



INWES Member Newsletter #5 – February 2010

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Editorial

Dear INWES Members,
dear Readers,

in the EU, the strategy for the next years is under discussion. From November to January the Commission run a consultation of European citizens and organisations on some broad policy considerations for this strategy. Please find inside this newsletter the comments that INWES President Sue Bird submitted on behalf of INWES.

Other articles in this issue report on last year's INWES Regional Meeting in Korea and the Annual General Meeting of INWES in November. In addition, there is an interview with Monique Frize, Past President of INWES and author of a new book on the history of women in science and engineering.

There are also sad news. Betty Laverick from the UK who was the Chair of ICWES9 in 1991 died in January. Sue Bird has written a tribute to her life and her contribution to ICWES and INWES over many years.

As always, we'd appreciate it if you forwarded the Newsletter to members of your organisation, colleagues, or persons interested in INWES and its issues.

Petra Mayerhofer

Contact: petra.mayerhofer@dibev.de



News from the President

Happy New Year to everyone, I hope that 2010 is successful and peaceful for you all.

In October, I attended the Partners' Forum at UNESCO in Paris. This was a one day meeting for people representing Non Governmental Groups (NGOs) who were allied to UNESCO, and it took place on the day before the main UNESCO meeting. This was a fascinating day, and enabled me to have a much greater understanding of the diverse workings of UNESCO, to know how many groups of people are involved, and to understand how many different projects and initiatives are being undertaken all over the world. Although the possibilities for networking were huge, it was not set up in such a way which made meeting people easy, and there were people I would have liked to talk to but it was not possible. However, this was the first time a Partners' Forum had been run, and so both UNESCO and INWES will know more in future about what is what! Monique Moutaud should be congratulated as she attended many days of the main UNESCO meeting.

Also in October I went to Long Beach in California for the Society of Women Engineers (SWE) Conference. This was a huge conference with about 5000 delegates and a very large exhibition of people from all the large companies in USA. Gail Mattson and Nadia Ghazzali were also there. As well as making contact with the SWE President and other officers, we also tried to raise funds for INWES from the companies at the exhibition. Unfortunately, we have had no success at this point in time. It was a most impressive Conference, and the people there were great, so we felt that we had both had a good time and learned a lot.



Sue Bird (INWES President), Nora Lin (SWE President), Gail Mattson (INWES Treasurer), and Nadia Ghazzali (INWES General Secretary) during the SWE Conference 2009

From the beginning of this year, we are having a recruitment drive. I have asked the Board, and now am asking you if you all can try to recruit more members for INWES. We now have a category of members called University/Institute members, so that Universities and Scientific Institutes can join as members in their own right. You will find attached a factsheet and membership forms for the different categories of members, and I hope you will try to get as many new members as you can. In addition, if you can identify possible sources of funding, especially if you can help, please let us know. Remember, INWES is your organisation, and the more members and funding we can get, the more influential we will be and the more work we can do around the world. We all know there is a huge need for it. Following on from that, we do have a need for more volunteers for our committees, so please let us know if you think you could do anything.

Sue Bird, INWES President



INWES Annual General Meeting 2009

by Nadia Ghazzali

INWES has held the Annual General Meeting 2009 electronically from November 19 to November 22 2009 inclusively.

As specified in the INWES By-Laws, only the organisational members were entitled to vote for this AGM.

The AGM5 Motions which were voted on are:

AGM5.1: Vice-President Conference job description

AGM5.2: Vice-President Programs job description

AGM5.3: President-Elect job description

AGM5.4: New Institute/University Membership category

AGM5.5: Executive Committee composition description

AGM5.6: Board of Directors description

AGM5.7: Nominating Committee description

The results of the voting are as follows:

Motions AGM5.1, AGM5.2, AGM5.4, AGM5.5 and AGM5.7 have been accepted unanimously.

For both Motions AGM5.3 and AGM5.6, there were 2 abstentions and, respectively 25 and 28 votes for.

INWES Membership Renewals and Fees for 2010

Please renew your membership for 2010 if you have not done so already. The best way to do it is via the INWES homepage (www.inwes.org → Membership Services → Membership Renewal).

If you are uncertain about your membership status (e.g. is 2010 already covered?) please contact the INWES office:
inwes@mat.ulaval.ca

Please note that there is a new membership category available: Membership for Institutes/Universities.

Available payment methods are money order, wire transfer, credit card form and cheque.

Further details with respect to payment are given on the payment information page at the INWES homepage.

To Corporate and Organisational Members: please also make sure your information and membership categories are updated on the INWES online system..

Public Consultation on the future EU2020 strategy

In presenting his programme for the new Commission, President Barroso set out his vision for where the European Union should be in 2020. He believes that Europe needs a common agenda to make a full recovery from the crisis, while speeding up the move towards a smart and green economy: **the EU2020 strategy**.

The Commission intends to present a formal proposal for the EU 2020 strategy, with a view to the EU's Heads of State and government adopting the strategy at their spring 2010 meeting.

Thus, from 24 November 2009 to 15 January 2010 the Commission asked citizens, organisations and public authorities to voice their views on some suggested broad policy considerations for the future EU2020 strategy. The broad considerations set forward notably omitted to mention the role of "women in science" in European research. See ec.europa.eu/eu2020/ for further information.

On behalf of INWES President Sue Bird participated in the consultation. Her contribution is reproduced below.



Princes Risborough, UK. January 14th 2010

Dear Sirs

I represent The International Network of Women Engineers and Scientists (INWES) which is an international organisation which was established to strengthen the capacity of individuals, organisations, and corporations to influence policies in Science, Technology, Engineering, and Mathematics (STEM) worldwide, and encourage the education, recruitment, retention, support, and advancement of professional women and students through an international network of organisations and experts. Our goal is to build a better future worldwide through full and effective participation of women and girls in all aspects of STEM.

Our members are organisations, individuals, corporations and university/institutes, come from all over the world, including Eastern and Western Europe, and are from various backgrounds, academic, industrial, commercial etc.

I would like to comment briefly on the proposed strategy from the point of view of INWES, as follows.

We would agree with the fact that the exit from the present economic crisis will depend on innovation and using resources better, and that the key to input will be knowledge. We agree that this new approach should take advantage of a world of globalisation and interdependence. We agree that huge opportunities exist for people and businesses if they are equipped to take them and that these opportunities can be exploited if we have knowledge based, greener and more inclusive economy.

Key Drive 1: Creating value by basing growth on knowledge. This section concentrates on education and research, innovation and creativity, and comments that a great emphasis on vulnerable groups, gender equality and social cohesion is needed to ensure that no-one is excluded from knowledge.

We strongly agree with this statement, as it is well known that education will bring benefits both to the workplace and to society at large. However, we would take it further to highlight the

potential for attracting more women into science, engineering and technology where we need to consider the better use of resources. At the moment the crucial area of science, engineering and its associated subjects are missing out on the talents of nearly half of the population. We are facing some of the most difficult technical problems the world has encountered, and we are trying to solve them without the input of a huge part of the population whose potential talent and skills may be able to supply a completely different view of the problem and its solution. This is not just the case in the laboratory, but it is to do with science policies and the direction of research. We would therefore like to see an explicit statement in the strategy which encourages the participation of women in science and engineering both by encouraging girls to study the relevant subjects at school, and by encouraging women to use scientific training and education to add value to the economy and society at large. From our experience, when policies are put into place to benefit women in STEM subjects, benefits are felt by all, including men, the economy and society.

We would also suggest that more research work is carried out into gender issues in science and engineering, which should investigate how this large group of people can contribute to the economy and society. INWES has experience of situations all over the world in different countries and cultures, and research in this area would be extremely useful in promoting Key Drive 1.

The above views will also inform **Key Drive 2: Empowering people in inclusive societies.** Once again, encouragement for women to take a proportionate part in a competitive economy will add value and skills to the workforce and society.

Similarly for **Key Drive 3: Creating a competitive, connected and greener economy,** the involvement of more women in the science of a green economy will increase the potential of the scientific community to solve the complexities of this subject and help meet the environmental goals. This in turn should lead to better use of resources and higher productivity.



In summary, the inclusion of specific initiatives and targets for attracting and keeping women in STEM and involving them in its policy making will help to achieve some of the aims in the EU2020 strategy, and we consider that it is important to make sure that this is included in the strategy.

Thank you for the opportunity to comment.

Yours faithfully

Sue Bird, UK
President, INWES.

BIEN2009: INWES Asian Network

"Women in green technology towards a sustainable Asia" hosted by KWSE

by Kong-Joo Lee and Jung Sun Kim

The INWES regional conference "BIEN2009: INWES Asian Network" was held from August 27 to 29, 2009 in Busan, Korea. The venue "Westin Chosun Hotel" is located in Haeundae beach, one of the popular international convention sites in Korea. Organized by the Association of Korean Women Scientists and Engineers (KWSE), 287 participants from 24 nations gathered for a two day event under the theme, "Women in green technology towards a sustainable Asia." The conference aimed to address the role of women scientists and engineers in the field of sustainable growth which has become a global concern more than ever. BIEN2009 was a succession of BIEN2003 and ICWES13 which were held in 2003 and 2005 respectively, which were also supported by INWES and hosted by KWSE.

On the first day, following a welcome message from the Conference Chair, Mi-Sook Won (President of KWSE), the Organizing Committee Chair, Byung Joo Min declared the conference open. The Deputy Mayor of the Busan Metropolitan City, Mr. Lak-hyeong Jeong, as well as members of the Korean National Assembly, the honorable Youngah Park, and Se Yeon Kim delivered congratulatory remarks. The keynote speech entitled "Sustainable development – the role of international networking by women engineers and scientists" was delivered by Sue Bird, President of INWES followed by another keynote speech entitled, "The economics of climate change" by Hoesung Lee, the Vice Chair of



IPCC (Intergovernmental Panel on Climate Change). Invited speakers included Alumanda De la Rosa, Director of the Philippine Nuclear Research Institute, Gewon Hahn from the Scripps Institute, USA and Maki Iwakuma, President of INWES Japan. Other distinguished guests included Dr. Maeng Eon Park, President of Pukyong National University, Dr. Dae-Cheol Kim, President of the Korean Society of Oceanography, Dr. Yong Ki Park, Vice President of the Korea Research Institute of Standards and Science, Dr. Se Moon Park, President of Korean Women's Nuclear Professional Association, Dr. Kong-Ju-Bock Lee, Director General of NIS-WIST Korea and Dr. Myung Hee Jung, former President of KWSE. The main sponsors of the meeting were the National Institute for Supporting Women in Science and Technology (NIS-WIST), the Busan Metropolitan City Government, The Korean Federation of Science and Technology Societies (KOFST) and the Busan Convention and Visitors Bureau.

An important event of this year's regional meeting was the INWES Asian Network Workshop, which was held on the second day. Chaired by Mi-Sook Won, President of KWSE, 61 people of 17 nationalities including Japan, Korea, Pakistan, Philippines and Thailand attended the 3 hour workshop to discuss the possibility of establishing a regional network of INWES of the Asia-Pacific members. Monique Moutaud, Vice President of INWES, gave the first presentation "INWES and the Regional Networks: a way to increase its outreach in the different regions of the world." Then, Durdana Habib, Board of Director of INWES (representing Pakistan) gave a



talk entitled “Empowering women.” Aguri Nakano, member of INWES-Japan, followed with the presentation “Things to do for a better shaped future-What we can do for Asian Network as INWES Japan.”

An invited speaker from Thailand, Nantana Gajasen from the ASEAN University Network emphasized the importance of an Asian Network and explained how the government of Thailand is actively pursuing the advancement of Science and Technology. The final talk “Present Address of Korean Women in Science and Engineering” was delivered by Kong-Joo Lee, President-elect of INWES after which she moderated the open discussion. After a heated and very active discussion, all participants seem to agree on the need for an Asia-Pacific network within INWES. Suggestions were made for forming a student chapter as well. Kong-Joo Lee concluded the workshop by asking for volunteers for the set up of the network which will hopefully commence at ICWES15 in Australia in 2011.

Besides the workshop, eight “Scientific and Technical” sessions which focused on biotechnology, information technology, energy /environmental technology and nanotechnology (thus, BIEN), as well as four special sessions on “Gender, Leadership, Policy and Education” were held where 19 invited speakers and various presentations were made. Best Poster

Awards and Travel Awards were given at the Closing Ceremony which was followed by a banquet of sumptuous Korean meal served with dance and music. Myung Hee Jung, ICWES13 Chair and former board member of INWES proposed a toast wishing more success of INWES.

The INWES board meeting was held before and after the conference at the APEC Climate Center (APCC, <http://www.apcc21.net>). The INWES board meeting was sponsored by APCC and the Busan regional branch of KWSE. Moreover, during the meeting, an “INWES booth” was set up to advocate INWES.

Participants of the BIEN2009 bid farewell to each other with anticipation of gathering again in ICWES15 in 2011. To continue with the spirit that has been kindled in Busan, KWSE with the cooperation of INWES hopes to participate in organizing the first general meeting of the INWES Asia-Pacific Regional Network in 2011 at ICWES15.

Regional Conferences are held in years ICWES is not held. The next ICWES is in 2011 and thus we are looking forward to another regional conference in 2010.

Obituary: Elizabeth Laverick (Betty) (UK)

by Sue Bird

Betty Laverick died at the beginning of January after being ill for some time.

After graduating with a PhD in Physics, Betty worked in industry working on microwaves and radar research. She became the Technical Director of the company where she worked before, in 1971, she became the Deputy Secretary of the Institution of Electrical Engineers (IEE) (U.K.), where she focused on the management of professional engineers.

She was always interested in the promotion of women in science and engineering, and was the President of the Women's Engineering Society (WES) in 1969 after which she carried out a number of roles within the society. Her interest also took her to many other countries where she attended ICWES Conferences, then she instigated an ICWES in UK, and became Chair of ICWES9 in Warwick, in 1991. The Conference was a huge success. Betty was on the Continuity Committee of ICWES, a committee which tried to ensure that ICWES occurred about every 3 years, and she was also involved in ICWES10 in Budapest and gave some help to the Japanese at the beginning of their work on ICWES11. Although she was not able to travel abroad once INWES came into being, I always feel that it was partly due to her that INWES was able to be set up as she made sure that ICWES was on a firm footing. She was always very interested in what happened with INWES even though latterly illness meant that she couldn't help practically.



Betty Laverick during her time working in the electronics industry. By courtesy of the Institute of Engineering and Technology, UK.

Betty was presented with an OBE (Order of the British Empire – an honour in the UK which is presented by the Queen) for her services to women in engineering.

Betty was always approachable, wise, good company and a good friend. She was very clever, and used her intelligence to help other people. I often asked her for advice, and she would always bring something new to the discussion. We will miss her.

News from INWES

Resource Mobilization and Promotion of INWES – A joint mission in Geneva

by Dillip Pattanaik

The INWES Projects and Programmes Committee (PPC) identifies potential programs and projects aligned with INWES mission and vision

with a worldwide scope. The committee is chaired by INWES Vice-President Yvette Ramos, based in Geneva.

Eng. Yvette Ramos and Mr. Dillip Pattanaik, Executive Director of OSVSWA (and a member of the PPC) have gone with a mission for resource mobilization and promotion of INWES during Mr. Pattanaik's visit to Geneva between 25th and 28th November 2009. The bare pur-



pose of the visit and initiative was to mobilize possible sources to generate financial support/resources for undertaking development activities in India, which could include INWES projects.

OSVSWA, directed by Mr Pattanaik, as a not for profit making organization has been implementing many community centered activities for improving the quality of life of poor, marginalized tribals and backward families in Orissa state of India for last 30 years. Within these 30 years of efforts, OSVSWA has reached at the poorest of the poor people and achieved incredible successes. Even after many programmes launched by the government, people still are facing numerous allied problems that because all schemes and allocated resources does not arrive at the targeted people. No science and engineered technologies has helped them yet to join in development mainstream.

Looking at such heart-rending condition of people and their standard of living and a vision to work for such people to uplift the standard of life, Mr. Pattanaik communicated Eng. Ramos, who organized meeting with different prospective persons and institutions. These possible sources were visited and met by both Mr. Pattanaik and Eng. Ramos.

Here is a brief description of the entire discussion with the concerned people and outcomes of the meetings:

1. Meeting with Dr. Pierre Willa, Responsible International Relations, UNIGE (University of Geneva) and Mr. Yves Leuzinger, Director, HEPIA (Haute Ecole d'Ingenierie et d'Architecture de Geneva) as well as Dr. Yvan Franecy, Professor, Department of Environment, HEPIA, where discussions were held on all aspects of development and mainstreaming of existing and planned activities / ideas of OSVSWA, as well as the imaginary plans to implement here after (in Orissa).

After a long discussion, Dr. Pierre Willa from UNIGE expressed his readiness to start-up a Summer Field Training Programme in India, which was heartily accepted and thanked by Mr. Pattanaik and Eng. Ramos.

Dr. Yvan Franecy, Professor from HEPIA also suggested drafting a concept note that should highlight on a team of delegation team to visit India (Orissa) for an in-depth understanding on the local situation and problems faced by the people, which afterward would be a bond for collaboration and building partnership to implement the programme in Orissa, India in collaboration with INWES.

2. An important discussion also held with Ms. Véronique Sordet and Dr. Alex Waehry from the European Research Programme of Geneva, Euresearch, hosted at the UNIGE, regarding opportunities of undertaking research programme on various development issues including ICT and Gender. Gladly it was suggested by both Dr. Alex and Ms. Sordet to identify possible collaborative research institution / partners which could be partnering and work together in responding to EC calls (European Commission programmes), where, Mr. Pattanaik and Eng. Ramos agreed to look for possible partners to work in India.
3. Finally Ms. Bianca Therese, Director of operations from STMF (ST Microelectronics Foundation) was introduced by Eng. Ramos (June 2009). The discussion was very much productive and a partnership has already initiated, which is yet to be launched. Thanks to Ms. Bianca for such unanimous support. We would appreciate, if she could extend STMF's support in other development initiatives.

Myself and Eng. Ramos have taken all above initiatives for mobilizing resources for promoting INWES and initiating programmes in Orissa, India. We thank all the people we met as persons and as institutions for all their support and possible options to be partners with. We will be grateful and thankful to people/institutions, who we shall create collaboration with.



INWES Meetings

25 November 09 – Skype – 7th Executive meeting #2009 – Participants: Sue Bird, Nadia Ghazali, Monique Moutaud, Kong-Joo Lee

Future meetings:

25 February 2010 – Skype – 1st Executive meeting #2010

28 April 2010 – Skype – 2nd Executive meeting #2010

World Engineering Congress "Engineering 2010-Argentina"

Engineering has periodically organized world engineering congresses sponsored by the World Federation of Engineering Organizations (WFEO) (e.g. 2000 in Germany, 2004 in China, 2008 in Brazil and 2009 in Kuwait). The next World Engineering Congress is "**Engineering 2010-Argentina**", with the topic "Technology, Innovation and Production for Sustainable Development" that takes place from **17-20 October in Buenos Aires, Argentina**. It should be an excellent opportunity to strengthen ties among countries. The World Congress expects to welcome more than 5,000 representatives of engineering associations, consultancy groups, the business, productive and industrial sectors, research institutions, academies and governmental authorities to debate about engineering and its contributions to society.

The **Call for Papers** is open until **1 April**. Papers can be proposed on the specific or thematic chapters of the Congress and for the two forums of the Congress. Specific Chapters are: (1) Information and Communication Technologies, (2) Energy and Climate Change, (3) Innovation in Primary Production and Agro alimentary Industries, (4) Large Metropolises and their Infrastructure. Thematic Chapters are: (5) Engineering Education for Sustainable Development, (6) Engineering Professional Practice. Forums are: (7) Women in Engineering and Business, and (8) Young People in Engineering and Business.

The forum "Women in Engineering and Business" (WEB) is an all-day event on the 17 October. The WEB is chaired by WEB President Olga Cavalli and WEB Vicepresident Silvia Wolanksy. The forum is composed of two major sub-topics:

(a) Women, Engineering and the Productive Sector for Sustainable Development:

Strategies to promote interest and women's access to studies to engineering studies. Strategies and policies to overcome such difficulties. the role of elementary education in women's vocations towards engineering. Involvement of women engineers with worldwide actions to advance to sustainable development, the eradication of poverty and the protection of environment. The contribution of women to the humanization of engineering.

(b) Development of Women Engineers' Professional Activities:

New opportunities and challenges offered by technology in relation with engineering, women and business. Fostering women entrepreneurship in the technology sector. Strategies for women that come back to work after a while, how to restart their careers.

We encourage women to submit papers to all topics of the Congress. Please inform Yvette Ramos, INWES Vice-President Program (yvette.ramos@wanadoo.fr), if your paper is accepted as it is the aim of INWES to make all contributions of women more visible.

"Engineering 2010-Argentina" is organised by Argentine Union of Associations of Engineers (UADI) and Argentine Center of Engineers (CAI) and is sponsored by WFEO and UNESCO.

See the Congress homepage for further information on the Congress and the Call for Papers: www.ingenieria2010.com.ar



News from INWES Members

Interview with INWES Past President and author Monique Frize

Monique Frize, Past President of INWES and a professor at the Department of Computer and Systems Engineering, Carleton University, and at the School of Information Technology and Engineering, University of Ottawa, has just published **The Bold and the Brave: A History of Women in Science and Engineering** (see INWES Member Newsletter #4 for further information on the book).

On December 1st 2009, the book launch for *The Bold and the Brave* was held at University of Ottawa, sponsored by WIE Ottawa, WISE Ottawa and the University of Ottawa Press.

During her speech, Dr. Frize had a special mention for the women from the Montreal Polytechnique given that her book coincidentally is launching in December, 20 years later.

On December 6, 1989, a twenty-five year old man entered École Polytechnique, an engineering school in Montreal, Canada, and shot twenty-eight persons. He started by separating the women from the men in an engineering class, sending the men out and then shooting all the women. In total, that day, he killed thirteen women engineering student and one woman staff and injured ten other women and four men before turning the gun on himself. The anniversary of the massacre has since been commemorated as the National Day of Remembrance and Action on Violence Against Women in Canada.

"As first holder of the Northern Telecom/NSERC (Natural Sciences and Engineering Research Council) Chair at the University of New Brunswick for women in engineering, my national mandate was to increase the participation of women in this profession across Canada. My first day in this position had been set to December 11, 1989; however, instead of being in my office developing programs for this role, I attended the funeral in Montreal of 11 of the women killed on December 6. Then I flew back to Fredericton and had to speak to over 400 people and the media about this tragedy. This

was the most difficult day of my 20 years as a professor. But I promised everyone that day that women would not be afraid to be what they want to be and I vouched that there would be 1000 more women engineers for each one that died on December 6. My job became a mission! And ten years later, Canada had more than 15,000 new women engineers.

The book I have written is a legacy of the Chair, to share all that I learned in the past 20 years with everyone, and to try to explain why we still have low enrolments today in these study programs. It took eight years to complete the book, due to my heavy academic load. It was a pure chance that it came out on December 1 2009, exactly 20 years after the massacre.

... I think that it is very appropriate that we can remember those 14 women who died at Polytechnique and think about some of the things in the book and what we can do to remember them and also (how) to push progress forward."

On the occasion of the book launch, Jennifer Ng Ain Kin, WIE Ottawa Chair, interviewed Monique Frize.

Q What was the most challenging part of the book to write? What was the easiest?

A The first two parts (philosophy and history) were the most difficult as I had to find all the material from sources that I had not seen before. The contemporary part was the easiest, having done 20 years of work on women in science and engineering through the two Chair positions I held (Northern telecom/NSERC women in engineering Chair at UNB, then the NSERC/Nortel Chair for women in science and engineering at UO and CU).

Q If you did not study engineering, what would have been your alternate choice?

A Medicine was my other choice.

Q If you restarted your engineering studies today, what specialties would catch your attention?



Dr. Monique Frize (left) and Jennifer Ng Ain Kin (WIE Ottawa Chair) at the book launch event. Photo by Barbora Dej

A The same: Electrical Engineering and then Biomedical Engineering

Q Is there an engineering domain today which one has to be brave & bold to tackle?

I think most would require a woman with confidence, who believes in herself. But perhaps biomed and environmental are a little easier for women than say mining or construction, petroleum, etc.

Q Any particular advice for today's young female engineer?

A Believe in yourself! And find good mentors at each stage of a career. Jump over hurdles and you will reach your goals. Pick your battles carefully and sleep 24 hours prior to responding to conflict by letter or a meeting (except if an immediate response is needed).

Q Any particular advice for today's young male engineer?

A You need to see the value in feminine attributes and respect your female colleagues. Everyone has their talents and skills and it is important to value the contributions from people who are different from us. You can be part of the solution to build a balanced world of engineering and technology.

Q Anything else that you would like our IEEE Canada readers to know about your book?

A Everyone can find something in the book that they can do to move towards an engineering profession that is more balanced and that respects everyone's perspectives and contributions. The book will hopefully also help mothers, fathers, uncles and aunts to open up opportunities for the girls in their family to consider more career choices, including engineering!

Monique Frize (2009) *The Bold and the Brave : A History of Women in Science and Engineering*. University of Ottawa Press, ISBN 978-0-7766-0725-2

dib Conference 2009 on Creativity

by Petra Mayerhofer

The annual national dib conference was held from 20-22 November 2009 in Hanover, Germany, under the patronage of Federal Minister Dr. Ursula von der Leyen. In line with the European Year of Creativity and Innovation 2009, the conference topic was creativity, one of the basics of engineering and of a knowledge- and technology-based society.

Over one hundred women engineers and students in engineering attended the conference. They were offered numerous workshops covering diverse aspects of the conference topic: innovation in practice, creativity techniques, creative writing, clown theatre, Web 2.0, etc.

In addition there was a girls program focusing on the intersection of creativity and engineering that was highly popular. In one workshop the girls built functioning robots. Further highlights were the social event on Saturday evening and the sightseeing program of Hanover.

The next national dib conference will take place from 12-14 November 2010 in Kassel.



Conferences, Workshops & Events

18-22 February | San Diego, USA
2010 Annual Meeting of the American Association for the Advancement of Science (AAAS)
www.aaas.org/meetings/2010/

13-15 May | Winnipeg, Manitoba, Canada
CCWEST2010 – Leading the Way
13th Bi-annual Conference of the Canadian Coalition of Women in Engineering, Science, Trades and Technology
www.cctest2010.ca

11-12 June | Newcastle upon Tyne, UK
Annual Conference and General Assembly of European Platform of Women Scientists (EPWS)
www.epws.org

25-27 June | Bochum, Germany
RUHR.2010: Education of girls and women in the field of intercultural tension
Annual meeting of the University Women of Europe (UWE)
www.dab-ev.org/index.php?id=477

2-7 July | Torino, Italy
ESOF – Euroscience Open Forum
www.esof2010.org

5-9 August | Mexico City, Mexico
30th IFUW Triennial Conference: Education, Empowerment & Development
International Federation of University Women
www.ifuw.org

17-20 October | Buenos Aires, Argentina
Engineering 2010 – Argentina
World Engineering Congress and Exhibition incl. Forum "Women in Engineering and Business" on 17 October
Call for Papers: 1 April 2010
www.ingenieria2010.com.ar

4-6 November | Orlando, Florida, USA
SWE10: The Annual Conference for Women Engineers
Submission deadline: 19 February
www.swe.org

19-22 July 2011 | Adelaide, Australia
15th International Conference of Women Engineers and Scientists (ICWES15)
www.icwes15.org

5-7 September 2011 | Geneva, Switzerland
World Engineer's Convention 2011 (WEC 2011)
www.wec2011.ch

INWES Member Newsletter

Deadline for Issue #6: 30 April 2010

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INWES Board

Executive Committee

- President Sue Bird, WES, UK
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