

# **23rd WiN Global Annual Conference --- Women in Nuclear Meet Atoms for Peace**

**Monday 24 August 2015 - Friday 28 August 2015**

**IAEA, Vienna  
Programme**

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# Monday 24 August 2015

## Technical Visit to Zwentendorf Nuclear Power Plant: 4 tours on offer - (08:30-19:00)

*Zwentendorf NPP — the reactor that never went into operation*

*The Zwentendorf Nuclear Power Plant was the first nuclear plant built in Austria, of six nuclear plants originally envisaged. Construction of the plant began in April 1972, as a boiling-water reactor rated at 692 MWe power output. The plant was finished, but never went into operation. The startup of the Zwentendorf plant, and also the construction of the other five plants, was vetoed by a referendum on 5 November 1978. A narrow majority of 50.47% (i.e. with a margin of less than 1%) voted against the startup.*

*Since then, the plant has been partly dismantled. Today, the reactor is used to provide spare parts to three similar German reactors and to train foreign operators. Also, a solar power plant has been constructed on the premises.*

*Since 1978, Austria has had a law prohibiting fission reactors for electrical power generation.*

*During the tour, visitors will have the unique opportunity to see the reactor internals (including the core, control rod mechanism, detectors), which is no longer possible once a reactor becomes operational.*

## Conference Registration: Distribution of Conference Material - (10:00-16:00)

## Viewing of Pandora's Promise: A Robert Stone Film - Boardroom B/M1 (10:00-16:00)

## Heurigen Dinner - (19:00-23:00)

*Buffet dinner at Viennese Heurigen Zum Martin Sepp*

*Eastern Austria boasts thousands of Heurigen, which are wine taverns nestling at the foot of the slopes where wine has been grown since Roman times. After a busy day on pre-conference excursions, we invite you to relax and enjoy typical local fare at one of these taverns, the delightful Heurigen — Zum Martin Sepp — in the Vienna suburb of Grinzing, a former village, at the edge of the Vienna Woods (Wienerwald). The typical local food — served as a buffet — is tasty and simple, with plenty of vegetarian options, and the wine is dry and delicious (non-alcoholic drinks are also available). You'll hear some traditional Wienerlieder played by the tavern musicians at some point during the evening.*

## Tuesday 25 August 2015

### Conference Registration: Distribution of Conference Material - (08:00-16:00)

### Opening and Welcoming Remarks - Boardroom B/M1 (09:30-10:30)

time	title	presenter
09:30	Welcome	GYANE, Eva (WiN IAEA, President)
09:40	Opening	PARK, Se-Moon (President, WiN Global)
09:50	Welcoming Remarks	ICHIKAWA, Tomiko (Special Assistant to the Director General, IAEA)
10:00	Opening Remarks	DUNN LEE, Janice (Deputy Director General, IAEA)

**Keynote Presentations - Boardroom B/M1 (11:00-12:00)**

time	title	presenter
11:00	Keynote 1	HINDERSTEIN, Corey (National Nuclear Security Administration)
11:20	Keynote Austria	SCHWAIGER, Martina (Seibersdorf Labor GmbH)
11:40	Keynote 3	ZIAKOVA, Marta (Board of Governors, Chair)

**Side Event: Particular Examples and Good Practices - M05 (12:30-13:30)**

time	title	presenter
12:30	What Can we Learn from Similar Male Dominated Industries?	GUILLOTON, Eve (Thomas Thor Associates)

**Recruitment Strategy - M05 (13:30-14:30)**

time	title	presenter
13:30	Candidate & Recruitment Sourcing Strategy	ARAUJO, Gustavo (IAEA)

**WiN Global General Assembly - Boardroom B/M1 (14:00-15:00)**

time	title	presenter
14:00	WiN Global General Assembly	PARK, Se-Moon (President, WiN Global)



**WiN Chapter Reports - Boardroom B/M1 (15:30-17:55)****Welcome Reception - (18:30-20:00)**

time	title	presenter
18:30	Welcoming Remarks	GYANE, Eva (WiN IAEA, President) MUELHAUSER, Françoise (WiN IAEA, Vice President)
18:35	Presenting UNFCU	RAMSDALE, Lindy (UNFCU, Director)
18:45	Japanese Dance Performance	OGAWA, Junko (WiN Global)

## Wednesday 26 August 2015

### Career Development for Women in the Nuclear Field, including Communications -

#### Boardroom B/M1 (09:00-10:30)

- Chairs: Dunn Lee, Janice (IAEA)

time	title	presenter
09:00	Breaking Gender Stereotypes: Encouraging more Women to Study Science, Technology and Mathematics	RAMOS, Gabriela (OECD)
09:10	Career 1	RICKWOOD, Peter (Atomic Reporters)
09:17	Career 2	LOCATELLI, Sunni (Canadian Nuclear Safety Commission)
09:24	Career 3	RADDE, Eileen (Nuclear Young Generation)
09:31	Career 4	LEVIN, Nadia (Australian Nuclear Science and Technology Organisation)
09:38	Career 5	SINGELEEE, Meena (International Network of Emerging Nuclear Specialists)
09:45	Career 6	AIHONG, Wu (State Nuclear Power Technology Corporation, China)
09:52	Career 7	GUILLOTON, Eve (Thomas Thor Associates)
10:00	Panel Discussion	RICKWOOD, Peter (Atomic Reporters) LOCATELLI, Sunni (Canadian Nuclear Safety Commission) RADDE, Eileen (Nuclear Young Generation) LEVIN, Nadia (Australian Nuclear Science and Technology Organisation) RAMOS, Gabriela (OECD) SINGELEEE, Meena (International Network of Emerging Nuclear Specialists) AIHONG, Wu (State Nuclear Power Technology Corporation, China) GUILLOTON, Eve (Thomas Thor Associates)

**Use of Radiation in Medicine - Boardroom B/M1 (11:00-12:30)****- Chairs: Xia, Ping (Cleveland Clinic Department of Radiation Oncology)**

time	title	presenter
11:00	Introduction	XIA, Ping (Cleveland Clinic Department of Radiation Oncology)
11:10	Radiation 1	BESE, Nuran S. (Cerrahpasa Medical School, University of Istanbul)
11:17	Programme of Action for Cancer Therapy: Maximizing Investments in Radiation Medicine	ENWEREM-BROMSON, Nelly (IAEA)
11:24	Radiation 3	ABDEL-WAHAB, May (IAEA)
11:31	Radiation 4	CHOI, Sun Ju (KAERI)
11:38	Radiation 5	DELA ROSA, Alumanda (Philippine Nuclear Reserach Institue (PNRI))
11:45	Radiation 6	DI GIORGIO, Marina (Argentinean Nuclear Regulatory Authority)
11:52	Panel Discussion	BESE, Nuran S. (Cerrahpasa Medical School, University of Istanbul) ENWEREM-BROMSON, Nelly (IAEA) ABDEL-WAHAB, May (IAEA) CHOI, Sun Ju (KAERI) DELA ROSA, Alumanda (Philippine Nuclear Reserach Institue (PNRI)) DI GIORGIO, Marina (Argentinean Nuclear Regulatory Authority) XIA, Ping (Cleveland Clinic Department of Radiation Oncology)

**Side Event: Particular Examples and Good Practices - M05 (12:30-13:30)****Energy, Environment and Climate Change - Boardroom B/M1 (13:30-15:00)**

- Chairs: Rising, Agneta (WNA)

time	title	presenter
13:30	Introduction	RISING, Agneta (WNA)
13:40	Climat 1	CZARWINSKI, Renate (IRPA)
13:47	Climat 2	SOUFI, Itimad (National Centre for Energy Sciences and Nuclear Techniques (CNESTEN))
13:54	Climat 3	VENKATESH, Meera (IAEA)
14:01	Climat 4	RYABISKOVSKAYA, Ekaterina (International Youth Nuclear Congress)
14:08	Climat 5	GOGAN, Kirsty (Energy for Humanity)
14:15	Panel Discussion	CZARWINSKI, Renate (IRPA) SOUFI, Itimad (National Centre for Energy Sciences and Nuclear Techniques (CNESTEN)) VENKATESH, Meera (IAEA) RYABISKOVSKAYA, Ekaterina (International Youth Nuclear Congress) RISING, Agneta (WNA) GOGAN, Kirsty (Energy for Humanity)

**Recruitment Strategy - M05 (13:30-14:30)**

time	title	presenter
13:30	Candidate & Recruitment Sourcing Strategy	ARAUJO, Gustavo (IAEA)

**Safeguards and Non-proliferation - Boardroom B/M1 (15:30-17:00)****- Chairs: Varjoranta, Tero (IAEA)**

time	title	presenter
15:30	Introduction	DE VILLIERS, Van Zyl (IAEA)
15:40	SG 1	MAXWELL, Rowena (Canadian Nuclear Safety Commission (CNSC))
15:47	SG 2	FERNANDEZ MORENO, Sonia (ABACC)
15:54	SG 3	CRAWFORD, Melissa (International Youth Nuclear Congress)
16:01	SG 4	NIEMEYER, Irmgard (Juelich Zentrum)
16:10	Panel Discussion	MAXWELL, Rowena (Canadian Nuclear Safety Commission (CNSC)) FERNANDEZ MORENO, Sonia (ABACC) CRAWFORD, Melissa (International Youth Nuclear Congress) NIEMEYER, Irmgard (Juelich Zentrum) DE VILLIERS, Van Zyl (IAEA)

**Conference Dinner - (18:00-23:59)**

*Our conference banquet will be the social highlight of WiN Global 2015. In the ballroom of Vienna's magnificent gothic City Hall, we'll serve you a four-course meal and varied live musical diversions.*

*During the evening you will be entertained by an ensemble from one of Europe's top brass bands — the k. u. k. Wiener Regimentskapelle — playing some famous waltzes and marches, and by a group of dancers from Vienna's renowned dancing school — Tanzschule Elmayer — which trains the debutantes for some of Vienna's 'noble' balls.*

## Thursday 27 August 2015

### **Presentations by IAEA Departments - Boardroom B/M1 (09:00-10:30)**

time	title	presenter
09:00	Department of Nuclear Sciences and Applications	TBA, TBA (IAEA)
09:10	Department of Nuclear Energy	TBA, TBA (IAEA)
09:20	Department of Management	TBA, TBA (IAEA)
09:30	Department of Safeguards	TBA, TBA (IAEA)
09:40	Department of Nuclear Safety and Security	TBA, TBA (IAEA)
09:50	Department of Technical Cooperation	TBA, TBA (IAEA)

**Nuclear Security - Boardroom B/M1 (11:00-12:30)****- Chairs: Jenkins, Bonnie (US State Department)**

time	title	presenter
11:00	Introduction	JENKINS, Bonnie (US State Department)
11:10	Security 1	HAKAM, Oum Keltoum (University of Ibn Tofail, Morocco)
11:17	Security 2	SOBRADO, Maria Lorenzo (United Nations Office on Drugs and Crime)
11:24	Security 3	MRABIT, Khammar (IAEA)
11:31	Security 4	TBA, TBA
11:40	Panel Discussion	HAKAM, Oum Keltoum (University of Ibn Tofail, Morocco) SOBRADO, Maria Lorenzo (United Nations Office on Drugs and Crime) MRABIT, Khammar (IAEA)



**Side Event: Particular Examples and Good Practices - M05 (12:30-13:30)**

time	title	presenter
12:30	R Activities in German Nuclear Sector	SCHWENK-FERRERO, Aleksandra (Karlsruhe Institute of Technology)
12:50	Women's Participation in Africa's Nuclear Development-Challenges and Opportunities	MKHOSI, Margaret (South Africa)

**Recruitment Strategy - M05 (13:30-14:30)**

time	title	presenter
13:30	Candidate & Recruitment Sourcing Strategy	ARAUJO, Gustavo (IAEA)

**Posters: Career Development - Rotunda C (14:00-15:30)**

**All posters will be displayed for the entire duration of the conference.**

**As far as possible, authors are requested to be present at their posters during the coffee breaks as well as during the poster session for discussion with interested participants.**

title	presenter	board
Challenges of Communicating Nuclear / Radiation Information: The Case of Zimbabwe	MUDOTA, Bridgeta	
Women's Participation in Africa's Nuclear Development-Challenges and Opportunities	MKHOSI-MOTSAATHEBE, Margaret	
Gender Mainstreaming in Radiation Safety in Zimbabwe	MUTANGA, Natsai	
How to Utilize Female Work Force Particularly in Nuclear Communications	JUNG, Wonyoung	
The Career in Medical Physics – Profession and Vocation	SERGIEVA, Katia	
Five Years of Women in Nuclear at Texas A University	DROMGOOLE, Lainy	
Education Program about Radiation at School in Japan	UKAI, Mitsuko	
IWIN's "My Amazing Future" Program	FRANCES, Marshall	
The Nuclear Development Need More Involvements of Women	XIAOSHAN, Li	
Public Acceptance on Nuclear Power: A Strategic Need to Shift to 5Ps ( Politicians, Policy makers, Professionals, Public and Press ) Acceptance on Nuclear Power	DATO SYED AHMAD IDID, Sheriffah Noor Khmaseah AI-Idid	
Nuclear Education & Training - Showcasing the Best Practices of the United Kingdom and France	DATO SYED AHMAD IDID, Sheriffah Noor Khmaseah AI-Idid	
Development of Nuclear Energy and Radiation Textbooks for Elementary School Students	HAN, EUNOK	
Growth of the Female Professional in the Radiation Safety Department	YOON, JISOO	
Relation between Romanian NGOs Acting in Nuclear Field and Other Stakeholders	ANDREI, Veronica	
Experience of the WIN Hungary in Communication with Public on a Big Social Events	SZUCSÁN, Marina	
Career Development in Nuclear Engineering	SIBBENS, Goedele	
Career Development of Women as Reactor Operator in China	HAN, Ruixuan	
Development of the ‘‘Approach to Critical’’ Experiment Simulation Model for the Consort Reactor Using LABVIEW	ABBO, DAMALIE NOEL OFUMBI	
Career Development of Women in Nuclear Fuel Industry in Republic of Korea	CHO, Hanna	
Career Development for Women in Nuclear	BOSHIELO, Precious	
Co-Prosperity with KHNP and Communities	JUN, HYE SOO	
Nuclear Knowledge Management	HANAMITSU, Keiko	
What Can we Learn from Similar Male Dominated Industries?	GUILLOTON, Eve	
Female Regulatory Inspectors at Nuclear Power Plants: A Constant Challenge and Opportunities	MAREE, Vanessa	
Activities of WIN Slovakia	MELICHEROVA, Terezia	

title	presenter	board
Female Contributions in Nuclear Science: Experiences at the Brazilian Commission for Nuclear Energy (CNEN/LAPOC)	CARRIJO DA SILVA DIAS, Danila	
The Trend of Women in Nuclear Security in Zimbabwe	SITHOLE, Petronella	
The Application of Nuclear-Based Techniques in Malta's Scientific Laboratories with a Focus on the Participation of Women in such Nuclear-Related Fields	BALUCI, Claire Angele	
Development of the Regulatory Framework in Mexico	CARREÑO PADILLA, Ana Lidia	
The Strategic Involvement of Women in Nigeria Nuclear Industry: A Case of Nigeria Atomic Energy Commission (NAEC) and Nigerian Nuclear Regulatory Authority (NNRA)	AINA, Funmilayo	
Evolution of Medical Physicist Speciality in Females in Pakistan (1979-2015 )	ZAMAN, areesha	
More Women, More the Development of the Nuclear Industry	KIM, Byeri	
WIn Argentina: Re Launch of National Chapter and New Activities	SAYAN, JULIETA	
Women in Chornobyl Exclusion Zone	BALASHEVSKA, Yuliya	
International Collaboration in the Development of NPP Software	JIANG, Suqing	

**Posters: Nuclear Applications - Rotunda C (14:00-15:30)**

**All posters will be displayed for the entire duration of the conference.**

**As far as possible, authors are requested to be present at their posters during the coffee breaks as well as during the poster session for discussion with interested participants.**

title	presenter	board
Design of a Cryogenic Distillation Column for JET Water Detritiation System for Tritium Recovery	PARRACHO, Ana Isabel	
Using Numerical Modeling for Assessment of Pollution Probability of Drinking Water Resources in Borjomi Region (Southern Georgia)	VEPKHVADZE, Sopio	
Radiation Therapy in Peru: Achievements and Challenges	GUERRERO, Paola	
Application of Radioactive and Stable Isotopes to Trace Anthropogenic Pollution in the Baltic Sea	LUJANIENE, Galina	
Research and Development of Radiation Processing of Polysaccharide for Agricultural Sector in Myanmar	LAY, Khin Khin	
Development of a Low Energy Compact and Portable Plasma Focus Neutron Source	AIN, Qurratul	
One Step <sup>18</sup> F-Labeling via Isotopic Exchange for the Development of Dimeric Radioligands using SiF-Dipropargyl Glycerol Scaffold	HAZARI, Puja Panwar	
Determination of some Flow Properties of a Clunker Grinding Mill through Radio-Tracing and Residence Time Distribution (RTD) Modeling	AFFUM, Hannah	
Development of Gamma-H2AX Assay for Radiation Biodosimetry: A Model Study in Cell Culture	UTTAYARAT, Pimporn	
Assessment of Significance of Attenuation Correction in Myocardial Perfusion SPECT on Visual Analysis	JADOON, Lubna	
Enhancement of Training Capabilities in VVER Technology through Establishment of VVER Training Academy	ILIEVA, Marinela	
Synthesis, Preclinical Evaluation and Molecular Modeling of DO3A-Butyl Derivative of 1-(2-Methoxyphenyl) Piperazine for Selective 5-HT <sub>1A</sub> Neuroreceptor Imaging	HAZARI, Puja Panwar Hazari	
Enhancement of the Thermoluminescence Response of Thin Films under Ion Beam Irradiation	SHUGA ALDEEN, Thana	
Effective Removal of Hazardous Dyes from Aqueous Solutions using Starch Based Hydrogel and Gamma Radiation	MAHMOUD, Ghada	
Ameliorating Effects of Bone Marrow Transplantation and Zinc Supplementation on Physiological and Immunological Changes in Gamma-Irradiated Rats	ASHRY, Omaira	
Nuclear Applications in Vietnam: Status and Prospects	CAO, HONG LAN	
High Density Monolithic Fuels for Research Reactors: Development and Optimization in U-Mo/Zry-4 Miniplates Fabrication Process	PICCHETTI, Bianca	
The Role of Universitas Gadjah Mada on Forming Public's Perception about Nuclear in Indonesia through Community Services Programs	ROSITA, Widya	
Overview of Nuclear Applications in Nigeria	OGUEJIOFOR, Onyinyechi	
Overview of Twenty Year of Radiation and Tissue Banking Activity in Argentina	KAIRIYAMA, Eulogia	
Optimization of Occupational Exposure during First Operations with F-18 in Cuba	AMADOR BALBONA, Zayda Haydeé	

title	presenter	board
Development and Applications of a New Deuterium-Deuterium (D-D) Neutron Generator	BERGAOUI, Kaouther	
Application of TXRF in Assessing Trace Element Levels in Formulated Indigenous Complementary Infant Flour from Kenya	KILAVI, Pamella	
Assessment of Recharge in Lushnja Aquifer System using Environmental Isotope Tracers	BAKIRI, Iris	
Body Mass Index and Body Composition with Deuterium in Costa Rican Children	SALAS-CHAVES, María del Pilar	
Humidification Dehumidification Spray Column Direct Contact Condenser Part I: Countercurrent Flow	SHOUMAN, Ioula	
The IAEA Technical Cooperation Programme as a Knowledge Multiplier Mechanism for Nuclear Medicine – The Case of the Nuclear Medicine Knowledge Network in Argentina	BELINCO, Melina	
The Peaceful Application of Nuclear Techniques	GILL, Khalida Akhtar	
Self-Shielding Effects in Co-60 Production	NGELEKA, Tholakele	
Preliminary Diagnostic Reference Levels of Adult CT at Aristide Ledantec National Hospital	GNING, Fama	
Gamma Ray Computed Tomography (CT) Technique in Myanmar	LWIN, Khin Ye	
Challenges and Opportunities of Radiotracer and Sealed Source Techniques in Industrial Applications in Myanmar	HLAING, Moe Phyu	
Behavior of the Cardiovascular Diseases in Women	PINEDA TOVAR, MA. AMPARO	
Study of the Therapeutic <sup>186</sup> Re Isotope production via Various Reactions	AVETISYAN, Roza	
The Management of the Solid Radioactive Waste & Used (Spent) Fuel in South Africa: An Overview of Past, Present and Future Practices	MAREE, vanessa	
Radiation Dose to Patients and Medical Staff in Different Procedures of Nuclear Medicine	DIMCHEVA, Milena	
Radionuclide Content of Pasteurized Milk Sold in Mafikeng, South Africa	OLOBATOKE, Roseline	
Complexation Studies of <sup>177</sup> Lu with Ethylenediaminetetramethylene Phosphonic Acid (EDTMP) as a Bone Pain Palliative Therapeutic Radiopharmaceutical	SEPINI, Lebogang Charmaine	
The study of Byzantine Glass Mosaic Tesserae from Albania using Nuclear Techniques	VATAJ, Esmeralda	
Use of Ionizing Radiation in the Production of Nanomaterials	DEL MASTRO, NELIDA	
Effectiveness of the Existing Regulatory Framework in the Control of Medical Exposure in Zimbabwe	RUHUKWA, Primerose	
An Investigation of Partial Volumetric Arc Therapy versus 3D-Conformal Radiation Therapy for Early Stage Larynx Cancer	KODALOGLU, NUR	
Influence of New Contrast Agent on CT Based Radiotherapy Treatment Planning	PETROVIC, Borislava	
Applying Sediment Cores and Nuclear Techniques for Pollution Assessment in the Bonny/new Calabar River Estuary, Niger Delta, Nigeria	OMOKHEYEKE, OMOROTIONMWAN	
Using Gamma Irradiation to Modify Properties of Polysaccharides (Guar Gum)	SAYED, HOIAM	
Unmet Needs in Cancer Radiotherapy in Low to Middle Income Countries	SEONG, jinsil	
An Holistic Approach to Radiotherapy	ARRECHEDERA M., Ligia	

title	presenter	board
The Application of Nuclear Technology for a Better World	ITA, Edemanwan Bassey	
Current Status of Research on the Biological Effect of Low-Dose Ionizing Radiation in Republic of Korea	NAM, Seon Young	
DXA Scan Estimates Cardiac Prognosis in Individuals with Different Body Mass Indices (BMI)	HAIDER, Saima	
Application of Monte Carlo Techniques to Dose Rate Calculations of Gamma Irradiation Facility	■ENTÜRK LÜLE, Senem	

**Posters: Energy, Environment, and Climate Change - Rotunda C (14:00-15:30)**

**All posters will be displayed for the entire duration of the conference.**

**As far as possible, authors are requested to be present at their posters during the coffee breaks as well as during the poster session for discussion with interested participants.**

title	presenter	board
Compartment Modeling of Cesium Movement through Terrestrial-Aquatic Ecosystems in a Forested Headwater in Fukushima	TOWNSEND, Amanda	
Assessing the Atmospheric Pollution of Energy Facilities for Supporting Energy Policy Decisions	MENESES RUIZ, Elieza	
Radioecology and Environmental Decision Support Systems	SEMIOCHKINA, Natalia	
Risk-Informed Reactor Pressure Vessel Structure Integrity Assessment	WANG, Donghui	
Establishment of Standardized Training and Certification of Quality Management Personnel for the Chinese AP1000 Nuclear Power Plants	YU, Mei	
Decision Advisor for Reactor Vessel Nuzzles Maintenance Strategy	ZHANG, Meng	
Effect of Body Size and Food Quality on the Assimilation of 65Zn and 110mAg in Bloody Cockles (Anadara Senilis) from Ghana	KURANCHIE-MENSAH, Harriet	
How is Electricity Generated from Nuclear Power Plant	LAJNEF, Dorra	
The Global Network of Isotopes in Rivers (GNIR): Integration of Stable Water Isotopes in Riverine Research and Management	HALDER, Janine	
Nuclear Engineering Education in Support of Thailand's Nuclear Power Programme	CHANYOTHA, Supitcha	
Project Experiences of the Implementation of the Primary Bleed & Feed System	SANZ, silvia	
Quality Control of AP1000 Nuclear Reactor Construction	WU, xuemei	
Electrical Power System Design and Station Blackout (SBO) Management in Indian Fast Breeder Reactors	NATTAMAI, Vijaya	
Experimental Study on Heat Removal Performance of a Passive Cooling System for the Spent Fuel Pool	XIONG, Zhenqin	
Radioactive Waste Disposal – The Case of Uganda	NAMUJJU, Lillian Donna	
Analysis of Reactor Vessel Upper-Head Small Break LOCA with SPACE Code	KIM, Minhee	
Seasonal Variations in the Structure of Phytoplankton Communities near Nuclear Power Plants	LEE, Sook-Kyung	
Forecast Development of Electricity Supply in the Indonesian Archipelago	SOEDYARTOMO, Tri Murni	
Development of Multi-Alarm Pattern Card for an Effective Selection of Abnormal Operation Procedure in MCR	CHOI, Sun Yeong	
The Investigation of NPP Control and Monitoring Functional Analysis Applied to Functional Displays' Implementation	YAN, Jin	
NPP Equipment Data Management System Based on 3D Model	XU, Jin	
Surface Decontamination Studies of Cs-137 and Sr-85 using Polymer Gel	PHAM, Luong	
Development and Application of Advanced Techniques for Inhalation Dose Assessment in Ambient and Occupational Environments	SAPRA, Balvinder Kaur	
Traces of Sr-90 in the Sediments of the Danube River	KOCADAG, Maria	



title	presenter	board
Conversion of the Public Distrust on Nuclear Power via Corporate Social Responsibility	BAEK, HYERIM	
Safety Analysis for Marine Radiation Leakage Accidents	JANG, MISUK	
Bulgarian INIS Centre - 45 Years Experience	GEORGIEVA, Albena	
Effects of Nuclear Safety Policies, Committees and Equipment on Firms' Nuclear Safety Performance using Structural Equation Modelling	MUKATTASH, Serene	
The Pre-Operational Radiation Dose Assessment of the NPP in Belarus	NIKALAYENKA, Alena	
Radionuclide Release into the Underground Water from Hypothetical Reactor at the New NPP Site in Lithuania	JAKIMAVIČIUS-MASELIENIS, Vaidotis	
To what Extent International Law Constitutes an Appropriate Answer to Nuclear Accidents ?	DURAND-POUDRET, Emma	
Analysis of Competitiveness of PWR Plants and Nuclear Infrastructure in Argentina	CAÑADAS, Valeria	
Argentina's Participation in the INPRO Collaborative Project SYNERGIES	BISCARRA, María del Amparo	
Application of Message Model on the Argentine Energy Planning	PARERA CORDONE, MARIA DELIA	
World Champion in Environmental Sustainability – for How Much Longer?	LONER, Helena	
Revolution of Nuclear Power Plant Design through Digital Technology	ZHANG, Lin	
Research on Operating Procedure Development in View of RCM Theory	SHI, JIN	
Radiological Surveillance of Foods: 10 Years of Contribution to Alimentary Safety	FERNADEZ GOMEZ, Isis Maria	
The Initial Test Program Features for the Advanced Korean NPPs (Shin-Kori NPP Units 3&4)	SUL, Young Sil	
Fire Protection Regulation for NPP in Republic of Korea	HAN, Yu-LEE	
Status of Filtered Containment Venting in Republic of Korea	CHOI, YU JUNG	
Electricity Generation through the Koeberg Nuclear Power Station of Eskom in South Africa	DLADLA, Gelani	
The Experimental Study to Support IVR Strategy	MA, Li	
Certain Problems of Spent Nuclear Fuel Storage in Ukraine	ALYOKHINA, Svitlana	
Effective Uranium (VI) Sorption from Alkaline Solutions using Bi-Functionalized Silica-Coated Magnetic Nanoparticles	CHEN, Xiaotong	

**Posters: Safeguards - Rotunda C (14:00-15:30)**

**All posters will be displayed for the entire duration of the conference.**

**As far as possible, authors are requested to be present at their posters during the coffee breaks as well as during the poster session for discussion with interested participants.**

title	presenter	board
Implementation of Safeguards in Thailand	RUEANNGOEN, Areerak	
Documentation Experiences for Jamaican SLOWPOKE-2 (JM-1) Conversion from HEU to LEU	WARNER, Tracey-Ann	
Measurements Matter in Nuclear Safeguards & Security	AREGBE, Yetunde	
Implementation of Safeguards and Non-Proliferation in Sierra Leone	GEORGE, MARTHA	
The 'Landscape' of Nuclear Safeguards: a Comparative Analysis of the International and Regional Systems	COLUSSI, Ilaria Anna	
Application of Non-Destructive Assay Techniques for Safeguards Purposes in South Africa	MBEDZI, Eva Tshegofatso	
Knowledge Management in the IAEA Department of Safeguards	CARRILLO-DE-FISCHER, Judith MARTINEZ, Jo Dee	
Evaluating National Nuclear Safeguards System Implementation in the Republic of Moldova	MURSA, Elena	
Radiation Protection, Safety and Security Issues in Ghana	BOADU, Mary Boadu	
Regularoty Framework for Safeguards in Nigeria	UTHMAN, AMINA	
Safeguards and Non-Proliferation	IMBIAKPA, Panebi J	
ESARDA - The European Safeguards Research and Development Association	NIEMEYER, Irmgard	
Study for Safeguards Challenges to the Most Probably First Indonesian Future Power Plant of the Pebble Bed Modular Reactor	SUSILOWATI, Endang	
Points for Improvement in Mexican Legislation on Safeguards	MACIEL SÁNCHEZ, Sara	
Improvement of Safeguards Practices in Armenia Through Implementation of Advanced Software	MELKUMYAN, Anna	
Measuring the Return on Investment of Nuclear Security Training: The Case of the WINS Academy Professional Society	BATTISTELLA, Brunelle	
Nuclear Security Education in Morocco	HAKAM, Oum Keltoum	
Safeguards and Non-Proliferation Activities in Myanmar	TUN, KHIN PA PA	

**Closing - Boardroom B/M1 (16:00-17:30)**

time	title	presenter
16:00	Closing	GYANE, Eva (WiN IAEA, President)
16:10	Closing Remarks	PARK, Se-Moon (Win Global, President)
16:20	Closing IAEA	DUNN LEE, Janice (IAEA)
16:30	Transfer to Next Organizer	TBA, TBA (WiN UAE, President)

## Friday 28 August 2015

### **Technical visit to the Atom Museum near Prague (Czech Republic) - (07:00-21:00)**

### **Technical visit to MedAustron Ion Beam Therapy Centre near Wiener Neustradt - (09:00-14:00)**

*MedAustron, a centre for ion therapy and research, is located in Wiener Neustadt in Lower Austria, about 50 kilometers south of Vienna. It is one of the most advanced centres for ion beam therapy and research in Europe. The radiation therapy applied will use protons and carbon ions. The first patient treatment is planned in 2015.*

*MedAustron offers an innovative form of radiation therapy (ion beam therapy) using protons and carbon ions. Compared to conventional radiation therapy, this treatment is able to reduce radiation exposure to adjacent healthy tissue and to spare the tissue behind the tumour almost entirely. Therefore, ion beam therapy is optimum treatment for tumours close to radiosensitive organs such as the brain and spinal cord, eyes, liver and lungs. Since tissue in growth is more sensitive to radiation, proton radiation is particularly suitable for cancer in children and adolescents.*

*At MedAustron, the protons or carbon ions are generated by three ion sources. The charged particles are pre-accelerated in a 'linac' (linear accelerator) on a straight path by electrical alternating fields and are then injected into the synchrotron. In the synchrotron, a circular accelerator with a circumference of 80 meters, the particles are further accelerated until they reach their final velocity of approximately two-thirds of the speed of light, or 200,000 km/s. Finally, the ion beam is conveyed into the irradiation rooms on an 'extraction line'. The particles are held in place within a vacuum tube by strong magnetic fields, generated by 300 magnets in total. The synchrotron has been developed in close cooperation with CERN.*

### **Technical visit to the IAEA's Seibersdorf Laboratories and Nuclear Engineering Seibersdorf - (09:00-15:00)**

*Conference participants will have the opportunity to visit Nuclear Engineering Seibersdorf (NES), an Austrian facility for collecting, processing, conditioning and storing radioactive waste, as well the IAEA's laboratories in Seibersdorf.*

*The IAEA laboratories belong to the Departments of Safeguards, and Nuclear Sciences and Applications. The IAEA laboratories, which are situated about 35 km southeast of Vienna, contribute to the organization's programmes with activities in nuclear verification and varied nuclear applications, e.g. for plant mutation breeding, food safety, animal production and health, soil and water management and crop nutrition, the sterile insect technique, nuclear spectrometry and instrumentation, medical dosimetry and terrestrial environment monitoring. The nuclear applications laboratories provide training in these areas for scientists and also analytical services to support and strengthen Member States' laboratories. In addition, the laboratories conduct applied and adaptive research to develop and improve nuclear techniques and technologies.*

*The Nuclear Engineering Seibersdorf is collocated on the Seibersdorf site. Its main activities, which are*

*carried out on behalf of the Republic of Austria, are the collection, processing, conditioning and storage of radioactive waste; decontamination of the installations and laboratories from 45 years of research and development at the Seibersdorf site; and the operation of the Hot Cell Laboratory.*

### **Vienna City Walk - (09:00-11:30)**

*Guided walk in the city centre, including visit to the Spanish Riding School.*

### **Technical visit to IAEA Incident and Emergency Centre - IEC (09:30-10:30)**

*Conference participants will have the opportunity to visit the IAEA's Incident and Emergency Centre (IEC), which is situated in the VIC. The IEC serves as the IAEA's focal point for responding to nuclear or radiological incidents and emergencies and for promoting improvement in Member States' emergency response and preparedness. The visit will present the activities, infrastructure and communication procedures of the IEC.*

### **Technical visit to Comprehensive Test Ban Treaty Organization - CTBTO (10:00-11:00)**

*The Comprehensive Nuclear-Test-Ban Treaty (CTBT) bans nuclear explosions by everyone, everywhere: on the Earth's surface, in the atmosphere, underwater and underground. Over 2000 nuclear tests were carried out between 1945 and 1996, when the CTBT opened for signature. The CTBT is almost universal but has yet to become law. 183 countries have signed the Treaty, of which 163 have also ratified it (as of September 2014), including three of the nuclear-weapon States: France, the Russian Federation and the United Kingdom. But 44 specific nuclear technology holder countries must sign and ratify the CTBT before it can enter into force. Of these, eight are still missing: China, Egypt, India, Iran, Israel, North Korea, Pakistan and the USA. India, North Korea and Pakistan have yet to sign the CTBT. The last Annex 2 State to ratify the Treaty was Indonesia on 6 February 2012.*

*Since the Treaty is not yet in force, the organization is called the Preparatory Commission for the Comprehensive Nuclear-Test-Ban Treaty Organization (CTBTO). It was founded in 1996, has over 260 staff members from over 70 countries, and is based in Vienna. It is headed by the Executive Secretary, Lassina Zerbo from Burkina Faso. The CTBTO's main tasks are the promotion of the Treaty and the further development of the verification regime so that it will be operational when the Treaty enters into force. The Treaty has a unique and comprehensive verification regime to make sure that no nuclear explosion goes undetected.*

### **Technical visit to IAEA Incident and Emergency Centre - IEC (10:45-11:45)**

*Conference participants will have the opportunity to visit the IAEA's Incident and Emergency Centre (IEC), which is situated in the VIC. The IEC serves as the IAEA's focal point for responding to nuclear or radiological incidents and emergencies and for promoting improvement in Member States' emergency response and preparedness. The visit will present the activities, infrastructure and communication procedures of the IEC.*

## **Technical visit to the TRIGA Mark II Reactor of the Atominstitut, Technical University of Vienna - (13:00-15:00)**

*The TRIGA Mark-II reactor was installed by General Atomic (San Diego, California, USA) in the years 1959 through 1962, and went critical for the first time on March 7, 1962. Operation of the reactor since that time has averaged 220 days per year, without any long outages. The TRIGA reactor is a research reactor of the swimming-pool type that is used for training, research and isotope production.*

*The reactor has a maximum continuous power output of 250 kW (thermal). The heat produced is released into a channel of the river Danube via a primary coolant circuit (deionized~ distilled water at 20–40°C) and a secondary coolant circuit (ground water at 12–18 °C) the two circuits being separated by a heat exchanger.*

*Since the moderator has the special property of moderating less efficiently at high temperatures, the TRIGA-reactor Vienna can also be operated in a pulsed mode (with a rapid power rise to 250 MW for roughly 40 milliseconds). The power rise is accompanied by an increase in the maximum neutron flux density from*

*$1 \times 10^{13} \text{ cm}^{-2} \text{ s}^{-1}$  (at 250 kW) to  $1 \times 10^{16} \text{ cm}^{-2} \text{ s}^{-1}$  (at 250 MW). This negative temperature coefficient of reactivity brings the power level back to approximately 250 kW after the excursion, the maximal pulse rate being 12 per hour, since the temperature of the fuel elements rises to about 360°C during the pulse and, therefore, the fuel is subjected to strong thermal stress.*