



Australasian Association for Engineering Education

Excellence Awards for 2004

Each year, the Association recognises excellent achievement in Engineering Education in a number of categories. The awards for 2004 are :

- Excellence in Teaching and Learning in Engineering Education
- Excellence in Curriculum Innovation in Engineering Education
- Excellence in Inclusive Practice in Engineering Education
- Excellence in a Curriculum Team Project in Engineering Education
- New Educator's Award for Teaching and Learning in Engineering Education
- Excellence in Teaching and Learning in Mechanical / Mechatronic Engineering Education
- Excellence in Teaching and Learning in Industrial / Manufacturing Engineering Education

The award criteria and procedures are described below .

Engineers Australia – Australasian Association for Engineering Education (EA – AAEE) Award for:

Excellence in Teaching and Learning in Engineering Education

Selection Criteria

Nominees will be assessed on the basis of evidence which supports their claims against the following criteria:

1. Interest and enthusiasm for undertaking teaching in engineering and for promoting student learning;
2. Ability to arouse curiosity, and to stimulate independent learning and the development of critical thought;
3. Ability to organise course material and to present it cogently and imaginatively;
4. Innovation in the design and delivery of content and course materials, with evidence of a systematic course design process and an outcomes focus;
5. Provision of appropriate assessment, including worthwhile and timely feedback to students on their learning;
6. Participation in the effective and sympathetic guidance and advising of students;
7. Inclusion of teaching and learning strategies focused on the development of graduate attributes;
8. Evaluation evidence of teaching and learning quality;
9. Participation in professional activities and research related to teaching in engineering.

McGraw Hill – Australasian Association for Engineering Education (McGraw Hill – AAEE) Award for:

Excellence in Curriculum Innovation in Engineering Education

Selection criteria

Nominees will be assessed against evidence which supports their claims against the following criteria:

1. Extent to which the innovation promotes/facilitates quality teaching and learning in the institution;
2. Extent to which the innovation links to learning outcomes;
3. Extent to which the innovation has delivered practical outcomes;
4. Extent to which the innovation has application beyond the immediate domain and the level of adoption by other engineering educators;
5. Degree of student satisfaction with the innovation;
6. Evidence of the success of the innovation based on formal and informal evaluations;
7. Evidence that the innovation is still in use;
8. Extent of publication record associated with the innovation.

Australasian Association for Engineering Education (AAEE) Award for:

Excellence in Inclusive Practice in Engineering Education

Selection criteria

Nominees will be assessed against evidence which supports their claims against the following criteria:

1. Extent to which the practice promotes/facilitates more inclusive student access and progress in engineering education;
2. Extent to which the practice assists students to address any special learning needs;
3. Extent to which the practice is innovative and practical;
4. Extent to which students are aware of and use the practice;
5. Degree of student satisfaction with the practice;
6. Evidence of the success of the practice based on formal and informal evaluations;
7. Extent of publication record associated with the practice;
8. Extent to which the practice has influenced the professional development of other engineering educators.

Australasian Association for Engineering Education (AAEE) Award for:

Excellence in a Curriculum Team Project in Engineering Education

Selection criteria

Nominees will be assessed against evidence which supports their claims against the following criteria:

1. The extent to which the stated objectives of taking a team curriculum development approach have been achieved;
2. The extent to which a structured team-based approach has delivered an innovative and practical engineering education outcome;
3. The significance and benefits of the outcome and its range of application within the designated field;
4. The extent to which the project has influenced engineering education in other disciplines of engineering;
5. Evidence of the professional development of team members as a result of participating in the project;
6. Degree of student satisfaction with the project;
7. Evidence of the success of the project based on formal and informal evaluations;
8. Extent of publication record associated with the project.

Australasian Association for Engineering Education (AAEE) Award for:

New Educator's Award for Teaching and Learning in Engineering Education

Selection criteria

Nominees will be assessed against evidence which supports their claims against the following criteria:

1. Interest and enthusiasm for undertaking teaching in engineering and for promoting student learning;
2. Ability to arouse curiosity, and to stimulate independent learning and the development of critical thought;

Nominees will also need to provide evidence of their growing skill in the following:

3. Ability to organise course material and to present it cogently and imaginatively;
4. Evidence of a systematic course design process and an outcomes focus;
5. Provision of appropriate assessment, including worthwhile and timely feedback to students on their learning;
6. Participation in the effective and sympathetic guidance and advising of students;
7. Inclusion of teaching and learning strategies focused on the development of graduate attributes;
8. Evaluation evidence of teaching and learning quality;
9. Participation in professional activities and research related to teaching in engineering.

**American Society of Mechanical Engineers International,
Australian Section– Australasian Association for Engineering
Education (ASME International, Australian Section – AAEE)
Award for:**

**Excellence in Teaching and Learning in Mechanical / Mechatronic
Engineering Education**

Selection Criteria

Nominees will be assessed on the basis of evidence which supports their claims against the following criteria:

1. Interest and enthusiasm for undertaking teaching Mechatronic /Mechanical Engineering and for promoting student learning;
2. Ability to arouse curiosity, and to stimulate independent learning and the development of critical thought;
3. Ability to organise course material and to present it cogently and imaginatively;
4. Innovation in the design and delivery of content and course materials, with evidence of a systematic course design process and an outcomes focus;
5. Provision of appropriate assessment, including worthwhile and timely feedback to students on their learning;
6. Participation in the effective and sympathetic guidance and advising of students;
7. Inclusion of teaching and learning strategies focused on the development of graduate attributes;
8. Evaluation evidence of teaching and learning quality;
9. Participation in professional activities and research related to teaching in engineering.
10. Promoting and establishing global interaction in Mechatronic /Mechanical Engineering Education.

Austool Limited – Australasian Association for Engineering Education (Austool – AAEE) Award for:

Excellence in Teaching and Learning in Industrial / Manufacturing Engineering Education

Selection Criteria

Nominees will be assessed on the basis of evidence which supports their claims against the following criteria:

1. Interest and enthusiasm for undertaking teaching in Industrial / Manufacturing Engineering and for promoting student learning;
2. Ability to arouse curiosity, and to stimulate independent learning and the development of critical thought;
3. Ability to organise course material and to present it cogently and imaginatively;
4. Innovation in the design and delivery of content and course materials, with evidence of a systematic course design process and an outcomes focus;
5. Provision of appropriate assessment, including worthwhile and timely feedback to students on their learning;
6. Participation in the effective and sympathetic guidance and advising of students;
7. Inclusion of teaching and learning strategies focused on the development of graduate attributes;
8. Evaluation evidence of teaching and learning quality;
9. Participation in professional activities and research related to teaching in Industrial / Manufacturing Engineering.
10. Initiating and sustaining viable interaction with industry, including technology diffusion.

Nomination Requirements

Nominations for all awards must include:

- A nomination form which provides contact and administrative details,
- 3 nominations supporting the nomination.
- Two references of no more than one A4 page each, to be provided by people who are able to comment on the nominee's performance against the selection criteria.
- A curriculum vitae of no more than three A4 pages (Verdana 10 point font or equivalent) outlining the nominee's educational qualifications, career history, teaching positions and teaching experience.
- A statement addressing the selection criteria to be limited to 5 x A4 pages in total (Verdana 10 point font or equivalent). It is vital that nominees specifically address the selection criteria and provide evidence to support their claims against these criteria.

In addition, nominees must include the following:

- Selected teaching materials supporting the nominee's claims against the selection criteria. These may include, but are not limited to, materials such as evidence of contributions to curriculum or program design, material prepared for students such as audiovisual material, CD ROMs, course handouts and study guides. PC format is preferred for CD ROMs.
 - Please send only FIVE copies of any supporting material separately packaged and labelled as Supportive Teaching Material and include on the label nominee's name, institution, award type and category.
 - Please include an attachment itemising the teaching materials supplied.
 - Evidence of evaluation of performance/product/innovation

The committee reserves the right not to award in any one year.

The committee reserves the right to award at 'High Commendation' level in lieu of an award.

Please email your award Nomination and supporting evidence to Val Lee at Engineers Australia (VLee@engineersaustralia.org.au) by COB on 20th August 2004.

CDROMs and other supporting material should be mailed to Val Lee, Engineers Australia, PO Box 6238, Kingston, ACT 2604.

Please note that ZIP files will not be accepted. They are automatically purged from any incoming emails at Engineers Australia. PDF files are preferred.

Australasian Association for Engineering Education

Nomination for Award

Name of Award: _____

Title: _____ **Surname:** _____ **Name:** _____

Position: _____

School/Department: _____

Institution: _____

Contact details

Postal address: _____

Telephone: _____

Email: _____

Nominated by:

1: Name/Position/Institution

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Signature:..... Date:

2: Name/Position/Institution

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Signature:..... Date:

3: Name/Position/Institution

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Signature:..... Date: