What is sustained innovation anyway?

Lunch and Learn
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Welcome to the Faculty of Engineering and Information Technologies Education Innovation Unit (EIU). The Unit has been established in 2016 to promote a culture of innovative and scholarly practice of engineering education within the Faculty of Engineering and IT at The University of Sydney.

**Who we are**

**Mission**

The mission of this unit is to promote a culture of systemic and sustained innovation, guide the deployment of innovation within programs, and establish a community of practice around excellence and scholarship in Engineering and IT education.

Our objectives are:

- Improve the student experience by promoting excellence in engineering and IT education, sustained innovation, and the adoption of appropriate approaches to engineering and IT education
- Build a community of practice of stakeholders committed to educational excellence built upon sound scholarship
- Work to ensure that the Faculty teaching practices reflect transdisciplinary and global perspectives and are based on international best practice
- Provide mechanisms for supporting, recognising and rewarding educational excellence and innovation
- Encourage the exploration of novel approaches to engineering education and the dissemination and recognition of outcomes across the Faculty
- Position the Faculty of Engineering and IT at the forefront of innovation in engineering education within Australia.
What is sustained innovation anyway?
What is sustained innovation anyway?
Innovation
What is sustained innovation anyway?
What is sustained innovation anyway?
Adapting is a human instinct
We innovate to adapt
We all innovate to adapt
What is sustained innovation anyway?
How?

—DIRECTIONS—

scatteringly in boiling water little by
out, boil continuously for about 12
of water, put out the fire.
Innovation is a process
Building blocks + connectors
What is sustained innovation anyway?
What is sustained innovation anyway?

Creativity: Imagination applied
On creativity

- We all are innately creative
- How is creativity fostered in school?
- Can it be promoted?
On how to have creative moments

• Demystifies creativity
• Tips on promoting creative moments
• Balance between blue sky and reality
Innovation: Creativity put to practice
Path to innovation

Innovation in Eng Ed

What is sustained innovation anyway?
What is sustained innovation anyway?

Imagination → Creativity → Innovation

UoS → Assessment → Turnitin → Student engagement → Overall satisfaction
Projects → Blackboard → Workload → Surveys
Choose an element of your ecosystem
Pick a problem
Abelardo Pardo

What is sustained innovation anyway?

Imagination → Creativity → Innovation
What is sustained innovation anyway?
What is sustained innovation anyway?
What is sustained innovation anyway?

BH-ShaDe: A Software Tool that Assists Architecture Students in the Ill-Structured Task of Housing Design (Abstract)
Eva Millan, Escuela Técnica Superior de Ingeniería Informática, Universidad de Málaga, Málaga, Spain
Maria-Victoria Belmonte, Escuela Técnica Superior de Ingeniería Informática, Universidad de Málaga, Málaga, Spain
Manuela Ruiz-Montiel, Escuela Técnica Superior de Ingeniería Informática, Universidad de Málaga, Málaga, Spain
Juan Gavilanes, Escuela de Arquitectura, Universidad de Málaga, Málaga, Spain
Jose-Luis Perez-de-la-Cruz, Escuela Técnica Superior de Ingeniería Informática, Universidad de Málaga, Málaga, Spain
pp. 244-257

Designing a Secure Exam Management System (SEMS) for M-Learning Environments (Abstract)
Mustafa Kailali, Computer Engineering Department, Mevlana University, Konya, Selcuklu, Turkey
Armanan Ozkaya, Computer Engineering Department, Mevlana University, Konya, Selcuklu, Turkey
Halis Altun, Electrical & Electronics Engineering Department, KTO Karatay University, Turkey
Hatem Haddad, Computer Engineering Department, Mevlana University, Konya, Selcuklu, Turkey
Marc Alier, Institute of Education Sciences, Polytechnic University of Catalonia, Barcelona, Spain
pp. 258-271

Early Prediction of Student Profiles Based on Performance and Gaming Preferences
What is sustained innovation anyway?
Plan to collect evidence of impact
Innovation in Engineering Education is…

• It is about…
• It focuses on…
• Its objective is…

Write your multiple answers in the cards
Path to innovation

Innovation in Eng Ed

Your say

Sustainable
Name the innovation
What is sustained innovation anyway?
What is sustained innovation anyway?
What is sustained innovation anyway?
What is sustained innovation anyway?
Unsustained Innovation
What would you do to sustain innovation
Follow a yearly cycle
Sustained Innovation in Engineering Education

- A clear **objective**: to improve the education experience for engineering students
- **Communication** within community of innovators
- **Simplify** innovation processes
- Promote **resilience**
- Promote **recognition**
What is sustained innovation anyway?

INNOVATION

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