štefan Čerba, B. Vrban,</u> <u>J. Lúley, V. Nečas</u>	Institute of Nuclear and Physical Engineering Slovakia	Development of Multigroup XS Libraries for the GFR2400 reactor
16:00 - 16:10	Coffee break		
16:10 - 16:30	<u>Mohammed Sallah,</u> <u>C. A. Mârgeanu,</u>	Mansoura University, Egypt	Effect of Fractional Parameter on Neutron Transport in Finite Disturbed Media with Quadratic Scattering
16:30 - 16:50	<u>Radu Vasile</u>	RATEN ICN, Romania	Stochastic Modelling of Thermal Fatigue Crack Growth for Applying in the Structural Reliability of Nuclear Piping
16.50 - 17:10	<u>Branislav Vrban,</u> <u>Š. Čerba, J. Lúley,</u> <u>J. Haščík</u>	Institute of Nuclear and Physical Engineering, Slovakia	Investigation of Burnup Modelling Issues Associated with WWER-440 Fuel
17:10 - 17:30	<u>Mădălina Tronea,</u> <u>C. Ciurea, E. Dincă,</u> <u>M.Iacobet, M. Monceanu</u>	CNCAN, Romania	Quantitative and Qualitative Nuclear Safety Goals – Current Situation and Future Perspectives at National and International Level

Wednesday, May 18

Radioactive Waste Management**Room C****Chairman: Gérald Ouzounian****Co-chairman: Crina Bucur****Session II.1**

14:40 - 15:00	<u>Dana Baratova</u> , V. Necas	Slovak University of Technology Slovakia	Multi-barrier System Model of the Geological Repository for Spent Nuclear Fuel
15:00 - 15:20	<u>Karin Popa</u> , M. Cologna, P. E. Raison, L. Martel, R. J.M. Konings, J. Somers	Institute for Transuranium Elements Germany	CaTh(PO ₄) ₂ Cheralite as Alternative Ceramic Waste Form: Physicochemical Characterization and SPS Consolidation
15:20 - 15:40	<u>Felicia Dragolici</u> , Gh. Dogaru, E. Neacsu	IFIN-HH Romania	Latest Developments in the Predisposal of Radioactive Waste at the Radioactive Waste Management Department from IFIN-HH
15:40 - 16:00	<u>Crina Bucur</u> , C. Ichim, M. Olteanu, I. Florea	RATEN ICN, Romania	The Influence of High pH Contaminant Plum on Cesium Sorption on Saligny Loess
16:00 – 16:10	Coffee break		
16:10 - 16:30	<u>Carmen Arsene</u>	RATEN ICN, Romania	Thermal Behaviour of Used Resin during Conditioning Process
16:30 – 16:50	<u>Camelia Ichim</u> , I. Florea, L. Bujoreanu, D. Bujoreanu	RATEN ICN, Romania	Study of Carbon-14 Release from TRIGA Irradiated Graphite
16:50 - 17:10	<u>Mirela Dulama</u> , C. Dulama, M. Iordache, N. Deneanu	RATEN ICN, Romania	Tests for Improvement of Uranium Recovery from Liquid Radioactive Waste

Wednesday, May 18

Education, Training and Knowledge Transfer**Room D****Chairman: Maria Roth****Co-chairman: Gabriel Pavel****Session III.1****III.1.1 ECVET-a BRIDGE between Academia and End-Users**

14:30 - 14:45	<u>Gabriel Pavel</u>	University Politehnica Bucharest Romania	From School to a Career in Nuclear
14:45 - 15:00	<u>Maria Roth</u>	RATEN Romania	RATEN Human Resources Strategy
15:00 - 16:00	Panel discussion: Career opportunities in nuclear, Moderator: G.Pavel		
16:00 – 16:10	Coffee break		

III.1.2 Students' session

16:10 - 16:30	<u>M. C. Radulescu</u> , Ș. C. Valeca, C. Iorga	University from Pitesti Romania	Method and equipment for treating waste water resulting from the technological testing processes of NPP equipment
16:30 - 16:50	<u>L. Savu</u> , Ș. C. Valeca, T. Gyongyosi, D. Puiu, B. Corbescu	University from Pitesti Romania	Technique for Detachment of the Rolled Joint between End Fitting and Pressure Tube. Technological Conditions
16:50 – 17:10	<u>M. Savu</u> , A. Amzoi, Ș.C. Valeca	University from Pitesti Romania	Vacuum Brazing Techniques for Irradiation Devices at TRIGA Research Reactor
17:10 – 17:30	<u>Serban Constantin Valeca</u> , Ilie Turcu	University from Pitesti Romania	Students awarding ceremony

PLENARY SESSION II**Room A****Chairman: Alesandro Alemberti****Co-Chairman: Ilie Turcu**

09:00 - 09:30	A. Jeleu, <u>Nineta Balas</u> , V. Andrei <i>SNN, Romania</i>	Current SNN's Strategy Developments
09:30 - 10:00	<u>Zhixin Chen</u> <i>CGN, China</i>	Sustainable Development Based on Clean Nuclear Energy-CGN's Story and Prospect
10:00 - 10:30	<u>Liviu Stefan</u> , N. Trantea, A. Roberts, S. Strikwerda, A. Antoniazzi, D. Zaharia	Key Improvements in CTRF Design
10:30 - 11:30	Poster Session 2 with Coffee&Tea	
11:30 - 12:00	<u>Emmanuel Raimond</u> <i>IRSN, France</i>	Importance of research to support progress of NPPs safety against severe accident or beyond design conditions. Commented examples from IRSN activities and the EU ASAMPSA_E project
12:00 - 12:30	<u>Daniel Freis</u> , E. D'Agata, J. Somers <i>Institute for Transuranium Elements, Germany</i>	The JRC Research Programme on Safety of Advanced Nuclear Fuels
12:30 - 13:00	<u>Teodora Retegan</u> , C. Ekberg <i>Chalmers University of Technology, Sweden</i>	Nuclear Research Activities at Chalmers University of Technology – Gothenburg, Sweden
13:00 - 13:30	<u>Serban Constantin Valeca</u> , D. Diaconu, I. Turcu <i>RATEN ICN, Romania</i>	Future R&D Projects in RATEN ICN Nuclear Research
13:30 – 14:30	Lunch	

Thursday, May 19

Parallel Sessions**Nuclear Technology and Materials****Room C****Chairman: Vasile Stanciu****Co-chairman: Dumitra Lucan****Session I.3**

14:40 - 15:00	<u>Florea Scarlat</u> , A. Scarisoreanu, E. Badita, E. Stancu, M. Demeter, C. Vancea, I. C. Calina	INFLPR Romania	Particle Acceleration Produced by Laser Beams
15:00 - 15:20	<u>Dumitra Lucan</u> , L. Velciu, D. Petrescu	RATEN ICN Romania	Factors Affecting Deposits Consolidation into CANDU Steam Generator Secondary Circuit
15:20 - 15:40	<u>Manuela Fulger</u> , M. Mihalache, L. Velciu, A. Nitu, C. Puscasu	RATEN ICN Romania	Analysis of The Failed Threaded Rod from the Support of Pipelines from CNE Cernavoda
15:40 - 16:00	<u>Livia-Nicoleta Stoica</u> , V. Radu	RATEN ICN Romania	Fatigue Crack Initiation at Complex Flaws in Hydrided Zr-2.5%Nb Samples from CANDU Pressure Tubes
16:00 - 16:10	Coffee break		
16:10 - 16:30	<u>A. Galatanu</u> , M. Galatanu, A. Jianu A. Weisenburger	National Institute of Materials Physics, Romania	Heat Transfer Analysis for Metal-Liquid Lead Interface
16:30 - 16:50	<u>Alexandru Nitu</u> , V. Radu, V. Pitigoi, M. Abrudeanu	RATEN ICN Romania	Mechanical Characterization of Generation IV 15-15Ti Candidate Material
16.50 - 17:10	<u>Viorel Ionescu</u> , V. Pitigoi, A. Nitu, M. Hororoi, F. Voicu	RATEN ICN Romania	Effects of Liquid Lead on 316L Tensile Properties
17.10 - 17:30	<u>P. Cărlan</u> , <u>Irina Paraschiv</u> , A. Dinu, M. Stănculescu, G. Bucșă, M. Olteanu, I. Voica, R. Stelian	RATEN ICN Romania	Degradation Tests for C 32/40 Concrete used for Perimetral Wall, Reactor Base and Components of Cernavoda NPP Containment, under Thermal Stress Conditions and Liner Degradation

Thursday, May 19

Thursday, May 19

Radioprotection & Air, Water and Soil Protection

Room B

Chairman: Radu Vasilache

Co-chairman: Alexandru Toma

Session II.2 & II.3

14:40 – 14:55	<u>Radu A. Vasilache</u>	Canberra Packard Romania	Reviewing the Foundations of the Radiation Protection: What Would Change if We Accept the Failure of the LNT Assumption?
14:55 – 15:10	<u>Csaba Roth, D.Dumitrescu, I. Visan, A. Udrea, I. Popa</u>	RATEN ICN Romania	Neutron Spectra Measurements at Cernavoda NPP Unit 2
15:10 – 15:25	<u>Dumitru Barbos, A. F. Bucsa</u>	RATEN ICN Romania	Neutron Activation Analysis Method – International Ring Test For Proficiency Assessment
15:25 – 15:40	<u>Al. Toma, C. Ciocirlan, C. Dulama, M. Valeca, R. Dobrin</u>	RATEN ICN Romania	INR Participation on IAEA ALMERA Proficiency Tests for Radionuclides Determination in Environment Samples
15:40 – 15:55 Coffee break			
15:55 – 16:10	<u>Cristian Dulama, A. Toma, R. Dobrin</u>	RATEN ICN Romania	Development of a new method for determination of tritium contamination of surfaces
16:10 – 16:30	<u>Dan Galeriu, A. Melintescu</u>	IFIN-HH Romania	Tritium Radioecology-Contribution from IFIN-HH
Round Table Tritium Management in Nuclear Fusion and Fission			
16.30 – 17:30	Chairman: Ion Cristescu		Co-chairman: Dan Galeriu

Thursday, May 19

International Partnership for Sustainable Development

Room D

Chairman: Marin Constantin

Co-chairman: Minodora Apostol

Session III.2

14:40 – 15:00	<u>C. A. Mărgeanu</u>	RATEN ICN Romania	Assessment of Nuclear Energy Cost Competitiveness against Alternative Energy Sources in Romania Envisaging the Long-term National Energy Sustainability
15:00 – 15:20	<u>Mirela Nitoi, M. Farcasiu, M. Apostol</u>	RATEN ICN Romania	Modelling Human Interaction in the Assessment of Man-Made Hazards
15:20 – 15:40	<u>Minodora Apostol, M. Constantin, D.Diaconu</u>	RATEN ICN Romania	Building Local Participation and Support for ALFRED Project
15:40 – 16:00	<u>M. Ilieva, R. Miteva, T. Takov</u>	Risk Engineering Ltd. Bulgaria	CORONA Project – Contribution to VVER Nuclear Education and Training
16:00 – 16:10 Coffee break			
16:10 – 16:30	<u>D. Diaconu, C. Mays, N. Zeleznik, M. Constantin, T. Perko, C. Turcanu, G. Baumont, G. Zakrzewska-Koltuniewicz</u>	RATEN ICN Romania	Good Practices for a Better Communication of Ionizing Radiation Risks to the Public
16:30 – 16:50	<u>Marin Constantin, D.Diaconu</u>	RATEN ICN Romania	Assessment of the Implementation Risks for Alfred Demonstrator
16.50 – 17:10	<u>Gheorghe Ionitã, S. Brad, I. Stefãnescu</u>	ICSI Rm. Vâlcea Romania	Tritium Removal Facility from ICSI Rm. Vâlcea, Potential Support for ITER Project Activities

17:30 NUCLEAR 2016 Awards

20:00 Conference Dinner (Ramada Hotel)

Friday. May 20	8:00	Depart from Muntenia Hotel
	8.30 - 12:00	Technical visits: TRIGA Reactor, Hot Cells, Radioactive Waste Treatment Plant
	13:30 - 15:00	Lunch in Bucharest

Poster Session 1 - Wednesday, May 18 (10:15 - 11:15)

Nuclear Reactors & Nuclear Safety

S1-P1	J. Lúley, Š. Čerba, B. Vrban, J. Haščík <i>Slovak University of Technology - Slovakia</i>	Characterization of the GFR2400 Reactivity Effects
S1-P2	M. A. Zamfir, M. Androne <i>RATEN CITON, Romania</i>	Seismic Isolation – Efficient Procedure for Seismic Response Assessment
S1-P3	M. Serbanel, L. Nitulescu, I. Prodea, C. Diaconu <i>RATEN ICN, Romania</i>	Coupled Neutronic-Thermalhydraulic Simulation of Large LOCA for CANDU 6 NPP
S1-P4	R. Pristavu, A. Rizoiu <i>RATEN ICN, Romania</i>	Reactor Physics Assessment of Modified 37-Element CANDU Fuel Bundles
S1-P5	L. Nitulescu, M. Serbanel, C. Diaconu, Gh. Florescu <i>RATEN ICN, Romania</i>	Neutronic and Thermal-Hydraulic Modelling of 35%RIH LBLOCA for CANDU6 Reactor by using Relap5/Mod3.2 Computer Code
S1-P6	G. Jahanfarnia, R. Mirghaffari <i>Islamic Azad University, Iran</i>	Concentration of Nanoparticles in Nanofluid as Nuclear Reactor Coolant Subjected to Nucleate Boiling
S1-P7	R. Roman, D.V. Ionescu, Gh. Olteanu, S. Florea, A.C. Radut <i>RATEN ICN, Romania</i>	Finite Element Modelling of Different CANDU Fuel Bundle Types in Various Refuelling Conditions
S1-P8	I. Prodea <i>RATEN ICN, Romania</i>	Neutronic Properties Evaluation of a Shutdown System with Mechanical Absorbent Rods Designed for an Advanced CANDU Reactor
S1-P9	M.Tronea, C.Ciurea, M.Monceanu, M.Iacobet <i>CNCAN, Romania</i>	Artifacts, Espoused Values and Basic Assumptions that Support a Healthy Nuclear Safety Culture

Radioactive Waste Management

S1-P10	A.C. Răduț, M.R. Roman, S. Florea, D.V. Ionescu, G. Olteanu, S. Valeca <i>RATEN ICN, Romania</i>	Assessments of the Thermal Evolution for a Radioactive Waste Final Repository using Analytical Methods
S1-P11	I.Florea, C. Bucur, C.Ichim, C. Diaconescu <i>RATEN ICN, Romania</i>	Cesium Sorption on Intact and Degraded Mortar
S1-P12	C. Diaconescu, C. Ichim, I. Florea, L. Bujoreanu <i>RATEN ICN, Romania</i>	The Measurement of Gamma Radionuclide from Spent Ion Exchange Resins
S1-P13	N. Deneanu, M. Dulama, I. Florea <i>RATEN ICN, Romania</i>	The Effect of Carbonation on Cement type CEM II / AS 32,5 N-LH

Education, Training and Knowledge Management

E1-P1	N. Marinescu, E. Pantile <i>RATEN ICN, Romania</i>	An Informatic System for Training, Examination and Knowledge Assessment/Evaluation of the FHS Personnel
E1-P2	A. M.Ivan, A. Ghiță <i>University from Pitesti, Romania</i>	Radioactive Waste Resulted from Fission 99Mo Production
E1-P3	A. Ion, S. C. Valeca, A. Nitu <i>University from Pitesti, Romania</i>	Investigation of Delayed Hydride Cracking Mechanism in the CANDU Pressure Tube Material
E1-P4	A.M.Segarceanu, M.Constantin, S.C.Valeca <i>University from Pitesti, Romania</i>	Influence of Some Parameters on the Void Reactivity and Pin Power Calculation for Typical CANDU Cells
E1-P5	C. F.Ion, Ș. C. Valeca, L. Velciu <i>University from Pitesti, Romania</i>	Metallographic Analysis of as Received and Autoclaving Inconel 617 Alloy
E1-P6	L. D. Mitrea, M. Dinca, S. C. Valeca <i>University from Pitesti, Romania</i>	Fresh Fuel Investigation Using the Dry Neutron Radiography Facility
E1-P7	M. Savu, A. Amzoi, S. C. Valeca <i>University from Pitesti, Romania</i>	Vacuum Brazing Techniques for Irradiation Devices at TRIGA Research Reactor

E1-P8	C. Voiculescu, M. Valeca, V. Ionescu <i>University from Pitesti, Romania</i>	Fatigue Testing of Zircaloy - 4 Cladding by Thermo-Mechanical Cycling
E1-P9	A. Pulpa, C. Parvu, M. Ancuta, E. Ana, S. C. Valeca <i>University from Pitesti, Romania</i>	The Upgraded Control and Instrumentation System of C9 Irradiation Device
E1-P10	E. A. Nitescu, A. F. Bucsa <i>University from Pitesti, Romania</i>	Application of Neutron Activation Analysis Method on Biomonitors for Assessing Environment Quality
E1-P11	A.E. Moisa, S. C. Valeca, V. Pitigoi <i>University from Pitesti, Romania</i>	Mechanical Properties of Structural Materials in HLM
E1-P12	S. Vulpe, D. Predescu <i>University from Pitesti, Romania</i>	Simulator for CANDU600 Fuel Handling System. Environmental implications
E1-P13	D. Sîrbu, M. Valeca, D. Diaconu, A. Constantin <i>University from Pitesti, Romania</i>	Conceptual model for a deep geological repository
E1-P14	C. Aspru, Ș. C. Valeca, E. Săliștean, M.Mihalache, I. Pîrvu, V. Stoica, C. Talpalariu, C. Costea <i>University from Pitesti, Romania</i>	Characterization Techniques of Electrodes Coating Material for Ionization Chamber Detectors
E1-P15	C.Guta, C. Talpalariu, V. Stoica, V. Cenușă <i>University from Pitesti, Romania</i>	Computerized Techniques for Collecting the Radioprotection Data
E1-P16	F.C. Popescu, A. Dinu <i>University from Pitesti, Romania</i>	Influence of Temperature on the Mechanical Properties of Incoloy 800
E1-P17	M. C. Radulescu, Ș. Valeca, C. Iorga <i>University from Pitesti, Romania</i>	Method and equipment for treating waste water resulting from the technological testing processes of NPP equipment
E1-P18	R. Venescu, M. Valeca, L. Bujoreanu, D. Bujoreanu, B. Venescu <i>University from Pitesti, Romania</i>	C-14 Analysis in Radioactive Waste by Combustion and Digestion Techniques
E1-P19	C. M. Chivoreanu, M. Valeca, C. Bucur, C. Ichim <i>University from Pitesti, Romania</i>	Processes Involved in Radionuclide Retention in Porous Media
E1-P20	G. Brinaru, M. Olteanu, M. Iordache, M. Valeca <i>University from Pitesti, Romania</i>	A Tc-99 Analysis Method from Simulated Radioactive Wastes
E1-P21	F. Neagu, Ș. C. Valeca, I. Prodea <i>University from Pitesti, Romania</i>	The Burnup Influence on the Interest Parameters of a CANDU Lattice with Natural and Slightly Enriched Uranium
E1-P22	O. Boteanu, M. Valeca, C. Arsene <i>University from Pitesti, Romania</i>	Management of the used ion-exchangers contaminated with C-14 generated by NPP Cernavoda
E1-P23	L. Savu, Ș. C. Valeca, T. Gyongyosi, D. Puiu, B. Corbescu <i>University from Pitesti, Romania</i>	Technique for Detachment of the Rolled Joint between End Fitting and Pressure Tube. Technological Conditions
E1-P24	C. M. Olteanu, Ș. C. Valeca, V. Nistor <i>University from Pitesti, Romania</i>	Aspects Related to the Testing of Sealed Radioactive Sources
E1-P25	I. Toader, M. Valeca, O. Rusu, E. Coacă, A. Marin <i>University from Pitesti, Romania</i>	Designing Advanced Materials by Environmental Friendly Plasma Electrolytic Oxidation

Poster Session 2 - Thursday, May 19 (10:30 – 11:30)

Nuclear Technology and Materials

S2-P1	L. Ciufu, M.O. Popescu <i>UPB, Romania</i>	Nuclear Power Plants Electrical Retrofitting for Cost Effectiveness, Reliability and Operating Efficiency
S2-P2	S. Ionescu, O. Uta, M. Mincu, I. Prisecaru <i>RATEN ICN, Romania</i>	Tests on CANDU Fuel Elements Sheath Samples

S2-P3	M. Petre, M. Mincu, C. Lazăr, A. Ivan <i>RATEN ICN, Romania</i>	Quantification of ²³⁹ Pu and ²⁴⁰ Pu in Spent Nuclear Fuel Using Thermal Ionization Mass Spectrometry (TI-MS) and Alpha Spectrometry
S2-P4	G. E. Androne <i>RATEN ICN, Romania</i>	The Recovered of ⁹⁹ Mo from Uranium Irradiated Solution using a Nanoparticles Titanium Dioxide Column
S2-P5	L. Velciu, T. Meleg, M. Pantiru, D. Petrescu, F. Voicu <i>RATEN ICN, Romania</i>	Study of Incoloy 800HT Alloy Tested by Heat-Cycling
S2-P6	G.C.Lazar, M. Petre, A. Benga <i>RATEN ICN, Romania</i>	Separation of Lanthanum from Nuclear Fuel Solutions by High Performance Liquid Chromatography
S2-P7	O. Ichim, M. Mincu, I. Man, M. Stanica <i>RATEN ICN, Romania</i>	Examination of Irradiated Fuel Elements using Gamma Scanning Technique
S2-P8	M. Dinca, L. D. Mitrea <i>RATEN ICN, Romania</i>	Comparative Examination of the Fresh and Spent Nuclear TRIGA Fuel by Neutron Radiography
S2-P9	G. Gheorghe, I. Man <i>RATEN ICN, Romania</i>	Transferring the Defected Irradiated CANDU Fuel Bundles, from Cernavoda NPP to INR Pitesti for Post-Irradiation Examination
S2-P10	I.Paraschiv, D. Benga <i>RATEN ICN, Romania</i>	Technological Studies for Obtaining Lead Oxide Compacts Used in Generation IV Nuclear Reactors
S2-P11	V.Cojocaru, V.Ionescu, D.Nicolescu, A.Nitu <i>RATEN ICN, Romania</i>	Experimental Testing Facilities for Ultrasonic Measurements in Heavy Liquid Metal
S2-P12	M. Stanculescu, M. Abrudeanu, P. Carlan, M. Mihalache <i>RATEN ICN, Romania</i>	Optimisation of the Mechanical Alloying Process for ODS Ferritic Steels for Generation IV Reactors Application
S2-P13	M.Tunaru, L. Velciu, M. Mihalache, L. Popa <i>RATEN ICN, Romania</i>	Microbiologically Influenced Corrosion of Carbon Steel in the Presence of Sulphate Reducing Bacteria
S2-P14	A. Dinu, M. Tunaru, L. Velciu <i>RATEN ICN, Romania</i>	X-Rays Diffraction Characterization of Corrosion Products Transported by Secondary Side of a CANDU NPP
S2-P15	L. Popa, M. Tunaru, L. Velciu, M. Lazăr <i>RATEN ICN, Romania</i>	Corrosion Behaviour of Dissimilar Welds Between Ferritic Martensitic Stainless Steel and Austenitic Stainless Steel from Secondary Circuit of CANDU NPP
S2-P16	D. Puiu, T. Gyongyosi, B. Corbescu, Gh. Deloreanu, E. Dinu, C. Cepisca <i>RATEN ICN, Romania</i>	Indenter Portable Equipment. Measurement of the Recovery Time for the Non-Destructive Power Cable Ageing Evaluation
S2-P17	C. Iorga, H. Iorga <i>RATEN ICN, Romania</i>	The Heater System Monitoring and Control of the Fuelling Machines Test Rig Fluid
S2-P18	M. Mihalache, T. Meleg <i>RATEN ICN, Romania</i>	The thermal transient effect on the microstructure of oxidized Zr-2.5%Nb alloy
S2-P19	T. Gyongyosi, S. C. Valeca, B. Corbescu, D. Puiu, V. N. Panaitescu <i>RATEN ICN, Romania</i>	Forming an Ice Plug Inside a Horizontal High Diameter Pipeline (300 mm Nominal Diameter) using Stationary Demineralized Water
S2-P20	B. Corbescu, T. Gyongyosi, D. Puiu, V. N. Panaitescu <i>RATEN ICN, Romania</i>	Attempts to Isolate a Horizontal High Diameter (300 mm Nominal Diameter) Pipeline with an Ice Plug at Minimum Water Flow and Without Water Flow
S2-P21	T. Gyongyosi, Gh. Deloreanu, D. Puiu, B. Corbescu, N. Anghel, E. Dinu <i>RATEN ICN, Romania</i>	The Influence of the Preliminary Garter Spring Spacer Simulator Clamping Force in the Pressure Tube Spacer – Calandria Tube Hook-Up Simulator Aging Behaviour
S2-P22	D. Stefanescu <i>RATEN ICN, Romania</i>	The Repair and Protection of Reinforced Concrete with Migrating Corrosion Inhibitors
S2-P23	T. Meleg, M. Mihalache <i>RATEN ICN, Romania</i>	A Physical Model for the Circumferential Crack Initiation in the Oxide Scale during Isothermal Oxidation of the Zy-4 Cladding

S2-P24	V. Olaru, V. Ionescu, A. Nitu, D. Ionescu, F. Voicu RATEN ICN Romania	Fatigue Testing on Samples from Zircaloy- 4 Tubes Type SEU 43
S2-P25	G. Ghita, I. Prisecaru, S. Ionescu RATEN ICN Romania	Conversion Software for ANSYS APDL 2 FLUENT MHD Magnetic File
S2-P26	C. Moraru, I. Stefan, C. Bucur, O. Baiteanu, N. Soflica ICSI Rm. Valcea, Romania	Monitoring System with Field Point Modules and LabView DSC (Datalogging And Supervisory Control Module) Used in Pilot Plant for Tritium Separation
S2-P27	A. Soare, I. Csáki, C. Oprea, S. Soare, C. Predescu, I. Costina ICSI Rm. Valcea, Romania	A New Approach into the Design of Thermal Barrier Coating (TBD) Systems
S2-P28	D. Petrescu, L. Velciu, C. Bucur RATEN ICN Romania	Antimony Removal from Aqueous Solutions using Zirconium Hydroxide
S2-P29	A. V. Aldea RATEN ICN Romania	Process Controller for Induction Vacuum Brazing
S2-P30	R. J. Pearson, O. Comşa, L. Stefan, W. Nuttall <i>Open University, UK</i>	Romanian Tritium for Nuclear Fusion

Radioprotection & Air, Water and Soil Protection

S2-P31	S. Bercea, R. A. Vasilache, C. Cenusa, A. Celarel, I. Cenusa, E. Iliescu <i>Canberra Packard, Romania</i>	Low Dose Measurements: Requirements and Equipment for Instrument Calibration
S2-P32	C. Sandru, R. Ionete, E. David, V. Stanciu, F. Bucura, M. Constantinescu <i>ICSI Rm. Valcea, Romania</i>	Olt River Water Quality Monitoring in terms of its Physico-Chemical Features and Water Quality Index
S2-P33	M. Constantinescu, F. Bucura <i>ICSI Rm. Valcea, Romania</i>	Emission factor FE determination to natural gas used in thermal and energetic plants
S2-P34	M. Constantinescu, F. Bucura <i>ICSI Rm. Valcea, Romania</i>	Geothermal gas water, reservoir of hydrocarbons
S2-P35	C. T. Ciucure, D. I. Stegarus, R. E. Ionete, C. Sandru <i>ICSI Rm. Valcea, Romania</i>	Monitoring of Olt River in Terms of Quality Classification, Based on Physicochemical and Bacteriological Indicators
S2-P36	C. Varlam, D. Bogdan, I. Vagner, I. Faurescu, D. Faurescu <i>ICSI Rm. Valcea, Romania</i>	Organically Bound Tritium Behaviour in Vegetation at ICSI
S2-P37	J. Talpalariu, C.M. Talpalariu, O. Popescu, M. Mocanasu, I. Lita, D.A. Visan RATEN ICN, Romania	Testing Digital Recursive Filtering Method for Radiation Measurement Channel using PIN Diode Detector
S2-P38	M. Stoica, C. Talpalariu RATEN ICN, Romania	Assembly of Gamma Radiation Detection with Directivity Properties
S2-P39	S. Stroe, C. Dulama, Al. Toma, R. Dobrin RATEN ICN, Romania	Determination of Uranium in Drinking Water by Alpha Spectrometry
S2-P40	C. Ciocirlan, C. Dulama, Al. Toma, M. Valeca, R. Dobrin RATEN ICN, Romania	Sequential Determination of Po-210 and Pb-210 in Environmental Samples
S2-P41	R. I. Dobrin, C. N. Dulama, C. N. Ciocirlan, Al. Toma RATEN ICN, Romania	Determination of Natural Uranium by Cherenkov Counting
S2-P42	G. Tudor, M. Valeca, R. Iordache RATEN ICN, Romania	The Environmental Radioactivity Data Analysis at the INR Platform in the Post-Cernobil Period