



Australasian Association for
Engineering Education



What's on in AAEE?

2020 Edition 8 - October

- AAEE2020 Conference Update
- 20 OCT AJEE Webinar – Teaching Physics without much maths
- 13 NOV EER HDR student networking event
- Launching AAEE Youtube!
- Launch of Special Interest Group on 'Engineering Education for International Students'
- Virtual Networking Webinar Applications Open
- Australasian Journal for Engineering Education (AJEE) Special Issue now available
- From the Community – 2021 conferences, online events and conferences, opportunities available as well as resources and discussion from the Facebook group!

EVENT:

AAEE2020 Conference Update

Planning for AAEE2020 is continuing and full paper submission reviews are now underway. The budget for the conference has been significantly revised for the online format and we are pleased to announce the new registration fees:

Full AAEE member registration - \$240 AUD

Full non-member registration - \$290 AUD

Student registration - \$50 AUD

We are also working on revised presentation formats for the online mode as well as a range of online networking and social events across the program. Stay tuned for further updates and visit www.aeee2020.com.au for full details!



AAEE2020 Conference 6 - 9 December, Sydney



EVENT:

AJEE Paper Session – Teaching physics without much mathematics – ensuring physics is available to students of all backgrounds

AAEE is hosting a series show casing papers from the latest volume of the Australasian Journal of Engineering Education (AJEE). The sessions will take the form of having a brief overview of the paper followed by an extended Q&A/discussion with the audience. An overview of AJEE will also be provided.

First session will be on the paper/topic: Teaching physics concepts without much mathematics: ensuring physics is available to students of all backgrounds by Marcus Wilson, Sinduja Seshadri, Lee Streeter and Jonathon Scott. ([Paper available here](#))

20 October 3pm NZDT = 1pm AEDT = 10am AWST

[Register Online via Eventbrite](#)

For more information about AJEE please visit the [AAEE website](#), for the [latest AJEE papers](#) please visit [here](#).

EVENT:

EER Grad/HDR Students Networking Event

On the back of a successful networking event AAEE and ASEE Virginia Tech Chapter have organised another networking event for all students in Engineering Education Research. Bring yourself, a beverage and snack of choice to Zoom and join us! We'll hold a series of rapid fire barista moments (small chats about the length of time it takes for your coffee to brew), before opening it up to have some general rooms for folks to have more extended conversations in.

Friday 13 November 10:30am AEDT

For more information and to register please see [here](#).

INFORMATION:

AAEE Youtube

AAEE now has a home on Youtube! If you missed Dr Sarah Dart's presentation from our AAEE Awards Roadshow earlier in the year you can now find it on the [AAEE Youtube here](#). We're looking forward to sharing more outstanding examples of work in the Australasian engineering education space through this platform.

INFORMATION:

Special Interest Group on 'Engineering Education for International Students'

The AAEE Special Interest Group (SIG) on Engineering Education for International Students was launched at the end of August. For more information and to register for the mailing list [please see the AAEE website](#).

EVENT:

AAEE Virtual Networking Series Applications Open

AAEE is now accepting applications for a Virtual Networking Webinar Series. Applications can be either a presentation proposal or a request for a curated session around a particular topic. If you're interested in proposing a presentation or requesting a curated session, [please see this link for further details](#).

Australasian Journal of Engineering Education (AJEE)

The *Australasian Journal of Engineering Education* special issue '**Engineers for the future: embracing diversity**' is now available. Many of the papers are expanded from the AAEE2018 Annual Conference. Papers contribute to knowledge on embracing diversity in student recruitment, teaching, student experience, and engineering stakeholders. Topics include single/co-educational schooling, physical abilities, spatial abilities, mathematics preparation, civilian/defence status, refugees, and Indigenous culture. Additionally, the issue opens and ends with papers looking back and forward. Authors are from Australia, New Zealand, Indonesia and the US.

Editorial

- [Editorial](#)
Sally A. Male
Pages: 1-2 | DOI: 10.1080/22054952.2020.1808938

Research Articles

- [Emerging learning environments in engineering education](#)
Roger G. Hadgraft & Anette Kolmos
Pages: 3-16 | DOI: 10.1080/22054952.2020.1713522
- [Engineering design with Syrian refugees: localised engineering in the Azraq refugee camp, Jordan](#)
Claudio Freitas & Jennifer DeBoer
Pages: 17-30 | DOI: 10.1080/22054952.2020.1793612
- [The contribution of gender segregated secondary education on the progression to engineering](#)
Paul D. Docherty , Wendy H. Fox-Turnbull , Katharina Naswall , Annie Homewood , Hollie Bradley , Pinelopi Zaka & J. Geoffrey Chase
Pages: 31-38 | DOI: 10.1080/22054952.2020.1788254
- [Teaching physics concepts without much mathematics: ensuring physics is available to students of all backgrounds](#)
Marcus T. Wilson , Sinduja Seshadri , Lee V. Streeter & Jonathan B. Scott
Pages: 39-54 | DOI: 10.1080/22054952.2020.1776027
- [An examination of the role of spatial ability in the process of problem solving in chemical engineering](#)
Sheryl A. Sorby , Gavin Duffy & Norman Loney
Pages: 55-65 | DOI: 10.1080/22054952.2020.1785653
- [How do students in different minority groups experience first-year engineering?](#)
Kate F. Wilson & Kate Wilson
Pages: 66-78 | DOI: 10.1080/22054952.2020.1796044
- [Exploring student disability and professional identity: navigating sociocultural expectations in U.S. undergraduate civil engineering programs](#)
Cassandra McCall , Ashley Shew , Denise R. Simmons , Marie C. Paretto & Lisa D. McNair
Pages: 79-89 | DOI: 10.1080/22054952.2020.1720434
- [Extending assessment of engineering professional skills to include the local Indonesian higher education competency](#)
Hadisantono Hadisantono , Gerard Rowe & Nasser Giacaman
Pages: 90-102 | DOI: 10.1080/22054952.2020.1807730
- [Employer and academic staff perceptions of science and engineering graduate competencies](#)

From the Community

If you have an upcoming event, opportunity or resource you would like to be considered to be shared with the broader AAEE community via the newsletter - please either post it to the Facebook group or [submit it via the website portal](#) by the 1st of each month.

INFORMATION:

Upcoming Events and Conferences

- 19 Oct – ONLINE – [The University of Sydney Arthur and Hilda Winch annual lecture in pre-colonial Aboriginal and Torres Strait Islander culture by Bruce Pascoe titled Perennial Soil](#)
- 20 Oct – [AJEE PAPER SERIES – Teaching physics concepts without much maths – ensuring physics is available to students of all backgrounds](#)
- Weekly 22 Oct to 21 Jan 2021 – [Introducing Qualitative Data Analysis at UTS](#)
- 21-24 Oct – ONLINE - [Frontiers in Education Online Conference](#)
- 28 Oct – ONLINE – Queers in Science - [#AlternativeAcademia – Moving into Industry and Government](#)
- 13 Nov – ONLINE – [EER Grad/HDR student networking event](#)
- 28-30 April 2021 – Work-Integrated Learning New Zealand Conference (University of Waikato), ‘Work-Integrated Learning on the Rise 2.0’, Abstracts due mid-December 2020. [For more information see here.](#)
- Weekly (typically announced Monday) – ONLINE - [IFEES Webinars](#)

INFORMATION:

2021 Conferences

Never too early to start thinking about 2021. With some abstracts due in the coming months, we’ve compiled a list of conferences already announced for 2021. For further information, please search and refer to the organisation’s website.

	Abstracts Due	Conference Dates and Location
Research in Engineering Education Symposium (REES) and AAEE Annual Conference (2021)	TBA	5 – 9 December 2021 Perth, Australia
IEEE World Engineering Education Conference (EDUNINE) – Hybrid mode conference	15 October 2020	14-17 March 2021 Guatemala, Guatemala
IEEE Global Engineering Education Conference (EDUCON)	05 October 2020	21 - 23 April 2021 Vienna, Austria
Canadian Engineering Education Association (CEEA-ACEG) Annual Conference	TBA	20 - 23 June 2021 Charlottetown, Canada
American Society for Engineering Education (ASEE) Annual Conference	12 October 2020	27 - 30 June 2021 California, USA

Higher Education Research and Development Society of Australia (HERDSA) Annual Conference	22 January 2021	7 – 10 July 2021 Brisbane, Australia
Frontiers in Education (FIE) Conference (Engineering and Computing Education)	25 January 2021	13 – 16 October Lincoln, USA

OPPORTUNITIES:

Opportunities

Research and Publishing:

- *European Journal for Engineering Education* is calling for papers for a Special Issue on 'Online Laboratories in Higher Engineering Education: Solutions, challenges, and future directions from a pedagogical perspective'. Abstract submission due 31 October 2020. [More information here.](#)
- *Journal of Engineering Education* is calling for papers for a Special Themed Section on the 'Effects on the Engineering Education Community of the COVID-19 Pandemic'. Submission Deadline 1 December 2020. [See this statement for further information.](#)
- *European Journal for Engineering Education* is seeking expressions of interest for one or more associate editors. [For more information please see.](#) Submission deadline 15 December 2020.
- [EOI open for PhDs in Indigenous knowledge topics at The University of Melbourne](#)
- [EOIs open for PhD's in Humanitarian Engineering including gender equity and developing authentic assessments in humanitarian engineering](#)

INFORMATION/RESOURCES:

Resources and Discussion

A quick snapshot of the discussions, shared articles and resources from the Facebook group lately and some scooped up from engineering education relevant conversations on Twitter. If you're on Facebook and not yet a member, [join the group online here.](#)

- [AAEE wiki](#)
- [ASEE interim report – COVID-19 and Engineering Education](#)
- [Proposed updated IEA Benchmark for Graduate Attributes and Professional Competencies](#)
- [ASEE's Black in Engineering Resource page](#) outlining specific actions that colleges and universities can take toward becoming anti-racist institutions, offering a set of guiding principles and a series of action-oriented recommendations.
- [Multidisciplinary Research Methods for Engineers MOOC](#) by TU Delft (Jan 2021)
- Recordings from previous CHEER UP webinars - <http://bit.do/cheerupvideos>
- Recordings from [Education 4.0 Our Next Phase to Curriculum and Assessment Design International Virtual Series](#)
- SEFI 2020 Best Paper Award presentation: [Towards a Typology in Literature Studies and Reviews in Engineering Education Research](#)
- [Resource on respecting ethnic names](#)
- [International Virtual Forum in Teaching and Learning: Student-as-Partners in Online Learning Voices from HKU](#)
- [How Indigitek's Ben Armstrong is changing STEM for the next generation](#)
- [Redefining the scientific conference to be more inclusive](#)

[Unsubscribe from AAE](#)