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Enhancing Our World Through Nuclear Technology

Combined U.S. WIN and WiN Global 2009 Conference

July 20-24, 2009

Grand Hyatt Washington

Washington, D.C.

Agenda

SUNDAY, JULY 19

Registration
11 a.m.–6 p.m.

Cultural Tours
1–5 p.m.
Depart from Constitution AB Ballroom
Facilitator: Region I WIN

U.S. WIN Steering Committee Meeting
(closed meeting)
1–5 p.m.
Latrobe Room

WiN Global Executive Committee Meeting (closed meeting)
1–5 p.m.
Cabin John/Arlington Room

Casual Reception for Early Arrivals
6–7 p.m.
Independence Ballroom BCDE

MONDAY, JULY 20

Registration
7 a.m.–6 p.m.
Independence Ballroom Foyer

Nuclear Power Plant Tours

8 a.m.–4:30 p.m.
Buses leave promptly at 8 a.m. from the 10th Street exit on the lobby level. You must have a ticket to board the bus.

Peach Bottom Atomic Power Station
York County, Pa.
Facilitator: Dawn Birmingham, Exelon

North Anna Power Station
Mineral, Va.
Facilitator: Vicky Harte, Dominion

U.S. Nuclear Regulatory Commission Operations Center
8–11:30 a.m. and 1–4:30 p.m.
Groups will leave from the hotel lobby near the Grand Hyatt front desk at 8 a.m. and 1 p.m. You must have a ticket to join the tour.

Facilitators: Jeannie Rinckel, FirstEnergy and Janet Schlueter and Leslie Kass, NEI

WiN Global Board Meeting (closed meeting)
8:30 a.m.–12:30 p.m.
Independence HI Ballroom

U.S. WIN Leading Group Meeting (closed meeting)
Noon–3:30 p.m.
Farragut/Lafayette

Student and Mentor Orientation
4:30–5:30 p.m.
Independence HI
Facilitators: Richiey Hayes, NEI and Ann Winters, INPO

First Time Attendees Orientation
4:30–5:30 p.m.
Franklin/McPherson
Facilitators: Wanda Redd and Vivian Wagnon, South Texas Project

Welcome Reception
6–8:30 p.m.

Networking Hour
6–7 p.m.
Constitution AB Ballroom

Performance of the Capitol Steps
7–7:45 p.m.
Independence A Ballroom

Networking Resumes
7:45–8:30 p.m.
Constitution AB Ballroom

TUESDAY, JULY 21

Leslie Burns Memorial Fitness Walk
6–7 a.m.
Hyatt Lobby
Facilitator: Bonnie Bryant
NextEra Energy

Breakfast and Registration
7–8:30 a.m.
Independence Ballroom Foyer

Opening Session
8:30–9:45 a.m.
Independence A Ballroom

Welcome
Michael Kansler
President, Chief Executive Officer and
Chief Nuclear Officer
Entergy Operations

U.S. WIN and WiN Global Welcomes
Carol Berrigan
Senior Director, Industry Infrastructure
Nuclear Energy Institute

Cheryl Boggess
President
WiN Global

WiN Global General Assembly
Cheryl Boggess
President
WiN Global

U.S. WIN Country Report
Carrie Phillips
Public Affairs Manager
Southern Co.

Networking Break
Independence Ballroom Foyer
9:45–10:15 a.m.

General Session—Perspectives on Nuclear Technology
10:15 a.m.–noon
Independence A Ballroom
Facilitator: Sheila Brey, Entergy

Donna Jacobs (Moderator)
Senior Vice President of Planning,
Development and Oversight
Entergy Operations

Marvin Fertel
President and Chief Executive Officer
Nuclear Energy Institute

Susan Landahl
Senior Vice President, Operations
Support
Exelon Corp.

Ana Palacio
Senior Executive Vice President, Foreign
Relations
AREVA

Awards Luncheon

12:15–2 p.m.

Constitution Ballroom

Facilitator: Diane Marshall, Westinghouse Electric Co.

Breakout Sessions

2–3:30 p.m.

Isotope Production

Independence BCDE Ballroom

Facilitator: Bernie Kirk, Oak Ridge National Laboratory

Mark Shilton

Vice President - Sources
QSA Global Inc.

Jeff Binder

Manager, Isotope Production Program
Oak Ridge National Laboratory

Jackie Frits

Branch Manager, (FA) Mo-99
Production Facility, CRL Laboratories
Atomic Energy of Canada Ltd.

Jasmin Craufurd-Hill

Reactor Engineer
Australian Nuclear Science and
Technology Organisation

Global Nuclear Construction: Experience Gained

Independence A Ballroom

*Facilitator: Katrina Shuman, URS-
Washington Division*

John Atwell

Principal Vice President and Project
Director, Watts Bar Unit 2 Project
Bechtel Corp.

Cindy Pezze

Chief Engineer, Nuclear Power Plants,
New Plants Engineering
Westinghouse Electric Co.

Tohru Maruyama

Senior Vice President US-ABWR Projects
& Technologies
Toshiba America Nuclear Energy Corp.

Jack Mulligan

Director, Nuclear Technology and
Programs, Power Business Unit
URS-Washington Division

Focus on Performance

Independence FGHI Ballroom

Facilitator: Heather Lewis, PG&E

Peg Lucky

Director, Fleet Strategies
Constellation Energy

Ed Halpin

Executive Vice President and Chief
Nuclear Officer
South Texas Project

Philippe Sasseigne

Delegate for Operations
Electricite de France

Rick Purcell

Senior Vice President, Industry
Performance Improvement
Institute of Nuclear Power Operations

Global Nuclear Workforce Development Challenges

Conference Theatre

Facilitator: Lisa Stiles, Dominion

Anne Starz

Technical Head, Infrastructure
and Planning
International Atomic Energy Agency

Amy Best

Vice President, Human Resources
Exelon Nuclear

June Connell
*Performance Improvement
Coordinator*
New Brunswick Power

Sara Scott
*Program Director, Civilian Nuclear
Programs*
Los Alamos National Laboratory

Networking Break

3:30–4 p.m.

Independence Ballroom Foyer

Breakout Sessions

4–5:30 p.m.

Global Approaches to Used Fuel Management

Independence BCDE Ballroom

Facilitator: Carmen Alonso, GE

Sarah Leversee

Project Engineer
GE Hitachi

Jack Bailey

*Vice President, Nuclear Generation
Development*
Tennessee Valley Authority

Christopher Phillips

Vice President, Applied Technology
EnergySolutions

Reiko Fujita

*Senior Fellow of Chemistry and
Chemical Engineering*
Toshiba

Community Outreach Best Practices

Independence A Ballroom

Facilitator: Sandy DePirro, Progress

Rita Sipe

Nuclear Communications Manager
Duke Energy

Junko Ogawa
Senior Chief Communicator
The Japan Atomic Power Co.

Rebecca Hall

*Policy Advisor, Office for Nuclear
Development*
U.K. Department of Energy and Climate
Change

Frontiers in Nuclear Research

Conference Theatre

*Facilitator: Julie Ezold, Oak Ridge National
Laboratory*

Howard Hall

Professor and Governor's Chair
University of Tennessee—Oak Ridge
National Laboratory

Kate Jackson

*Senior Vice President and Chief
Technology Officer, Strategy and
Research*
Westinghouse Electric Co.

Gabi Voigt

Director, Seibersdorf Laboratories
International Atomic Energy Agency

Haruko Kuroiwa

Public Relations
Mitsubishi Heavy Industries

Enrichment and Conversion Technologies

Independence FGHI Ballroom

*Facilitator: Janet Schlueter, Nuclear Energy
Institute*

Lisa Price

Senior Vice President
GE Hitachi Nuclear Energy

Michael French

Policy Advisor
AREVA Enrichment Services, LLC

Christy Abbas

Market Analyst
ConverDyn

Brenda Brooks
*Director, Communications and
Community Affairs*
Louisiana Energy Services

Paul Sullivan
*Vice President, American Centrifuge
and Chief Engineer*
USEC Inc.

WiN Global and U.S. WIN Pictures
5:30 p.m.
Constitution Ballroom

Evening Special Event
7–10 p.m.
***Buses leave at 6:30 p.m. from the 10th
Street Exit on the lobby level. You
must have a badge and a ticket to
attend the event.***

Reception and dinner boat cruise on the
scenic Potomac River.

WEDNESDAY, JULY 22

Leslie Burns Memorial Fitness Walk
6–7 a.m.
Hyatt Lobby
Facilitator: Bonnie Bryant
NextEra Energy

Breakfast Meeting for Capitol Hill Team
Leads
7–8:30 a.m.
Franklin/McPherson
Facilitator: Leslie Barbour, NEI

Breakfast and Registration
7–8:30 a.m.
Independence Ballroom Foyer

**Plenary Session—Ensuring Nuclear Safety
Around the World**
8:30 a.m.–noon
Independence A Ballroom

Opening Remarks
Marilyn Kray
*Vice President, Project
Development*
Exelon Corp.

**The Role of Government in Providing
Effective Oversight**
8:30–10 a.m.
Facilitator: Pam Cowan, Exelon

Susan Landahl (Moderator)
*Senior Vice President, Operations
Support*
Exelon Corp.

Kristine Svinicki
Commissioner
U.S. Nuclear Regulatory Commission

Michael Binder
President
Canadian Nuclear Safety Commission

William Travers
Director General
U.A.E. Federal Authority for Nuclear
Regulation

Isabel Mellado
Nuclear Safety General Director
Spanish Nuclear Safety Council

Networking Break
10–10:30 a.m.
Independence Ballroom Foyer

Securing Nuclear Materials and Technology

10:30 a.m.–noon

Independence A Ballroom

Facilitator: Angie Howard, Howard-Johnson Associates

Angie Howard (Moderator)

President

Howard-Johnson Associates

Susan Eisenhower

President

The Eisenhower Group

Eva Gyane

Inspector

International Atomic Energy Agency

Amb. Jackie Wolcott

Former Special Envoy for Nuclear Nonproliferation

U.S. Department of State

Corey Hinderstein

Director, International Program

Nuclear Threat Initiative

Luncheon

Noon–1:30 p.m.

Constitution Ballroom

Facilitator: Allison Graves, Entergy

Donna Brazile

Political Strategist

Brazile & Associates

Breakout Sessions

1:30–3 p.m.

Expanding the Global Nuclear Supplier Base

Independence A Ballroom

Facilitator: Susan Shuler, Westinghouse Electric Co.

Megan Rossi

Senior Legislative Analyst

The Babcock & Wilcox Co.

Keiko Chitose

Configuration Control Manager

Mitsubishi Nuclear Energy Systems Inc.

Loretta Zacconi

QC Manager

IBF S.p.A

Minji Jang

Engineer, Steam Generator Design Team

Doosan Heavy Industries

Jin Kang

Engineer, Hydraulic Equipment Design Team

Doosan Heavy Industries

The Nexus of Energy and Environment Conference Theatre

Facilitator: Victoria Dennis, PPL

Anndria Gaerity

Director, Management Projects

PSEG

Fernando Naredo

Vice President, Europe

Westinghouse Electric Co.

Steve Caldwell

Pew Center on Global Climate Change

Su-hyun Ra

Public Relations

Korea Nuclear Fuel Co.

Hye-Jin Kim

Researcher

Korea Nuclear Fuel Co.

Public Perceptions of Nuclear

Independence BCDE Ballroom

Facilitator: Meredith Werley, Duke Energy

Mimi Limbach

Partner

Potomac Communications Group

Cliff Young

Senior Vice President

IPSOS Public Affairs North America

Sophie Roynette-Malbec

Nuclear Energy Communicator

Electricite de France

Peggy Mouriaux

Chief of Staff

Electricite de France

Communicating Nuclear Issues with Opinion Leaders

Independence FGHI Ballroom

Facilitator: Melinda Otte, Luminant

Kelle Barfield

Vice President, Public Affairs

Entergy Nuclear

Sami Tulonen

Director, Institutional Affairs

European Atomic Forum (FORATOM)

Stina Götbrink

Senior Consultant

Prime PR

Networking Break

3–3:30 p.m.

Independence Ballroom Foyer

WiN Global Country Reports

3:30–5 p.m.

Independence A Ballroom

*Facilitators: Carrie Phillips (U.S.) and
Jessie Chiu (Taiwan)*

Moderators: WiN Global Executives

U.S. WiN Regional Meetings

3:30–5 p.m.

Region 1

Independence BCDE Ballroom

Facilitator: Darlene Polk, Westinghouse

Region 2

Independence FGHI Ballroom

Facilitator: Julie Ezold, ORNL

Region 3

Conference Theatre

Facilitator: TBD

Region 4

Constitution DE

Facilitator: Jan Neher, AmerenUE

The Great American Pastime—Major League Baseball

Optional Evening Event (Includes Dinner)

5:30–10 p.m.

*Groups will depart from the hotel lobby starting
at 5:30 p.m.*

*Washington Nationals vs. New York Mets
(Game time: 7:05 p.m.)*

Facilitator: Leslie Barbour, NEI

THURSDAY, JULY 23

Leslie Burns Memorial Fitness Walk

6–7 a.m.

Hyatt Lobby

Facilitator: Bonnie Bryant

NextEra Energy

Breakfast and Registration

7–8:30 a.m.

Independence Ballroom Foyer

Breakfast Meeting for Capitol Outreach Participants

7–8:30 a.m.

Constitution Ballroom

Facilitator: Leslie Barbour, NEI

Break Out Sessions

8:30–10 a.m.

Communications Workshop

Independence BCDE Ballroom

*Facilitators: Stephanie Fourquier,
WiN France and Jan Ivey, Westinghouse*

Cheryl Cottrill

Executive Director
WiN Canada

Käthe Sarparanta (part 1 / part 2)

Communications Manager
Olkiluoto 3 Teollisuuden Voima Oy

Dominique Mouillot

President
WiN France

Starting a New Chapter

Conference Theatre

Facilitators: Jenifer Ewart, Westinghouse

Sheila Brey
Senior Project Manager
Entergy

Carol Berrigan
*Senior Director, Industry
Infrastructure*
Nuclear Energy Institute

Jan Neher
Consulting Engineer
AmerenUE

Susan Mortensen
Procurement Engineer
PaR Nuclear
Westinghouse Electric Co.

Running an Effective Meeting

Independence FHGI Ballroom

Facilitator: Evelyn Tucker, Bechtel Bettis

Peg Lucky
Director, Fleet Strategies
Constellation Energy Nuclear Group

Leadership Courage

Independence A Ballroom

Facilitator: Kate Gerlach, PSEG

Judy Domanico
Accreditation & Instructional Specialist
Exelon Nuclear

Julie Mihm
Instructor
Exelon Nuclear

Networking Break

10–10:30 a.m.

Independence Ballroom Foyer

Plenary Session—Managing Nuclear Risks

10:30 a.m.–noon

Independence A Ballroom

*Facilitator: Caroline Schlaseman, MPR
Associates*

Beatrice O'Donnell (Moderator)
Partner
Duane Morris LLP

Marjorie Berger
Vice President, Liability Claims
American Nuclear Insurers

Greg Wilks
Vice President
Nuclear Electric Insurance Limited

Janice Dunn Lee
Deputy Director General
Nuclear Energy Agency, OECD

Invitation to WiN Global 2010—Korea

Se-Moon Park
President
WiN Korea

WiN Global Closing Statement

Cheryl Boggess
President
WiN Global

Concluding Luncheon

Noon–1:30 p.m.

Constitution Ballroom

*Facilitator: Maria Korsnick, Constellation
Energy Nuclear Group*

Anne Lauvergeon

Chief Executive Officer

AREVA

**Capitol Outreach—Visits with U.S.
Congress and Obama Administration**

1:30-5 p.m.

Independence BCDE Ballroom

*Teams of participants will meet with federal
elected official and their staff to educate
them and advocate for the peaceful uses of
nuclear science and technology.*

Optional Cultural Tour

Mt. Vernon

1:30–5 p.m.

Buses leave promptly at 1:30 p.m. from the
10th Street exit on the lobby level. You
must have a ticket to board the bus.

Capitol Hill Debrief

Franklin/McPherson

6–7:30 p.m.

FRIDAY, JULY 24

Nuclear Power Plant Tours

8 a.m.–5 p.m.

Buses leave promptly at 8 a.m. from the 10th
Street exit on the lobby level. You must have
a ticket to board the bus.

Three Mile Island Generating Station

Londonderry Township, Pa.

Facilitator: Linda Weir, Exelon

Calvert Cliffs Nuclear Power Plant

Lusby, Md.

Facilitator: Sherri Kennedy, Constellation

**U.S. Nuclear Regulatory Commission
Operations Center**

8–11:30 a.m. and 1–4:30 p.m.

Groups will leave from the hotel lobby near the
Grand Hyatt front desk at 8 a.m. and 1 p.m.
You must have a ticket to join the tour.

*Facilitators: Jeannie Rinckel, FirstEnergy and
Janet Schlueter and Leslie Kass, NEI*

Country Report - WiN Taiwan



Jyi-lan Wu

The 17th WiN Global Annual Conference
20-24 July 2009 at Washington DC, USA

Development – new breakthrough

- Domestic networking, **beyond nuclear fields**
 - Continuing joint meetings with ANS-TS
 - Collaborating with **women physicists**
 - Playing role among **women scientists**
 - Began dialogue with **female NGOs**



Development – networking

- **Internationally**
 - **WiN Global Board, Annual Meetings, WiNFO**
 - **Symposium on Radiation Education**
 - **Senior Network (SNW) of AESJ**



Communication – new breakthrough

- **Driving umbrella: research project on education and communication**
 - **Number of people reached**
hundreds → thousands
 - **Channels and connections**
nuclear related → science and education
 - **Materials and Tools**
random → systematic



Communication – K-12 activities

- Seminars –
 - Variety of subjects on energy & atomic science
 - K-12 teachers and students
 - 22 given, 18-28 more to go
- Visiting reactor at NTHU
- Summer camps
- Teaching modules



- Science Fair –
 - Games & Demos



WiN Taiwan Country Report for the WiN Global Conference 2009

By Jessie J. Chiu
Atomic Energy Council
Taiwan ROC



Nuclear Overview in Taiwan

A. National Energy Policy - Nuclear as transition source of power

Soon after President Ma Ying-jeou took office on 20 May 2008, the new government passed a Sustainable Energy Policy Directive, calling for equal emphasis on “energy security”, “economic development”, and “environmental protection” in future energy development to ensure national security and a sustainable future. Following the goal of this Directive, the Executive Yuan launched the Third National Energy Conference to provide guidelines on the nation’s energy strategies. After dozens of pre-conference meetings held among all stakeholders in different regions on various subjects, the closing conference was conducted during 15-16 April 2009.

The conclusion of the conference outlined three major goals on future energy developments: to work toward a “low-carbon society”, to develop future economy, society, and environment based on new energy technology, and to coordinate government policies to reach the “low-carbon society”. Premier Liu Chao-shiuan took the position of viewing nuclear power as an important “transition source of power” to drive Taiwan toward a low-carbon society. He also committed the Government to intensifying guarantees for nuclear power safety, expediting the implementation of nuclear waste final disposal, and strengthening transparency and public oversight mechanisms.

B. Nuclear Power Plants and Performance

In 2008, 99.3% of Taiwan’s energy sources relied on imports. Electricity generation totalled 238.32 terawatt-hours (TWh) which was contributed by: coal 38.01%, co-gen 16.51%, LNG 20.04%, oil 4.80%, nuclear 17.13%, hydro 3.26% and wind &VP 0.25%.

Taiwan’s six existing nuclear power units, operated by the state owned utility Taiwan Power Company (TPC), generated a total of 40.83 terawatt-hours (TWh) of electricity (gross) in 2008 – a record high and up 0.7% from the previous year’s figure (40.54TWh). The three nuclear plants at Chinshan, Kuosheng and Maanshan, with two operating units at each site, provided a total installed capacity of 5,144 MWe, accounting for 11.09% of the total installed electricity capacity in 2008 – compared to 11.21% in 2007. They contributed a nuclear

share of 17.13% to the total domestic electricity production last year— compared to 16.68% in 2007.

Performance wise, the average capacity factor for all six units in 2008 was 89.01%, the second best record in Taiwan's nuclear power operation, slightly lower than the best record of 90.28% set in 2007. The annual average number of reportable abnormal events per unit was 2.17 (or 13 events for all six units), and the average number of automatic scrams per unit was 0.33 (or 2 scrams for all six units) in 2008. Production of solidified low-level radioactive waste from all six units totaled 253 drums, best record ever, down 1.6% from 257 drums in 2007 and down as much as 23% from 327 drums in 2006. A new record was also set at Unit 2 of Kuosheng plant for a refueling outage of 29.45 days, shortest for a TPC's nuclear unit.

Construction continues at the fourth nuclear power plant "Lungmen" housing two ABWR units with 90% completion for construction and 35% completion for test runs as of 30 April 2009. The project had encountered significant delays due to the suspension in 2000, rising price of construction materials, finding new subcontractors to replace the bankrupted and negotiating new contracts to succeed the expired. Commercial operation dates set in 2006 were 2009 and 2010 for units 1 and 2, respectively, which have yet to be reset.

C. Highlights of Nuclear Regulatory and R&D Activities

Highlights of reactor regulatory activities conducted during the past 12 months include: 10-year integrated safety assessment for Chinshan Unit 1, continuing review of transient analysis methodology licensing applications, and a first-time maintenance rule inspection for all nuclear plants. For the Lungmen plant, focuses were on the pre-operation test inspection of pre-requisite systems and the initial test program and turnover process inspection. In the area of radiation protection, significant efforts were devoted to the implementation of the mammography quality control program, a special safety inspection of radiation sources at all academia and research institutes, and strengthening of self management in NDT radiation safety.

Major research focuses of the Institute of Nuclear Energy Research (INER) include: time limited comprehensive safety assessment for Chinshan NPP, nuclear power uprate for Chinshan and Maanshan NPPs, NPP license renewal related studies, development of D&D technology, commercial-grade item dedication for nuclear safety-related applications, development of fuel cells (SOFC and DMFC), cellulosic ethanol, high concentration photovoltaic (HCPV) systems, wind power generation systems, the integrated model of energy technology and macro-economy, and development and commercialization of radiopharmaceuticals. In addition, nearly 160 person-years were devoted to technical service activities for the completion of the Lungmen plant.

D. Radioactive Waste Management

On-site dry storage prior to final disposal has been recognized as a favorable option for the spent nuclear fuel management. An application for constructing a spent fuel dry storage facility at Chinshan plant was submitted by TPC in March 2007. After rounds of review by a technical review team, AEC's Fuel Cycle and Materials Administration (FCMA) accepted the application and issued a construction license in December 2008. TPC is awaiting approval of its water and soil reservation plan by the county government before commencing the construction work.

As required by law, a candidate site for a low-level waste final disposal facility will be determined through a referendum in Taiwan. Following its announcement of three potential sites in August 2008, the Ministry of Economic Affairs (MOEA) further published in March 2009 a site selection committee's report for public comment. The report recommended two of the three potential sites as "recommended candidate sites" to be located in Nantien village of Taitung County and Donguiyu Islet of Pescadores. The MOEA is expected to make a formal announcement on the recommended candidate sites by the end of 2009, taking into consideration of the comments received. A final "candidate site" will be determined through a referendum held at the counties where these "recommended candidate sites" are located. The county-level referendum is being planned for mid-year of 2010.

FCMA has also started on establishing a personnel qualification system for radioactive waste management, qualifying not only regulatory staff but also facility operators. The corresponding regulation was promulgated in April 2009, with sunset clauses to cease current practices in two years.

WiN Taiwan – Main Achievements in 2008/09

This part of the report has been prepared based on the four key elements of WiN Global's strategic plan. WiN Taiwan's activities and achievements as summarized below may fall under more than one of the key elements.

A. Organization – structure and sustainability

WiN Taiwan operates as a special division under the Chung Hwa Nuclear Society. Since its founding in 1994, members of WiN Taiwan have grown from 22 to 120 (among them, 37 are global members). WiN Taiwan has seven steering committee members by election, including chair and vice chair (i.e. president and vice president). The current (2008–2010) president and vice president are Jyi-Lan Wu of INER, and Shung-Hwui Fan of AEC, respectively. Past presidents who do not wish to be included in the ballots for election are invited to serve as advisors to WiN Taiwan.

WiN Taiwan finances itself, and as such seeks sponsorship for implementing special projects or activities. This year, WiN Taiwan accepted a grant to conduct a research project on communication and education. We have begun to benefit from preliminary results of this project, and will continue to explore opportunities of receiving grants for future research activities.

WiN Taiwan holds Steering and Advisory Committee meetings approximately every two months. Since January 2009, the issue of “whether to become a separate (independent) entity from its mother society” has been on the agenda of the meeting. Pros and cons were discussed, but no conclusion has been reached so far.

B. Benefits and Development – networking, training and education

WiN Global Annual Meeting - 26~30 May 2008. A delegation of six members, led by WiN Taiwan President Dr. Shin Chang, attended the 16th WIN Global Annual Meeting held in Marseille, France. A poster on “Renaissance of Nuclear Energy in Taiwan” was on exhibit during the conference.

WiN Taiwan Annual Meeting - 7 August 2008. WiN Taiwan and ANS-Taiwan Section held a Joint Annual Meeting at TPC’s Lungmen nuclear power plant. Two assemblies totaling 75 people joined together after separate business meetings to listen to two speeches. The first one was “Public Communication on Siting of a Final Disposal Facility for Low-Level Radioactive Waste” given by Chung-Cheng “Bruce” Lee, director of a special task force in TPC’s Public Services Department. The second speech was “Pulse Diagnosis and Health – Scientification of Traditional Chinese Medicine”, presented by Dr. Yu-Cheng Kuo, MD in both western and Chinese medicines, MS in pharmacy and PhD in biomedical-electrical engineering. Two field visits were organized for the afternoon: a site tour of the Lungmen Plant, and a guided tour at the Gold Ecological Park, site of an abandoned copper mine.

Exhibition at International Symposium - 18~19 December 2008. WiN Taiwan set up a dissemination booth at the 4th International Symposium on Radiation Education. The exhibit includes posters, introductory pamphlets, and a continuous slide show of recent WiN activities. A total of 12 experts from Japan, Hungary, Thailand and Taiwan were invited to deliver speeches at the symposium, which attracted 140 participants. WiN Taiwan took the opportunity to gain exposure and reach out to young attendees.

Nuclear Symposium - 20 December 2008. WiN Taiwan members took an active role in “the 2008 Taiwan-Japan Nuclear Symposium”, which was organized by the Nuclear Information Center, a non-profit organization. Eleven SNW (Senior Network) members of Japan’s Atomic Energy Society (AESJ) shared their experience in public outreach and school children education after retirement.

Among the 100+ participants, half were college or graduate students. WiN Taiwan took the opportunity to network with SNW of AESJ, thereby helping strengthen the SNW of its mother society.

Spring Seminar - 31 March 2009. Dr. Ming-fong Tai, professor at the Physics Department of the National Tsing Hua University was invited to give a talk on “Power Generation ~ Do it yourself!” The presentation with hands-on opportunity attracted more than 50 participants, including members and their colleagues. Two copies of a best seller “Hot, Flat, and Crowded” were given away in a drawing at the end of the seminar.

Preparation for Centennial Celebration - March 2009~. WiN Taiwan is taking part in organizing a 4-day conference of women scientists in early 2011 to celebrate the centennial of Taiwan ROC. Work has begun in nominating and inviting women scientists, domestic and abroad, of outstanding achievements in natural sciences, energy and engineering, and biosciences as speakers at the conference. About 500 attendees are expected, the majority of whom would be young generation.

C. Communication – strategies, tools and channels

Symposium/workshops on communication of nuclear issues - 5~7 November 2008. WiN Taiwan hosted a symposium on Communication of Nuclear Power and Waste Disposal Issues on 6 November 2008. The full day conference focused on two themes: “Nuclear - a major option for future energy development in Taiwan?” in the morning, and “Finding home for low-level radioactive waste - role of the public” in the afternoon. About 120 people participated in this event.

Irene Aegerter, Founding President of WiN Global, and Se-Moon Park, Vice President of WiN Korea, were invited as special guests for the conference. They gave presentations on each respective subject, while two directors of TPC provided overview of the status in Taiwan. Eight panelists with expertise in economics, energy policy, environmental science and engineering, waste management, and physical planning and land use joined the discussion after the presentations. Members of WiN Taiwan served as session chairs and moderators.

The symposium was designed for professionals working in energy and nuclear related fields to learn lessons from Swiss and Korean cases and exchange experience regarding effective communication of nuclear issues. A number of NGO representatives were also among the participants. The symposium received very good reports and positive feedback from the participants. There was coverage of the event in both newspaper and internet news. Two workshops with roundtable discussion were also conducted before and after the symposium: Seismic Monitoring at Nuclear Power Plants, and LLW Disposal

Siting and Public Communication. Through active discussions, a total of over 50 participants benefited from these workshops.

Research project on education and communication - 2009. The project, entitled “Study on Education and Communication of Nuclear Energy by Professional Women in Nuclear Fields“, consists of three parts:

- 1) to study methods, extents, and results of education and communication on nuclear energy and radiation conducted by women professionals;
- 2) to develop teaching materials and tools and conduct seminars and workshops for K-12 students and teachers, collect feedbacks and perform evaluations; and
- 3) to set up a website to disseminate new energy technology and nuclear energy applications, which are readily usable by K-12 students and teachers as well as the general public.

Achievements for the second part of the project, which is further advanced than the other two parts, are summarized as follows:

- Through the channels established for K-12 physics education programs, 22 seminars will have been delivered to K-12 students and teachers at their schools by the end of June, and 8 more have been scheduled for the fall semester. Over 20 nuclear energy and radiation related subjects are available for the school to specify under the “Let’s talk about energy and atomic science!” series activities. Additional 10-20 seminars are being planned for the fall semester pending availability of additional funding.
- A 3-hour teaching module “Nuclear Power—our invisible friend” has been developed and is ready to be presented by WiN Taiwan members at summer camps. The module consists of three components: understanding the basics using a video or interactive CD and checking on delivery with a bingo game, building and operating a nuclear power plant through role playing, and looking for the invisible friends (ionizing and non-ionizing radiation) using a variety of radiation detection instrument.
- Another 3-hour education program “Visiting the Reactor at Tsing Hua” has been developed and successfully tested in May by 30 Grade-10 female students gifted in science. The program, consisting of lecture, hands-on exercise and touring of the facility, will be offered to high school students once a month throughout the remainder of the year.

Related activity

- As one of the K-12 activities sponsored by the National Science Council in celebrating its 50th Anniversary, WiN Taiwan, in cooperation with the Physics Department of the National Tsing Hua University, has been conducting a one-day science and technology excursion once a month. The subject for the spring (February through April) months was “exploring energy and

nanotechnology”, which covered basic theories and applications of reactors, the history and touring of Tsing Hua’s open-pool research reactor, and lecture/DIY/discussion of solar cells. A total of over 200 of diversified age and background participated in the first three excursions.

WiNFO. WiN Taiwan sees WiNFO as not only a networking tool among global WiNners but an excellent source of ideas for developing its own strategic plan, especially communication activities. While enjoying this benefit from WiN Global and its chapters around the world, we have committed ourselves to fulfilling reciprocal obligations. Recent contributions have appeared in three of the latest four issues of WiNFO.

D. Looking Ahead – Upcoming activities

WiN Taiwan Annual Meeting - 8 July 2009. The 2009 WIN Taiwan Annual Meeting will be held jointly with the ANS - Taiwan Section at the Institute of the Nuclear Energy Research. Technical and cultural tours will be conducted in the afternoon following the business meetings and joint seminars.

WIN Global Annual Meeting - 20~24 July 2009. A delegation of six will be attending the 17th WIN Global Annual Meeting in Washington DC, USA.

Power Generation Summer Camps - July~August 2009. As part of a summer camp series on Energy Technology and Application offered at the National Science Education Center (NSEC), four 2-day camps on power generation will be provided to children of Grades 5-6 and Grades 7-8 separately during the summer months. WiN Taiwan will present the newly developed teaching module “Nuclear Power—our invisible friend” during each camp.

Science Fair - 25 July 25 ~01 August 2009. This is another summer K-12 activity organized by the NSEC to be held at an athletic park in Jia-yi County. WiN Taiwan, sponsored by the AEC, will be running two stands “Who’s the Nuclear Knowledge King” and “Monsters Inc” as well as a demonstration on “How much do you know about radiation” which will be presented twice a day.

Science education workshop - September 2009~. Possibilities are being explored with the NSEC to continue offering the same teaching module as a weekly workshop through the remainder of the year.

One-hour teaching modules - September 2009~. A series of one-hour teaching modules on various nuclear energy and radiation topics will be developed for use by K-12 teachers.

Networking with Women Scientists - 31 October~1 November 2009. For the first time, WiN Taiwan has been invited to attend the 6th Female Physicists and Chemists Joint Symposium and to introduce WiN to the participants. Female members of the physics and chemistry learned societies take turns to host the biannual event. This time the symposium is being organized by women chemists.