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ATSE's April newsletter introduction is from Dr David Noon FTSE, Chair of the ATSE Queensland Division and Chair of the Division Chairs.

Dear <<First Name>>

The seven ATSE divisions (ACT, NSW, QLD, SA/NT, TAS, VIC, WA) engage with their regional Fellows and external stakeholders to align to ATSE's Strategic Goals. The examples in the following paragraphs relate to Queensland Division's engagement. I have also been working with the other Division Chairs to jointly coordinate our efforts on major events, to align our efforts with the ATSE Forums on Policy Priorities, and to share best practices for stakeholder engagement, in particular with State Governments.

The Queensland Division actively pursues ATSE's priorities through engagement with the Queensland Government and collaboration with industry, research organisations and academia. A recent example of this collaboration was an event, successfully held with QUT on 29 March 2023 about "[Creating a sustainable aviation fuels industry in Queensland](#)". Senior representatives from Boeing Australia, Brisbane Airport Corporation, LanzaJet, and the Queensland Government discussed Queensland's opportunity to become a major regional hub for manufacture and supply of sustainable aviation fuels. International aviation contributes 2% of global CO2 emissions, of which 70% emanate from long haul flights. Whilst electric and hydrogen fuel cell technology are solutions for shorter haul flights, sustainable aviation biofuels can reduce CO2 emissions from long haul flights by up to 80%. The Queensland Government made an announcement that Australia's first Alcohol-to-Jet refinery will be set up in Brisbane to produce more than 100 million litres of sustainable aviation fuels a year.

The next event will be an interactive forum on [Thursday 25 May 2023](#) with the Queensland Government and senior representatives from UQ, QUT and Griffith Universities on "[Research Commercialisation - Challenges and Solutions](#)".

On 27 September 2023, a joint seminar with the UQ Dow Centre on "Hydrogen" will involve the Queensland Government and key research organisations to discuss the R&D roadmap for production and storage of hydrogen, the development of the infrastructure for hydrogen energy, the applications and users of this clean energy. The event will also include a guided tour of the hydrogen laboratory in the UQ Dow Centre.

This year is my fourth and final year as Chair of Queensland Division, and I thank all Queensland Fellows, Queensland Division Committee representatives, other Division and Forum Chairs, and Secretariat staff for constructive interactions over the past four years. And I encourage Fellows who are interested in taking a future leadership role in ATSE to express their interest to Division and/or Forum Chairs. I can confidently say that I receive a multiplying effect on the time I dedicate to ATSE, towards both my professional career and personal values.

**Dr Davin Noon** FTSE  
Chair, ATSE Queensland Division,  
Chair of Division Chairs

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## ATSE AWARDS

### Nominations are now open

#### Who will you nominate?

Each year the Australian Academy of Technological Sciences & Engineering (ATSE) recognises outstanding senior and emerging innovators with through our national awards. The [ATSE Awards](#) celebrate our leading engineers, entrepreneurs, researchers and inventors who are building a better Australia through technological innovation.

The ATSE Awards honour the outstanding achievement of Australians in these categories:

- >> [Clunies Ross Technology Innovation Awards](#)
- >> [Batterham Medal for Engineering Excellence](#)
- >> [David & Valerie Solomon Award](#)
- >> [Ezio Rizzardo Polymer Scholarship](#)
- >> [ICM Agrifood Award](#)
- >> [Traditional Knowledge Innovation Award](#)

>> [All ATSE Awards guidelines and nominations](#)

We encourage you to consider the emerging leaders or experienced innovators in your sector who you could nominate. If you would like to discuss your nomination or the process of preparing a nomination please contact the [Communications and Outreach team](#).

**Nominations close 5:00pm AEST 29 May 2023.**

# NEWS



### NEW ATSE AWARD

## Traditional Knowledge Innovation Award

On Tuesday 21 March ATSE [announced](#) a new national award to be presented as part of the prestigious annual ATSE Awards. The [ATSE Traditional Knowledge Innovation Award](#) is part of ATSE's strong commitment to reconciliation and will recognise Aboriginal and Torres Strait Islander innovators who solve modern problems through the application of Traditional Knowledge.

**Nominations close 5.00pm 29 May AEST**

[NOMINATE an individual or team today.](#)

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### APPLICATIONS OPEN

## CAETS Communication Prize

CAETS – Council of Academies of Engineering and Technological Sciences

The [CAETS Communication Prize](#) recognises effective audiovisual communication to a general audience of how applied technology and engineering has been or can be used to address a real-world problem, and the resulting benefits to the economy or society. The prize is judged in a two-step process. Firstly, each CAETS member academy selects a national winner. This national winner is then submitted to the international CAETS Prize, and assessed by an international judging panel drawn from CAETS member academies. One international winner will be selected.

**APPLICATIONS CLOSE – 11:59pm AEST Friday 12 May 2023.**

>> [CAETS Communication Prize – 2023 Applications open](#)

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## NSW election priorities

Ahead of the March 2023 NSW state election, ATSE's 250 NSW Fellows — eminent technologists, applied scientists, and engineers from the state — presented their vision for a strong New South Wales economy built on the foundation of technology and innovation.

ATSE encouraged NSW leaders to outline a vision for how they will address the state's challenges, and make the next decades the most prosperous in the state's history.

>> [READ THE ELECTION STATEMENT](#)

[Policy and technology for a prosperous NSW - Leading Technologists, Scientists and Engineers present priorities ahead of 2023 state election | ATSE](#)

## Diversity in STEM consultation

ATSE will be contributing to the Department of Industry, Science and Resources review of Diversity in STEM. You can read more about the review on the [consult.industry.gov.au](https://consult.industry.gov.au) website. To find out more about ATSE's submission, please contact the policy team at [AcademyPolicyTeam@atse.org.au](mailto:AcademyPolicyTeam@atse.org.au). Fellows may also consider making a [submission directly to DISR](#).

>> HAVE YOUR SAY: [AcademyPolicyTeam@atse.org.au](mailto:AcademyPolicyTeam@atse.org.au)



DISR'S Diversity in STEM dialogue starter: have your say

## INTERNATIONAL

### Calls for experts on e-mobility

**CAETS project to align with theme of the 2023 annual conference**

Zagreb, Croatia, 9-11 October

This year's annual conference of the International Council of the Academies of Engineering and Technological Sciences (CAETS) will be focusing on e-mobility and decarbonisation of transport. The project co-chairs - Chris Hendrickson of the National Academy of Engineering (USA) and Neven Duić (Croatian Academy of Engineering) - are calling for expert contributors from CAETS member academies worldwide to join the project working group.

>> GET INVOLVED: Please contact [Dr Cath Latham](#), Director – International by Wednesday 12 April if you are interested in contributing to this CAETS project as an author or working group member. For further information on the CAETS project including the scope and timeline, please see the Fellows portal.

### Australia and the Indo-Pacific: ATSE builds engagement with our near neighbours

ATSE continues to build engagement in STEM fields between Australia and the Indo-Pacific, particularly the Pacific Island nations. One of ATSE's three strategic goals set out in the five-year international strategy is to promote regional STEM development and capacity building in the Indo-Pacific region.

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Pacific Island nations. We thank those Fellows who have already been in touch and provided invaluable advice to assist in ATSE's development of our Indo-Pacific engagement strategy.

>> GET INVOLVED: Contact [Daniel Salas](#), Program Coordinator – International Affairs



## Fellows from ATSE's sister academy in Japan visit ATSE

Four Fellows of the [Engineering Academy of Japan \(EAJ\)](#), ATSE's sister academy and fellow CAETS member, visited Canberra on March 10 to discuss common goals and opportunities for collaboration between the two academies. As Australia's 2<sup>nd</sup> largest trading partner, Japan is a high priority partner where collaboration in science and technology is a critical component of our trade and broader relationship. During the visit, the two academies discussed common priorities including supporting the next generation of engineers, climate change and the energy transition, and diversity and inclusion in engineering. Next steps for the inter-academy relationship will focus on developing an Australia-Japan young scientist/engineer exchange program.

ATSE was represented by Dr Carrie Hillyard FTSE (International Strategy Group chair), Professor Murray Scott FTSE (International Strategy Group member) and Professor Elanor Huntington FTSE, along with senior ATSE staff.

>> MORE INFORMATION: Contact [Dr Cath Latham](#), Director — International

## ATSE submissions

Recent ATSE submissions were made to the consultations on [Future delivery of foundation skills training in remote Australia](#), [Jobs and skills Australia](#), [Perceptions and status of vocational education and training](#), and [Safeguard Mechanism Reform](#).

>> GET INVOLVED: Fellows are encouraged to contribute their expertise to policy submissions. Upcoming submissions include the Universities Accord, National Science and Research Priorities, and Diversity in STEM consultations. For more information, contact [AcademyPolicyTeam@atse.org.au](mailto:AcademyPolicyTeam@atse.org.au).

## ATSE at Australian Parliament House

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Parliament of Australia briefings last week. On Wednesday 29 March President DR Katherine Woodthorpe AO FTSE FAICD and CEO Kylie Walker contributed to the closed briefing on 'Developing Advanced Manufacturing in Australia' with the House Standing Committee on Industry, Science and Resources.

On Friday 31 March Kylie and Professor Ken Baldwin FTSE contributed to the hearing on the 'Inquiry into Australia's transition to a green energy superpower' with the Joint Standing Committee on Trade and Investment Growth, with Ian Chubb AC FTSE FAA FRSN representing the Academy of Science.

## POLICY

### PROJECT

#### Australia's research translation and commercialisation priorities

The Department of Education has partnered with ATSE to develop a series of future-focused reports highlighting research with translation and commercialisation potential among Australian universities and businesses. These reports will inform the development and implementation of policies and programs.

The next project will focus on current and emerging areas of research that display strong translation and commercialisation potential in Australian industry. The identified areas must be critical for the Australian economy today, or could become critical within the next 10 years, and should leverage Australia's research or industry strengths in the global economy. Your responses may be guided by, but are not restricted to, the seven priority areas in the national interest as set out by the [National Reconstruction Fund](#) (NRF).

>> GET INVOLVED: If you are interested in being informed when the project is open for consultation, please contact [AcademyPolicyTeam@atse.org.au](mailto:AcademyPolicyTeam@atse.org.au)

#### Recommendations from the Productivity Commission report

ATSE welcomed recommendations from the [Productivity Commission report](#) regarding an education sector shift to improve lifelong learning. The Productivity Commission report recommendations regarding building a skilled and adaptable workforce strongly align with those made in ATSE's major report: [Our STEM skilled future — An education roadmap for an innovative workforce](#).

### Join a Forum

All Fellows are encouraged to join a Forum and contribute their applied science, technology and engineering expertise to help ATSE in its mission to provide impartial, practical and evidence-based advice on how to achieve sustainable solutions and advance prosperity. To join a Forum please contact the Policy team.

Forum Chairs, Co-Chairs and Deputy Chairs are shown on the Fellows portal.

[Agriculture](#)

[Digital Futures](#)

[Education](#)

[Energy](#)

[Health](#)

[Industry & Innovation](#)

[Infrastructure](#)

>> More information: [AcademyPolicyTeam@atse.org.au](mailto:AcademyPolicyTeam@atse.org.au)

## FELLOWSHIP UPDATE

### Nominations for ATSE Fellowship have closed

Stage 2 nominations will open at the end of this month.

>> MORE INFORMATION: The [Election to ATSE](#) page on the ATSE website.

### Website rebuild

#### Public facing website and Fellows portal

We have completed the first stage (Discovery) with our digital agency Aceik. We ran both in person and online workshops with the Secretariat. Following an extended call for expressions of interest from Fellows to provide Discovery input, we ran an online workshop in early March. There will be another opportunity for Fellows to provide feedback before the site is launched.

>> MORE INFORMATION: Please contact the [Communications and Outreach team](#)

## EVENTS



Victorian Division presents

### Research infrastructure as a catalyst for collaboration and innovation

#### Thursday 13 April

In-person: 6:00pm-9:00pm AEST / Online: 6:30pm-7:30pm AEST

Graduate House University of Melbourne

220 Leicester Street Carlton 3053

In-person: Free (optional dinner: \$34)

Online: Free

Join us in this event to discover the challenges and opportunities involved in four distinct research and knowledge infrastructures, varying in size, focus, funding, and governance.

#### SPEAKERS

**Dr Sue Barrell AO FTSE** Stawell Underground Physics Laboratory

**Dr Stuart Cannon FTSE** Defence Science and Technology Group

**Rosie Hicks** Australian Research Data Commons

**Professor Michael James** Australian Synchrotron

> [Register](#)

[Subscribe](#)[Past Issues](#)[Translate](#) ▼**Science & policy lessons from the 2003 bushfires****Wednesday 19 April**

12:00pm – 1:30pm AEST

Online and in-person: Level 2 Burns Centre Building, 28 National Circuit, Forrest ACT 2603

Free

SPEAKERS

**Professor Jason Sharples FTSE**, UNSW Canberra**Dr Sally Troy**, ACT Multi Hazard Advisory Council> [Register](#)**20 YEARS ON.**

Science &amp; policy lessons from the 2003 Canberra bushfires

ATSE



Our energy transition:  
failure is not an option

ATSE



ATSE NSW Division and the UUSC present

**Our energy transition: failure is not an option****Thursday 20 April**

In-person — 12:00pm-2:00pm AEST — \$50

Online — 12:30pm-2:00pm AEST — Free

Union, University & Schools Club Sydney (UUSC)  
25 Bent St, Sydney – in-person and online

SPEAKERS

> **Dr Peter Tyree AM FTSE**> **Dr Adi Paterson FTSE**

MODERATOR

> **Professor Renate Egan FTSE**> [Register](#)[More ATSE events](#)**STEM CAREERS****IMNIS****Engage**

Three IMNIS: STEM Careers in Industry events have been held across the last two weeks, with two more this month. This is an opportunity for attendees to engage with senior-level STEM professionals in industry who will highlight their career journeys and key decisions made along the way, and how they applied their STEM expertise for a successful industry career. The goal of this event is to inform and inspire emerging leaders in STEM to embrace the full range of STEM careers available in the sector. Open to ATSE Fellows, IMNIS Mentors, Mentees and alumni.

The next IMNIS event series: *STEM Careers in Industry* will be held in the following cities from 7:30am–9:30am local time. For Fellows planning to attend, please [register](#)

&gt;&gt; Melbourne — 18 April: KPMG Tower Two, Collins Square, 727 Collins St, Docklands VIC 3008

&gt;&gt; Brisbane — 21 April: KPMG, Level 16/71 Eagle St, Brisbane QLD 4000

**Ignite**

The IMNIS Ignite industry internship program is open to host organisations keen to engage industry-aware IMNIS alumni with advanced professional skills in their ongoing and/or new projects. IMNIS Ignite is an



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>> GET INVOLVED: ATSE Fellows interested in hosting an intern at their organisation or know someone who would benefit from hosting an intern, please contact [IMNIS@atse.org.au](mailto:IMNIS@atse.org.au)



## ELEVATE

Do you know a woman or non-binary person who is interested in studying STEM at an Australian university in 2024? Would they like to undertake a research degree in applied STEM or are looking to build their leadership skills? Maybe they are starting out on their university STEM study journey?

We invite you to encourage the women and non-binary people in your networks to apply for an *Elevate: Boosting women in STEM* scholarship. The [Elevate scholarship guidelines](#) have been updated, in alignment with the strategic objectives of the program, so please encourage all applicants to read them thoroughly prior to submitting their applications.

The Elevate Program provides: an Elevate scholarship plus access to events and networking, mentoring, and ongoing support during scholars' university studies. Please share the Elevate opportunity with your networks, particularly with any industry connections who may be interested in undertaking postgraduate studies. For more information about the program please refer to the [Elevate website](#). Applications can be submitted via the [Elevate application portal](#).

**Applications for the 2024 Elevate Program close at 5:00pm (AEST) 31 August 2023.**

>> Fellows interested to learn more about mentoring through our STEM Careers programs, please contact the [STEM careers team](#).

## STELR

### ATSE's STEM education initiative

ATSE's *Shape Your Future* sessions are interactive discussions that explore STEM career journeys of Australia's leaders and rising stars in industry and academia. We aim to connect educators and students with influential professionals and decision-makers at the forefront of applied STEM research and innovation. Speakers will be from diverse backgrounds, STEM areas and professional sectors. These discussions will invite students to visualise the potential to develop diverse skills with STEM learning that can lead to rewarding careers.

>> NEXT SESSION — World Asthma Day, Tuesday 2 May  
*Celebrating careers in STEM health*

## SOCIAL MEDIA

### Please follow us on social media

ATSE aims to increase our impact in several ways. One of these is by increasing our following on our social media platforms. The Fellowship can amplify ATSE's impact by engaging with our posts, particularly liking, commenting and sharing. These actions help to increase our profile and our reach, not only within the STEM sector, but also with members of the general public.



Twitter



LinkedIn



Instagram



YouTube

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*ATSE acknowledges the Traditional Owners of the lands on which we work, and the 60,000+ years of Australian innovation through the world's oldest living cultures. We pay respect to Elders past and present.*