

# Live Virtual Presentation Agenda

## Thursday 29 July (AEST)

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**9:00am – 9:30am**      **Welcome, Opening & Housekeeping: Judy Anderson, Helen Watt, Renae Ryan**  
<https://uni-sydney.zoom.us/j/85009004256>

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**9:30am – 10:20am**      **Keynote: Sue Thomson**  
<https://uni-sydney.zoom.us/j/85009004256>

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**10:20am – 10:50am**      **Morning tea break**

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**10:50am – 11:40am**      **Concurrent paper sessions: A & B**  
**A:** <https://uni-sydney.zoom.us/j/86454875018>  
**B:** <https://uni-sydney.zoom.us/j/81008120541>

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**11:45am – 12:35pm**      **Keynote: Sarah Chapman**  
<https://uni-sydney.zoom.us/j/85009004256>

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**12:35pm – 1:30pm**      **Lunch break**

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**1:30pm – 2:20pm**      **Keynote: Mustafa F. Özbilgin**  
<https://uni-sydney.zoom.us/j/85009004256>

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**2:25pm – 3:15pm**      **Concurrent paper sessions: C & D**  
**C:** <https://uni-sydney.zoom.us/j/86454875018>  
**D:** <https://uni-sydney.zoom.us/j/81008120541>

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**3:25pm – 4:10pm**      **Concurrent workshop sessions: W1 & W2**  
**W1:** <https://uni-sydney.zoom.us/j/86454875018>  
**W2:** <https://uni-sydney.zoom.us/j/81008120541>

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**4:10pm – 4:55pm**      **Concurrent workshop sessions: W3 & W4**  
**W3:** <https://uni-sydney.zoom.us/j/86454875018>  
**W4:** <https://uni-sydney.zoom.us/j/81008120541>

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**5:30pm – 5:50pm**  
**Keynote Q&A – Mustafa Özbilgin**  
<https://uni-sydney.zoom.us/j/85009004256>

**5:00pm–6:00pm**  
**Poster Presentations**  
<https://uni-sydney.zoom.us/j/86454875018>

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## Friday 30 July (AEST)

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**9:00am–9:50am**      **Keynote: Jacquelynne S. Eccles**  
<https://uni-sydney.zoom.us/j/85009004256>

**9:50am–10:30am**      **Morning tea break**

**10:30am–11:45am**      **Concurrent paper sessions: E & F**  
**E:** <https://uni-sydney.zoom.us/j/86454875018>  
**F:** <https://uni-sydney.zoom.us/j/81008120541>

**11:50am–12:35pm**      **Feature panel: Superstars of STEM**  
<https://us02web.zoom.us/j/81795060339>

**12:35pm–1:30pm**      **Lunch break**

**1:30pm–2:20pm**      **Keynote: Ana Deletic**  
<https://uni-sydney.zoom.us/j/85009004256>

**2:30pm–3:45pm**      **Concurrent paper sessions: G & H**  
**G:** <https://uni-sydney.zoom.us/j/86454875018>  
**H:** <https://uni-sydney.zoom.us/j/81008120541>

**4:00pm–4:40pm**      **Close, Student Poster Award, Conference 2022**  
<https://uni-sydney.zoom.us/j/85009004256>

# Concurrent Session Details (AEST)

29 July

## Details for concurrent paper sessions (AEST)

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DAY 1:  
A + B

<https://uni-sydney.zoom.us/j/86454875018>

<https://uni-sydney.zoom.us/j/81008120541>

**A:** STEM expectancy and value influences on educational and career choices

*Chair: Watt, H.*

**B:** Principals and middle leaders as STEM education leaders

*Chair: Hunter, J.*

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10:50am – 11:15am

*Guo, J.; Hu, X.; Pekrun, R.; Marsh, H.*

Cross-cultural and gender differences in predicting career aspirations in different STEM-related fields: An expectancy-value perspective

*Beswick, K.; Dacosta, L.; Watt, H.; Fraser, S.; Geiger, V.*

Principals' gendered STEM background, attitudes, self-efficacy for STEM leadership and prioritisation of STEM investment in their schools

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11:15am – 11:40am

*Toh, L.; Watt, H. M. G.*

Women's preparation for a mathematical STEM career: How do expectancies and values predict attainment of a math. STEM tertiary degree?

*Hunter, J. L.*

Promoting female middle leaders: Primary schools as sites for education leadership in STEM education

DAY 1:  
C + D

<https://uni-sydney.zoom.us/j/86454875018>

<https://uni-sydney.zoom.us/j/81008120541>

**C:** Mentoring women's development through the career pipeline in diverse STEM fields

*Chair: Wozniak, T.*

**D:** Outreach and development programs to influence teachers' and students' gendered STEM beliefs

*Chair: Durksen, T.*

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2:25pm – 2:50pm

*Bautista, L.; Cheng, E.*

Lucy Mentoring Program: Redesign and impact evaluation

*Durksen, T. L.; Gajda, C.*

A science museum-based study of teachers' professional development and beliefs

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2:50pm – 3:15pm

*Wozniak, T.M.; Miller, E.; Williams, K.; Pickering, A.*

Championing women working in health across regional and rural Australia – A new dual-mentorship model

*Giugni, A.; Angelini, M.*

In-curriculum primary and high school STEM outreach

## 30 July

### Details for concurrent paper sessions (AEST)

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DAY 2:  
E + F

<https://uni-sydney.zoom.us/j/86454875018>

<https://uni-sydney.zoom.us/j/81008120541>

**E:** Gendered STEM career trajectories in academia

*Chair: Richardson, P.*

**F:** Antecedents and consequences of students' STEM motivations: Influences of teachers and teaching, and consequences for achievement

*Chair: Holmes, K.*

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10:30am – 10:55am

*Christian, K.; Johnstone, C.; Larkins, J.; Wright, W.; Doran, M.*  
Survey of Australian STEM early career researchers raises concerns about research culture

*Little, J.*

Connecting mathematics with science contexts in junior secondary school: Impact on expectancy-values, teaching and learning of mathematics

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10:55am – 11:20am

*Richardson, P.W.; Heffernan, A.; Westcott, S.; Watt, H.M.G.*  
Hanging by a thread: Precarious futures for early career women academics in STEM

*Berger, N.; Mackenzie, E.; Holmes, K.*

Positive attitudes towards mathematics and science are mutually beneficial for student achievement: Latent profile analysis of TIMSS 2015

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11:20am – 11:45am

*Christian, K.; Johnstone, C.; Larkins, J.; Wright, W.; Doran, M.*  
Job satisfaction for ECRs in STEM – is it different for men and women?

*Abraham, J.; Skillen, M.; Gough, L.*

“Does gender matter when teaching STEM?”: Australian primary teachers speak

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## 30 July

### Details for concurrent paper sessions (AEST)

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DAY 2:  
G + H

<https://uni-sydney.zoom.us/j/86454875018>

**G:** Gender and mathematics interest: Its measurement, development, and influences

*Chair: Watson, P.*

<https://uni-sydney.zoom.us/j/81008120541>

**H:** Gender and mathematics anxiety, stereotypes, beliefs and identity development

*Chair: Holmes, K.*

2:30pm – 2:55pm

*Lee, K. J.*

Measurement and stability of affective and cognitive interest components among Australian adolescent girls and boys

*Mackenzie, E.; Berger, N.; Holmes, K.*

The Adolescent STEM Anxiety Scale: Construction, validation, and gender differences

2:55pm – 3:20pm

*Tuohilampi, L.*

Accessing mathematics through interest: conceptualising mathematics tasks aligning with the four-phase model of interest development

*Scholes, L.; Stahl, G.; McDonald, S.*

'I'm good at science but I don't want to be a scientist': Australian primary school students' stereotypes of science and scientists

3:20pm – 3:45pm

*Watson, P.*

Discussion – pre-recorded symposium: Interest as key variable for STEM career choices in formative final school years and tertiary education

European paper presentations were pre-recorded: please listen beforehand at [https://www.youtube.com/playlist?list=PLAkWe-yItIpxQJn4zCzH213sQRc\\_PBVsg](https://www.youtube.com/playlist?list=PLAkWe-yItIpxQJn4zCzH213sQRc_PBVsg) (authors will join Q&A)

*Prieto, E.; Sincock, K.; Blackmore, K.; Berretta, R.; Wanless, E.; Johnson, S.; Giacomini, A.; Todd, J.*

Experiences of STEM outreach: What shapes girls' identities?

## 29 July

### Details for concurrent workshop sessions (AEST)

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DAY 1:  
Workshops

<https://uni-sydney.zoom.us/j/86454875018>

<https://uni-sydney.zoom.us/j/81008120541>

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3:25pm – 4:10pm

#### Workshop 1

*Gannon, S.; Scantlebury, K.;  
Herman, C.*

Writing, reviewing and publishing in  
peer-reviewed journals

#### Workshop 2

*Beekhuyzen, J.; O'Brien, N.;  
Catchpole, H.; Cheng, E.*

Designing engaging STEM programs and  
resources for primary school-aged girls

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4:10pm – 4:55pm

#### Workshop 3

*Schedlich, S.*

Engaging with the media for  
research impact

#### Workshop 4

*Carvalho, A.*

What about the M in STEM?

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## 29 July Poster details (AEST)

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Chair: Bronwyn Reid O'Connor

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### DAY 1: Posters

<https://uni-sydney.zoom.us/j/86454875018>

<https://www.youtube.com/playlist?list=PLAkWe-ytlpxVxAj-uW5bK2P9xP2EWZeH>

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5:00pm – 6:00pm

In-person poster presenters

3. *Cheng, Bautista, Angelini, Giugni, Katuwandeniya*: COVID-19 resilience: Agility and adaptation of gender equity programs to broaden reach
4. *Chow, McMaster*: Conceptual change of same-sex dyads interviewed while predicting then measuring displacement by a sequence of different materials
5. *Katuwandeniya, Soleimanimatin, Hayati*: Connecting a community of postgraduate women in Engineering and IT
7. *Masri, Tytler, van Driel, Miller*: The role of careers advice in pursuing STEM by girls
8. *Simone*: A conceptualisation of women in STEM's employability during career break transitions

Pre-recorded poster presentations

1. *Booth, Mammes*: Germany's continuing problem of record low numbers of women working in STEM
2. *Brezynski, Long, Allen, Wood*: The BioCORE Scholars Program, a cohort model, improves academic attainment of female minority students in biology
6. *Lee, Eccles*: Leveraging YouTube to increase women's physics identity and motivation
9. *Spiteri*: Understanding young girls' STEM experiences, attitudes & aspirations
10. *Stephenson, Fleer, Fragkiadaki*: A cultural-historical perspective on increasing girls' STEM engagement in early childhood: Conditions created by the Conceptual PlayWorld model
11. *Barnard, R.P.; Watts, M.*: Are teachers' gender beliefs detectable in their students' attitudes to science/scientists?

## 30 July Poster details (AEST)

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### DAY 2: Posters

<https://uni-sydney.zoom.us/j/86036595044>

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10:00am – 10:30am

Zoom Q&A discussion with Poster Presenters (please listen beforehand):

<https://www.youtube.com/playlist?list=PLAkWe-ytlpxVxAj-uW5bK2P9xP2EWZeH>

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