

ASWAN 23

12 – 16 November 2023

30th WIN GLOBAL

Annual Conference

ASWAN . EGYPT

*Woman for sustainable development of
nuclear and radiation applications*



ROSATOM




1st ★

First Annual Meeting
of WIN Africa

(organized by IAEA & WIN Africa)

Program

	Sunday 12 Nov	Monday 13 Nov	Tuesday 14 Nov	Wednesday 15 Nov	Thursday 16 Nov			
08:00	Registration opens Cultural Tour: Excursion to Aswan High Dam	Registration						
09:00		Opening Ceremony Conference Hall	Day 1 WiN Africa First Annual Meeting	Oral session on Women for Nuclear Education Conference Hall 08:30 – 09:30	Day 2 WiN Africa First Annual Meeting	Panel Session: Nuclear: a key player on the road to decarbonization HYBRID FORMAT 09-10: 30 Conference Hall	Panel session on Nuclear Technology and the Environment Conference Hall	
10:00				Joint NEA-WiN Global International Mentoring Session: Mentoring Young Professionals in Nuclear		Panel Session Women in Nuclear Across Generations		
10:30		Group Photo	Coffee Break	Coffee Break	Coffee Break	Panel Session Nuclear Medicine in Africa Conference Hall		
11:00								
11:30		Panel Session: A network of experts: WiN Global Groups of Expertise	Cont. Day 1 WiN Africa First Annual Meeting	Joint NEA-WiN Global International Mentoring Session (Cont.)	Cont. Day 2 WiN Africa First Annual Meeting	Panel Session: Evolving disruptive technologies in the nuclear sector	Panel Session Sustainable Development with Radiation Sciences and Technologies	
12:00		Lunch Break Poster Session	Lunch Break Poster Session	Lunch Break Poster Session	Lunch Break Poster Session			
13:00								
14:00		Executive & Board meeting HYBRID RMAT	General Assembly HYBRID FORMAT Conference Hall 14:00-16:30	Cont. Day 1 WiN Africa First Annual Meeting	Panel Session: Need for Inclusiveness in Nuclear	Cont. Day 2 WiN Africa First Annual Meeting	Radiation Protection and Dosimeters	Panel Session Latest developments in Safety, Security and Safeguards (3S) HYBRID FORMAT
15:00			Chapter Report 1	Chapter Report II	Closing Session Best Poster Award WiN Global Awards Ceremony Passing Flag Ceremony Closing Remark			
16:00	Coffee Break		Coffee Break			Coffee Break	Coffee Break	
16:00-	Reception	Filah (Sound and Light	Gala Dinner					
16:30								



Monday 13 November
Opening Ceremony

Speakers to be determined

Monday 13 November

11:30 – 13:00 Panel Session: A network of experts: WiN Global Groups of Expertise

WiN Global Groups of Expertise promote the expertise and vast experience of our membership in various strategic areas of the nuclear sector, with the support of key partners. Each group organizes initiatives and events related to the promotion of vital areas such as decommissioning; emergency preparedness and response; nuclear non-proliferation, safeguards, export controls, and disarmament; innovation; nuclear medicine; nuclear security; radiopharmaceutical sciences and nuclear law.

This session will highlight the main goals and achievements of each group as well as their relevance for boosting partnerships and networking in the nuclear field and beyond, while raising awareness about crucial platforms to enhance their impact and sustainability, such as IFNEC.

Speakers:

- **Khadija Bendam, WiNEPRI**
- **Eva Gyane, WiN for Peace**
- **Adoración Arnaldo González, WiNI**
- **NEA representative (on behalf of Kimberly Sexton Nick), WiNLI**
- **Nouzha Ben Raïs Aouad, WiNMI**
- **Oum Keltoum Hakam, WiNSI**
- **Aruna Korde, WiNRI**
- **Estelle Desroches, WiNDI**
- **Aleshia Duncan, Deputy Assistant Secretary for International Nuclear Energy Policy and Cooperation, Office of Nuclear Energy, U.S. DO**

Moderator: Prof Dr Mary Boadu

Monday

13 November

13:00-14:00 Poster session

01	Effect of nanoparticles on the gamma and neutron radiation shielding behavior of a polyethylene matrix	Stephanie Neira	Chilean Nuclear Energy Commission, Chili
02	Higher Efficiency of Gamma Irradiation for The Degradation of Parquet Aqueous Solution	Malak Bem Salem	National Center for Nuclear Sciences and Technologie, Tunisia
03	The Study On Applications Of IoT-related And Big Data Techniques For Radiation Source Safety Control	Ju-Chuan Huang	Nuclear Safety Commission, Taiwan
04	Value of 18F-FDG MT-PET in the Diagnosis of Large-Vessel Vasculitis	Manale: Otmani	CHU Ibn-Sina, Rabat, Morocco
05	Discovery of 99mTc-Basedol as a novel selective imaging probe for solid tumor: isoelectric replacement - based approach	Basma Eissa	Radioactive Isotopes and Generators, Egyptian Atomic Energy Authority
06	Radiological Safety Assessment for Dental Radiology in Namibia, 2017- 2020	Mercey Mbuend	Ministry of Home Affairs, Namibia
07	The Role of Radiation Technology in improving Food Safety, Security and Quality	Chioma Egwuogu	Nigeria Atomic Energy Commission, Nigeria
08	Aseptic Techniques considered for Lu-177 radiolabeling in the Radiopharmacy Production Labelling Facility	Simphiwe Isaacks	NTP Radioisotopes PTY SOC South Africa
09	Assessing Bulk Hydrogen in Cyanogenic Food Plants Using Neutrons for Routine Quality Control	Keziah Garba	Centre for Energy Research and Training, Nigeria.
10	Molecular and biochemical characterization of <i>Salmonella sp</i> and <i>E. coli</i> isolated from raw milk from the peri-urban sector of Niamey (Niger).	Yacina Salou	LANSPEX, Niger

Momday

13 November

16:30 - 18.00 Chapter Reports I

16:30 – 16:36	Ginette Lama Osako	President of WiN DR Congo	Commissariat Général à l'Energie Atomique
16:36 – 16:42	Soheir Saad Korraa	President of WiN Egypt	Egyptian Atomic Energy Authority
16:42 – 16:48	Mary Bouadu	President of WiN Ghana	Ghana Atomic Energy Commissio
16:48 – 16:54	Winnie Ndubai	President of WiN Kenya	Kenya Nuclear Power and Energy Agency
16:54 – 16:00	Mathapelo Silase	President of WiN Lesotho	Lesotho - Renewable Energy & Energy Access Project
16:00 – 17:06	Khadija Bendam	President of WiN Morrocco	CNESTEN
17:06 – 17:12	Mercey Mbuend	President of WiN Namibia	Centre national de Lutte contre le cancer CNLC Niamey
17:12 – 17:18	Alhousseini Al Hassane Laila	President of WiN Niger	Centre national de Lutte contre le cancer CNLC Niamey
17:18 – 17:24	Chioma Egwuogu	President of WiN Nigeria	Nigeria Atomic Energy Commission
17:24 – 17:30	Beatrice Murorunkwere	President of WiN Rwanda	Rwanda Petit Séminaire Rwesero
17:30 – 17:36	Coumba Thiandoume	President of WiN Senegal	Ministry of Higher Education Research and Innovation
17:36 – 17:42	Delisile Manyoni	President of WiN South Africa	Electricity Supply Commission (ESCOM).
17:42 – 17:48	Beresa Kolou	President of WiN Togo	HU Sylvanus Olympio
17:48 – 17:52	Amira Zouak	President of WiN Tunis	National Center for Nuclear sciences and technology
17:52 – 17:58	Melody Mwewa	President of WiN Zambia	Cancer Diseases Hospital, Lusaka, Zambia

Moderators: Rujeko Lynette Mpandanyama President of WiN Zimbabwe, Radiation Protection Authority of Zimbabwe
Zarina Sayfieva President of WiN Tajikistan, CBRN SSA Agency, Tajikistan

TUESDAY

14 Nov

08:30- 90:30 Oral Session :Women for Nuclear Education

Chair persons

Eunok Han Korea Academy of Nuclear Safety, South Korea

Dr Monda Badawy National Center for Radiation Research and Technology, Egyptian Atomic Energy Authority, Egypt.

08:30 – 08:40	Development of Master’s Program in Nuclear Energy Engineering	Prof. Dr. Ms Puzhen Gao	Vice-dean College of Nuclear Science and Technology Harbin Engineering University, China
08:40 – 08:50	Japan's Movement Toward Improved Gender Balance	Prof Dr. Yukiko Okada	Cabinet Office, Japan Atomic Energy Commission, Japan
08:50 – 09:00	Women in CNPE and Standard study of the technology and safety performance evaluation on ECCS Strainer	Dr Jingmei Zhu	China Nuclear Power Engineering Co, China
09:00 – 09:10	Nuclear Science and Technology Education for Malaw’s Sustainable Development : Challenges and Opportunities	Ms Josephine Nkhula	Malawi University of Business and Applied Sciences, Malawi
09:10 – 09:20	Micro Techniques of Human Resource Planning to Support Capacity Building of Women in Nuclear Science and Nuclear Technology	Ms Dorothy Nakwaku	Ministry of Energy and Mineral Development, Uganda
09:20 – 9:30	Nuclear Advocacy	Ms Adeline Yuego	National Radiation Protection Agency , Cameroon
9:30 – 9:40	Nuclear Science and Technology; Opportunities and Women Empowerment	Dr. Jawaher Al Tuweity	Université Ibn Tofail - Laboratoire de Physique des Matériaux et Subatomique, Yemen
9:30 – 9:50		Discussion	



TUESDAY

14 Nov

10:00 – 14:00 Joint NEA-WiN Global International Mentoring Session: Mentoring Young Professionals in Nuclear

Speakers to be determined

Tuesday
14 November
13:00-14:00 Poster Session

01	Introduction of KEPCO E&Cs SMR Brand BANDI	Young-Sil Sul	KEPCO E&C, South Korea
02	Introduction to a Fact Check Forum on Fukushima Treated Water for Korean Female Scientists	Semoon Park, Sook-Kyung Lee, Eunok Han	WiN-Korea, South Korea
03	Uncertainty Quantification of a Thermo-Mechanical Analyzer	Kwi-Lim Lee	Korea Atomic Energy Research Institute, South Korea
04	Introduction of KHNP's Nuclear Power Plant Construction Experience for African Development	Sook-Kyung Lee	KHNP-CRI, South Korea
05	Introduction to the Radiology Major Curriculum in Korea: Focusing on Daegu Health College	Dr Jongkyung Ko	Daegu Health College, Radiation Safety Management Center, South Korea
06	Development Status of i-SMR	Dr Sanghee Kang	KHNP-CRI, South Korea
07	Operation of General Public Safety Education on Nuclear Power and Radiation	Eun-Kyung Kim	Korea Institute of Nuclear Safety, South Korea
08	Deployment of SMRs in Ghana: Panacea to industrial revolution?	Yaa Anima Opare Appiah	Nuclear Regulatory Authority, Ghana
09	Development of Online Contents for Nuclear Experts to Communicate with the General Public	Eunok Han	Korea Academy of Nuclear Safety, South Korea
10	Construction of Literature Database on Atmospheric Dispersion Experiments and Validation	Sunhee Park	Risk Assessment Research Division, KAERI, YUSEONG-GU, DAEJEON, Korea

**Tuesday
14 November**

14:00 – 15:30 Panel Session: Need for Inclusiveness in Nuclear

Despite general agreement on the importance of diversity, women, while representing over half of the world's population, still remain underrepresented in leadership positions and in decision-making at all levels (UN Women 2020). Nuclear science and technology is no exception: Women still face both evident and invisible obstacles. This session will highlight the main efforts and good practices to strengthen the active and equal participation of women in the nuclear field promoted at global, regional and local levels. It will also boost a dialogue on the main challenges which still need to be addressed in the future.

Speakers:

- **Florence Maher, NEA, Nuclear Future Award Winner 2023.**
- **Delfina Di Lorenzo, WiN ARCAL/ WiN Argentina President**
- **Mary Boadu, WiN Ghana President**
- **Prof. Dr. Ms Puzhen GAO**
- **Khadija Bendam**
- **Rhonda Evans, WINS**
- **IAEA representative**

Moderator: Chigoziri Oge Nwakanma, Nigeria Atomic Energy Commission, Nigeria.

Tuesday

14 Nov

15:30 – 16:30 Chapter Reports II

15:30 – 15:36	Delphina Di Lorenzo	President of WiN Argentina	Argentina
15:36 – 15:42	Huang Guofang	President of WiN China	State Power Investment Corporation, China
15:42 – 15:48	Yoko Kobayashi -	President of WiN Japan	Institute of Information and Communications Technology, Japan
15:48 – 15:54	Sook-Kyung Lee -	President of WiN Korea	Korea Hydro and Nuclear Power Co. Ltd. (KHNP)
15:54 – 16:00	Amal Al Nuaini	President of WiN Barak	Barak Power plant Emirates
16:00 – 16:06	Zarina Sayfieva -	President of WiN Tajikista	Chemical, Biological, Radiological and Nuclear Safety and Security Agency of Tajikistan (CBRN SSA)
16:06 – 16:12	Jawaher Al-Tuweity -	President of WiN Yemen	Centre national de Lutte contre le cancer CNLC, Yemen
16:12 – 16:18	Evgenia Enshina -	President of WiN Russia	Rosatom, Russia

Moderators

Dr Dr Jingmei Zhu, China Nuclear Power Engineering Co, China

Zainab Naddaf, Water Authority of Jordan

Wedneseday

15 Nov

**9.00-10.30 Panel Session: Nuclear: a key player on the road to decarbonization |
HYBRID FORMAT**

The climate crisis is one of the most significant challenges facing humanity today. Its consequences have disproportionate impacts on the most vulnerable groups, especially in regions with more significant gender and economic disparities, given the inequality between men and women regarding their roles, responsibilities, access to necessary support, and participation in decision-making processes.

This session will focus on the urgent need for implementing a collaborative strategic approach to address this complex problem. Through a wide variety of perspectives, it will feature vital efforts to deploy all clean energy technology forms, including nuclear, to support the transition to a Net-Zero solution, as well as coordinated action across multiple industries to reduce emissions beyond electricity generation.

Speakers:

- **Murad Aslanov**
- **Callum Thomas, Thomas Thor**
- **Enobot Agboraw, AFCONE**
- **Joanna Osawe, WiRE**
- **ENEC representative**
- **KHNP representative**

Moderator: Gabi Voigt (WiN Global former President)

**Wednesday
15 November**

10:30 – 11:00 Panel Session: Women in Nuclear Across Generations

Creating bridges between generations has been a key priority for WiN Global for over 3 decades. The youth plays a vital role as a change agent and as driving force for innovation and creativity, while experienced women and senior leaders are essential as role models and mentors by facilitating motivating opportunities for professional development for young women and girls. Through this two-way process, knowledge and experience exchange, remains crucial for boosting the interest in nuclear engineering, science, and other nuclear related professions.

Led by the WiN Global Young Generation Group, this session will highlight concrete, dynamic actions and best practices to engage young women and girls in the nuclear sector by providing them with training resources and learning tools, such as leadership opportunities and mentoring platforms.

**S
peakers:**

Yeonhee Hah, KINS •

Estiner Katengeza, WiN Malawi President •

Adeline Yuego, WiN Global YG Partnerships & Grants Group Lead, WiN Cameroon •

Stephanie Neira, WiN Global YG Communication & Social Media Group Lead, WiN Chile •

Moderator: Muna Al Suwaidi (WiN Global YG, IYNC) •

Wednesday

15 November

13:00-14:00 Poster Session

01	Nuclear power plants as a solution for reducing carbon footprint and achieving Ms Kaja	Kaja Zupancic	GEN energija, d.o.o., Slovenia
02	<i>In Vivo</i> Entrance Dose Measurements using Gafchromic External Beam Therapy-3 Films Dosimeters in Breast Cancer Irradiation with Theratron EQUINOX-100 Cobalt-60 Machin	Fokou Mvoufo	Agence Nationale De Radioprotection, Cameroon
03	Calibration of radiation protection equipment at Kenya Bureau of Standards SSD "	Grace Ateka	Kenya Bureau of standards , Kenya
04	Accident Tolerant Fuel design optimization for SMART Reactor	Sarah Khalil	Nuclear and Radiation Engineering, Alexandria Univ.
05	Your abstract Radiological Safety Assessment for Dental Radiology in Namibia, 2017-2020 "	Mercey Mbuend	Ministry of Home Affairs, Namibia

Wedneseday

15 November

14:00 – 15:00 Oral session: Women in Dosimetry and Radiation Protection

Chair persons:

Eva Gyane

Jawaher Al-Tuweity

Treasure for WiN Global

President of WiN Yemen

14:00 – 14:10	Role of Women to propose innovative solutions for good emergency preparedness	Khadija Pendam	National Center for Energy and Nuclear Science and Technolog, Moroco
14:10 – 14:20	Strengthening Nuclear Security and Non-Proliferation for Newcomer Countries: Challenges and Strategies	Chigoziri Oge Nwakanma	Nigeria Atomic Energy Commission, Nigeria
14:20 – 14:30	Development and Applications of Multi-scale Dosimetry with Chinese Reference Phantom Library	Rui Qiu	Tsinghua University, P. R. China,
14:30 – 14:40	<i>PUM1</i> and <i>PGK1</i> are favorable housekeeping genes over established biodosimetry-related housekeeping genes such as <i>HPRT1</i> , <i>ITFG1</i> , <i>DPM1</i> , <i>MRPS5</i> , <i>18S rRNA</i> , and others after radiation exposure	Razan Muhtady	Bundeswehr Institut for Radiobiology, Germany
14:40 – 14:50	Preliminary diagnostic reference level of radiation dose in coronary angiography and intervention in Senegal	Adji Yaram Diop	Oncology Department, Hospital Aristide Le Dantec, Senegal
14:50 – 15:00	Addressing the Plight of Breast Cancer Patients in Zimbabwe	Rujeko Lynette Mpandanyama	Radiation Protection Authority of Zimbabwe, Zimbabwe



**Wednesday
14 November**

15:00 – 16:00, Panel Session: Evolving disruptive technologies in the nuclear sector

Disruptive digital innovations, such as artificial intelligence, additive manufacturing, machine learning, advanced robotics, among others, have been playing a significant role in the promotion of the peaceful uses of nuclear science and technologies.

The session will highlight both opportunities and challenges posed by the application of these disruptive technologies in different areas of the nuclear field. In addition, it will boost a dynamic conversation to think forward and explore potential spheres for international and regional collaboration.

Speakers:

Jhansi Kandasamy, INL •

Amparo Soler, NFQ •

WiN Middle East representative •

NEA Representative •

Thursday

16 November

9:00-10:00 Oral session: Nuclear Technology and the Environment

Chairpersons:

Prof Dr Amany Raafat

National Center for Radiation Research and Technology, Egyptian Atomic Energy Authority, Egypt.

Mercey Mbuend

Ministry of Home Affairs, Namibia.

09:00 – 09:10	Neutron activation analysis assessment of heavy/ trace elements pollution in Port Sudan, Red Sea using scleractinian corals.	Safa Abdo	Cairo University, Department of Physics, Egypt
09:10 – 09:20	Radiation Treatment of Polluted Water and Wastewater: A Key for Water Resource Management	Amira Zaouak	National Center for Nuclear sciences and technology, President of WiN Tunisia, Tunisia
09:20 – 09:30	Status of ¹³⁷ Cs Radiation Dose Exposure to Marine Organisms in the Territorial Waters of Indonesia	Wahyu Retno Prihatiningsih	National Research and Innovation of Agency (BRIN), Indonesia
09:30 – 09:40	A Concise Review Of Radon and Radon In Ground Waters In Jordan: A Case Study	Zainab Naddaf	Water Authority of Jordan
09:40 – 09:50	Assessment of Radioactive Waste Management in Three Major Hospitals in Malawi	Annie Banda	Malawi Bureau of Standards, Malawi
09:50 – 10:00	Climate Change and Sustainability	Mathapelo Silase	LREEAP, Department of Energy, Lesotho

Thursday

16 November

Chairperson:

10:00-11:00 Panel Session Nuclear Medicine in Africa

Prof Dr. Soheir Korraa National Center for Radiation Research and Technology, Egyptian Atomic Energy Authority, Egypt.

Dr Monda Badawy National Center for Radiation Research and Technology, Egyptian Atomic Energy Authority, Egypt.

10:00 – 10:10	F18 PsmA in Metastatic Castration Resistant Prostate Cancer	Prof Dr Walid Diab	Department of Oncology and Nuclear Medicine Faculty of Medicine, Assuit University, Egypt
10:10 – 10:20	Why do we need Lutetium-PSMA therapy	Prof Dr Yehya Omar	Department of Oncology and Nuclear Medicine Faculty of Medicine, Ain Shams University, Egypt
10:20 – 10:30	Radiotherapy in Niger: Assessment of 14 months of Activities	Alhousseini Al Hassane Laila	Centre national de Lutte contre le cancer CNLC Niamey, Niger
10:30 – 10:40	A new training approach for radionuclide therapy and diagnostic in Central Africa	Dr Fany Pricile Eukoume	Yaounde General Hospital Cameroon
10:40 – 10:50	Modern Approaches for Breast Cancer Radiotherapy	Faustina Ntim Opoku	Tomsk Polytechnic University, Russia
10:50 – 11:00	Introduction of positron emission tomography Radiopharmaceutical manufacturing in the first public hospital in East Africa.	Elizabeth Itotia	Kenyatta University, Teaching, Referral and Research Hospita, Kenya
11:00 – 11:10	Regadenoson compared to other pharmacological stressors used in myocardial perfusion imaging (MPI) at the Department of Nuclear Medicine at a Tertiary, Academic Hospital in Gauteng, South Africa	Ms Rita Sakala	University Teaching Hospital, Zambia
11:10 – 11:20		Discussion	

Thursday

16 November

14:00 – 15:00 Panel Session: Sustainable Development with Radiation Science and Technology

Since its foundation, WiN Global's vision has been to be a forum for raising awareness about the essential contributions of the peaceful uses of nuclear energy and radiation applications which have achieved a tangible, sustainable impact in key areas, such as Agriculture & Food Safety, Medicine & Health, Industry, Environment, Cultural Heritage, among others.

This session will highlight the key role of radiation sciences and technologies in our daily life by raising awareness about relevant initiatives in these areas, mainly developed in the African region.

Speakers:

- **Fany Pricile Ekoume, Hôpital général de Yaounde, Cameroon**
- **Chioma Egwugu, NAEC, Nigeria**
- **Zainab Naddaf, Water Authority of Jordan**
- **Amira Zouak, National Center for Nuclear sciences and technology, President of WiN Tunisia, Tunisia**
- **Katarina Marusic, Ruder Boskovic Institute, Croatia**

Moderator: Prof Dr Soheir Korraa, Egyptian Atomic Energy Authority, Egypt.

Thursday

16 November

**15:00 – 16:30 Panel Session: Latest developments in Safety, Security and Safeguards (3S)
| HYBRID FORMAT**

The integration of the 3S principles (nuclear safety, security and safeguards) is vital to ensure that nuclear energy is used solely for peaceful purposes, in a safe and secure manner, preventing the proliferation of nuclear weapons. 3S is a comprehensive approach to managing the risks associated with nuclear technology and materials. Advanced reactor safety, advancements in nuclear safeguards technologies, developments in cyber and nuclear security, radiological safety and emergency response are some of the areas have witnessed new approaches recently. This session will focus on the latest developments in 3 S, including some of the opportunities and challenges.

Speakers:

- Elena Sokova, VCDNP Executive Director**
- Mark J. Schanfein, INMM**
- Agostina Serrano, WiN Argentina, WiN for Peace member**
- Zarina Sayfieva, WiN Tajikistan President**
- Chigoziri Oge Nwakanma, WiN Nigeria President**

Moderator: Eva Gyane (WiN for Peace Leader)



**Thursday
16 November**

16:30 – 17:30

Closing Ceremony

**Best Poster Award
WiN Global Awards
Ceremony
Passing Flag Ceremony
Closing Remark**