Contents

HEADLINE ............................................................. 2
WHAT’S NEW? .......................................................... 2

THE WORLD OF WiN.................................................... 3
  WiN Argentina ...................................................... 3
  WiN Australia ........................................................ 4
  WiN Brazil ............................................................. 4
  WiN Bulgaria .......................................................... 5
  WiN Canada .......................................................... 8
  WiN China ............................................................. 8
  WiN Europe .......................................................... 10
  WiN France .......................................................... 10
  WiN Germany ......................................................... 12
  WiN Hungary ........................................................ 12
  WiN Japan .............................................................. 13
  WiN Kazakhstan ...................................................... 14
  WiN Korea ............................................................. 15
  WiN Mexico ........................................................... 17
  WiN Spain ............................................................. 18
  WiN Turkey ........................................................... 21

CELEBRATING SUCCESS ............................................ 24

MARK YOUR CALENDARS .......................................... 25

PRESIDENT’S CORNER ............................................... 25
HEADLINE

WiN Global Declaration for the Earth Climate in the COP21 (p. 2)

2016 WiN Global Board Meeting and 2016 Communication Workshop (p. 2)

WiN Europe Published a new journal ‘the Strategic Trade Review’ (p. 12)

WiN Spain celebrates 20th Anniversary (p. 18)

Season’s Greetings (p. 31)

WHAT’S NEW?

2016 WiN Global Board Meeting
will be held in London at the WNA offices at 9.30am on 16 March 2016.

2016 WiN Global Communication Workshop organized by WiN UK
will be held in London on 16 March 2016. The programme and venue details will be available shortly.

WiN Global Declaration for the Earth Climate
Was presented at the COP21 Exhibition of low carbon solutions (La Galerie des Solutions de la COP21) from 2nd to 9th December 2015 at the air and Space Museum-Paris le Bourget, France. Many Women in Nuclear experts participated in the Exhibition for dialogue with visitors about the role of nuclear against earth climate change. WiN Global supported the nuclear associations and societies from all over the world who launched an initiative called “Nuclear for Climate” to bring it to the COP21. The COP21 has ended successfully with proposals for the urgent need for more nuclear energy. More information about the COP21 can be found at http://www.sfen.org/en/nuclear-for-climate
http://www.scoop.it/t/nuclear-for-climate

The 3rd Canadian Conference on Nuclear Waste Management, Decommissioning and Environmental Restoration (NWMD&ER)

The Canadian Nuclear Society (CNS) will be hosting The 3rd Canadian Conference on Nuclear Waste Management, Decommissioning and Environmental Restoration (NWMD&ER), Sept. 11-14, 2016 at the Ottawa Marriott Hotel in Ottawa, Ontario, Canada.

The conference provides opportunities for the sharing and exchange of ideas and views, information and experience among specialists, managers and a broad range of subject experts in industry, government, community, Aboriginal and Métis communities, and other key stakeholders.

The success of the technical program depends strongly on your support and participation. Please submit technical papers (information available at http://nwmder2016.org/author.html and encourage your friends, staff and colleagues to do the same. Feel free to contact us if you have any questions or suggestions. Deadline for on-line abstract submission is Jan 15, 2016.

Important Dates:
Online submission of abstracts...........Jan 15, 2016
Notification of acceptance of abstracts...Mar 01, 2016
Online submission of draft full papers....May 01, 2016
Notification of acceptance of full draft...Jun 15, 2016
Receipt of final full papers...................July 06, 2016

The Women Higher Education for Peace Vienna Forum

Disarmament and Non-Proliferation: why should I care?
Explore new concepts and career opportunities on peace and development at the Women Higher Education for Peace Vienna Forum, an annual event aimed at encouraging more women, particularly from the global south, to enter the fields of disarmament, non-proliferation and development.

On 5 and 6 July 2016, the first Vienna Forum will bring together professionals from international organisations, private sector and think tanks actively working in these areas, including the IAEA, CTBTO, OSCE, OPCW, a great number of participants and speakers from academia, the scientific community, as well as the civil society.

The highlight of the Forum will be a Job Fair, showcasing new and promising tools and professional opportunities on peace-related fields, building bridges between the different actors in the various fields.

A total of 30 full scholarships will be made available for early career professionals from the global south to travel to Vienna in order to encourage more women to attend the Forum. A wide range of skills, knowledge and experiences will be considered to select a pool of diverse professionals representing various expertise: from academia, media, the national/international civil servants to science. The latter including fields such as human health, food production, geology, environmental protection and a host of other professions related to peaceful uses of nuclear technology.

Application for scholarship will open in March 2016. For details on scholarship application requirements and on the Vienna Forum please contact UNODA Office at Vienna dnpe@unvienna.org

THE WORLD OF WiN

WiN Argentina

The XLII Argentinian Association of Nuclear Technology Annual Meeting

On December 3rd WIN Argentina held a meeting during the XLII Argentinian Association of Nuclear Technology Annual Meeting. Three members presented a summary of the WiN Global Conference and the IAEA’S gender policy. Over 30 women participated and decided to join the Chapter.
The new Facebook page was launched that same day. You can all follow us at facebook.com/womeninnucleararg

WiN Australia

ANSTO has run a number of sessions on Gender Equity

During November as part of the value of “trust and respect” the Australian Nuclear Science and Technology Organisation (ANSTO) has run a number of sessions on Gender Equity. One of these events was a women’s networking lunch held on 13th November 2015. Many members of Women in Nuclear Australia are employees of ANSTO. ANSTO has a female workforce that comprises approximately 29% of the total workforce. As a way for women to create more contacts with each other, ANSTO held a lunch, sponsored by the CEO Dr Adi Paterson, on Friday 13th November to help “strengthen women’s networks”. All female staff on the site were invited to attend and over 130 (plus a few children) attended and connected. This was a chance for many of the women who don’t know each other or may work in isolation to make new networks.

But they worked for their lunch, answering questions around challenges they face, the kinds of events they want to see and what equity means to them. As part of the day, all attendees were able to sign up to Women in Nuclear which has resulted in more than 60 new members for Women in Nuclear Australia. Those in attendance also had an opportunity to meet and listen to Kate Aitken, Managing Director, Human Capital Management for Asia Pacific at Goldman Sachs who has been involved in their successful gender equity programs for many years. She is a member of Chief Executive Women and was an implementation leader for the CEO of Goldman Sachs in Australia in the Male Champions of Change program.

Women in Nuclear Australia will be working with the ANSTO Gender Equity team in 2016 to deliver a program of mentoring and networking events to further strengthen the professional development and opportunities for the women in Australia who work in nuclear.

L-R Jo Lackenby (WiN Australia President), Samantha Arkapaw (ANSTO Gender Equity Team, WiN member), Karen Wolfe (ANSTO Gender Equity Team, WIN member), Kate Aitken (Managing Director Goldman Sachs).

WiN Brazil

International Nuclear Atlantic Conference 2015

The Brazilian Nuclear Energy Association - ABEN promoted the seventh International Nuclear Atlantic Conference - INAC 2015, held at the Centro de Convenções Rebouças in São Paulo, the capital city of the state of São Paulo, southeastern Brazil, October 04 to 08, 2015.

The theme of the event was The Brazilian Nuclear Program: State Policy for a Sustainable Development. Most members of WiN Brazil are also members of ABEN. The Conference comprised three independent, but complementary, technical meetings: The XIX Meeting on Nuclear Reactor Physics and Thermal hydraulics (ENFIR), the XII Meeting on Nuclear Applications (ENAN) and the IV Meeting on Nuclear Industry (ENIN). Jointly, the sixth
edition of the Junior Poster Technical Sessions was organized for undergraduate students from a number of colleges and universities to share with the participants the relevant results achieved in their research work under the supervision of nuclear researchers from Brazilian Institutions.

The ExpoInac, the traditional technical and commercial exhibition, run alongside the INAC 2015, offering the opportunity to network with the delegates, enhance relationships with existing customers and meet new ones, demonstrating products or services, launch new products, and seek international partners forming new alliances.

The WiN – Bulgaria Association was represented with 2 reports and 1 poster. Special interest was provoked by the report of Mrs. Ralitsa Radneva - Women in Nuclear Energy – Motivation and Prospects at Kozloduy NPP. Mrs. Diana Dimitrova delivered information on the KNPP achievements related with operating experience. The poster of Mr. Nikolay Bonov familiarised the attendees with aspects of KNPP emergency planning and emergency preparedness.

The Conference approved an Open Letter to the political and state leaders. The main focus of the conference uniting all the participants affirmed that:

“We can develop nuclear energy. We put our efforts towards its safety. Nuclear power will ensure higher quality of living and secure energy supply. It is a reliable and environmentally friendly energy source that for decades has provided over 30% of the national energy generation, which forms a basis of a low-carbon energy mix on the market.”

**WiN-Bulgaria Organized "DONATE A BOOK" Campaign**

November 1 - Day of National Leaders. Festival

**WiN Global Quarterly Magazine**
dedicated to the work of scholars, educators, fighters for national liberation, preserving the values of the nation. This day is also celebrated by Bulgarian scientists since the year 1909.

In connection with this WiN - Bulgaria, organized a campaign to collect and donate books to the community centers in the region. The donated books (more than 350) will be read both by the youngest visitors of the community centers libraries and by elder ones. Readers will be able to enjoy fiction and technical literature related to nuclear energy.

The Declaration forms part of the contribution of women professionals to the global initiative 'Nuclear for Climate', launched in 2014. Members of WiN-Bulgaria collected 617 signatures of people who strongly agree that nuclear energy plays a key role in the success of the fight to preserve and protect the climate of our planet Earth.

Nato Conference

Representatives from WiN-Bulgaria were invited and took part on 27th and 28th October in the conference WOMEN, PEACE AND SECURITY: WHAT THEY DO, WHY IT MATTERS, organized by the Atlantic Club of Bulgaria and the Bulgarian Armed Forces Women Association.

The conference participants discussed the following issues:
- Role of women in security and defense-specific human potential in capacity building,
- Resolution 1325-bulgarian perspectives,
Success stories of women inclusion in peacekeeping operations and responsibility to protect women and girls in the conflict and post-conflict stages.

Competitions held in Varna and Kozloduy

FIRST ACTIVITY OF THE LATEST WIN - BULGARIA MEMBERS FROM VARNA

In connection with the celebration of the Medical Physics International Day, members of WIN - Bulgaria at the department "Physics and Biophysics" (Varna Medical University) organised a competition with the assistance of WIN - Bulgaria and the Varna section of the Bulgarian Nuclear Society.

The competitors included first-year students reading "Medicine" and "Dentistry". The students demonstrated high knowledge and were assessed by their teachers and independent medical physicist at the St. Marina Hospital. Questions were put both to the participants and the audience.

For undergraduates, a competition was announced for presentations on topics regarding the application of medical physics in the speciality subjects of "Medicine", "Dentistry" and "Medical Lab Assistant".

WIN-Bulgaria provided the prizes for the winners, while all the participants were awarded Certificates of Participation.

ELEVENTH EDITION OF THE STUDENTS THEME NIGHT: 'NUCLEAR ENERGY – SAFE, RELIABLE, SECURE AND CLEAN'

The event was organised by the WiN-Bulgaria Association and held on 26 November 2015 under the patronage of Kozloduy NPP. The contestants from six secondary schools demonstrated their knowledge on the theme. The jury assessed the participants in three successive rounds.

At the beginning, the young people acted as advocates of the Bulgarian nuclear energy in an improvised court hearing.

In the second round the teams solved crosswords with atomic energy terminology. The third round was also attractive – a fashion show of protective work clothes.

The teams received awards in different categories. Announcements were also made of the winners among the young school students in the competitions for a thematic essay, brochure or picture.

The Kozloduy Nuclear Power Plant arranged a special visit on-site for the students from the six teams and the teachers who had prepared them.
Over 190 participants and guests from 40 different organizations enjoyed the hospitality of the WiN-Durham Chapter and Ontario Power Generation, who hosted our 12th WiN-Canada Annual Conference in Ajax, Ontario in November 2015.

The theme of the 2015 conference, Linking the Nuclear Family: Past, Present and Future allowed our WiNners to gain a sense of where the industry began, where it is headed and how to flourish in a change environment to better position themselves for future success.

With attendees arriving from across Canada, our planning committee worked hard to ensure that everyone enjoyed themselves. Featured highlight for WiNners included a treetop adventure, curling lessons, museum tours, two networking receptions and technical tours of Darlington, Pickering, GE Hitachi, Rolls Royce and the University of Ontario Institute of Technology. The most talked about event was the pulsating rhythm of the Drum Café who helped us wrap up the conference at our closing dinner.

We could not create such excellent conferences and events without the ongoing dedication of our WiNners! We would like to thank the organizing committee and speakers who volunteered many hours of their time to help achieve WiN's goals of helping women to succeed in the industry through initiatives such as mentoring, networking and personal development opportunities. A special thank you to all our sponsors who play a key role in WiN-Canada's continued success.

During the 2015 Academic Conference of the China Nuclear Society (CNS), the WiN-China General Assembly and “Women’s Forum”, themed “Role and Status of Women in the Development of Nuclear Science and Technology”, was held. This is the first time that WiN China has held this forum.

Qiu Ai’ci, honorary director general of CNS and academician of the China Academy of Engineering chaired the forum. She said the first “Women’s Forum” of CNS was of great
significance. First, women have become an important work force in the field of nuclear science. Women should have their own stage to perform and have chances to express their views. Second, this forum is a preview of the 2017 WiN Annual Conference for which we have successfully bid. Third, this forum may produce positive effects on women working in the field of nuclear science and technology across the country. To realize “the Dream of a Strong Nation”, we should, first of all, improve the sci-tech quality of people, in particular, the quality of women. Therefore, this Women’s Forum is very important and necessary.

During the forum, Pan Chengfeng, executive director of WiN-China and General Manager of State Nuclear Power Plant Service Company delivered a report on *The Work of WiN China*.

Sang Ge, a doctoral supervisor of the China Academy of Engineering Physics, delivered a report called *Sincere Dedication to National Defense*, in which she shared her 27 years of working experience in the nuclear scientific research sector. Gao Puzhen, associate dean of the College of Nuclear Science and Technology, Harbin Engineering University, delivered a report called *Nuclear Education and Life*. Lan Xiaoli, executive director of WiN-China and deputy director of the Nuclear Medicine Department, Wuhan Union Hospital affiliated of Tongji Medical College, Huazhong University of Science and Technology, delivered a report called *Introduction to the Status Quo of Nuclear Medicine Development in China*. Guo Hongxia, a research fellow of Northwest China Nuclear Technology Research Institute, delivered a report called *Following Malan Spirit and Dedicating to Science and Technology*, in which she introduced those outstanding women undertaking arduous scientific research in obscurity. Shang Yuanyuan, a senior operator (known as the “goldman”) from the Overhauling Department, Operation Division of Sanmen Nuclear Power Company, Ltd., delivered a report called *Women Working in Nuclear Power Stations*, in which she introduced her personal growth and her work and life in nuclear power stations with lots of pictures.

When delivering concluding remarks, Ms. Qiu Ai’ci said that she felt very glad to see the growth of many young female nuclear scientists, who have been inheriting the fine traditions of China’s nuclear development course. The path forward for WiN-China is to host the 2017 WiN Annual Conference, and to enable Chinese women in the nuclear field to show to the world their competence and charisma. The Women’s Forum shall be formulated as a regular mechanism to better respond to the *Initiative on Promoting Nuclear Power Development in China* put forward at WiN-China General Assembly.

Shen Lixin, CNS deputy secretary, and Qin Zhaoman, head of the CNS Academic Department have sent their congratulations upon the success of the Women’s Forum as well as their heart-felt tribute to the outstanding women working in the field of nuclear science and technology.
In September 2015, the first issue of the new journal, the Strategic Trade Review was published. The journal publishes high-quality, peer-reviewed articles that deal with, among its principle topics, nuclear export controls, nuclear technology and nuclear trade in the context of the complex field of trade and security. Articles from the first issue dealt with, for example, the challenge of 3D printing to nuclear export controls, compliance of the nuclear industry with relevant international and national laws, trade analysis, and the complex issue of intangible transfers of nuclear technology.

Globalization, complex supply chains, security threats, and new international legal instruments have placed the topic of strategic trade controls at the forefront of nuclear non-proliferation and broader security discussions. Concurrently, research interest in the field has increased worldwide as more questions are being asked regarding how to tackle new challenges, especially with regards to trade controls as a non-proliferation instrument. Due to the global nature of field, the journal aims to attract contributions from around the world in order to publish analysis from as diverse a base as possible. The journal is open source and the first issue is available for download at http://www.esu.ulg.ac.be/str. The journal is currently accepting manuscripts for future issues on a rolling basis.

2015 Fem’Energia Award

Since 2009, EDF, WiN (Women in Nuclear) France and WiN Europe have been working closely together to organise a special award, the "Fem’Energia Award", which aims to recognize the exceptional contribution made by female students and professional women to nuclear activities in France and Europe. The number of applicants has been increasing steadily from the very beginning.

The awards concern more than 20 young students, PhDs or women already engaged in professional life.

The 2015 fem’Energia award ceremony took place on the 15th of October

For the women working in Europe:

- the first prize: Mariana ASINARI (MOTT MC DONALD)
- the second prize: Heather HALE (EDF Energy)
• the third prize: Maria FLORESCU (RATEN CITON)

For the women working in France:

• the first prize: Emmanuelle ALIGNY – CNPE de Cattenom
• the second prize: Delphine GLACHET – CNEPE
• the third prize: Stéphanie WILLEMIN – Areva NC Malvési

On this occasion, a round table was organized on “Nuclear for Climate”.

The participants were Cécile Laugier (Director of SEPTEN - EDF), Malgorzata Tkatchenko (CEA, Scientific Director), Valérie Faudon (Delegate General SFEN) and Dominique Mouillot (President WIN France). They had the opportunity to emphasize the interest of women on climate change and the fact that nuclear is part of the solution as stated in the declaration for climate signed by WIN Global members.

**WIN France award**

The 2015 WIN France award was presented by Dominique Mouillot along with Cécile Laugier, 2014 Price WIN France to Isabelle Tanchou, Deputy Director of Maritime Affairs, Department of Maritime Affairs

**WIN France General Meeting**

The annual general meeting of WIN France took place on the 13th of November, near the Tricastin site. It was chaired by Dominique Mouillot (WIN France President) with the presence of the board including our regional presidents.

Due to the tragic events in Paris, the visits of the Tricastin EDF and AREVA units were replaced by a very complete and interesting presentation by Nathalie Bonnefoy, Directrice of Communication, AREVA Tricastin.

WIN France has been busy again in 2015. Among all, we can focus on: the preparation of the declaration “Nuclear for Climate” signed by WIN Global members this summer, the Fem’Energia award in October and many regional actions including partnership with schools.

This meeting was also the occasion for Anne-Marie Birac, in charge of Communication for WIN France to hand over the role and introduce Isabelle Poli.

Isabelle Poli (EDF) and Anne-Marie Birac (retired from CEA) – new and former managers of communication of WIN France
WiN Germany held the 2015 General Assembly (GA) on November 26th and 27th at AREVA’s premises in Erlangen. On the first day, the participants were invited to a tour through several laborites, the I&C test facility as well as the radiochemical lab. This was followed by the presentation “The Energy Turnaround – Markets and Companies in Transition” given by Frank Apel, head of Sales Central Europe & Nordic Countries at AREVA.

The Technical Managing Director of AREVA Germany, Stefan vom Scheidt, welcomed the WiNners to their General Assembly on the 27th.

WiN Germany President Jutta Jené and the heads of the various working groups reported about actions and highlights of the WiN Germany activities in the past year. Currently, 200 women are members of WiN Germany.

The German WiNners were very delighted that Gabi Voigt from WiN IAEA joined the meeting. Gabi summarized the WiN Global Congress in Vienna and an outlook on Abu Dhabi 2016 was given. The issue of education is an important mission of WiN Germany. For the fifth time, the Participants at the WiN Germany General Assembly WiN Germany prize for the best scientific work was awarded which was one of the highlights of the GA.

Emilia von Fritsch - Karlsruhe Institute for Technology - is this year’s winner. She succeeded with her Bachelor thesis on “Numerical Studies of a Disperse Multiphase Flow in a Separation Filter” followed by Özlem Yilmaz - Institute of Nuclear Technology and Energy Systems Stuttgart - and her master thesis on „Containment Event Tree for the Level 2 Probabilistic Safety Assessment of EU-ABWR - Comparison with the CET for ESBWR and Development of Selected Split Fractions“.

Jutta Jené congratulates WiN Germany Prize Winner Emilia von Fritsch (left); on the right, runner-up Özlem Yilmaz

The GA 2015 closed with a basic discussion of the participants about the future of WiN Germany under the given circumstances of the German nuclear phase-out. Many ideas were collected and activities initiated.

WiN Hungary

The visit of the Hungarian Interim Spent Fuel Storage Facility
The best way to get assured of the safety of a nuclear site is going there, seeing it with one’s own eyes, making questions and receiving valid information from the competent professionals working there.

This is the reason why WiN organizes visits to the nuclear sites of the country on a regular basis. We have already been to the National Radioactive Waste Repository in Bátaszáll and organized an open day in the Nuclear Power Plant of Paks. This year’s destination was the Interim Spent Fuel Storage Facility.

The event was scheduled for the 9th of October 2015 and was promoted amongst the members of the Hungarian Nuclear Society. (WiN is a subgroup of the Hungarian Nuclear Society.)

20 people applied in total for the event, out of which 5 were WiN members. We consider the ongoing training and education of the WiN members crucial, as they have to be able to provide up-to-date and valid information on the topic of nuclear energy when communicating with the public.

The visit to the storage facility was arranged in two groups. Eigner Tibor, the nuclear fuel storage manager and Fazekas Károly operational manager provided guiding the groups on a high professional level.

The event was very successful, the participants got a deeper insight into the topic through the valuable information they received. Next year we are planning to visit the Radioactive Waste Treatment and Disposal Facility in Püspökszilágy, the location of reception and disposal of low- and intermediate-level radioactive wastes of non-nuclear power plants with origin in Hungary.

WiN Japan

All-Female Town Meeting

WiN-Japan held an all-female town meeting on the 8th of October to teach how we generate electricity, which is absolutely essential for our daily life, and to consider the primary energy supply structure in the near future.

Twenty-nine females from the public and eight members of WiN-J attended the meeting.

First, we visited the Yokohama Thermal Power Stations of TEPCO. It uses two types of generation systems, “steam power generation system,” which burns LNG in a boiler to produce steam from water that turns a turbine generator, and “Advanced Combined Cycle (ACC),” which combines steam power generation and gas turbine generation systems to reduce CO2 emissions and increase efficiency. A participant asked how TEPCO prepares to protect the plants against earthquakes and tsunamis.

Next we visited the Futtsu Solar Power Plant in...
Futtsu city, Chiba prefecture. The plant has 160,000 solar photovoltaic panels and provides about 11,500 households with electricity. The participants looked overwhelmed by the sight of the solar panels spread out in front of them. Many of them hoped for the greater development of solar power technology. At lunch we enjoyed the seafood barbecue buffet at a restaurant near the sea.

After lunch, WiN-J gave the participants information on energy, including history, usage and generation systems both in Japan and around the world. Then, the participants and WiN-J discussed, in small groups, the most suitable power supply structure leading up to 2030. We exchanged various ideas based on cost, safety, self-sufficiency ratio, and reflections on the most efficient use of energy compared to current energy usage. Finally, each group presented about the most suitable power supply structure that we had come up with. We had a great day!

WiN-Japan supported a student meeting where students gave their thoughts about the Japanese energy system in the near future, after they had visited the reprocessing facilities of Japan Nuclear Fuel Ltd. and Ohma Nuclear Power Plant of J-Power in Aomori prefecture on the 21st of October. Twenty-nine students, three professors, and the president of WiN-J participated in this meeting at the Hakodate campus of Hokkaido University of Education. They discussed and reported on the theme, the energy supply and usage in the future.

The main ideas and opinions were as below:

- It is necessary to educate students about energy usage and to develop renewable energy for the future.
- We must choose the most suitable generation system for the location and its circumstances.
- It is important to mitigate emissions of CO2 and gain in the usage of renewable energy.
- It is necessary that both the government and companies collaborate with each other to push forward the best power supply structure by considering the various viewpoints available today.

WiN Kazakhstam

Any sandpiper is great in his own swamp

Once again, senior students from Shieli district welcomed the team of Nuclear Society of Kazakhstan and RU-6 LTD experts. The NSK jointly with RU-6 LTD gave informative lessons for Shieli students. This year, the classes were held at school gymnasium No. 45 Ak Orda and at grammar school No. 252 named after G.N. Kovtunov.

Pupils listened closely to Alzhan Bakhyt, highest-grade teacher, who told them about the very urgent jobs in uranium mining as geologist, surveyor, hydrogeologist, engineer, metallurgist and electrical fitter. Various group exercises consisting of 5-6 students helped them to consolidate the theory. What's more, the teenagers prepared papers for their collages...
presenting the most interesting and important jobs in their view.

“Such meetings are very informative and useful for us”, - 10th-grade student Kuanish Bekeshev said afterwards.

Hand-outs, including an information brochure “Radiation among Us” issued in Kazakh and Russian languages, as well as animation film “Construction of a Nuclear Station in 5 Minutes”, kindled teenagers’ interest. Simple colorful drawings and animation were clear and understood by all.

“We have already noticed when students themselves are involved in selecting their future life they begin by gaining useful insight. For example, by making an analysis of students’ work we’ve got better understanding of their perceptions about the job of a geologist which they imagine as hard work with a pickaxe. At the same time, students have a good explanation of that, for example geologists first take bearings in the locality; Electricians bear great responsibility for the entire enterprise and for his life because he works with voltages ranging from tens to 10,000 volts. Teenagers understand that all of our production workers should strictly observe safety rules and radiation safety rules; wear personal protective equipment, and so on. We regularly held such meetings in our district”, - Saltanat Akyrbekova, HR Head, RU-6 Ltd summarized.

This kind of activity in Shieli district resulted in the fact that 50% of graduates last year entered national mining universities having chosen specialties needed for the uranium mines. As the proverb says, indeed, - any sandpiper is great in his own swamp.

**WiN Korea**

**Meeting with WNA Agneta Rising and IRPA Renate Czarwinski**

Dr. Se-Moon Park (President WiN Global & Honorary President WiN Korea), Dr. Young-mi Nam (Vice-President WiN Korea) and Prof. Eun-ok Han (Vice-President WiN Korea) met with Mrs. Agneta Rising (Director General WNA) and Mrs. Renate Czarwinski (President IRPA) on October 20 in Seoul.

During the meeting, continuous support by WNA for WiN Global activities such as the 2016 WiN Board Meeting in London, the Communications Workshop and website management were discussed. Between WiN Global and IRPA the contract of the technical collaboration for nuclear safety was discussed. Collaboration between WiN Korea and WNA as well as IRPA were also discussed.

**2015 Nuclear Communication Workshop**
The 15th WiN Korea General Assembly and Annual Report

The 15th WiN Korea General Assembly including annual report was held on 5th November at the International Nuclear Training & Education Center (INTEC), KAERI, Daejeon. It was co-sponsored by the Ministry of Science, ICT and Future Planning and Korea Atomic Energy Research Institute. Seventy members attended. Prof. Rena Lee, WiN Korea President opened the Assembly with her opening remarks. A welcome speech followed by Dr. Jong-kyung Kim, President KAERI. A congratulatory speech was given by Dr. Byung-ju Min, member of National Assembly. Mr. Sung-man Bae, General Director KHNPCRI also gave a congratulatory speech.

Dr. Se-Moon Park, President WiN Global gave a keynote speech, titled “WiN Global and Women’s Role for Nuclear Energy,” A special lecture was followed by Mr. Dae-uk Kwon, CEO Accor Ambassador Hotel, entitled “My Life and My Dream,” which purpose was to improve the members’ leadership and capability skills.

After the above speeches, the WiN Korea General Assembly took place. Dr. Se-Moon Park (President WiN Global) was elected as honorary President of WiN Korea. Mrs. Chu-ok Lee (KEPCO E&C Senior Manager) was newly appointed as Vice-President. Prof. Sung-eun Kim (Korea University Hospital) was elected as a new board member.
After the Assembly, the WiN Korea Annual Report was presented, with the key activities—symposium, WiNK contest and workshop – achieved during this year. The products were exhibited in the corridor to show what WiN Korea performed to improve public understanding of nuclear during 2015.

**The 6th WiNK Nuclear Contest Award Ceremony**

The awards ceremony for the “6th WiNK Nuclear Contest” was held on November 5 at INTEC, KAERI after WiN Korea Annual General Assembly. The contest is a part of WiNK’s social responsibility initiative. Its purpose is to offer scholarships to the next generation. The contest was open to the public from July to September. The contest targeted those who have attended nuclear programs. Five candidates from middle school and 4 from high school were selected as recipients for the awards and scholarship.

**IAEA Workshop On Clinical Dosimetry in Mexico**

In different areas of knowledge, it is important to perform a work methodology in which the practice and theory are integrated in order to achieve a better understanding of the concepts in each of the areas. Clinical Medical Physics is an area that Mexico has failed in such integration. For this reason, all the radiation therapy team meaning radiation technologists, medical physicists and radiation oncologists should strengthen their academic training and be in constant readiness in order to respond adequately to technological changes and care needs. In the field of radiotherapy in particular, some health centers in Mexico carry out advanced radiotherapy techniques such as intensity modulated radiation therapy (IMRT), volumetric modulated arc therapy (VMAT) and cranial or extracranial radiosurgery (SRS).

At the UMAE IMSS Medical Center in Puebla Mexico it took place for the second time the "Workshop on Clinical Dosimetry and Bioeffect Planning " supported by the International Atomic Energy Agency, this training was aimed for radiation oncologists and medical physicists.

There were a total of 30 radiotherapy practitioners from all around the country and half of the attendees were women. The scope of the course was to learn about how to improve the radiation treatment quality while decreasing as much as possible the radiation administered to the healthy tissue while treating cancer. The IAEA expert for this course was Dr. Raymond Miralbell from the University Hospital of Geneva Switzerland, who shared some of his clinical results in the area of radiotherapy. Dosimetry issues, radiobiology, different types of fractionation schedules and specific clinical cases were discussed. Participants also made planning practices, dosimetry and dose optimization examples.
WiN Mexico is working towards the implementation of handy procedures for CT simulators and cone beam CT dosimetry using solid state detectors. Together with IAEA, WiN Mexico has submitted a national project towards the implementation of radiodiagnostic dosimetry for imaging devices for the most vulnerable centers in the central area of the country. This IAEA project is expected to start on January 2016, and different X-ray devices, mammography equipment and CT simulators will be inspected with the main objective of training their users to perform dose optimizations. Our group has a medium timeframe project to establish at the Mesoamerican Centre for Theoretical Physics a master program in medical physics oriented towards the strengthening of imaging physics, this proposal has received the international support of different organizations such as the International Centre for Theoretical Physics (ICTP), International Organization of Medical Physics (IOMP) and the American Association of Physicist in Medicine (AAPM).

WiN Spain

WiN Spain at the 41st Spanish Nuclear Society (SNE) Annual Meeting

Various activities took place at this 41st SNE Annual meeting (September 23-25) that was held at A Coruña (northern Spain), commemorating that in 2015, WiN Spain celebrates its 20th Anniversary.

Round Table on Women Leadership

Women are increasing their leadership positions in the professional world in general, and in the nuclear industry in particular.

This round-table workshop discussed different types of leadership, considering the specific characteristics of female leadership, such as those based on empathy, risk assessment, prioritizing sustainability on immediate benefit, communication, etc. Reflections on the difficulties encountered and the incorporation of new generations of women students and professionals to the work market were outlined.

Four speakers with extensive experience and outstanding merits in the professional field conducted this round table, making attendees think about these and other related issues in a workshop that attempted to encourage the participation of the attendants. WiN Spain President Matilde Pelegrí lead this Workshop

WiN Spain 20th Anniversary Award

The Special 20th Anniversary WiN Spain Award was granted to Ms. Agneta Rising, one of the founders of Women in Nuclear and current Director General of the World Nuclear Association.

There is an endless list of reasons for giving Ms. Agneta Rising this Special Award, knowing her extensive technical experience in the nuclear area, her higher and demonstrated management abilities while at Vattenfall, her active participation in International Organizations including the Swedish Nuclear Society, European Nuclear Society, Uranium
Institute and her present responsibility as World Nuclear Association Director General.

Besides her impressive career, she has been crucial to the Women in Nuclear Organization, WiN Global, and in particular extremely important to WiN Spain. In our early beginnings, Agneta inspired our organization on the straight track providing the basis for a solid foundation that has directed us, WiN Spain, during these 20 years.

The support we received from WiN Global at the time she was WiN Global President, suggesting to hold the WiN Global Annual meeting in Valencia in 1997, and honouring our WiN Spain President at that time with the 2nd WiN Global Award, provided us with a sounded credibility in front of our Spanish Nuclear Sector.

Agneta Rising received this Award from the current WiN Spain President, Matilde Pelegrí and the SNE President Jose Ramón Torralbo, during the official dinner that was held for this 41st Annual Meeting in A Coruña. (photo above)

**WiN Spain Conference**

Outside the SNE annual meeting usual technical and related activities, WiN Spain organized a conference entitled "Medical Applications of Ionizing Radiation. Nuclear Medicine", that was delivered by Dr. Sofia Rodríguez Martínez de Llano, physician at the Nuclear Medicine Department in the Galician Cancer Center.

This conference given at the Museum of Contemporary Art of Gas Natural Fenosa in A Coruña, was open to the general public but specifically attended by members of the Consumer’s Union in Galicia (UCGAL), the Consumer’s Galician Council, and the Elderly Confederation (COGAMA).

**WiN Spain at the “Science Week” in Madrid**

Two WiN Spain activities were organized for the “Science Week” in Madrid (November 9th through 13th) coincident with WiN Spain 20th Anniversary.

**Conference: “Energy in Spain- Crisis between Economy and Environment?”**

The SNE Programs Commission and Women in Nuclear (WiN) Spain organized this conference which was held on November 12th at the SNE headquarters. The lecturer was Inés Gallego, former WiN Spain President.

The purpose of this conference was to analyze the Spanish energy sector and what are the most relevant aspects of the electrical system, as an outreach communication cultural and educational activity to society.

Environmental impact, costs, price of electricity for consumers, last resort tariff or tariff deficit, are concepts that coexist in the media with the terms “crisis” and “environment” sometimes leading to different positions that can transfer to members of the public the impossibility of coexistence of these aspects. This conference discussed each of these items in the current framework, with the aim to understand what different media show us every day, so each attendant/participant could understand their meanings, and how they can affect each of us.

**Visit to the National Fusion Laboratory**

Within the Science Week in Madrid, WiN Spain also organized a visit to the Spanish National Fusion Laboratory.

A brief introduction to Fusion Technology was...
provided previously with a visit to the Stellerator TJ II Facility.

The National Fusion Laboratory currently contributes to the development of the European Fusion Program and is one of the major Spanish Scientific facilities.

20th WiN Spain Anniversary – Closure Activity

WiN Spain celebrated the closing act to commemorate its 20th Anniversary with a ceremony held on November 26th in the Auditorium of the School of Industrial Engineering at the Madrid University (UPM).

Under the lead of María Luz Tejeda, Vice President of WiN Spain, a review of the history of this organization, founded in 1995 was provided.

In the opening remarks by the current WiN Spain President, Matilde Pelegrí, a minute of silence was observed in memory of Juan Alberto Gonzalez Garrido, a member of the Nuclear Youth Association killed in the terrorist attack in Paris on November 13th, and special remembering his mother, Cristina Garrido, WiN Spain member.

This was followed by a panel discussion, moderated by Ana Samboal, Journalist specialising in Economics and director of the “Night Journal” in Madrid TV “Telemadrid”. In this Round Table all WiN Spain Presidents participated: María Teresa Lopez-Carbonell, Carolina Ahnert, Inés Gallego, Maribel Gomez and Matilde Pelegrí.

Through their explained experiences we could gather how WiN Spain has advanced in its goal of Public Information explaining the pros and cons of nuclear power, as well as radiation protection and medical physics applications. In an interesting debate, Ana Samboal stressed the importance of giving visibility to the activities of the nuclear sector, and invited the association to participate more actively in the media.

Round Table: 20 Years of WiN Spain
From left to right: Carolina Ahnert, Maribel Gomez, Maria Teresa Lopez-Carbonell, Ana Samboal, Matilde Pelegrí and Inés Gallego

An especially touching video celebration, in which the SNE past and present Presidents, and senior representatives of the Spanish industry and research, as well as WiN Global and WiN Europe Presidents, congratulated the organization on its 20th Anniversary.

Then, Jose Ramon Torralbo, President of the SNE, congratulated WiN Spain on this Anniversary, and encouraged their associates to continue on this path of information to society. He also made special mention of the SNE participation together with more than 100 similar organizations in the Nuclear4Climate initiative at the World Climate Conference being held in Paris.
The closing of this act was led by the Vice President of the Nuclear Safety Council, Rosario Velasco, who stressed the importance of having, within WiN, all the professionals of different subsectors related to the application of ionizing radiations, ie in nuclear power plants as well as in industrial and health care areas. He also stated that there has been an increase of women in organizations operating nuclear power plants, and there even exists in the regulatory body itself a reasonable balance, both in the technical field and in the different areas of support, between men and women.

Closing Act: Jose R. Torralbo, Rosario Velasco and Matilde Pelegri

1st National Radiation Protection Congress, held in Hacettepe Ankara, Turkey in November 19-21, 2015. Congress is organized and chaired by WiN Turkey member Ms. A. Gönül Buyan, who is the Head of the Society Radiation Protection Experts of Turkey.

The event brought together the professionals and the academicians to discuss the opportunities and challenges associated with radiation protection issues in all areas of application. The governmental bodies such as Ministry of Energy and Natural Resources, Ministry of Labor, Ministry of Health, Turkish Atomic Energy Authority TAEK supported and participated in the Congress.

Some of the highlights of the Congress were the papers delivered by invited guest speakers from the international companies that undertake the construction of the Turkey’s first NPP projects on their radiation protection programs. In addition, scientific papers delivered and discussions of radiation protection concerns in NORM, industry, medicine and a presentation on Chernobyl radiation protection activities in Pripyat exclusion zone and radiation shield currently being built around the site of the wrecked Unit 4 (the New Safe Containment) were followed with great interest by the delegates of the Congress.

Third day of the Congress program included a Training Course on “Radiation Protection in Occupational Health and Safety” which attracted more than a hundred participants.
French-Turkish Conference & B2B meetings on Nuclear Energy

The conference was organized by Business France, in partnership with the regional nuclear service (French Embassy), CEA (French technological research center) and SFEN (French nuclear energy society). The organization of this event is supported by WiN Turkey member, Assoc. Prof. Sule Ergun from the Hacettepe University on behalf of Nuclear Engineers Society.

Various topics covered Environment, Operations and Security. Technical sessions titled:
- Impact of NPP on ecosystem
- Environmental Radiation and Population Exposure
- Prevention and Mitigation of Major Accidents – Lessons Learnt
- A Round Table Discussion on “A NPP in the neighborhood: how to enhance public acceptance?” which was particularly in the center of interest of WiN Turkey.

The speakers of the round table were: Valérie Faudon - General delegate, SFEN Isabelle Jouette - Director of communication, SFEN Şebnem Uдум – Member WiN Turkey, Assoc. Prof. Hacettepe University, Department of International Relations B. Gül Goktepe - President, WIN Turkey (NÜKAD).

The debate was moderated by Mr. Fırat Gazel, Editor in Chief /Economy-Finance and Energy News - Anadolu Agency

During the discussion one of the major issue regarding NPPs in Turkey that is public acceptance was addressed by B. Gül Goktepe. She summarized the accumulated experience on public awareness and acceptance issues in the west and in Turkey. Key issues considered by WiN Turkey (NÜKAD) were presented with proposals on enhancing public acceptance. She pointed out that the “effective communication with all stakeholders is the key to the success to enhance public acceptance in the neighbourhood of planned NPPs.”

The 3rd International Conference on Po and Radioactive Pb Isotopes INCO-PoPb-2015

The Third International Conference on Po and Radioactive Pb Isotopes INCO-PoPb-2015 was organized by Institute of Nuclear Sciences, Ege University in Kuşadası, Turkey during October 11-14, 2015. The conference is held every three years, and WiN Turkey member Professor Aysun Uğur Gorgun had participated in the second conference in India and has successfully brought the third conference to Turkey. The conference was attended by 110 registered
participants from 29 different countries. Scope of the third conference was composed of the following topics:

- $^{210}$Po and $^{210}$Pb as chronometers in marine, lacustrine and cryospheric environments
- $^{210}$Po and $^{210}$Pb as a tracer in marine environment
- Mobility of $^{210}$Po and $^{210}$Pb and as tracers in terrestrial environment
- $^{210}$Po and $^{210}$Pb as tracers in the atmosphere
- The kinetics of $^{210}$Po and $^{210}$Pb
- $^{210}$Po and $^{210}$Pb in TENORM industries
- $^{210}$Po and $^{210}$Pb in dose assessments
- Radiochemistry, instrumentation and quality assurance
- New techniques in the measurement of $^{210}$Po and $^{210}$Pb radioisotopes

In addition to invited talks, there were oral and poster sections of the contributed papers covering all the above topics. The papers on ‘Removal of $^{210}$Po from Lead-Bismuth Eutectic Cooled Reactors’ was a novelty in the congress series. There was a special discussion on “Problems in $^{210}$Pb Sediment Dating”. The selected papers will be published in a special issue of Journal of Environmental Radioactivity (JER), Elsevier. As an social activity of the conference there was a trip to Ephesus.

4th Annual Nuclear Energy Development Summit

The 4th Annual Nuclear Energy Development Summit was held in Wyndham Grand Istanbul, 01-02 October 2015.

WIN Turkey Group meeting was held in Ankara, 20th November, 2015. Group members agreed on launching a joint activity on risk communication and official visits to top governmental officials and industry leaders.
WiN Brazil is very proud to communicate to the WiN Global community that Alice Cunha da Silva, young member of WiN Brazil, won in September 2015 the Nuclear Olympiad sponsored by the World Nuclear University, World Nuclear Association and International Atomic Energy Agency (IAEA).

Alice Cunha da Silva, 25 years old, is a Nuclear Engineering undergraduate student at the Federal University of Rio de Janeiro. Currently in her senior year she is also working as an intern in the Brazilian division of Westinghouse in the area of Core Engineering and supporting local operations.

In 2014 she studied at Pennsylvania State University as part of a Brazilian government exchange program and also interned at Westinghouse in Pittsburgh. Besides the WiN membership she is now Chair of the Homepage and Publications Committee of the Latin America Section da American Nuclear Society.

The Nuclear Olympiad is an international challenge for undergraduate and graduate students to create a video on the topic of nuclear techniques for global development. The 2015 challenge required research into the nuclear applications and the positive impact it has on human lives. The competition awards students who show nuclear applications beyond energy generation and fuel fabrication.

In the first Nuclear Olympiad round, videos from all over the world were reviewed and semifinalists were selected according to the relevance and creativity of their videos. The semifinalists were on YouTube and the five videos with the most “likes” moved on to the final round. Alice’s video received more than 15,000 likes on YouTube. In the final...
round the competitors needed to produce a work about radioisotope production and present it at the headquarters of the International Atomic Energy Agency in Vienna, Austria. All the stages were judged and designated points and she obtained more points overall.

MARK YOUR CALENDARS

2016 PIME Conference
14-17 February 2016, Bucharest, Romania

2016 1st WiN Global Board Meeting
16th March 2016, WNA, London, UK

2016 WiN Global Nuclear Communication Workshop organized by WiN UK
16th March 2016, London, UK

2016 World Nuclear Exhibition (WNE)
28-30 June 2016, Le Bourget, Paris, France

2016 WNA Symposium
14-16 September 2016, London, UK

2016 WiN Global Annual Conference
20-23 November 2016, Abu Dhabi, UAE

I thank all WiNners very much for your support and contributions during the year 2015. I could feel that all the chapters and individual members have been performing your best to provide information to the public on nuclear issues.

Nuclear associations and societies from all over the world launched an initiative called “Nuclear for Climate” to bring it to the COP21. The COP21 has ended successfully with the understanding for the urgent need for more nuclear energy. WiN Global collaborated with them on this activity.

Thanks to all for participation in the Women in Nuclear Declaration for Earth Climate in Vienna this August. This activity has continued in your chapters before the COP21. I thank Dr. Dominique Mouillot, Vice-President of WiN Global and WiN France, and former President of WiN Europe, who was in charge of this activity. We brought it to the COP21 to highlight that nuclear is a part of the solution for fighting climate change.

Thanks for WiNners who contributed and participated in the COP21 Exhibition of low carbon solutions (La Galerie des Solutions de la
COP21) from 2\textsuperscript{nd} to 9\textsuperscript{th} December 2015 at the air and Space Museum-Paris le Bourget, France. Many Women in Nuclear experts participated in the Exhibition for dialogue with visitors about the role of nuclear against earth climate change.

The time, the words and the chance will never come back if once missed while living.

You won’t miss the time, the words and the chance when you want to have a dialogue on nuclear for earth climate.

I wish you all the happiness with you and your family in the new year 2016.

Thank you very much

Se-Moon Park
President Women in Nuclear Global

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