



Australasian Association for
Engineering Education



What's on in AAEE?

2020 Edition 7 - September

- AAEE2020 Conference Update
- AAEE2020 HDR Symposium
- Summer and Winter School 2021 EOI open
- AAEE Awards nominations open
- Citations for Outstanding Early Career Contributions to Engineering Education nominations open
- AAEE Webinar – Surveys: The good, the bad, the ugly
- 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, Engineering NZ study to life resources, 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:

AAEE2020 HDR Symposium Deadline Extension!

The inaugural AAEE Higher Degree by Research (HDR) Symposium in Engineering Education Research offers an opportunity for Masters by Research and PhD candidates to explore and develop their research projects under the guidance of well-known senior scholars led by Prof. Les Dawes and Prof. Olivera Marjanovic. During the HDR Symposium, participants will share their current dissertation work, exchanging feedback, as well as network with peers.

The HDR symposium will run online on **Friday 04 December** as a ½ day pre-conference workshop (time TBC) for the AAEE2020 Conference. All participants must also be registered for the main conference, with attendance to the HDR Symposium covered in the conference cost.

We now **invite HDR students in Engineering Education Research (EER) to apply to participate** in the HDR symposium **by COB 29 September 2020**. Further [information and application document is available here](#).

INFORMATION:

AAEE Summer and Winter Schools 2021 EOI

AAEE are now accepting expressions of interests (EOI) for hosting the 2021 Summer and Winter School Programs. More information on the EOI submission process and hosting procedures can be found here for [Summer School \(NZ only\) and Winter School](#). EOIs will be accepted up to **30 September 2020**.

INFORMATION:

AAEE Annual Awards Nominations Opens

The AAEE Annual Awards recognise outstanding contributions to engineering education in Australasia. Awards are presented each year at the AAEE Annual Conference and are judged by a panel of experts drawn from across Australasia. They include:

- **Australian Council of Engineering Deans National Award for Engineering Education Excellence** for demonstrated excellence in Engineering Education
- **Engineering Education Research Design Award** for rigorous, innovative and transferable research design in the field of Engineering Education
- **Engineering Education Engagement Award** for fostering an excellent standard of successful engagement with stakeholders in Australasian Engineering Education

The 2020 AAEE Annual Awards are now open. Eligibility and judging criteria along with the submission portal can be found on the [EA Technical Society Awards](#) page.

Submissions are due to the [EA Technical Society Awards portal](#) by 01 October 2020.

INFORMATION:

Citations for Outstanding Early Career Contributions to Engineering Education Nominations Opens

In addition to the AAEE Annual Awards, AAEE also awards Citations for Outstanding Early Career Contributions to Engineering Education. These are also awarded at the Annual Conference and judged by a panel of experts across Australasia. Citations recognise and reward the diverse contributions made by individuals to the quality of engineering student learning and teaching at the early stages of their career.

For further information on eligibility, judging criteria and how to submit [please see here](#).
Nominations close October 01 2020.

EVENT:

AAEE Webinar – Surveys: The good, the bad and the ugly

Thursday 08 October 2020
1:00pm – 2:30pm AEDT

Delivered by A/Prof. Anne Gardner and A/Prof. Keith Willey, this webinar will cover survey design – the good, the bad and the ugly. For more information and to register, [please see the Eventbrite](#).

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. Streeeter & 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. Parette & 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](#)

E. Khoo , K Zegwaard & A Adam

Pages: 103-118 | DOI: 10.1080/22054952.2020.1801238

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

- 29 Sept – ONLINE - [Engineering CAS Webinar – The Future has spoken: Listening to the data to drive forward-looking strategies](#)
- 30 Sept – ONLINE - [RMIT University's What is the Future of STEMM/Digital Education?](#)
- 30 Sept – ONLINE - [International Virtual Forum in Teaching and Learning: Students-as-Partners in Online Learning – Voices from HKU](#)
- **08 Oct – ONLINE - [AAEE Webinar – Surveys: The good, the bad and the ugly!](#)**
- 21-24 Oct – ONLINE - [Frontiers in Education Online Conference](#)
- 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

Employment:

- [Senior Lecturer in Engineering Education: King's College London](#). Closes 04 October 2020
- [Educational Advisor Blended Learning, TU Delft](#). Closes 19 October 2020

Research and Publishing:

- *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](#).

RESOURCE:

Engineering NZ's Study life to Working life Resources

Engineering NZ have developed a range of resources to support students through the transition between study life and working life. These include a [webinar on Shaping up your LinkedIn](#) and a [video podcast series with a range of engineers talking about their work life](#). Please share with your students.

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](#)
- Committee for Economic Development of Australia - [The future of Australia's higher education sector video recording](#)
- [1 in 10 university research jobs tipped to vanish because of pandemic](#)
- [STEM courses would lose \\$690 million in funding under university fee reforms, sector advocates say](#)
- [European higher education set up for stimulus funding bonanza](#)
- [Proposed updated IEA Benchmark for Graduate Attributes and Professional Competencies](#)
- (AU) Juukan Gorge Caves destruction by Rio Tinto articles ([Marcia Langton](#), [ABC article with further related stories](#), [Latest news](#))
- [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.
- [To cross the picket line or join it: Facing engineering education's role in the socioeconomic exploitation of marginalized peoples to further a discipline](#) (JEE Journal article; Open Access)
- [Under-represented and overlooked: Māori and Pasifika scientists in Aotearoa New Zealand's universities and crown-research institutes](#) (Journal article)
- [Multidisciplinary Research Methods for Engineers MOOC](#) by TU Delft (Jan 2021)
- Education/Education Research Podcasts – [Engineers for the World \(What does it mean to be a global engineer?\)](#), [Higher Ed Heroes](#),
- 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](#)
- [Unisuper new climate policy signals move away from coal](#)
- [Tips for blended practicals](#)
- [Advances in Engineering Education \(A Journal of Engineering Education Applications\) new edition](#)
- [Regarding Class Quizzes: a meta-analytic synthesis of studies on the relationship between frequent low-stakes testing and class performance](#) (Journal Article)