

FESTIVAL OF LEARNING AND TEACHING 2023

Transition and Transformation: Thinking, Experiencing and Being in STEMMB

Monday 15 May 2023
Discovery-based Learning

09.30 REGISTRATION

09.30 POSTER SESSION

10:30 WELCOME AND KEYNOTE

Welcome speech by Professor Peter Haynes, Vice-Provost (Education and Student Experience)

LT G34

10.45 KEYNOTE SPEAKER

Professor Oguz Acar, Marketing & Innovation at King's College London discussing 'Discovery-Based Learning and Innovation in Disruptive Times'



How do we better prepare students to thrive in a rapidly evolving landscape? In this keynote, I explore the potential of discovery-based learning (DBL) to navigate the challenges inherent in an increasingly uncertain and complex world by nurturing innovativeness of students.

The presentation discusses the conceptual underpinnings of DBL as well as practical aspects of implementing it, identifying key strategies that educators can employ to effectively facilitate this pedagogical approach. I also examine the intrinsic challenges of DBL, such as balancing guidance with autonomy, accommodating students' diverse needs, and adapting assessment methodologies. Finally, as artificial intelligence (AI) continues to permeate various aspects of contemporary life, educational settings, and workplaces, I explore the intersection of AI and DBL.

11.45 BREAK

12.00 PARALLEL SESSION 1

Workshop by Digital Media Lab

Daniel Mitelpunkt and Thomas White
New capabilities in immersive and interactive learning media

Rm 122

Presentation by Business School

Professor David Shreir
Artificial Intelligence as Teaching
Assistant: Early Findings on Integrating ChatGPT and other LLMs into Discovery-based Entrepreneurship Education

Rm 121

Presentation by School of Public Health

Stephanie Powell
Reflective tools to support real-world, community-engaged learning

Rm 120

12.45 PARALLEL SESSION 2

Presentation by Faculty of Medicine

Dr Aaron M. Lett and Cecilia Dunsterville
Student Research Networks - A model for the enhancement and enrichment of research education

Rm 121

Presentation by Faculty of Medicine

Dr Ana P. Costa-Pereira
Lab Pods – where the magic happens!

Rm 120

13.15 LUNCH

14.15 PARALLEL SESSION 3

IGNITE Session by Jay DesLauriers, Graduate School; Idris Kevin Mohammed, Mechanical Engineering; Linda Stringer, Mechanical Engineering

Rm 120

IGNITE Session by Sian Powell, School of Public Health; Chloe Agg, Mechanical Engineering; Dr Christopher John, Faculty of Medicine

Rm 121

IGNITE Session by Dr Neepa Thacker, Year 5 Primary Care Course Lead and Mr Tom Rozier-Hope, Primary Care Executive Officer; Dr Stefano Sandrone and Dr Iro Ntonia, Cross-Faculties; Dr Nida Sajjad, National Heart & Lung Institute

Rm 122

15.00 PLENARY SESSION AND CLOSING
SPEECHES

Interactive presentation by School of Medicine
Rishika Walls, Adrian Cowell
Life and Death Training in 360 Virtual Reality

Closing speech by Professor Martyn Kingsbury,
Centre for Higher Education Research and Scholarship

LT G34



FESTIVAL OF LEARNING AND TEACHING 2023

Transition and Transformation: Thinking, Experiencing and Being in STEMMB

Tuesday 16 May 2023
Assessment and Feedback

09.30 REGISTRATION

09.30 POSTER SESSION

10:30 WELCOME AND KEYNOTE PANEL

Welcome speech by Dr Camille Kandiko Howson, Centre for Higher Education Research and Scholarship
LT G34

10.45 PANEL OF KEYNOTE SPEAKERS

Dr Christine O'Dea, Huddersfield Business School, University of Huddersfield discussing 'AI text generators and assessments – realizing the potential benefits to students and tutors in higher education contexts'
This presentation focuses on the positive impact and the potential benefits of AI text generators in HE. Themes that will be explored include: authentic assessments in the age of AI and the technology behind ChatGPT.



Dr Peter Kemp, King's College London discussing 'Overview of the assessment and pedagogical system'
This talk will outline recent changes in, and challenges to, school level assessments and teaching, helping you understand the educational background experiences of students entering your courses.



Dr Reuben Shipway, University of Plymouth discussing 'Chatbots and AI – a new frontier in higher education'
The rapid emergence of AI and chatbot technologies has the potential to revolutionise the way we interact with the world. History has demonstrated that disruptive technologies can cause upheaval throughout society, and the higher education sector is no exception.



12.15 PARALLEL SESSION 1

Presentation by Centre for Environmental Policy

Dr Mike Tennant
Curiosity, Differentiated Instruction and Assessment
Rm 122

Presentation by Educational Development Unit and Department of Physics

Professor Martyn Kingsbury, Dr Monika Pazio, Dr Vijay Tymms
Anatomy of Assessment
Rm 121

Presentation by Department of Mechanical Engineering

Dr Peter Johnson
Automated feedback on self-study: a value proposition and some critical questions
Rm 120

13.00 PARALLEL SESSION 2

Presentation by Bioengineering

Dr Maria Parkes, Dr Ian Radcliffe
Design and Professional Practice: A Case Study on Developing Feedback Literacy Throughout the Curriculum
Rm 121

Presentation by Faculty of Natural Sciences

Moira Sarsfield
Multimode assessment feedback
Rm 120

Presentation by Faculty of Engineering

Professor Jason Riley
Breaking Experimental Reports into Bite-Size-Chunks
Rm 122

13.30 LUNCH

14.30 PARALLEL SESSION 3

Presentation by Department of Physics

Dr Isabel Rabey
100% Peer Assessment?!
Rm 120

Presentation by PhD student in Centre for Higher Education Research and Scholarship

Jordon Millward
How do students' historical relationship with academic feedback shape their broader relationship with the assessments?
Rm 121

IGNITE Session by Masoud Seifkar, Physics; Heather Hanna, Faculty of Medicine; Robert Woodward, Leakan Lapido, Persefoni Stylianoudaki, Faculty of Engineering
Rm 122

15.00 PLENARY SESSION AND CLOSING SPEECHES

Student perspectives on technology assessment and feedback

Jason Zheng, Stephanas Lim, Yasmin Baker, Runtian Wu, Rea Tresa, Shi Wei Yuan

Closing speech by Dr Camille Kandiko Howson, Centre for Higher Education Research and Scholarship

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FESTIVAL OF LEARNING AND TEACHING 2023

Transition and Transformation: Thinking, Experiencing and Being in STEMMB

Wednesday 17 May 2023

Student and staff interaction and wellbeing

09.30 REGISTRATION

09.30 POSTER SESSION

10:30 WELCOME AND KEYNOTE

Welcome speech by Professor Martyn Kingsbury, Centre for Higher Education Research and Scholarship

LT G34

10.45 KEYNOTE SPEAKER

Kate Ippolito, Principal Teaching Fellow, Centre for Higher Education Research and Scholarship discussing 'Reciprocal emotional interaction in university classrooms: Who influences feelings of coping and succeeding, and how?'

Building on evidence from neuroscience and psychology, that demonstrates the role of emotion in cognition and academic achievement, this presentation explores how student peers and teaching staff act as socialising agents (Valiente, 2020) to influence others' emotional and learning experiences. Using data collected from students and staff across Imperial over 3 years, we will critically evaluate naturally occurring reciprocal emotional interactions in STEM classrooms. From this, we will consider factors that facilitate and challenge learning, such as relationships with knowledge and social comparison, then identify practical recommendations for more intentionally working with emotion to support meaningful engagement and achievement.



11.45 BREAK

12.00 PARALLEL SESSION 1

Presentation by Department of Physics

Amy Smith

Perpetuating or transforming culture? Examining the role of collaboration in undergraduate Physics

Rm 122

Presentation by Centre for Higher Education Research and Scholarship

Nikki Boyd

Healthy boundaries: Navigating interactions within and beyond the learning environment to support teacher and student wellbeing

Rm 121

Presentation by Cross-Faculties at Imperial College

Greg Robinson, Helen Walkey, Mehdi Moussaoui, Shireen Lock, Moira Sarsfield

Learning analytics as a wellbeing aid

Rm 120

12.45 PARALLEL SESSION 2

Presentation by Centre for Higher Education Research and Scholarship

Dr Julianne K. Viola, Dr Luke McCrone

Exploring halls of residences as wellbeing resources

Rm 121

Presentation by Cross-Faculties at Imperial College

Dr Sue Sing, Dr Tiffany Chiu, Dr Richard Bale, Hannah Bannister

Fostering Educational Diversity and Inclusivity: Enhancing Student Wellbeing through the Learning Well Project

Rm 120

Presentation by Centre for Languages, Culture and Communication and Undergraduate Student

Mark Pope, Milan Paczai

An App(roach) for Facilitating Communication and Educational Boundary Crossing on Sustainable Development

Rm 122

13.15 LUNCH

14.15 PARALLEL SESSION 3

IGNITE Session by Dr Wafa Khamri, Faculty of Medicine; Wendy Kwok, Jenny Husbands, Sondus Hassounah, Anna Szajda, School of Public Health; Dr Naa Okantey, Department of Primary Care and Public Health

Rm 120

IGNITE Session by Catherine Mansfield, Kate Ippolito, Cross-Faculty; Jon Fenton, Physics; Katie Stripe, Faculty of Medicine

Rm 122

15.00 PLENARY SESSION AND CLOSING SPEECHES

Student and staff perspectives on wellbeing at Imperial

Nathalie Podder, Aglaia Freccero, Anthea MacIntosh LacRoque, Hannah Bannister, Anna Goodwin

Closing speech by Professor Peter Haynes, Vice-Provost (Education and Student Experience)

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16.15 SOCIAL NETWORKING

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