





The 15th International Conference of Women Engineers and Scientists

Adelaide Convention Centre

Adelaide, South Australia

ICWES15

REPORT TO INWES BOARD

DR. MARLENE KANGA FIEAust CPEng
Co-CHAIR, THE 15TH INTERNATIONAL CONFERENCE FOR WOMEN ENGINEERS AND
SCIENTISTS (ICWES15)



Leadership, Innovation, Sustainability

The 15th International Conference of Women Engineers and Scientists

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HOSTS: ENGINEERS AUSTRALIA

- ENGINEERS AUSTRALIA IS THE PEAK BODY FOR THE ENGINEERING PROFESSION IN AUSTRALIA WITH MORE THAN 97,000 MEMBERS
- WOMEN COMPRISE APPROXIMATELY 10.9 PERCENT OF MEMBERS
- TOTAL 10,641 FEMALE MEMBERS, AT JUNE 2011



LOCATION AND VENUE

- Dates: July 20-22, 2011
- Venue: Adelaide Convention Centre, Adelaide Australia
- Organiser: Engineers Australia and INWES
- ICWES15 Co Chairs: Dr. Marlene Kanga and Ms. Ha Do
- Theme: Leadership, Innovation and Sustainability
- APNN: First Asia Pacific Nation network meeting held on Tuesday 19th July



ICWES 15 ORGANISING COMMITTEE

- Dr Marlene Kanga, Director BT Risk Services and iOmniscient Pty. Ltd., Co-chair Organising Committee
- Ms Ha Do, Engineer, Hays Consulting, Co-chair Organising Committee
- Dr Rebecca Gravina, Senior Lecturer Civil Engineering, RMIT University, Co-chair Technical Committee
- A/Prof. Julie Mills, Program Director, Civil Engineering, University of South Australia, Co-chair Technical Committee
- Ms Gaye Francis, Director R2A Pty. Ltd, Treasurer
- Ms. Michelle Shi-Verdaasdonk, Women in Engineering National Committee Chair, Sponsorship Coordinator
- Ms Caroline Argent, Division Director, Engineers Australia SA
- Ms Catriona McAuliffe, Conference Manager, Engineers Australia
- Dr Emma Parkinson-Lawrence, Lecturer in Life Science, School of Pharmacy and Medical Sciences,
 University of South Australia (resigned October 2010 as now on maternity leave)
- Dr Sally Plush, Lecturer in Chemistry, School of Pharmacy and Medical Sciences, University of South Australia
- Dr Tara Pukala, Chemistry Lecturer, School of Chemistry & Physics, University of Adelaide
- A/Prof Ann Roberts, Deputy Head of School of Physics, The University of Melbourne



ICWES 15 TECHNICAL PROGRAM COMMITTEE

- Julie Mills, University of South Australia (Co-Chair)
- Rebecca Gravina, RMIT University (Co-Chair)
- Gunilla Burrowes, University of Newcastle
- Margaret Jollands, Royal Melbourne Institute of Technology
- Sally Male, University of Western Australia
- Melissa Marinelli, Curtin University of Technology
- Dr. Sally Plush, University of South Australia
- Dr. Tara Pukala, University of Adelaide
- Pam Roberts, Australian National University
- Elizabeth Smith, University of South Australia
- Delene Weber, University of South Australia



ADVISORY COMMITTEES

LOCAL ADVISORY COMMITTEE

- The Hon. Trish White Member (former member for Taylor, SA), an engineers and a Fellow of Engineers Australia
- Professor Martin Lambert, School of Civil, Environmental and Mining Engineering, University of Adelaide
- Professor Tanya Monro, Director, Centre of Expertise in Photonics, University of Adelaide

INTERNATIONAL ADVISORY COMMITTEE

 An International Advisory Committee with 23 members from round the world was established to review and select technical papers for the Conference



OVERVIEW - 15th International Conference for Women Engineers and Scientists (ICWES15)

- First time this conference was held in the Southern Hemisphere
- Partner with International Network of Women Engineers and Scientists (INWES)
- Almost 300 abstracts from 30 countries
- Almost 600 delegates from 30 countries
- Major organisations and universities as sponsors, \$300,000 in sponsorship
- Supported by 7 major member organisations for science and engineering in Australia and NZ
- Supported by UNESCO travel grants





Diamond Partner



Platinum Partner





Gold Partners





Silver Partners

SPONSOR

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Dinner Partner



Internet Caté Partner



"Future Minds" School Expo Partner



Satchol and Lanyards Partner











Industry Partners



International Travel Assistance Grants







Government Pertners







SUPPORTING MEMBER ORGANISATIONS

- Institute of Professional Engineers New Zealand (IPENZ)
- The Royal Society New Zealand
- FASTS (Federation of Australian Scientists and Technology Societies)
- WISENET (Women in Science and Engineering Network)
- Materials Australia
- Australian Institute of Project Management (AIPM)
- Australian Local Government Women's Association (ALGWA)

KEY EVENTS

- Asia Pacific Nation Network Meeting network with other women's groups across Asia, hosted by Korean women (KWSE)
- INWES AGM and Board meetings
- Scholarship program supported by UNESCO
- Technical Site tours
- Training Workshops
- Future Minds Expo for High School Students



HIGH PROFILE SPEAKERS

- Hon. Kate Ellis, Federal Minister for Status of Women
- Ms. Gay Thompson, MP South Australia
- Janet Holmes a Court Chair John Holland Group AC
- Dame Jocelyn Bell Burnell DBE
- Emeritus Prof. Elizabeth Taylor AO
- Maria Laffargue, first woman President of WFEO

– CEO Circle:

- Kathryn Fagg, Vice President Linfox Logistics
- Kathy Hirschfeld, Board member, Snowy Hydro
- Helen Gluer, CEO Stanwell Corporation Queensland
- Karen Moses, COO, Origin Energy Limited



OTHER HIGHLIGHTS
 Bernie Hobbs , science broadcaster, judge on The New Inventors, conference facilitator

- Invited speaker sessions with panel discussions:
 - Dr. Di McCarthy, CEO, Royal Society NZ
 - Dr. Cathy Foley, President FASTS
 - Prof Tanya Monro, Chair of Photonics and Director, CoEP
 - Sylvia Tulloch, Chair EcoQuest Ltd, Director DyeSol
 - Dr. Gretchen Kalonji, Head of Sciences, UNESCO
 - Ms. Kathy Hirschfeld, former GM BP, Company Director
 - Prof. Karen Reynolds, 2010 Professional Engineer of the Year
 - Melissa Mellen 2010 Telstra Businesswoman of the Year
 - Lorie Jones, Environmental Engineer
 - Sylvia Tulloch, Director, Dyesol Limited
- Leading women scientists and engineers from 25+ countries



CONFERENCE PAPER THEMES

- Attracting, developing and retaining women engineers and scientists.
- Outstanding practice models of industry commitment to diversity and equality in the workplace.
- Achievements, innovations and research in the various fields of engineering, science and technology
- New ideas and solutions to contemporary problems including climate change, water, energy and sustainability



SOCIAL EVENTS

- Opening Cocktail Party
 - Art Gallery of South Australia
- Gala Dinner:
 - Australian theme
 - MC Jean Kitson, comedienne
 - Taik Oz classical music drummers
 - "Fit for Work" PPE for women launch
 - Dance Band
- Poster Session
 - Opening by Ms. Gay Thompson Member of Parliament
 SA
 - Meet the authors of posters from around the world



DELEGATE S

Country	State	Delegates	AP	Total
Algeria		1	0	1
Australia	(not specified)	19	0	19
Australia	ACT	5	0	5
Australia	New South Wales	65	1	66
Australia	Queensland	36	0	36
Australia	South Australia	68	1	69
Australia	Tasmania	4	U	4
Australia	Victoria	50	1	51
Australia	Western Australia	16	1	17
Dangladesh		1	0	1
Brazil		5	0	5
Canada		3	0	3
Congo France Germany		1	0	1
		2	0	2
		5	0	5
Ghana		7	0	7
India		5	0	5
Indonesia		5	0	5
Japan		12	0	12
Kenya		3	0	3
Korea		19	0	19
Malaysia		1	0	1
Mexico		1	0	1
New Zealand		10	0	10
Nigeria		43	1	44
Papua New Guinea		1	0	1
Senegal		1	0	1
South Africa		2	0	2
Spain		1	0	1
Taiwan		2	0	2
Uganda		1	0	1
United Kingdom	United Kingdom		1	12
United States		23	3	26
		429	9	438

TRAVEL AWARDS

- FUNDING total 165 travel grants/ scholarships/ free attendance
 - ICWES15 Conference 5 x A\$2,000 awards to delegates from developing countries
 - Engineers Australia WiE Committee 5x500 awards tod delegates from within Australia
 - Association of Korean Woman Scientists and Engineers (KWSE) 33x
 US\$1,900 to delegates from Korea and developing countries
 - UNESCO 7 x US\$3,000 for travel grants for delegates from developing countries
 - INWES 5 x US\$3,000 travel grants for delegates from developing counties funded by UNESCO
 - 10 students from Korea attended APNN and Day 1 of ICWES15 at no cost
 - University students from Adelaide attended Day 3 at no cost (approx. 100)



CONFERENCE PROGRAM

		ICWES15 Prelimin	ary Program				
Monday, 18 July 2011							
10:00 & 14:00			Pre Conference Site Tours				
Tuesday, 19 July 2011							
08:00-17:00 08:30-17:00			Registration Open				
09:00-16:00	<u> </u>	Pre Conference Workshops INWES Asia and Pacific Nation Network Meeting					
09:30-16:00		IIWE3 AS	Corporate Day				
10:00 & 14:00			Pre Conference Site Tours				
17:30-19:00			Welcome Reception				
Wednesday, 20 July 2011							
07:30-18:00	Registration Open						
09:00-09:45	Opening Speeches, Welcome to Country, Sponsor						
09:45-10:30	Keynote Speaker 1: Dame Professor Jocelyn Bell Burnell						
10:30-11:00	Morning Tea & Posters - within the exhibition						
11:00-11:45	Keynote Speaker 2: Dr. Maria Jesus Prieto-Laffargue						
			Parallel Sessions for Streams Innovation / Sustainability /	Innovation / Sustainability /	1		
11:45-12:30	Leadership	Gender Equity / Workforce	Technical Research	Technical Research	Entrepreneurship		
	Invited Speaker: Gretchen Kalonji, then 1 Paper	Paper Session	Paper Session	Paper Session	Paper Session		
12:30-13:30			h & Posters - within the exhibition				
	Parallel Sessions for Streams						
13:30-15:00	Gender Equity / Diversity	Innovation / Sustainability / Technical Research	Higher Education	Innovation / Sustainability / Technical Research	Workshop 1: Moving Towards a Future		
	Invited Speaker Dr Cathy Foley, then 3 Papers	Paper Session	Paper Session	Paper Session	with Appropriate Technology		
15:00-15:30			n Tea & Posters - within the exhibition				
			Parallel Sessions for Streams				
15:30-17:00	Sustainability	Leadership	Industry Best Practice	Innovation/Sust/Tech Research	Workshop 2 = 18: Training Material for WiE Attraction, Retention and Higher Management Development		
	Invited Speaker Sylvia Tulloch, then 3 Papers	Paper Session	Paper Session	Paper Session	ivianagement bevelopment		
17:00-18:00			Poster Session	·	-		
Thursday, 21 July 2011							
08:00-17:00	Registration Open						
08:45-09:45	45 Sponsor & Keynole Speaker 3: Janet Holmes a'Court Parallel Sessions for Streams						
				Innovation / Sustainability /	Innovation / Sustainability /		
09:45-10:30	Innovation	Higher Education	Mentoring	Technical Research	Technical Research		
	Invited Speakers Professor Tanya Monro and Professor Karen Reynolds	Paper Session	Paper Session	Paper Session	Paper Session		
10:30-11:00	· ·		Tea & Posters - within the exhibition		•		
11:00-12:30			er, Kathy Hirschfield, Kathryn Fagg and Kar	an Moses			
12:30-13:30			th & Posters - within the exhibition Parallel Sessions for Streams				
13:30-15:00	Workforce Challenges	K-12 Education	Economic Impacts on Womens Oppurtunities	Technical: Structural / Buildings	Workshop 3: Making Change Stick! -		
			Оррилиниез		Systems for Sustaining Change		
	Invited Speaker Kathy Hirschfeld then 3 Papers	Paper Session	Paper Session	Paper Session			
15:00-15:30	Afternoon Tea & Posters - within the exhibition						
15:30-17:00	Gender Equity / Diversity	Innovation / Sustainability /	Parallel Sessions for Streams Women in Academia				
	Invited Speaker Dr. Di McCarthy then 3 Papers	Technical Research Paper Session	Paper Session	INWES AGM	Workshop 4: Local Government		
19:00-23:00	invited Speaker Dr. DrivicCartily then 3 Papers	raper Session	Gala Dinner				
Friday, 22 July 2011			CAR DITIO				
08:00-16:00			Registration Open				
08:45-09:45			peaker 4: Emeritus Professor Elizabeth Tay	lor, AO			
			Parallel Sessions for Streams				
09:45-10:30	Leadership	Gender Equity / Workforce	Innovation / Sustainability / Technical Research	Innovation / Sustainability / Technical Research	Innovation / Sustainability / Technical Research		
	Invited Speaker Melissa Mellen, then 1 Paper	Paper Session	Paper Session	Paper Session	Paper Session		
10:30 - 11:00	Morning Tea & Posters - wilthin the exhibition						
11:00-12:30	Innovation and Sustainability	Gender Equity / Workforce	Parallel Sessions for Streams K-12 Education	Innovation / Sustainability /	Workshop 5: Women Professional		
11.55-12.50				Technical Research	Engineers at Work		
	Invited Speaker Lorie Jones, then 3 Papers	Paper Session	Paper Session	Paper Session	The state of the s		
12:30 - 13:30	Lunch & Posters - within the exhibition						
13:30-15:00	Future Minds High School Expo	Gender Equity / Workforce	Parallel Sessions for Streams Gender Equity / Workforce Gender Equity / Workforce Technical Research Workforce Technical Research		Workshop 6: Kaizen a New You		
	i uture iviinus riigii outiooi expo			Technical Research	wurkshop o. Kalzen a New Tou		
		Paper Session	Paper Session	Paper Session			
15:00 - 15:30		Paper Session Con	Paper Session ference Close - Prizes Presented	Paper Session			

ENGINEERS AUSTRALIA

INWES VISIBILITY DURING ICWES 15 All INWES Board members invited to SA Governor's Reception

- Facilitated Asia Pacific Nation Network meeting with KWSE, presentation summaries in Program Book
- Session Chairs in Conference Program:

Prof Kong Joo Lee Ms. Monique Moutaud

Ms. Sue Bird Prof. Nadia Ghazalli

Dr. Myung Hee Jung, KWSE Dr. Jung Sun Kim, KWSE

Ms. Gail Mattson

- INWES AGM during Conference
- SWE launches ICWES16 at Closing ceremony
- INWES Booth in Exhibition Hall
- INWES Awards presented at Gala dinner



WEBSITE: www.icwes15.org

- Key conference information
- Committees
- Speakers
- Program
- Registration
- Accommodation
- Tourism
- Etc
- MEDIA COVERAGE National and International
 - Support from Australian Science Media Centre



FINALCIALS Total Registrations \$ 319,930 Total Sponsor and Exhibitor Income \$ 290,271 Other Income \$ 27,132 Total Income \$ 637,333 Total Expenses \$ 555,310 Surplus \$ 82,023

Allocation calculations for INWES:

Per MoU with INWES	Surplus	INWES Share
10% OF FIRST \$10,000	\$ 10,000.00	\$ 1,000.00
20% OF NEXT \$20,000	\$ 20,000.00	\$ 4,000.00
30% OF BALANCE	\$ 52,023.00	\$ 15,606.90
Total Surplus	\$ 82,023.00	\$ 20,606.90

INWES Share of Surplus and SEED Funding of A\$5,133 paid to INWES, January 2012.



CONFERENCE EVALUATION

– Good Points:

- Attendance by Federal and State Ministers for Women
- High media profile, reporting in newspapers and national radio
- Strong international presence, 300 delegates from overseas
- Good speakers fro plenary sessions
- Excellent papers technical and gender sessions
- Large numbers of posters
- Great support from volunteers
- Good balance of engineers an scientists on committees and for papers
- Excellent networking opportunities
- Good technical site visits
- Training and development opportunities
- APNN launched
- Social events showcasing the best of Adelaide and Australia



CONFERENCE EVALUATION – SCOPE FOR IMPROVEMENT FOR FUTURE EVENTS

- Difficulty in getting funding approval from UNESCO and final payments
- Non attendance by a small number of recipients of travel grants, loss of funding
- Problems with some travel award recipients arriving early and requiring more accommodation costs and difficulties with reconciling expenses
- Problems with reimbursing air-fares to some countries, additional costs incurred
- Delays in visa approvals requiring intervention from Australia









The 15th International Conference of Women Engineers and Scientists

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Adelace, South Australia

A very memorable and important conference for Australia which will be remembered for many years.

Many corporations show-cased their diversity programs at this conference and this has increased the importance of support for women in STEM Professions in Australia.

The INWES APNN was launched at this Conference and has gone on to support women in STEM in many other countries in the Asia Pacific.

