

Annual conference: 11 and 12 September 2009 Lecture Theatre B, Lower Concourse, Surrey University, Guildford

# The Power of Change

## Inspiring the next 90 years

To all WES Members and Guests

I am delighted to welcome you here to Surrey University for the “Power of Change” Conference as we celebrate our 90th anniversary. The Power of Change will give you an opportunity not only to celebrate the past, but also to come and help shape the Society for the future to inspire more women to achieve their potential as engineers, scientists and technical leaders. We have a diverse range of inspiring speakers that will offer sessions that are technical but accessible and who will share their own experiences and insights into the engineering profession.

At this year’s conference we have a connecting networks session with speakers from BP, Google and CISCO. Whether you are the diversity and inclusion lead, network chair or simply interested in learning how to establish a group and what works or sharing exciting ideas, this is for you. A special thanks to BP for supporting this session.

One of the programme highlights is an interactive school activity to connect regional schools girls with professional women engineers in sessions sponsored by Rolls Royce – my thanks to those of you who have volunteered to be interviewed as part of the session.

For those of you attending the gala dinner you will hear the thoughts of racing driver Alice Powell who plans to be the first competitive female in Formula One and have the opportunity to network with WES members and delegates.

My thanks to all this year’s sponsors BP, UKRC, Prospect and Rolls-Royce for their support in making this all possible and to our hosts Surrey University.

I wish you all an informative and enjoyable conference and look forward to hearing your feedback.

Jan Peters, President



## FRIDAY 11 SEPTEMBER PROGRAMME, Lecture Theatre B, Lower Concourse

Time	Session		
08.30–10.30	Registration		
<b>10.00</b>	<b>Opening and keynotes</b>		
10.00–10.10	<b>Welcome</b> by Patrick Dowling, WES Patron		
10.10–10.50	<b>Keynote 1 Engineering and innovation – the future</b> Wendy Shultz, Infinite Futures		
10.50–11.00	Q & A		
11.00–11.15	<b>Keynote 2 A professional society for technical women in the 21st century</b> Jan Peters, President		
11.15–11.30	Break		
<b>11.30–13.00</b>	<b>Session 1 Innovation and sustainability challenges – Panel and discussion</b>		
11.30–11.50	<b>Energy Efficient Cities</b> by Dr Ruchi Choudhary, Cambridge University		
11.50–12.10	<b>Innovation</b> by Dr Zoë Lock, Technology Strategy Board		
12.10– 12.20	<b>The outlook for energy: a view to 2030</b> by Liz Westcott, Exxon Mobil		
12.20–13.00	Q & A		
13.00–14.00	Lunch ( <i>The Rolls-Royce school programme interviews are taking place in AC building, rooms 01 &amp; 02 between 13.35 &amp; 13.55</i> )		
<b>14.00–15.45</b>	<b>Session 2 (3 parallel sessions)</b>		
	<b>Session 2.1 Climate change drive</b> Chair: Dr Stephanie Merry, Renewable Energy Association	<b>Session 2.2 Connecting women's networks workshop</b> Chair: Jan Peters	<b>Session 2.3 Engineering, past present and future</b> Chair: Prof Maria Petrou
14.00–14.20	<b>Rolls-Royce – Our part in the solution to the climate change challenge</b> Liz Watson, Rolls-Royce	<b>Workshop sharing best practices, and different women's networks with:</b>	<b>Women engineers with experiences from across the last 50 years will talk about their experiences and how things have changed.</b> Expect some lively and amusing anecdotes from some of the characters from the profession. This session will be videoed
14.20–14.40	<b>The Norfolk Coast: managing a changing and dynamic environment</b> Estelle Hook, Norfolk Partnership	<b>BP Global Women's Network</b> Linda Emery, BP D&I	Hilda Blount, WES President 1988–89
14.40–15.00	<b>Water scarcity and security</b> Dr Priti Parik, ARUP	<b>Connecting women in technology</b> Sarah Speake, Google and Nikki Walker, Cisco	Carol Marsh, Selex
15.00–15.20	<b>Setting out the engineering challenges of climate change and adaptation</b> Dr Elizabeth McDonnell, DECC	<b>Women Engineers in Germany – DIB</b> Petra Mayerhofer	Emily Spearman, Scott Wilson
15.20–15.45	Q & A	Q & A	Q & A
15.45–16.15	Coffee Break	Coffee Break	Coffee Break
<b>16.15–17.30</b>	<b>Session 3 (3 parallel sessions)</b>		
	<b>Session 3.1 Sustainability and infrastructures</b> Chair: Jackie Longworth	<b>Session 3.2 Innovation, technology – driving change</b> Chair: Dr Zoë Lock, Technology Strategy board	<b>Session 3.3 Engineers responding to changes in the supply and demand of energy</b> Chair: Ieda Gomes, BP
16.15–16.35	<b>Adapt and improve (grid switchgear)</b> Alison Simpson, Scottish Power Energy Networks	<b>Selecting and combining navigation and locomotion "Breadboards" to complete an Integrated Mars Rover Prototype</b> Nicola Soper, Astrium Satellites	<b>The Importance of engineering in large oil and gas projects</b> Sioban Woods, KBR
16.35–16.55	<b>London 2012 Assuring sustainability</b> Jane Durney, Commission for a Sustainable London 2012	<b>Innovation and technology driving change</b> Michelle McDowell, BDP	<b>The potential contribution of marine renewable energy to the UK's energy supply</b> Dr Stephanie Merry, Renewable Energy Association
16.55–17.15	<b>Ensuring sustainability on Crossrail</b> Ursula Lawrence, Crossrail	<b>The future of IT services</b> Kate Craig-Wood, MEMSET	<b>Energy needs of the future – roadmap for 2050</b> Rachel Morfil, ngrid
17.15–17.30	Q & A	Q & A	Q & A
17.30	Closing remarks		
18.15	Vintage bus to Brooklands. See registration desk for departure point		
<b>19.00</b>	<b>Conference dinner reception</b>		
<b>20.00–23.00</b>	<b>Annual Dinner</b> After dinner speaker – Alice Powell, racing driver		
23.00	Carriages		
23.55	Arrive back on campus		

## SATURDAY 12 SEPTEMBER PROGRAMME, Lecture Theatre B, Lower Concourse

Time	Session		
08.30–09.30	Registration, coffee, networking		
09.30–09.35	<b>Opening and keynotes</b>		
09.30–09.35	Welcome by Jan Peters, WES President		
09.35–10.05	<b>Keynote 1</b> Women and leadership in SET: a personal perspective Prof Julia King, Aston University		
10.05–10.35	<b>Keynote 2</b> Women in STEM – the future for women Annette Williams, UKRC		
10.35–10.55	<b>Progress: Yes and No</b> Elizabeth Griffin, Herzberg Institute of Astrophysics (Canada)		
10.55–11.15	Q & A		
11.15–11.30	Coffee break		
11.30–13.00	<b>Session 4 (3 parallel sessions)</b>		
	<b>Session 4.1</b> Civil Engineers to the rescue! Chair: Connie Shirley	<b>Session 4.2</b> <b>Professional and organisational development</b> Chair: Maria de Magalhaes, BP	<b>Session 4.3</b> <b>Get Creative!</b>  <b>Creativity training workshop</b> Bee Thakore, Big on Good
11.30–11.55	<b>Sustainability at the heart of our projects</b> Sally Sudworth, Halcrow Group	<b>Personal and professional development – the importance of professional societies in advancing your career</b> Agnes Segal, IET	
11.55–12.20	<b>Completing Bazalgette's vision</b> Siân Thomas, London Tideaway Tunnel	<b>Changing workplaces, cultures, practical approaches, what works</b> Milada Williams, UKRC	
12.20–12.45	Q & A	Q & A	Q & A
12.45–14.00	Lunch	Lunch	
14.00–15.45	<b>Session 4 (2 parallel sessions)</b>		
	<b>Session 5.1</b>	<b>Session 5.2</b> <b>Personal development</b>	
14.00–15.15	<b>Skills for futuring</b> Wendy Shultz, Infinite Futures	<b>Self Confidence, Self esteem and Self Control</b> Jan West, Mentor SET	
15.15–15.45	<b>Informal discussion</b> with Wendy Schultz and workshop participant to allow delegates to move to the <b>career break management session</b>	<b>Round table discussion – preparing for a career break and managing your return</b> Dr. Katie Perry, Daphne Jackson Trust	
15.15–16.15	Coffee break	Coffee break	
16.15–17.00	<b>Up up and away! end-conference summing up and close.</b> Discussion on two key themes for WES in 2010 – the student programme and WES events programme The WES Way Forward		
17.00–18.00	Informal discussion and networking		
19.00	<b>Social dinner</b> in Guildford town centre (reservations required)		

## SUNDAY 13 SEPTEMBER ANNUAL GENERAL MEETING

### Lecture Theatre Block, Lecture Theatre B

10.00	Annual General Meeting opening
11.25	Close
11.30–12.00	Coffee and refreshments

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## The Power of Change Inspiring the next 90 years



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