The Institution of Engineering and Technology





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Gender Parity In Engineering Conference 3rd Annual Edition

Friday, 21 June 2019 | Birmingham Conference and Events Centre, Birmingham, UK Celebrating International Women in Engineering Day (INWED)

Speakers and Workshop Facilitators

- Clara Wicks, Group Equality, Diversity and Inclusion Manager, Costain
- Hema Marshall, Executive Lead for Inclusion & Diversity, Cisco
- Katherine Mathieson, CEO, British Science Association
- Chloe Chambraud, Gender Equality Director, Business In The Community
- David Jenkins, Practice Director Engineering, Transportation and D&I Committee Member, Atkins
- Cathy Travers, Buildings and Infrastructure General Manager, Mott MacDonald
- Dawn Bonfield MBE, Founder and Director, Towards Vision
- Gill Thomas, Senior Manager, Diversity & Inclusion, Royal Academy of Engineering
- David Lakin, Head of Education 5-19, IET
- Dr Sarah Chen, Assistant Subject Matter Expert, EDF Energy
- Stephen Howse, Research Manager, WISE
- Eva Fryc, Regional Network Lead, STEM Learning
- Leslie Whyte-Venables, Regional Network Lead, STEM Learning
- Aimee Welch, Employer Support Manager, EngineeringUK
- Savi Bhamra, Diversity Advisor Workplace Inclusion and Wellbeing, Business in the Community
- Abigail Frost, UK Equality, Diversity and Inclusion (EDI) Manager, WSP
- Ffion Jones, Learning & Development Manager, WSP
- Alex Lawrence, Talent Inclusion Director, Head of D&I, Ramboll
- Heli Frosterus, Spectrum Policy Principal, OFCOM
- Richard Chapman-Harris, Head of Inclusion and Responsibility, Mott MacDonald
- Julie Feest, Chief Executive, Engineering Development Trust
- Jill Faure, Senior Technology Advisor, OFCOM
- Lorna Bennet, Mechanical Engineer, Offshore Renewable Energy Catapult
- Denise Neill, Project Manager Non-Operated Ventures UK, Shell
- Sophie Lea, Senior Equality, Diversity and Inclusion Advisor, Mott MacDonald
- Elizabeth Donnelly, CEO, Women's Engineering Society
- Sue Gammons, Coaching Director, GlaxoSmithKline



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PROGRAMME

08:30	Registration and refreshments
09:00	Opening Remarks by the Chair Elizabeth Donnelly, CEO, Women's Engineering Society
09:10	 Panel Discussion One: STEM Pay Gap: Gender bias, transparency and consistency one year on Assessing where we are with the pay gap in STEM one year on The stark picture of inequality and how to rebalance it Tackling the motherhood penalty Panellists: Hema Marshall, Executive Lead for Inclusion & Diversity, Cisco Julie Feest, Chief Executive, Engineering Development Trust Denise Neill, Project Manager Non-Operated Ventures UK, Shell Stephanie Newman, Rolls Royce
09:50	 Panel Discussion Two: Doing things differently: how to change the way we attract, recruit and retain the next generation Learnings from elsewhere: Practical examples to improve the gender balance from beyond STEM Setting achievable targets as a sector and setting a clear pathway to success The role of the Board in doing things differently within employers Panellists: Katherine Mathieson, CEO, British Science Association Chloe Chambraud, Gender Equality Director, Business In The Community David Jenkins, Practice Director Engineering, Transportation and D&I Committee Member, Atkins Cathy Travers, Buildings and Infrastructure General Manager, Mott MacDonald
10:30	Morning Networking / Exhibition Visit
11:00	Interactive Workshops Options (A – E) A: Microinequalities: How to spot them and call them out B: What is an Ally? C: Influencing the Influencers D: Achieving gender parity through positive action E: The engineering gender pay gap: Causes and effect



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12:30 Networking Lunch / Exhibition Visit

13:30 Interactive Workshops Options (F – J)

- F: Detailing a strategic approach to gender parity
- G: Equal Lives Report how organisations can balance work and caring responsibilities
- H: Creating gender balance in your organisation from top down
- I: Producing and updating your D&I plan
- J: Creating family-friendly flexibility in the workplace
- 15:00 Afternoon Networking / Exhibitions Visit

15:30 Interactive Workshops Options (K – O)

- K: Beyond leadership development: A systemic approach to address gender imbalance
- L: Reverse mentoring and intersectionality
- M: Inspiring the next generation: Solutions to overcome current barriers
- N: Changing the game in early years recruitment
- O: Tackling sexual harassment in the workplace
- 17:00 Evening Networking Drinks Reception
- 18:30 Close of Event



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11:00 Interactive Workshop Options: Choose one from A – E

Α	В	С	D	E
Microinequalities: How to spot them and call them out	What is an Ally?	Influencing the Influencers	Achieving gender parity through positive action	The engineering gender pay gap: Causes and effect
Microinequalities are identified as the small behavioural or cultural practices that continue to undermine women's place in engineering, often signalling the unconscious biases that continue to be held below the surface. This workshop will look at constructive ways to address these and take	The aim of the workshop is to increase understanding of what an "Ally" for D&I could be and how people could undertake this role to support women, people from ethnic minority backgrounds, people with disabilities etc in the workplace.	Parents have always been the biggest influence in a young person's life. However, with the advent of social media and access to new technology and communication channels, young people are now looking at "celebrities" for inspiration.	The aim of this workshop is to identify practical actions which will increase the number of women and girls in STEM. Delegates can expect to enhance their awareness and knowledge of the barriers to gender parity, the leaky pipeline analogy, unconscious bias and share their experiences of the	WISE, in conjunction with the Royal Academy of Engineering, is currently undertaking a key piece of research into the size, causes and nature of the gender pay gap for engineers. This research will be used to produce an action plan for employers, with the ultimate aim of
positive action in calling these out. Techniques discussed will include	Key areas coveredWhat does the term Ally	But what if the influencers are giving the wrong perception or message?	workplace.	eradicating the gap for good! Join us at this workshop to hear
the 4Ds Active Bystander Training, the use of Transactional Analysis, and the Bowtie Risk Analysis in	 What could a role descriptor look like for an Ally? 	This workshop will look at how or what needs to be done to influence	groups to identify practical strategies which promote the recruitment and retention of female	about the project, including a first chance to hear about some of the initial findings – and help us to
order to achieve outcomes in which all parties are on board and have strategies and tools to address	 How can an organisation support Allies in the workplace? 	the influencers in a young person's life.	employees, inspire girls without diminishing boys and nurturing men as allies.	shape our action plan to close the GPG by sharing your insight and your experiences. This is your
these inequalities.	 Language, is this really important? 	Key areas covered	You will also learn how to	opportunity to make engineers' pay more equitable!
Key areas covered	Sharing personal stories	Who are the key influencers in a young person's life?	undertake a participatory gender audit of your organization which will	Key areas covered
MicroinequalitiesStrategies and tools to	Key learning points	Where do young people turn for information?	enable you introduce strategies to make your organization more	Causes of the gender pay gap for engineers
 address Unconscious Bias The role of the active bystander 	 How can I be an Ally? How can organisations support Ally's? 	 How can we influence these influencers? What needs to change? 	gender-sensitive. Key areas covered	 The size of the gender pay gap for engineers The impact of the gender pay
 Transactional analysis Positive action 	What I am going to do next	What do we want influencers to say?	Barriers to gender parity	gap on the engineering talent pipeline



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 Key learning points How to make change in a positive way Confidence in starting tricky conversations Tools and techniques to tackle inequalities and frame conversations in a business context 		 Key learning points Being mindful of who and where young people get their influence from What we need to do to influence influencers What needs to change 	 Unconscious bias The inherent value of STEM returners as a new talent pool and reframing recruiters and hiring managers perceptions that a CV gap automatically equates to a deterioration of skills Strategies to inspire girls without diminishing boys and nurturing men as allies Key learning points Reviewing the most commonly encountered barriers to gender parity How to undertake a participatory gender audit of your programme and organization Introduce strategies to make your organization more gender-sensitive 	 Why the gender pay gap matters to you and your organisation How we can close the gender pay gap for engineers Key learning points What organisations can change to reduce their gender pay gap for engineers Key reasons to close the gap which they can use to influence in their own organisations Insight and testimony from others who care about a fair deal for women engineers
Dawn Bonfield MBE, Royal Academy of Engineering Visiting Professor at Aston University, Towards Vision	Gill Thomas, Senior Manager, Diversity & Inclusion, Royal Academy of Engineering	David Lakin, Head of Education 5-19, Institution of Engineering & Technology (IET)	Dr Sarah Chen Council Member / Assistant Subject Matter Expert, Women's Engineering Society (WES) / EDF Energy	Stephen Howse Research Manager, WISE



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13:30 Interactive Workshop Options: Choose one from F – J

F	G	Н	I	J
Detailing a strategic approach to	Equal Lives Report - how	Creating gender balance in your	Producing and updating your	Creating family-friendly
gender parity	organisations can balance work and caring responsibilities	organisation - from top down	D&I plan	flexibility in the workplace
This workshop will help you develop a strategic framework to unlock the potential talent of young people and, in particular, women, for engineering and technology careers. We will show how building a solid business case with real tips on strategic leadership can reap rewards when looking to increase	Over the last two decades, employers have increasingly adapted to the fact that a supported, healthy and happy workforce is more engaged and productive. However, the findings of a recent BITC report - Equal Lives, highlights how both attitudes and behaviours need to change, revealing there is more to be done	This session explores how changing an organisation's culture towards gender parity will positively impact recruitment and retention into the workplace. This interactive session will facilitate discussion around the positive steps that different organisations are taking to effect this change. Delegates will leave this session with practical ideas to take back to colleagues	In this two-part workshop we will explore the development of D&I Strategies and Action Plans. The first section will provide an overview on the development process using real-life examples from recent experiences of developing, updating and publishing a D&I strategy and action plan.	Over the last 18 months Ofcom has introduced flexible working to make it easier for colleagues to work from different locations and adapt their working pattern. Our colleagues may have different needs for working flexibly, from caring for family members young and old or to help them manage their commuting time. Our approach to flexible working is to
talent pipeline to more diverse recruits.	to support those struggling to balance work and caring responsibilities.	and leaders in their workplaces.	The second section will demonstrate a practical application	adapt to the needs of colleagues, for example adapting the hours that colleagues work or making it easy
 Key areas covered Building the business case for why a strategy is imperative to success Real life examples of employers implementing outreach strategies to address shortages (e.g.: Enthuse) Identifying key drivers for your organisation What you need to have in place to ensure a successful STEM strategy 	This is a key factor when trying to attract and retain women in the engineering sector. Looking beyond organisational approaches to family friendly working/caring policies this workshop examines how organisations can implement true culture change through encouraging policies and practices that are aimed at men, women, and those caring for dependent adults as well as children.	 Reframing the debate – changing from traditional perspective to today's way of thinking Redefining gender balance for your business How to recognise opportunities Implementing change through top-down leadership Top tips for implementing change Key learning points 	 of strategy and action plans, focussing on gender parity; increasing the number of women in engineering through recruitment, retention and promotion. Breakout discussions and feedback will allow delegates to share experiences, learn from others/industry and take away practical ideas. Key areas covered Explore the what, how and who of developing, 	for colleagues to work wherever they are. To support this, we have also introduced new tools to improve collaboration for colleagues regardless of their location. This workshop will explore the benefits of flexible working and examples of how to introduce this into the workplace. Key areas covered • Scenarios for why people need



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 Key areas covered Findings from the Equal Lives report Increasing access to flexible working/carers leave Improving Shared Parental leave Showcasing positive male and female role models Making data count Key learning points Understand what prevents men from accessing family friendly policies What good practice is currently in place Activity to support implanting 'gender neutral' family friendly working practices in an organisation 	 What gender balance could mean for you and your balance Tips to effectively encourage gender balance How to engage senior leadership in the debate 	 implementing and updating a D&I strategy and plan Explore successful factors Break out discussions to review attendees' Strategy and Plans (subject to numbers) Overview of strategies to recruit, retain and promote women in engineering Break out discussions to explore the practical application of D&I Strategy through a focus on concepts and ideas that improve gender parity in engineering Key learning points Real examples and practical ideas to help you develop/update your D&I Strategy and Action Plan Tangible actions to implement that can contribute to gender parity in engineering 	 to work flexibly Examples of how this has worked successfully Different models of flexible working How to introduce flexible working into your organisation Knowledge sharing for best practice Key learning points How to make a case for flexible working in the workplace How to make flexible working work for you How to make that cultural change in your organisation
Savi Bhamra Diversity Advisor - Workplace Inclusion and Wellbeing, Business in the Community	Abigail Frost UK Equality, Diversity and Inclusion (EDI) Manager, WSP Ffion Jones, Learning & Development Manager, WSP	<i>Alex Lawrence</i> Talent Inclusion Director, Head of D&I, Ramboll	Heli Frosterus, Spectrum Policy Principal, OFCOM Jill Faure, Senior Technology Advisor, OFCOM
	 Findings from the Equal Lives report Increasing access to flexible working/carers leave Improving Shared Parental leave Showcasing positive male and female role models Making data count Key learning points Understand what prevents men from accessing family friendly policies What good practice is currently in place Activity to support implanting 'gender neutral' family friendly working practices in an organisation Savi Bhamra Diversity Advisor - Workplace Inclusion and Wellbeing, Business 	 Findings from the Equal Lives report Increasing access to flexible working/carers leave Improving Shared Parental leave Showcasing positive male and female role models Making data count Key learning points Understand what prevents men from accessing family friendly policies What good practice is currently in place Activity to support implanting 'gender neutral' family friendly working practices in an organisation Savi Bhamra Diversity Advisor - Workplace Inclusion and Wellbeing, Business in the Community Making & Business in the Community 	 Findings from the Equal Lives report Increasing access to flexible working/carers leave Improving Shared Parental leave Improving Shared Parental leave Showcasing positive male and female role models Making data count Key learning points Understand what prevents men from accessing family friendly policies What gender balance Tips to effectively encourage gender balance How to engage senior leadership in the debate Making data count Key learning points Understand what prevents men from accessing family friendly policies What good practice is currently in place Activity to support implanting 'gender neutral' family friendly working practices in an organisation Savi Bhamra Diversity Advisor - Workplace Inclusion and Wellbeing, Business in the Community Abigail Frost UK Equality, Diversity and Inclusion (EDI) Manager, WSP Fifon Jones, Learning & What gender balance could mean for you and your balance What gender balance Mean for you and your balance What gender balance Tangible actions to implement that can contribute to gender parity in engineering Alex Lawrence Talent Inclusion Director, Head of D&I, Ramboll



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15:30 Interactive Workshop Options: Choose one from K – O

К	L	Μ	Ν	0
Beyond leadership development:	Reverse mentoring,	Inspiring the next generation:	Changing the game in early	Tackling sexual harassment in
A systemic approach to address	intersectionality and gender	Solutions to overcome current	years recruitment	the workplace
gender imbalance	parity	barriers		
			Industry calculations estimate that	
Accelerating Difference (AD) is an	Women are multi-dimensional and	The ASPIRES report from King's	"the annual shortfall of engineers	
innovative, 12-month global	diverse. To increase the number of	College London, shows that young	and technicians has increased by	
programme in GlaxoSmithKline.	women in engineering and girls	people aged 10-14 generally have	25% to 69,000" (Engineering UK,	
Designed to help high-performing,	interested in STEM it is important	high aspirations for professional,	2017). This presents an opportunity	
mid-to-senior-level female leaders	we understand and appreciate that	managerial and technical careers.	for the industry to attract diverse	
develop and progress their careers,	women can also identify as black,		talent, including women to help	
it combines 1:1 and group	Asian and with a minority ethnicity	However, only 15% - 25% aspire to	address this gap.	
coaching, dialogues and	(BAME), women can be gay,	a career as a scientist or engineer		
sponsorship. With its fifth cohort	disabled, younger and older.	respectively, despite over 70%	2018 was a record breaking year	
underway, the programme has	Mott MacDonald's Advance	agreeing that they learn interesting	for Costain, with a collective 52%	
contributed to creating a gender-	Reverse mentoring scheme	things in science at school and	of our early year recruits being	
balanced pipeline of leaders.	focuses on disability, race and	over 75% believing that scientists	female.	
	culture, and lesbian, gay, bisexual	make a difference in the world.		
Today, 45% of management	and transgender (LGBT+)		In this workshop, we will share	
positions at GSK are occupied by	inclusion. Although the scheme is	This study clearly demonstrates a	some of the actions we have taken	
women, while retention and	not gender-specific there is a	widespread lack of awareness of	to increase the diversity of our	
promotion rates among the 600	higher representation of women on	where science can lead and what	graduate and apprentice intake, as	
female leaders who've participated	the scheme than in the source	careers are possible. Therefore, it	well as discussing what we can all	
in AD are higher than non-	populations and the mentoring	is essential for industry to work with	do within our businesses to ensure	
participating females and male	model can be adapted by other	schools to show the infinite	that these women develop and	
counterparts.	organisations to focus specifically	possibilities offered through a	further their careers, and the steps	
	on gender. The 12-month scheme	career in STEM.	we all need to consider when	
In this interactive workshop we'll	facilitates upward mentoring to		recruiting for the future.	
discuss what has made this	create more empathetic and	This workshop will take a look at		
programme successful and the	inclusive leaders by providing them	the current statistics, barriers,	Key areas covered	
lessons learnt. We'll discuss how	with a diversity of role models and	organisations and programmes that		
addressing the work environment	also supports the career	are available working in this area.	Attraction	
through sponsorship and dialogues	progression of underrepresented		Recruitment	



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has been important to support	analyze in engineering. Data sets	Te die europikeurie europiele er stat		
has been important to support	groups in engineering. Delegates	To discuss key issues, ideas and	Onboarding	
women to progress in their careers,	should attend this workshop to	solutions that need to come from	Development	
in additional to supporting their	understand how they can utilise	industry and higher education to	Retainment	
development through coaching.	reverse mentoring in their	increase engagement throughout		
	organisation to support a gender	schools, to get ahead of societal	Key learning points	
Key areas covered	diverse leadership pipeline and	stereotypes and build and maintain		
The issues for female leaders	more inclusive leaders.	a solid understanding and interest	 Targeted actions to increase 	
in progressing their careers		in STEM careers.	the number of females in early	
 How a combination of 	Key areas covered		years' recruitment	
coaching, sponsorship and	 The Why – business case for 	Key areas covered	An understanding of the	
dialogues address the issues	positive action	 Current school statistics 	reasons why businesses fail to	
 How managers and other 	 The Who – which group are 	 The negative impacts of 	retain their intake	
senior leaders can support	involved and why	stereotypes and bias	 Steps for the future 	
female talent to progress	• The How – how is the scheme	The fun of being a STEM		
The role of senior level	managed and structured	Ambassador		
sponsorship to support career	The So What? Outcomes and	• The importance of role models		
progression	Impacts	• The value of work experience		
Breakout discussions on what	 What next – follow up and 	visits		
this could mean for your	takeaways			
organisation	,	Key learning points		
3	Key learning points	510 510		
Key learning points		STEM engagement ideas		
The importance of taking a	How to pitch for positive action	 Collaboration opportunities 		
systemic approach to address	mentoring / reverse mentoring	Where to find resources		
gender balance	How to deliver an effective			
 Ideas on how to support 	mentoring / reverse mentoring			
female leaders with career	scheme			
progression	 How to measure and share 			
 How to take this forward in 	impact			
your organisation	inpaol			
Sue Gammons, Coaching	Richard Chapman-Harris	Lorna Bennet, Mechanical	Clara Wicks	
Director, GlaxoSmithKline	Head of Inclusion and	Engineer, Offshore Renewable	Group Equality, Diversity and	
	Responsibility, and Sophie Lea ,	Energy Catapult	Inclusion Manager, Costain	
	Senior Equality, Diversity and			
	Inclusion Advisor			
	Mott MacDonald			





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Speakers



Alex Lawrence **Talent Inclusion** Director, Head of D&I, Ramboll



Ffion Jones, Learning & Development Manager, WSP

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David Jenkins. Practice

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Committee Member,

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Hema Marshall.

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Cisco

Stephen Howse Research Manager, WISE





Eva Fryc

STEM Learning











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