

FORD PRESENTS

# GIRLS IN STEM

INSPIRED BY CURIOSITY

WEDNESDAY 3 AUGUST 2018



9am	Registration
9.15am	Welcome and introduction <i>Felicity Furey, Machinam</i>
	Opening address <i>Dr Sue Barrell, Chief Scientist, Bureau of Meteorology</i>
9.45am	Experts <i>Taryn James, Ford</i> <i>Sharon Lai, Reserve Bank of Australia</i> <i>Chivonne Hollis, CHT Architects</i> <i>Sarah Cirillo, Thales</i>
10.30am	Morning tea
11am	Experts <i>Kimberley Whitehead, VEC Civil Engineering</i> <i>Kirsten Pilatti, Breast Cancer Network Australia</i>
11.25am	Interactive panel discussion
12pm	Closing <i>Ford, Gold sponsor</i> <i>Felicity Furey, Machinam</i>
12.45pm	Close

To make this event bigger and better, we need your feedback. Please take our short online survey - it won't take you long!

Student: <https://www.surveymonkey.com/r/FordGIS2018>  
Teacher: <https://www.surveymonkey.com/r/FordGISteacher>

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VEC Civil Engineering  
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# SPEAKERS

## MASTER OF CEREMONIES



**FELICITY FUREY**  
FOUNDING DIRECTOR,  
MACHINAM

Engineer by profession, self-taught entrepreneur, working to change the world through engineering, mathematics, diversity and creativity. Felicity

co-founded two social enterprises to impact diversity and engagement in engineering and mathematics – Power of Engineering and Machinam.

Not-for-profit organisation Power of Engineering has inspired over 8,000 female and regional high school students across Australia about creative and diverse engineering careers. Machinam aims to engage students and teachers in real world mathematics by creating scenario based resources that are relevant to teenagers interest and future careers. Felicity is a committed advocate for empowering girls and women to take up science careers.

## OPENING ADDRESS



**SUE BARRELL**  
CHIEF SCIENTIST AND GROUP  
EXECUTIVE, SCIENCE AND  
INNOVATION  
BUREAU OF METEOROLOGY

Dr Sue Barrell is passionate about the application of science to delivering highly valued outcomes for Australians. She has had a long career in the Bureau of Meteorology, Australia's national weather, climate and water agency. Her experience spans roles right across the Bureau, from forecasting to research to science and climate change policy to Senior Executive.

Since 2017, Sue has brought many of her passions together in her role as the Bureau's Chief Scientist, and Group Executive, Science and Innovation. Her portfolio of responsibilities includes Science to Services, Enterprise Innovation, Global and National Science Relationships and Diversity, Inclusion and STEM.

As Chief Information Officer, Sue implemented a major organisational change initiative. Her research credentials include publications in satellite meteorology, cold front dynamics and cloud band climatology. Sue has been actively involved in international efforts in relation to climate policy and the coordination and integration of earth observations. Sue was recognised as a Fellow of the Academy of Technological Sciences and Engineering (ATSE) in 2013, a Graduate member of the Australian Institute of Company Directors and a Science and Technology Australia Superstar of STEM. She has a BSc (Hons) in Physics and a PhD in Astronomy.



**CHIVONNE HOLLIS**  
ARCHITECT, CHT ARCHITECTS

Chivonne has a passion for architecture and craft, detailed design and the way these are incorporated into built form to enhance functionality. This has provided her with motivation throughout the last

14 years of her practical experience with CHT. Chivonne's expertise lies predominantly in contract administration, working on construction sites on a large variety of projects ranging from high end single residences, multi resident developments, retail, commercial and aged care projects. As a mother of two young children she finds that working part time in an effort to enhance my career in a male dominated field to be difficult, but is a challenge worth accepting.

## STEM EXPERTS



**TARYN JAMES,**  
AERODYNAMICIST, FORD

Taryn is currently an Aerodynamicist with Ford Motor Company. She grew up in country Victoria and was the only girl in her VCE Specialist maths class, she went on to graduate with a Bachelor of Aerospace

Engineering from Monash University in 2010. Initially she worked at the Monash University Wind Tunnel before commencing at Ford in 2011.

In her role as an aerodynamicist, she conducts both analytical simulations and physical wind tunnel testing with full-scale clay models, vehicle prototypes and production level vehicles to support the design, development and verification involved with developing a vehicle before it goes on sale. Working for a global company, her role has provided her the opportunity to travel overseas for wind tunnel testing in multiple regions. She has been the lead for various sedan vehicle programs and involved with academic studies to increase the understanding of correlation between various wind tunnel facilities.



**SHARON LAI, RESERVE BANK OF AUSTRALIA**

Sharon is an Economist at the Reserve Bank of Australia (RBA). Her current role involves analysing regional and industry-specific economic conditions.

To help inform this analysis, she meets regularly with businesses from a wide of industries to discuss the conditions they are facing. Sharon's previous roles at the RBA have been focused on monitoring bank asset performance, assessing risks to household balance sheets and analysing Australian labour markets. Sharon was drawn to economics as a career because it uses rigorous analytical methods to help solve real world-problems and inform policies that affect everyday people. In addition, economics has many diverse applications and vast multidisciplinary appeal. Sharon completed a Bachelor of Commerce degree with Honours in Economics from the University of Melbourne. She has recently returned to Melbourne after four years of living in Sydney. As such, her weekends currently consist of reconnecting with friends and family, exploring old favourites and new additions to the local café scene and adjusting to the (relatively!) cold weather.



**KIRSTEN PILATTI**  
CHIEF EXECUTIVE OFFICER,  
BREAST CANCER NETWORK  
AUSTRALIA

Kirsten Pilatti was appointed CEO in March 2018. She has an exceptional understanding of the cancer sector having spent over a decade at BCNA and five years at Cancer Council Victoria where she was responsible for delivering communications and campaigns around prevention messages. Highly regarded for her passion and focus on Australian women and men who have been affected by breast cancer, she is committed to giving everyone a voice and reducing the disparity of care across the country. Kirsten was born and raised in Western Australia and lives in Melbourne with her partner and two sons.



**KIMBERLEY WHITEHEAD**  
**PROJECT ENGINEER, VEC CIVIL**  
**ENGINEERING**

Kimberley graduated from RMIT University in 2013 with a Bachelor of Civil Engineering, Kimberley started her career by completing a graduate program at Mornington Peninsula Shire Council. During a rotation in the Sustainability Team, Kimberley presented at the Victorian Stormwater Conference in 2014 which was then recognised in the 2014 Stormwater Victorian awards, winning in the category of Excellence in Policy or Education for a Downpipe Diverter initiative that was rolled out for the Balcombe Estuary catchment.

From there, Kimberley acted in a management role in the Safer Local Roads maintenance contract with Downer Edi Works. This led to a secondment and then a full time position with Downer within the Pavements division managing projects in regional Victoria. To date her experience has largely been in delivering and managing Road Construction Projects up to \$5M for VicRoads, just under \$15M over a 18 month period. Kimberley has recently taken on the opportunity to challenge and expand her construction knowledge and skill set by transferring to VEC, within the wider Downer Group, to assist in the build and delivery of Bridge Projects.



**SARAH CIRILLO**  
**MECHANICAL ENGINEER, THALES**

Sarah completed her degree in Mechanical Engineering and Finance in 2014 at the University of Adelaide, during honours year she researched Autonomous Underwater Vehicles to design a fully self-contained agile vessel with six-degrees of freedom. Sarah was involved in the Adelaide chapter of Robogals, whose focus is to inspire and teach young females what engineering is and how they can explore skills used in a career in STEM. Sarah undertook work experience in the UK with Stage One Creative Services, who specialise in design and construction from concept to completion of a theatre and film stage sets, art installations and structures used in Olympic ceremonies. Sarah was fortunate to prepare some of the stage for the 2014 Sochi Winter Paralympic games; the majority of her time was working within the CAD team and preparing safe transport of the Jaguar Landover Exhibition. Sarah joined the Protected Vehicles team at Thales in 2015 as a Graduate Engineer. She has moved into the Self-Funded Research and Development team which provides her with many interesting opportunities to research and design new technologies into their products.

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