

Update to ACED

Joe Kindregan

Senior Vice President, Institution of Structural Engineers

May 2018

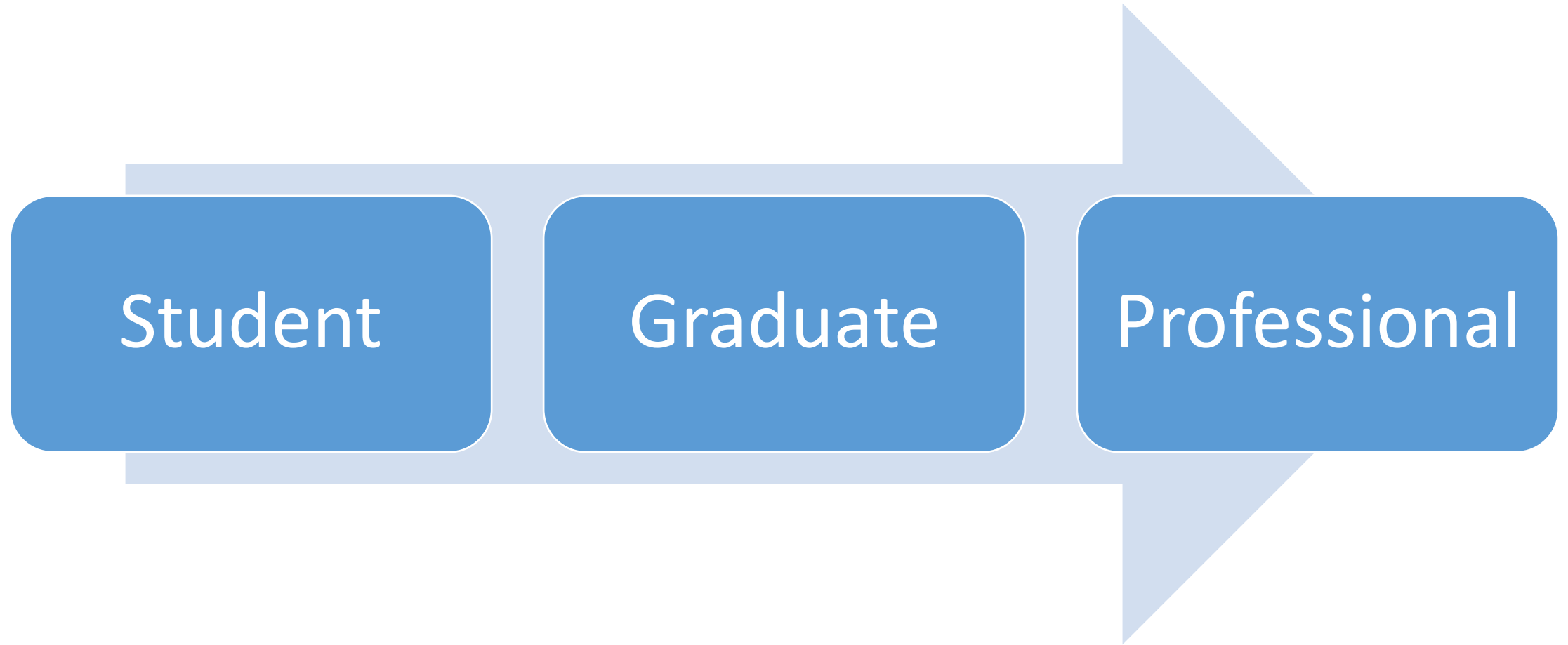
Content

- Membership and Education ethos
- Routes to Membership:
 - Broadening Student Membership
 - Graduate Membership Transition
 - Accessibility to Professional Registration
- SLO engagement
- Structural Behaviour Examination
- Education Promotional Activities
- Other Activities in 2018

Membership & Education Ethos

- Increasing accessibility to Student and Graduate membership and on to professional registration
- Removing barriers (or providing better info when there are perceived barriers)
- Promoting flexibility with the application process
- Putting the applicant at the heart of what we do

Routes to Membership



Broadening Student Membership

- Student Membership is now available to anyone studying in the built environment, scientific or engineering disciplines
- Reflects the multi-disciplinary nature of modern engineers
- Free membership for the duration of their studies
- Access to £1k of member benefits

Graduate Membership Transition

- Automatic upgrade to Graduate Membership for anyone in the civil or structural engineering discipline
- Free membership for the first year
- Opportunity to continue free membership by taking the Structural Behaviour Exam
- Ongoing support as Graduates work towards professional registration

Accessibility to Professional Registration

- A flexible process: candidates can now choose the order in which they sit their Interview and Exam
- Empowers candidates to choose the process that best suits their needs
- The timetable for Exams and Interviews remains the same
- Election only happens when both Exam and Interview have been successfully completed

SLO Engagement

In 2018 we will:

- Ensure there is a Student Liaison Officer in every university
- Provide a tool kit for SLOs to support their work
- Encourage student sign ups via the cohort form

Structural Behaviour Exam

The Institution of Structural Engineers

courses / Structural Behaviour Course / SBCourse / Sample Assessment

Question 1
Not yet answered
Marked out of 1.00
Flag question
Edit question

Select one:

a.

b.

Members in the following pin-jointed truss will be subjected to a vertical force. Choose the solution that matches the loading.

The image shows a screenshot of an online exam interface for The Institution of Structural Engineers. It features a question about a pin-jointed truss. The question asks to choose the solution that matches the loading for a truss with a vertical force applied. Three truss diagrams are shown, each with a different internal force distribution (Compression 'C' and Tension 'T') indicated. The first diagram shows a truss with a vertical force applied at the bottom chord. The second diagram shows a truss with a vertical force applied at the top chord. The third diagram shows a truss with a vertical force applied at the bottom chord. The diagrams are labeled 'a.' and 'b.'.

www.istructe.org/resources-centre/structural-behaviour

Structural Behaviour Exam

- Launching the Structural Behaviour Exam this summer
- Online exam with remote (human) invigilation
- The Exam will comprise 20 multiple-choice questions
- Aimed at graduates, but accessible to everyone

Design and Shape the World

The Institution
of Structural
Engineers

Design and shape the world

Careers in structural engineering

Have you ever wondered who makes buildings look beautiful and stand strong?

You might be surprised to hear that structural engineers work closely with architects to make amazing structures, from stunning staircases to soaring skyscrapers.

If you like maths, science, design or art, structural engineering could be the career for you.

5 reasons to become a structural engineer

David Knight is a young structural engineer. He's helped to design remarkable projects including the Greenwich Reach Swing Bridge in London and the Philippine Arena in Manila. Here are David's top five reasons for choosing a career in structural engineering...



Make the world safer

Structural engineers make sure our buildings and infrastructure are safe to use. You might study how to stop buildings falling down during earthquakes, hurricanes and other natural disasters.



Your work will last

As a structural engineer, you'll design buildings to last for fifty years, and bridges for over a century. Your work will be used and appreciated by many thousands of people, even after you've gone.



Be a respected professional

You'll meet lots of people in your job, and will need to work together to make projects succeed. Structural engineering is not an easy profession, but if you enjoy a challenge and work hard, your work will be respected, and you'll be well paid.

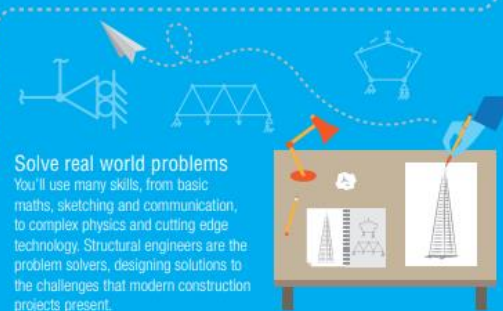
Your ideas become reality

It's a real buzz to see and touch something you imagined and designed, knowing your skills helped to make it happen. You could be involved in creating useful structures, beautiful structures, or even record-breaking structures.



Solve real world problems

You'll use many skills, from basic maths, sketching and communication, to complex physics and cutting edge technology. Structural engineers are the problem solvers, designing solutions to the challenges that modern construction projects present.



Find out more about structural engineering as a career.

www.istructe.org/careers



What is The Institution of Structural Engineers?

A global network of over 28,000 structural engineering professionals including some of the most talented and innovative engineers.

Find out more about our work and membership at www.istructe.org

The Institution of Structural Engineers
International HQ
47-58 Bastwick Street
London
EC1V 3PS
United Kingdom

Tel: +44 (0)20 7235 4535

Education Videos

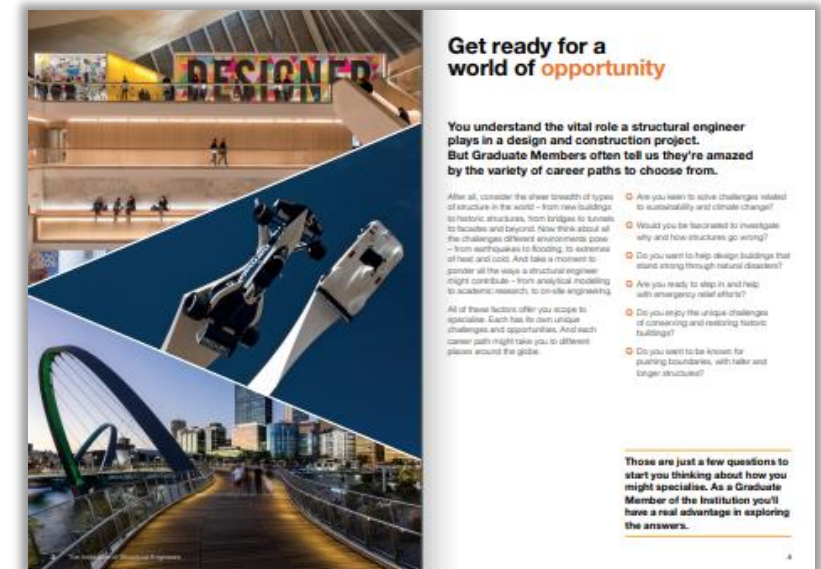
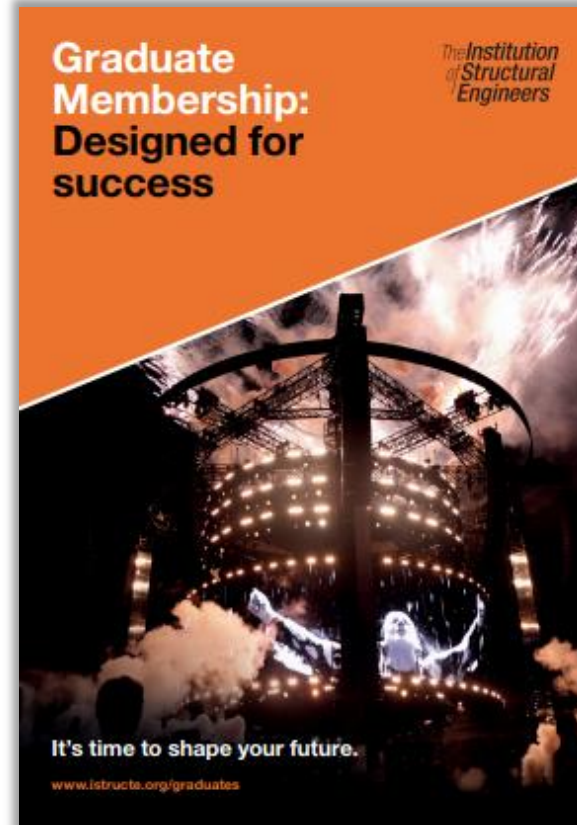
We asked three young members to describe their work to create three ~90second videos. The videos are now available in the Education & Careers section of the website.

<https://www.istructe.org/education-and-careers>



Designed for Success

- A new guide for penultimate- and final-year students has been published to promote Graduate membership



Other Activities in 2018

- Young Engineers' Conference:
16 July 2018 – TICKETS ON SALE NOW
Coventry University
Theme: Resilience
- Annual Academics' Conference
12 September 2018
IStructE HQ
Theme: Teaching about Creativity and
Conceptual Design in Built Environment
Education

