



# Clunies Ross Awards

## 2018 INFORMATION AND NOMINATION GUIDE

**The Clunies Ross Awards have a proud 25-year tradition of recognising contributions by dedicated individuals who have shared their vision and knowledge with others to apply technology for the benefit of Australia.**

Building Australia's future industries will depend on driving and adopting technological innovation to develop high-value products and services for a global market. Vision, tenacity and most importantly collaboration, are essential pre-requisites for success. Partnering and collaboration, both domestically and internationally, is central to positioning Australia as a nation with a competitive technological industry capability. Collaboration between and within businesses, and between business and publically funded research agencies, is at the core of a collaborative culture and significantly enhances innovation.

In recognition of the complex nature of such activities the Clunies Ross Awards are awarded in three categories with a single winner in each category.

The Australian Academy of Technology and Engineering (ATSE) administers the awards which will be presented at the annual ATSE Innovation Dinner as part of the ATSE National Technology Challenges Dialogue held on 13 June 2018.

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### Categories

#### CLUNIES ROSS ENTREPRENEUR OF THE YEAR AWARD

For those who have played a leadership role in the translation of a technology-based product or service that has led to financial success and demonstrated impact for Australia, and in which they have personally had a significant input in the inventorship or development of the technology. Such a person would typically have business responsibility as a CEO or a senior manager and may be working in either an early stage SME or a mature company environment.

**Typically this would be an entrepreneurial person leading an activity that is disrupting well established vendors or commercialising new opportunities through innovative use of new technologies.**

#### CLUNIES ROSS KNOWLEDGE COMMERCIALISATION AWARD

For those who have been responsible for the development and adoption of a technology and for sharing their knowledge leading to commercialisation, for example by licensing with a financially successful outcome

**Typically this could be a researcher or developer in a Public Funded Research Organisation, university or private company who has successfully passed his or her product/invention/service to a third party to commercialise and has generated significant revenue to the person and/or organisation they are associated with.**

#### CLUNIES ROSS INNOVATION AWARD

For those who have been responsible for the development and adoption of a technology that has significantly improved societal and/or industry capabilities. In this case the primary outcome is not a financial benefit but has measurable broad community or industry impact.

**Typically this could be a researcher or developer in a Public Funded Research Organisation, university or private company, where the outcome is in the form of industry development, or measurable improvement in community well-being or sustainability measures. Examples could include technologies that improve remote monitoring of agriculture/ecosystems, or improved access to remote learning and health care.**

### Criteria

1. The award winner has made an identifiably significant contribution to the advancement of industry and/or the community through the application of science and technology for the economic, social and environmental benefit of Australia;
2. The award winner is able to demonstrate the impact or potential impact of the technology-based innovation; and
3. The award winner has advanced the promotion of innovators and community awareness of technological innovation.



## Profiles of 2017 Awardees

### **ENTREPRENEUR OF THE YEAR: PROFESSOR ANDREW WILKS FTSE**

#### **25 YEARS BUILDING A BLOOD CANCER DRUG**

Professor Andrew Wilks FTSE has made key contributions to the development of a successful new drug for the treatment of haematological malignancies such as Idiopathic Myelofibrosis, a highly malignant condition caused by the inappropriate activation of JAK2, a cellular enzyme he discovered in 1989. The story spans nearly 30 years, from his discovery of this important cellular enzyme, through to the design and development in 2005 of a new drug, known as Momelotinib, that has recently successfully completed Phase 3 trials to treat patients with this and other diseases.

Professor Wilks, now co-founder and Executive Chairman of the SYNthesis med chem Group, has completed a rare “trifecta” – discovering and patenting a number of important drug discovery targets (JAK1 and JAK2); founding and raising funds for the establishment of one of Australia’s most successful biotech companies, Cytopia (later merged into Canada’s YM BioSciences and ultimately sold to Gilead Sciences); and co-inventing and leading the team that delivered Momelotinib.

### **KNOWLEDGE COMMERCIALISATION AWARD: MR DARRYN SMART**

#### **PROTECTING OUR TROOPS FROM IEDS**

Improvised explosive devices (IEDs) take a daily physical and emotional toll in Afghanistan and other conflict zones. Mr Smart has researched radio-activated IEDs and developed novel counter-IED units to protect individual Australian Defence Force (ADF) soldiers and vehicles as well as coalition partners.

Mr Smart is Group Leader, Communications and Electronic Warfare, at the Defence Science and Technology Group, based at Edinburgh, South Australia. In this role he led the IED Countermeasure system development team that developed four unique protection systems and devices then took them through commercialisation with an estimated benefit of \$61 million. The products showcase how Australia’s cutting-edge technological development can make an impact on the global stage.

He has more than 30 years’ expertise in electronic warfare and is credited with having a profound impact on the cultural environment within the defence scientific community through leading and managing teams across large multi-disciplinary activities.

### **INNOVATION AWARD: PROFESSOR MIKE XIE FTSE**

#### **ESO/BESO CHANGES THE WAY WE BUILD THINGS**

Professor Mike Xie FTSE, Director of the Centre for Innovative Structures and Materials at RMIT University, has made significant contributions to the original development and subsequent adoption of a technology known as Evolutionary Structural Optimisation (ESO) and Bidirectional ESO (BESO).

This technology has been used to design many landmark buildings and other novel products around the world. Major companies in Australia including Arup, Boeing and Thales have collaborated with Professor Xie to design light-weight and high-performance structures and materials using ESO/BESO.

The original ESO technique, first proposed by Professor Xie’s team in 1992, was based on the simple concept of gradually removing inefficient material from a structure so that the resulting shape would evolve towards the optimum. A more robust technique known as BESO, which was introduced by Professor Xie’s team a few years later, allows material to be removed and added simultaneously by redistributing the under-utilised material to the most needed locations.

**Further information and videos on past awardees can be viewed at  
[www.atse.org.au/cluniesrossawards](http://www.atse.org.au/cluniesrossawards)**



## Assessment of Nominations

The Clunies Ross Award is awarded to an individual. Where the nominator believes the award should be shared by a number of individuals, usually no more than three, this must be fully justified, including demonstrating why the contribution could not have been achieved without each of the nominees being associated for the majority of the total time involved. Simply including the name of a co-inventor on a patent application is not sufficient. The Team Leader must be identified.

In assessing the nominees, the following Criterion will be taken into account for each award. The Nominator should specifically address these criteria towards the Award Category being applied for and provide specific examples and data as necessary.

Whilst quantitative data is an essential element to be provided to assist in the assessment of nominees, qualitative data is also critical in balancing out any application.

### Criterion 1: Contribution and Application

- A description of the product or licence or technology involved, its nature, its name or designation and whether patents or other means protects it. The description should include details of the beneficial owner and the relationship to the nominee(s) if they are not the same.
- A description of the outcome and the impact the contribution has made and in what field.
- Evidence of the nature of the contribution within the proposed award category demonstrating the role; as an entrepreneur or in knowledge commercialisation or as an innovator. Clear outline of the personal involvement of the nominee(s) through all stages from discovery to commercial application.
- If patents protect the invention, evidence should be provided to show that the nominee(s) had a dominant role. The history and current status of the contribution from the date it was first defined to the present, including the date when it became a commercial reality, achieved broad market acceptance or was widely used in the community, should be included.
- Persistence needs to be demonstrated (this may be over a considerable period of time). We would describe this as 'going the extra mile' – evidence of the continuity of involvement of the nominee(s) from discovery through the creation of the product and its successful and sustainable commercial application. It is recognised that others will have been involved during this process as specialists but the nominee(s) must have had the leading and decisive role throughout.

### Criterion 2: Demonstration of Impact

- Where the outcome has been the commercialisation of a product(s) or technology into a defined market place: Details of sales, impact of technology on the market and relevance to competitive position.
- Where the outcome has been the licensing of technology into the market place: Financial details of the licence plus details on the uptake of the technology as a result of the licence.
- Where the outcome is measured as significant social or environmental benefit to Australia: The estimated magnitude of that benefit in terms of cost savings or other tangible and measureable outcomes, including the extent to which the contribution has been taken up by the community.
- Financial: Details of sales, financial details of licenses, financial impact as a result of uptake of the technology.
- Jobs: Jobs created, transformed (up-skilled) or secured (avoided job loss), with preference to Australian jobs.
- Productivity: Productivity improvement, evidence of added value to product or process.
- Competitiveness: Improved position in global supply chain, evidence of impact on the market.
- Sustainability: Evidence of long-term impact to an industry, user service or product that is transformative to existing processes.
- Social Impact: Evidence that the impact is sustainable including evidence of impact in the areas of health, safety, environment, compliance and community impact; improvement for an identified subset of the community, or a previously unmet need.

### Criterion 3: Advancement of Technology

- Evidence of the nominee's outstanding record of commitment to successful innovation involving the application of science and technology to the economic, and social or environmental benefit of Australia. Excellence in research or science in itself is not sufficient.
- Evidence that the nominee/initiative has had a profound impact on the cultural environment within organisations such as public funded research bodies/universities or industry.



## Supporting Documentation

**Nominator to upload into Nomination Portal supporting quantitative documents such as:**

- Quantitative documentation for Criteria 1 and 2, e.g. company Annual Report
- Referee Reports (completed on the official Referee Report Form)
- Nominee's CV (no more than two pages)
- Patents
- Any acknowledgement of inventorship, such as patent authoring
- FINANCIAL: Details of sales, financial details of licenses, financial impact as a result of uptake of the technology
- JOBS: Jobs created, transformed (up-skilled) or secured (avoided job loss), with preference to Australian jobs
- PRODUCTIVITY: productivity improvement, evidence of added value to product or process
- COMPETITIVENESS: improved position in global supply chain, evidence of impact on the market
- SUSTAINABILITY: Evidence that the impact is sustainable and transformative
- SOCIAL IMPACT: evidence of impact in the areas of health, safety, environment, compliance and community impact; improvement for an identified subset of the community; or a previously unmet need.

Nominators are also encouraged to upload into the Nomination Portal any supporting documentation relevant to the application for the specific **Clunies Ross Award Category**. For example:

### Clunies Ross Entrepreneur of the Year Award

**The Company's Annual Report detailing:**

- Product Description Information
- Current Financial Summary

### Clunies Ross Knowledge Commercialisation Award

- Details of Licensing Agreements and Value
- Progress of Licensor in exploiting Licensed Technology

### Clunies Ross Innovation Award

Economic assessment of public good outcome or any economic assessment of outreach benefits i.e. where the technology has been developed by others.

## Past Recipients

Past Recipients of the Clunies Ross Awards will not be considered for further award of the Clunies Ross Awards.

## Previous Nominees

Previous nominees are eligible for renomination and to be considered for a Clunies Ross Award. New documentation must be submitted.

## Obligations of Awardees

Awardees will be expected to:

- attend the presentation of the Clunies Ross Awards at the ATSE Innovation Dinner on 13 June 2018;
- be available for filming of a promotional video for the duration of half/full day;
- participate in associated media activity prior and post the award ceremony; and
- engage in ATSE presentations over 12 months, which may be interstate.

## NOMINATION ONLINE LODGEMENT

**NOMINATION CLOSING DATE: 2.00 PM AEDT FRIDAY 27 OCTOBER 2017.**

**Nominations must be made using the Clunies Ross Awards ONLINE NOMINATION PORTAL at [www.atse.org.au/cluniesrossawards](http://www.atse.org.au/cluniesrossawards).**

**Nominations received after the closing time will NOT be considered.**

The online Nomination Portal provides prompts and guidance:

- You can answer your questions in any order and all answers need to be completed to ensure your nomination is considered valid.

- The section you're filling in will be clearly highlighted and a tick will appear when the section is completed successfully.
- You will know how much of the entry has been completed, indicated on the summary page.
- Each page will save when you click the 'NEXT', 'PREVIOUS' or 'SAVE & RETURN' buttons at the bottom of the entry page but will not save if you leave the page mid progress without clicking 'SAVE & RETURN'.

\*Note: All attachments should be named clearly, for example: CITIZEN\_John\_Referee\_Report

**Only submissions and attachments received using the official online Nomination Portal will be accepted.**

## Referee Information

Referees should be knowledgeable of the Nominee's achievements but independent of the innovation/commercialisation activity of the nominee.

**Referees MUST submit their supporting documentation using the official REFEREE REPORT FORM and return their completed form to the Nominator for uploading into the Nomination Portal by 2.00 pm AEDT Friday 27 October 2017. Late submissions will not be accepted.**

## Nomination Documents checklist

The following materials constitute a complete nomination:

- **Part A:** Nominator and Nominee details
- **Part B:** Application Overview (summary in 100 words or less)
  - Award Category selected.
- **Part C:** Selection Criteria
  - Criterion 1: Contribution and Application (500-word limit)
  - Criterion 2: Demonstration of Impact (500-word limit)
  - Criterion 3: Advancement of Technology (500-word limit)
- **Part D:** Nominator Overview (500-word limit)
- **Part E:** Referee Information
- **Part F:** Nominee Supporting Quantitative Documents
  - Nominee CV (no more than two pages)
  - Other: patents; acknowledgement of inventorship; company annual report; licensing agreements; economic assessments
- **Part G:** Referee Reports (must be completed using the official Referee Report Form. Limit of 2)

## Nominations

**Note the following:**

- Nominations must be submitted by one party (nominator), supported by two independent referees (referees) on behalf of another party (nominee).
- Note: nominator and nominee may be called upon by the Selection Panel to provide evidence of claims made within submitted documentation.
- Referee Reports must be uploaded by the Nominator into the online Nomination Portal.
- Incomplete Nomination submissions will NOT be considered.
- The nomination process is not confidential to the nominee and the nominator may seek assistance from the nominee for the application. Self-nominations will not be considered.
- The Academy may decide not to make an Award in any year if we are of the view that the nominating process has not identified an appropriate recipient.
- All decisions taken by the Academy shall be final and no correspondence will be entered into.

## Confidentiality and Privacy

**Confidentiality of information exchanges will be strictly observed.**

In accordance with the Privacy Act, ATSE protects the privacy and security of information provided by you. By completing this form, you agree to the use of your personal information by ATSE for purposes related to the Clunies Ross Awards program; that ATSE may contact you about our products and services; and that ATSE may use this information for internal purposes.

**If you do not wish to receive further information, please email [clunies.ross@atse.org.au](mailto:clunies.ross@atse.org.au) or call 03 9864 0900.**