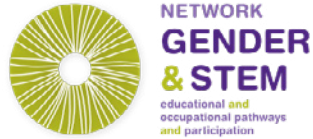


GENDER & STEM BIENNIAL CONFERENCE



Online Discussion Agenda

For pre-recorded presentations (zoom)

The Online Discussion Schedule enables questions and discussions with thematically grouped pre-recorded presentations with the authors. Not, for the presentation itself. Times are provided per session in each of AEST (e.g., Sydney), CEST (e.g., Berlin) and CDT (e.g., Iowa, Illinois).

A Timezone converter is available here for you to check other timezone conversions: <https://www.timeanddate.com/worldclock/meeting.html>

Because there are no times that accommodate AEST, CEST and CDT simultaneously, we have worked to pair major timezone overlaps.

Please listen to relevant pre-recorded presentations of interest, **BEFORE** attending these discussion zoom-rooms, to optimise the quality of discussions with authors.

All pre-recorded presentations are accessible at our private YouTube channel where recordings will be further updated to add 'live presentations' after the event.

Keynotes:

<https://www.youtube.com/playlist?list=PLAkWe-yItlpyieV-09nUZHIZddFN6Yxgm>

Symposia:

https://www.youtube.com/playlist?list=PLAkWe-yItlpxQJn4zCzH213sQRc_PBVsG

Papers:

<https://www.youtube.com/playlist?list=PLAkWe-yItlpzvr6tvmAJHMYG7arHn9xK>

Posters:

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

Group, theme & Zoom link**Timezone & time****Authors & title (authors underlined will be in attendance)**

Pre-conference online Networking Event:
PhD & Early Career researchers

All welcome – to either or both time-options!

All PhD and Early Career researchers are welcome to join this online networking event with colleagues from all over the world. Participants will join breakout rooms based on their shared interests (substantive or methodological) gathered in advance at this google doc:

https://docs.google.com/document/d/1r5EOvE0M8UrjKm_kDwkPFz64gDo5q6oAm2p0pu7Ts/edit?usp=sharing

Please complete the form by Tuesday 27 July (before 5pm AEST).

Outcomes will include this distributed document and potential planned conference symposia.

Time-option #1

<https://uni-sydney.zoom.us/j/84930963096>

AEST Weds.

5:00pm –
5:30pm

CEST Weds.

9:00am –
9:30am

CDT Weds.

3:00am –
3:30am

Hosted by Maggie Feng and Lili Toh (U Syd)

Emails: mfen5873@uni.sydney.edu.au ; ltoh7188@uni.sydney.edu.au

Time-option #2

<https://uni-potsdam.zoom.us/j/8459455233>

AEST Thurs.

1:00am –
1:45am

CEST Weds.

5:00pm –
5:45pm

CDT Weds.

11:00am –
11:45am

Hosted by Wendy Symes (U Potsdam) and Max Skorodinsky (U Oregon)

Emails: symes@uni-potsdam.de ; makseem@uoregon.edu

Group, theme & Zoom link	Timezone & time			Authors & title (<u>authors underlined</u> will be in attendance)
<p>1) Symposium. Motivational processes in the STEM pipeline</p> <p>https://uni-sydney.zoom.us/j/84380802326</p> <p><i>Chair: Judith Harackiewicz</i> jmharack@wisc.edu</p> <p>Followed by Guo et al.; Toh & Watt in-person presentations, 25 mins. each @ https://uni-sydney.zoom.us/j/86454875018</p>	<p>AEST Thurs. 10:20am – 10:50am</p>	<p>CEST Thurs. 2:20am – 2:50am</p>	<p>CDT Weds. 7:20pm – 7:50pm</p>	<p>USA / Australia:</p> <ul style="list-style-type: none"> • <u>Berger, N.</u>; <u>Mackenzie, E.</u>; <u>Holmes, K.</u>: Positive attitudes towards mathematics and science are mutually beneficial for student achievement: A latent profile analysis of TIMSS 2015 (Australia) • <u>Guo, J.</u>; <u>Hu, X.</u>; <u>Pekrun, R.</u>; <u>Marsh, H.W.</u>: Cross-cultural and gender differences in predicting career aspirations in different STEM-related fields: An expectancy-value perspective (Australia) • <u>Harackiewicz, J.</u>; <u>Rosenzweig, E.</u>: Should I stay or should I go?: Studying changes in university students' biomedical career plans (USA) • <u>Zhang, S.</u>; <u>Graham, M.C.</u>; <u>Nguyen, H.</u>; <u>Martindale, K.</u>; <u>Bermudez, B.</u>; <u>Lampkins, S.</u>; <u>Husman, J.</u>: Gender differences in belonging in college physics (USA)
<p>2) STEM careers & trajectories</p> <p>https://uni-sydney.zoom.us/j/87200117358</p> <p><i>Chair: Peta White</i> peta.white@deakin.edu.au</p>	<p>AEST Thurs. 4:00pm – 4:30pm</p>	<p>CEST Thurs. 8:00am – 8:30am</p>	<p>CDT Thurs. 1:00am – 1:30am</p>	<p>Australia / Japan:</p> <ul style="list-style-type: none"> • <u>Dockery, A.M.</u>; <u>Bawa, S.</u>: Career prospects for women in STEM • <u>Hatisaru, V.</u>: An investigation of school students' STEM career interest • <u>Hatisaru, V.</u>: A teacher of STEM knows: "A lot!". School principal perceptions of STEM capability for teachers • <u>Shinohara, S.</u>; <u>Fujimoto, T.</u>: Gender differences in work-family conflict and work-family enrichment for STEM researchers and engineers in Japan • <u>Tytler, R.</u>; <u>White, P.J.</u>: Disciplines and interdisciplinarity in a competence-based STEM curriculum • <u>White, P.J.</u>; <u>Tytler, R.</u>: 100 jobs of the future

Group, theme & Zoom link	Timezone & time			Authors & title (<u>authors underlined</u> will be in attendance)
<p>3) STEM engagement & contexts</p> <p>https://uni-sydney.zoom.us/j/87412179210</p> <p>Chair: <i>Melissa Wolfe</i> melissa.wolfe@monash.edu</p>	<p>AEST Thurs. 4:30pm – 5:00pm</p>	<p>CEST Thurs. 8:30am – 9:00am</p>	<p>CDT Thurs. 1:30am – 2:00am</p>	<p>Australia / Hong Kong:</p> <ul style="list-style-type: none"> • <u>Cooke, A.</u>: Increasing engagement with mathematics by seeing the mathematics in very young preverbal children's action • <u>McLure, F.I.</u>; <u>Fraser, B.J.</u>; <u>Koul, R.B.</u>: Gendered perceptions of classroom emotional climate and attitudes in integrated STEM classes in government and non-government schools • <u>Wolfe, M.J.</u>: Feeling-thinking-making gendered and raced school spaces (The Materials Engineering classroom and basketball court) • <u>Wong, M.</u>; <u>Chan, B.</u>: The impact of parents' education level, attitude and self-efficacy on young boys' and young girls' STEM learning (HK)
<p>4) Influences on attitude in STEM</p> <p>https://uni-sydney.zoom.us/j/84114754311</p> <p>Chair: <i>Karen Skilling</i> karen.skilling@education.ox.ac.uk</p>	<p>AEST Thurs. 5:00pm – 5:30pm</p>	<p>CEST Thurs. 9:00am – 9:30am</p>	<p>CDT Thurs. 2:00am – 2:30am</p>	<p>UK / Sweden / Germany / Belgium:</p> <ul style="list-style-type: none"> • <u>Giese, L.</u>; <u>Tellhed, U.</u>; <u>Björklund, F.</u>: Empirical evaluation of an educational STEM intervention for high-school students (Sweden) • <u>Lesperance, K.</u>; <u>Holzberger, D.</u>: Reducing gender differences in motivational-affective student factors through interventions: A meta-analysis (Germany) • <u>Skilling, K.</u>: Investigating the influence of secondary student STEM experiences on subject choices and HE pathways (UK) • <u>Veldman, J.</u>; <u>Van Laar, C.</u>; <u>Thoman, D.</u>; <u>Van Soom, C.</u>: Belonging comparisons between STEM domains help understand high school girls' variability in STEM interest (Belgium)
<p>KEYNOTE. Mustafa Özbilgin</p> <p>https://uni-sydney.zoom.us/j/85009004256</p> <p>Chair: <i>Janette Bobis</i> janette.bobis@sydney.edu.au</p>	<p>AEST Thurs. 5:30pm – 5:50pm</p>	<p>CEST Thurs. 9:30am – 9:50am</p>	<p>CDT Thurs. 2:30am – 2:50am</p>	<p>UK (Keynote prerecording at: https://www.youtube.com/playlist?list=PLAkWe-ytlpyieV-09nUZHIZddFN6Yxgm)</p> <ul style="list-style-type: none"> • <u>Özbilgin</u>: Do atypical leaders legitimise or delegitimise (STEM) workforce diversity?

Group, theme & Zoom link	Timezone & time			Authors & title (<u>authors underlined</u> will be in attendance)
<p>5) STEM pathways & gender equity</p> <p>https://uni-sydney.zoom.us/j/84894045699</p> <p>Chair: <i>Rebecca Lazarides</i> rebecca.lazarides@uni-potsdam.de</p>	<p>AEST Fri. 1:00am – 1:30am</p>	<p>CEST Thurs. 5:00pm – 5:30pm</p>	<p>CDT Thurs. 10:00am – 10:30am</p>	<p>Germany / Belgium / The Netherlands / Austria:</p> <ul style="list-style-type: none"> • <u>Höhne, E.</u>; <u>Zander, L.</u>: “Why I don’t belong here...”: Sources of male and female students’ belonging uncertainty in the computer sciences (Germany) • <u>Kavatsyuk, O.</u>; <u>Ioannou, M.</u>; Avraamidou, L.: Gender inclusive education in the mathematics classroom (The Netherlands) • <u>Lazarides, R.</u>; <u>Dicke, A.-L.</u>; <u>Rubach, C.</u>; <u>Oppermann, E.</u>; <u>Eccles, J.S.</u>: Gendered motivational heterogeneity across domains: What role does it play for educational choices in early adulthood? (Germany) • <u>Niemann, T.</u>; <u>Zander, L.</u>: Facets of social and academic integration among male and female first year STEM students and prospective STEM teachers (Germany) • <u>Zauchner, S.A.</u>: Parents and their essential role as gatekeepers in STEM (Austria)
<p>6) STEM careers & research</p> <p>https://uni-sydney.zoom.us/j/86182731452</p> <p>Chair: <i>Bernhard Ertl</i> bernhard.ertl@unibw.de</p>	<p>AEST Fri, 1:30am – 2:00am</p>	<p>CEST Thurs. 5:30pm – 6:00pm</p>	<p>CDT Thurs. 10:30am – 11:00am</p>	<p>Germany / UK / Czech Republic:</p> <ul style="list-style-type: none"> • <u>Ertl, B.</u>; <u>Hartmann, F.G.</u>; <u>Wunderlich, A.</u>: Stability of vocational interests & aspirations during university study (Germany) • <u>Fárová, N.</u>; <u>Hladík, R.</u>: Gender composition of the publication output and funding awards by disciplines (Czech) • <u>Förtsch, S.M.</u>: “Studying, and then?” Recognize perspectives and plan career! A quantitative analysis of career plans and aspirations of computer scientists (Germany) • <u>Gagnon, J.</u>; <u>Reggiani, M.</u>: What does it mean to be seen?: Increasing visibility and addressing inequalities in STEM (UK) • <u>Gewinner, J.</u>; <u>Esser, M.</u>: Gender ideology and STEM career choices in higher education students (Germany)

Group, theme & Zoom link	Timezone & time			Authors & title (<u>authors underlined</u> will be in attendance)
<p>7) Forming & supporting STEM identities</p> <p>https://uni-sydney.zoom.us/j/85884693901</p> <p>Chair: <i>Christine Starr</i> cstarr1@uci.edu</p>	<p>AEST Fri. 2:00am – 2:30am</p>	<p>CEST Thurs. 6:00pm – 6:30pm</p>	<p>CDT Thurs. 11:00am – 11:30am</p>	<p>USA:</p> <ul style="list-style-type: none"> • <u>DeRosia, N.</u>; <u>Bousselot, T.</u>; <u>Kim, M.</u>; <u>Anderson, R.</u>; <u>Madison, E.</u>; <u>Husman, J.</u>: Pathways and intersections: STEM futures and identity based motivation (USA) • <u>Hodges, S.D.</u>: Perceptions of belonging, effort, and feedback: Gender differences in undergraduates considering graduate studies in STEM (USA) • <u>Johnson, S.</u>; <u>Ivey, A.</u>; <u>Snyder, J.</u>; <u>Skorodinsky, M.</u>; <u>Goode, J.</u>: Representation, reciprocity, and computer science education: Perspectives of women teachers of color in the United States (USA)w • <u>Skorodinsky, M.A.</u>: More than binary, more than normative, more than quantities: Diverse gender identities in computer science education research (USA) • <u>Starr, C.R.</u>; <u>Leaper, C.</u>: Double identity threat vs. double identity boost: How gender and race stereotypes relate to STEM identity among a diverse sample of undergraduates (USA)
<p>8) Symposium: Helping or hindering girls' STEM motivational beliefs: Students' STEM achievement, gender stereotypes, and teacher support across five large U.S. datasets</p> <p>https://uni-sydney.zoom.us/j/82512814777</p> <p>Chair: <i>Christine Starr</i> cstarr1@uci.edu</p>	<p>AEST Fri. 2:30am – 3:00am</p>	<p>CEST Thurs. 6:30pm – 7:00pm</p>	<p>CDT Thurs. 11:30am – 12:00pm</p>	<p>USA:</p> <ul style="list-style-type: none"> • <u>Dicke, A.L.</u>; <u>Rubach, C.</u>; <u>Lee, G.</u>; <u>Safavian, N.</u>; <u>Gao, Y.</u>; <u>Starr, C.R.</u>; <u>Eccles, J.S.</u>; <u>Simpkins, S.</u>: Perceived teacher support and its associations with math motivational beliefs: Exploring gender differences using three large U.S. datasets • <u>Rubach, C.</u>; <u>Gao, Y.</u>; <u>Starr, C.R.</u>; <u>Safavian, N.</u>; <u>Dicke, A.L.</u>; <u>Eccles, J.S.</u>; <u>Simpkins, S.</u>: High school students' math motivational beliefs: An examination of the associations and gender differences across five large U.S. datasets • <u>Starr, C.R.</u>; <u>Gao, Y.</u>; <u>Dicke, A.L.</u>; <u>Rubach, C.</u>; <u>Lee, G.</u>; <u>Safavian, N.</u>; <u>Eccles, J.S.</u>; <u>Simpkins, S.</u>: Parent and youth gender stereotypes about math: Findings from four U.S. datasets from 1984 to 2011 • <u>Safavian, N.</u>; <u>Dicke, A.L.</u>; <u>Gao, Y.</u>; <u>Starr, C.R.</u>; <u>Eccles, J.S.</u>: Hispanic, African American, and White youths' STEM-related career aspirations: Exploring gender differences using three large U.S. Datasets

Group, theme & Zoom link	Timezone & time			Authors & title (<u>authors underlined</u> will be in attendance)
9) Posters https://uni-sydney.zoom.us/j/86036595044	AEST Fri. 10:00am – 10:30am	CEST Fri. 2:00am – 2:30am	CDT Thu. 7:00pm – 7:30pm	Australia / USA: Pre-recorded poster presenters: <ul style="list-style-type: none"> • <u>Brezynski, E.M.V.</u>; <u>Long, E.S.</u>; <u>Allen, M.J.</u>; <u>Wood, D.W.</u>: The BioCORE Scholars Program, a cohort model, improves academic attainment of female minority students in Biology (USA) • <u>Lee, H.</u>; <u>Eccles, J.S.</u>: Leveraging YouTube to increase women’s physics identity and motivation (USA) • <u>Spiteri, T.</u>: Understanding young girls’ STEM experiences, attitudes and aspirations (Australia) • <u>Stephenson, T.</u>; <u>Fleer, M.</u>; <u>Fragkiadaki, G.</u>: A cultural-historical perspective on increasing girls’ STEM engagement in early childhood: Conditions created by the Conceptual PlayWorld model (Australia) Day 1 poster presenters: <ul style="list-style-type: none"> • <u>Cheng, E.</u>; <u>Bautista, L.</u>; <u>Angelini, M.</u>; <u>Giugni, A.</u>; <u>Katuwandeniya, K.</u>: COVID-19 resilience: Agility and adaptation of gender equity programs to broaden reach • <u>Chow, Y.</u>; <u>McMaster, H.</u>: Conceptual change of same-sex dyads interviewed while predicting then measuring displacement by a sequence of different materials • <u>Katuwandeniya, K.</u>; <u>Soleimanimatin, S.</u>; <u>Hayati, H.</u>: Connecting a community of postgraduate women in Engineering and IT • <u>Masri, A.</u>; <u>Tytler, R.</u>; <u>van Driel, J.</u>; <u>Miller, V.</u>: The role of careers advice in pursuing STEM by girls • <u>Simone, J.</u>: A conceptualisation of women in STEM’s employability during career break transitions

Chair: Bronwyn Reid O'Connor

Group, theme & Zoom link	Timezone & time			Authors & title (<u>authors underlined</u> will be in attendance)
<p>10) Symposium. Interest as key variable for STEM career choices in formative final school years and tertiary education</p> <p>https://uni-sydney.zoom.us/j/86454875018 (within live-virtual session G)</p> <p><i>Chair: Manuela Paechter</i> manuela.paechter@uni-graz.at</p> <p><i>Discussion Moderator: Penelope Watson</i> p.watson@auckland.ac.nz</p>	<p>AEST Fri. 3:20pm – 3:45pm</p>	<p>CEST Fri. 7:20am – 7:45am</p>	<p>CDT Fri. 12:20am – 12:45am</p>	<p>Austria / Germany / NZ:</p> <ul style="list-style-type: none"> • <u>Bergmann, J.</u>: Interest as key variable for STEM career choices in formative final school years and tertiary education • <u>Ertl, B.</u>; <u>Hartmann, F.G.</u>; <u>Mouton, D.</u>: To what degree do STEM pre-service teachers' interests fit their teaching aspiration? • <u>Luttenberger, S.</u>; <u>Paechter, M.</u>: Interest, self-concept, and family support as key-variables for women's motivation in STEM fields with different proportions of women • <u>Malkoc, S.</u>: STEM aspirations among young women in secondary education: The relevance of vocational interests • <u>Watson, P.</u>: Discussant
<p>11) Symposium. The power of women in STEM networks to create change</p> <p>https://uni-sydney.zoom.us/j/86096962538</p> <p><i>Chair: Gail Mattson</i> gail.mattson@inwes.org</p>	<p>AEST Fri. 11:00pm – 11:30pm</p>	<p>CEST Fri. 3:00pm – 3:30pm</p>	<p>CDT Fri. 8:00am – 8:30am</p>	<p>UK / South Korea / Mongolia:</p> <ul style="list-style-type: none"> • <u>Peers, S.M.C.</u>: The power of networks and collaborations for gender and STEM (UK) • <u>Baatar, B.</u>: The impact of women in STEM networks on education policy (Mongolia) • <u>Singh, S.</u>: Networking and collaboration to enhance women's participation in STEM education and employment (India) • <u>Park, H.Y.</u>; <u>Kim, J.S.</u>: Measuring perceptions of gender in science and engineering (South Korea) • <u>Kim, J.S.</u>: Discussant (South Korea)

Group, theme & Zoom link	Timezone & time			Authors & title (<u>authors underlined</u> will be in attendance)
<p>12) Gender & STEM learning environments</p> <p>https://uni-sydney.zoom.us/j/85736384346</p> <p>Chair: <i>Juan C. Castro-Alonso</i> jccastro@ciae.uchile.cl</p>	<p>AEST Sat. 1:00am – 1:30am</p>	<p>CEST Fri. 5:00pm – 5:30pm</p>	<p>CDT Fri. 10:00am – 10:30am</p>	<p>USA / Canada / Chile:</p> <ul style="list-style-type: none"> • <u>Castro-Alonso, J.C.</u>; <u>Adesope, O.O.</u>; <u>Wong, M.</u>; <u>Ayres, P.</u>; <u>Paas, F.</u>: Meta-analyses of gender imbalance in visualizations about STEM and non-STEM tasks (Chile) • <u>Goode, J.</u>; <u>Peterson, K.</u>; <u>Malyn-Smith, J.</u>; <u>Chapman, G.</u>: Gender inclusive instructional design strategies: How to engage and retain all genders in computer science professional development for teachers (USA) • <u>Shaukat, K.</u>; <u>Puvirajah, A.</u>: Examining the experiences of South Asian undergraduate women in STEM education (Canada) • <u>Sherwood, K.</u>; <u>Kelly, A.M.</u>; <u>Bugallo, M.</u>: Generative leadership development in a peer mentoring program for undergraduate women in STEM (USA) • <u>Villanueva, I.</u>: Using intersectionality-informed approaches to explore the experiences and perspectives of women graduate students and faculty in STEM (USA) • <u>Villanueva, I.</u>; <u>Sellers, V.</u>; <u>Youmans, K.</u>: Understanding gendered transformative and self-defeating resistance resulting from situational hidden curriculum in engineering (USA)
<p>13) Engaging children & youth in STEM learning</p> <p>https://uni-sydney.zoom.us/j/82521574537</p> <p>Chair: <i>Tess Shirefley</i> thaifley@ucsc.edu</p>	<p>AEST Sat. 1:30am – 2:00am</p>	<p>CEST Fri. 5:30pm – 6:00pm</p>	<p>CDT Fri. 10:30am – 11:00am</p>	<p>USA / Canada / UK:</p> <ul style="list-style-type: none"> • <u>Dickson, M.</u>; <u>McMinn, M.</u>; <u>Cairns, D.</u>: “Feeling like a scientist”: Girls’ and boys’ rationale for selection of tools in the science classroom (UK) • <u>Koh, K.</u>; <u>Chapman, O.</u>; <u>Liu, S.M.</u>: Designing authentic assessments to promote girls’ self-efficacy and interest in STEM subjects (Canada) • <u>Leammukda, F.</u>; <u>Boyd, B.</u>; <u>Roehrig, G.</u>: Fostering girls’ STEM interest through STEM integration at a developing STEM middle school (USA) • <u>Shirefley, T.</u>; <u>Callanan, M.</u>; <u>Jipson, J.</u>; <u>Castaneda, C.</u>: Investigating gender variations in how European-American and Latinx parents talk about science with their preschool age children during a book-reading task (USA) • <u>Shirefley, T.</u>; <u>Leaper, C.</u>; <u>Blood, T.</u>; <u>Cornell-Rath, K.</u>; <u>Gohari, D.</u>; <u>Upton, R.</u>: Investigating gender differences in parent-child conversations about life and physical science topics (USA)

Group, theme & Zoom link**Timezone & time****Authors & title (authors underlined will be in attendance)**

14) STEM education & applications

<https://uni-sydney.zoom.us/j/84302613569>

Chair: *Jolien DeMeester*

jolien.demeester@kuleuven.be

AEST Sat.
2:00am –
2:30am

CEST Fri.
6:00pm –
6:30pm

CDT Fri.
11:00am –
11:30am

Germany / Belgium / Norway:

- De Meester, J.; Deprez, H.; Van Loon, K.: Design and implementation of an online course for interdisciplinary STEM teacher learning (Belgium)
 - Ladewig, A.: Is co-education in science the reason for female underrepresentation in physics? (Germany)
 - Schmitz, S.: Gendering STEM digital. Potentials and challenges for promoting technoscientific literacy within STEM disciplines (Germany)
 - Steffensen, L.: Students discussing climate change (Norway)
-