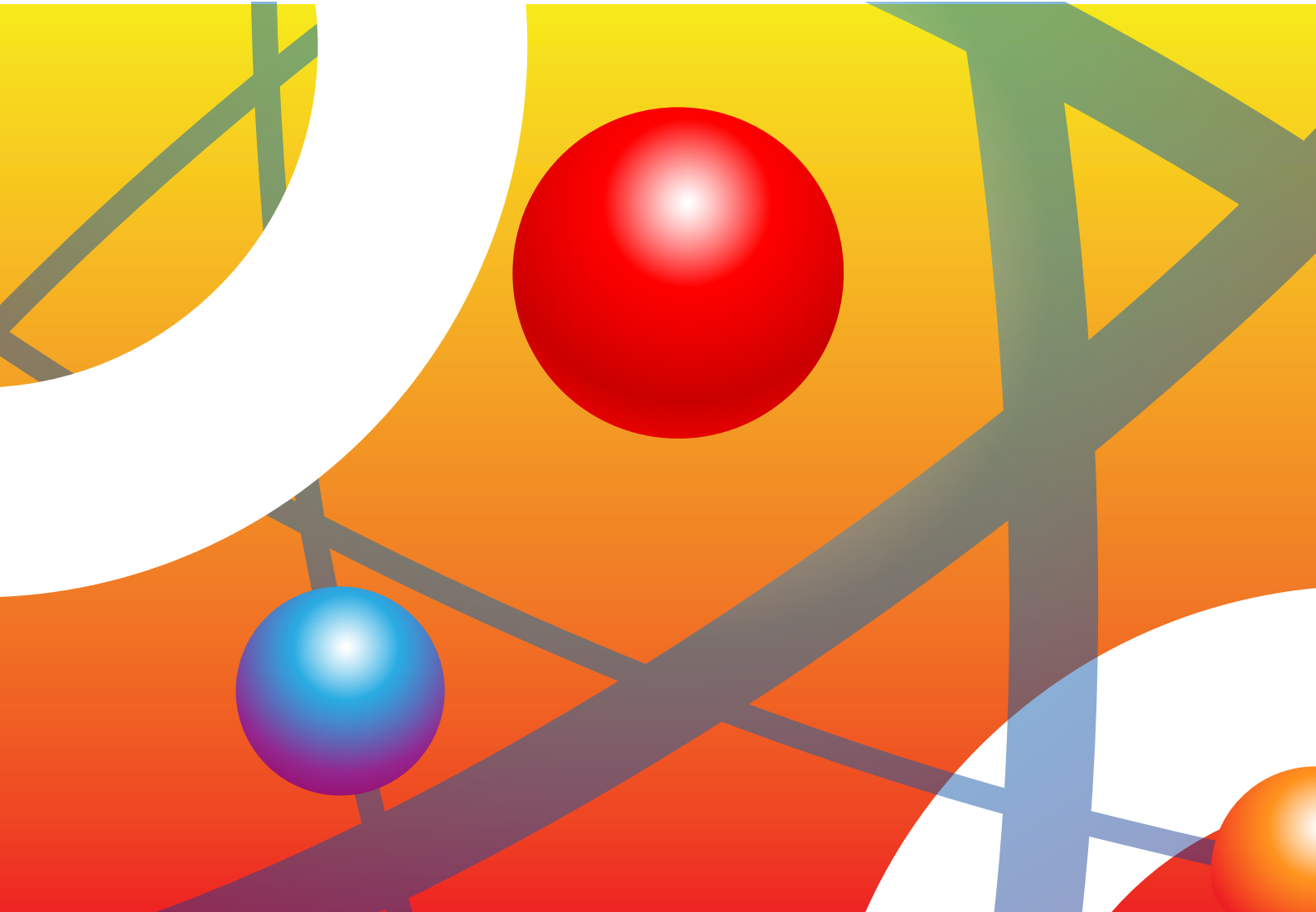


SOLENT
UNIVERSITY



MAKING A DIFFERENCE

RESEARCH, INNOVATION AND ENTERPRISE CONFERENCE
2-3 MAY 2018 | THE SPARK



@SolentResearch | #RIEC2018 | #MakeaDifference

CONFERENCE INFORMATION

Assistance

If you need any help on the day, please go to the conference registration desk and speak to one of the conference organisers or a student ambassador.

Photography

Please note that a photographer will be present to record aspects of the conference for promotional use. If you do not wish your image to be used for these purposes, please tell the photographer.

Wi-Fi

Guest log-in details are available at the registration desk,

Using the programme

Use this online programme for broad understanding of the sessions and events available throughout RIEC 2018. The day planners will help you map out where you want to be, and the research abstracts document has further information for those who wish to find out more.

For the love of trees!

We will provide hard copies of the day planners at the event but in the interest of trees everywhere will not be printing the programme this year!

Download all programme documents at www.solent.ac.uk/rieconference.

Contact us

research.innovation@solent.ac.uk

www.solent.ac.uk/research

@SolentResearch

WELCOME

Solent University's annual Research, Innovation and Enterprise Conference has become a real highlight of the University's events calendar. The conference has grown year on year and celebrates the vitality of research, innovation and enterprise in Higher Education in the UK and around the world. Each year we explore a theme that reflects the challenges and opportunities that universities embrace in driving forward growth and wider societal benefits. This year's theme of 'Making a Difference' goes right to the heart of that.

Whilst showcasing skills and talent of our students, graduates and staff, the Conference offers a fertile environment for developing research, innovation and enterprise, promoting the exploration of new ideas, and establishing and strengthening partnerships. We are pleased to welcome contributors from across the sector, as well as industrial partners and community stakeholders whose involvement each year keeps this event dynamic, responsive and relevant.

I am certain that delegates will welcome the chance to explore new networks, share ideas and celebrate good practice in research, innovation and enterprise.

Professor Graham Baldwin

Vice-Chancellor
Solent University



INTRODUCTION

I am delighted to welcome you to RIEC 2018. The theme of this year's conference is *Making a Difference*, and alongside presentations of academic research the programme includes an exciting range of interactive sessions and workshops designed to create connections, inspire ideas, and share skills.

We are hosting our first RIEC Expo, using the atrium of the Spark to create a space to explore interactive exhibits and showcase the work of Solent students, and our Innovation and Enterprise Zone has been created in partnership with VentureFest South and Solent Futures. We are very excited to be bringing researchers and stakeholders together with the next generation of young entrepreneurs and leaders.

This is an ideal opportunity to foster new links and networks, and to celebrate the significant impact of research-based activity across the Solent region.

Catherine Lee
Director, Research, Innovation and Enterprise
Solent University



OPENING KEYNOTE

MAKING A DIFFERENCE: CHALLENGES, CREATIVITY, AND COLLABORATION

Kevin Baughan | Deputy Chief Executive | Innovate UK

Kevin's keynote opens RIEC 2018 with a wide-angle look at the changing landscape of research and innovation, looking at the challenges and opportunities presented by the UK's Industrial Strategy, the significance of the creative economy, and the growing importance of collaborations across research, innovation and enterprise to solving real world problems.



BIOGRAPHY

Kevin Baughan is the Deputy Executive Chair of Innovate UK. His role is focused on both the development and delivery of Innovate UK's investment portfolio locally, nationally and globally.

Before taking up the position, Kevin was Innovate UK's Director of Technology and Innovation from 2014 to 2016, and Chief Development Officer from 2016 to 2017. Kevin has a track record in leading-edge innovation in the telecommunications industry. This includes leadership roles with BT, Nortel Networks and Virgin Media. Here, he pioneered the transition to superfast broadband, migration to connected TVs and roll out of Wi-Fi across the London Underground ahead of the 2012 Olympics.

Kevin has a BSC from the University of Birmingham in Electronic and Electrical Engineering, an MSC from Aston University in Computer Science and an MBA from Imperial College.

From 1995 to 2008 Kevin was an honorary professor at the University of Birmingham. With university staff he co-founded a start-up that developed highly resilient network technologies, with investment funding from the US Air Force research labs.

[Read this biography on the Government website](#)

[Find out more about Innovate UK](#)

PROGRAMME HIGHLIGHTS

Wednesday 2 May

Explore the changing research landscape

Interactive workshops and panel sessions with industry and policy experts will explore the changing research landscape, funding applications, KTPs and more. Sessions will be hosted by Innovate UK, GuildHE and the Solent RIE team.

Solutions for our problems with plastic

The [Dow Project](#) showcase and our screening of [A Plastic Ocean](#) raise questions for an expert panel discussion on plastic sustainability.

Joining the dots from business model to execution

A chance for start-ups and scale-ups to take part in the successful VentureFest South workshop, delivered by experts in process design, commercial modelling, and system integration.

Working with universities: how businesses can engage with research and innovation

This evening event (5pm - 7.30pm) provides an opportunity for local business owners, entrepreneurs and researchers to make connections, and explore the potential of university-based research and innovation to solve current problems and build growth.

Thursday 3 May

#RIEC2018 expo

An interactive space to engage with live research demos from academics and students, explore public engagement opportunities in Southampton, and meet our resident research support experts.

Student competitions

Students engaged in research will take part in competitions, including poster presentations, Two Minute Dissertation and Three Minute Thesis. Winners to be announced during the closing speeches.

Solent Futures Enterprise Celebration

A celebration of student enterprise during the last year, the awards will feature short pitches from nominees who reach the final round of judging. Join us to be inspired by the achievements of Solent's students and graduates, and find out about the benefits student enterprise can bring across the disciplines.

TIMELINE

WEDNESDAY 2 MAY

- | | |
|---------------|---|
| 9am - 10am | Registration and breakfast
The Atrium
Drop by the registration table to collect your badge and a dayplanner, before heading over to Whitebeam for a spot of light breakfast before the opening keynote. This is a great chance to meet other delegates and plan out your day. |
| 10am - 11am | Opening keynote
Palmerston Lecture Theatre
Kevin Baughan, Deputy Chief Executive, Innovate UK |
| 11:15am - 5pm | Breakout!
This year's programme includes an exciting mix of presentations, workshops, demos and discussions. This programme contains full session listings as well top picks for different content threads, and the day planner will help you map out when and where to be. |
| 12pm - 2:30pm | RIEC 2018 Expo and lunch
The Atrium
An interactive space to engage with live demonstrations from academics and students, explore public engagement opportunities in Southampton, and meet our resident research support experts. A lunch buffet will be available for registered delegates in Whitebeam throughout the Expo. |
| 5pm - 6pm | Networking and refreshments
Lower Atrium
Whether you are heading home or joining our evening event, take the chance to catch up with colleagues and new contacts over a cup of tea or coffee. |
| 6pm - 7pm | Working with universities: how businesses can engage with research and innovation
Palmerston Lecture Theatre
A great opportunity for delegates to join local business owners and entrepreneurs to explore the potential of university-based research and innovation to solve current problems and build growth. |

THURSDAY 3 MAY

- 9:30am - 10:30am** **Registration and breakfast**
The Atrium
Drop by the registration table to collect your badge and a dayplanner, before heading over to Whitebeam for a spot of light breakfast before the opening keynote. This is a great chance to meet other delegates and plan out your day.
- 10:30am - 2:30pm** **RIEC Expo**
The Atrium
An interactive space to engage with live demonstrations from academics and students, explore public engagement opportunities in Southampton, and meet our resident research support experts. A lunch buffet will be available for registered delegates in Whitebeam throughout the Expo.
- 10:30am - 4:45pm** **Breakout!**
This year's programme includes an exciting mix of presentations, workshops, demos and discussions. This programme contains full session listings as well top picks for different content threads, and the day planner will help you map out when and where to be.
- 4:45pm - 5pm** **Closing remarks + prize giving**
Palmerston Lecture Theatre
An interactive space to engage with live demonstrations from academics and students, explore public engagement opportunities in Southampton, and meet our resident research support experts. A lunch buffet will be available for registered delegates in Whitebeam throughout the Expo.
- 5pm - 7pm** **Evening reception**
The Atrium + Whitebeam
Close out the day by joining us to toast our presenters and all the hard work showcased at RIEC 2018.

RIEC EXPO 2018

WEDNESDAY 2 MAY

The Atrium | 12pm - 2:30pm

Dow Project Showcase

Talk to students from our courses in make-up and hair design, musical theatre, and fashion photography, as they demonstrate their technical skills live in the Atrium for this retrospective showcase of the successful Dow Project.

The Dow Project is a successful collaboration between Solent University and [Dow](#), one of the world leaders in the packaging and plastics industry, which began in 2016 with a live catwalk event at [K2016](#), a global exhibition for the plastics industry.

The project aims to demonstrate how rethinking and reusing waste plastics can be used to create beauty as well as improve sustainability.



Poster presentations | 12:30pm - 1:30pm

The RIEC poster exhibition will be on display in the Atrium for the duration of the conference. Join poster authors for informal discussion of their research in this hour long session. The student poster competition will be judged in this session on Wed 2 May, with a prize for the best poster awarded during the closing remarks (4:45pm, Thu 3 May).

Hikar! Augmented reality for walkers | 1:30pm - 2:30pm

Meet at the Hikar table by reception for a live session in the park

Augmented reality is very much a technology of the moment, as is seen through the popularity of Pokemon Go. In augmented reality, computer-generated geographic information is overlaid on the camera feed of the phone. I am currently researching the use of augmented reality in countryside navigation and developing an Android app - Hikar - which overlays footpaths from the OpenStreetMap project on the phone's camera feed, helping walkers navigate through the countryside. This live session will illustrate the project via a walk in the park - tablets will be available to allow some participants to navigate on a real device!

Academic career pathways

Drop by the Personnel and Development information stand in the lower atrium to find out more about academic career pathways at Solent University. P&D colleagues will be at the stall between 12pm and 2:30pm.

Buffet lunch will be available in Whitebeam between 12pm and 2:30pm

THURSDAY 3 MAY

The Atrium | 10:30am - 2:30pm

Visit interactive exhibits and information stands in the Atrium and Lower Atrium throughout the day. Learn how CRUK are beating cancer during a unique escape room experience. Talk to poster authors during the poster presentation session - and don't forget your lunch!

Exhibitors

Cancer Research UK

Visit CRUK behind reception to find out about their research and have a go on "Killer T Cells" - a 1980s style arcade game which aims to teach people about the role of cytotoxic T cells in the immune system and in recognising and destroying cancer cells. You can also join an Escape the Lab team here.

SotComm+

Find out about public engagement opportunities and events in Southampton and the surrounding region. SotComm+ is a free informal get together for anyone and everyone with an interest in public engagement with research and communication across all subject areas and backgrounds (STEM, AHSS, STEAM & more). Join them on Facebook at [SotComm+ Social](#).

SOCO Southampton

Join post-graduate researchers from the University of Southampton to explore a how micro-plastics move from their land sources, such as our homes and sewage treatment, into our coasts via rivers.

Solent Showcase

Find out more about the upcoming Streetjam exhibition and event. The gallery strives to encourage engagement, discussion and participation across the entire local community.

Mountbatten Library

Find out about the comprehensive research support available from our library staff.

Post-graduate study information stand

The student recruitment team will be on hand with information about taking your academic career forward with a masters or PhD.

Academic career pathways

Drop by the Personnel and Development information stand in the lower atrium to find out more about academic career pathways at Solent University. P&D colleagues will be at the stall between 12pm and 2:30pm.

Escape the Lab! | 10:30am - 2:30pm

You and your team are stuck in the Cancer Research UK laboratory! Use the lab equipment, research techniques and CRUK literature to solve the clues and unlock the lab - but beware the time limit! This fun, interactive, team activity allows you to explore the research being funded by Cancer Research UK and is used to engage our supporters with the amazing science being carried out by our researchers. Sign up for your session at the CRUK stand (next to reception).

Poster presentations | 12:30pm - 1:30pm

The RIEC poster exhibition will be on display in the Atrium for the duration of the conference. Join poster authors for informal discussion of their research in this hour long session. The student poster competition will be judged in this session on Wed 2 May, with a prize for the best poster awarded during the closing remarks (4:45pm, Thu 3 May).

Buffet lunch will be available in Whitebeam between 12pm and 2:30pm

SESSION LISTINGS

WEDNESDAY 2 MAY

INNOVATION + ENTERPRISE ZONE

IE1 | Avoiding a KEFuffle?

Matthew Guest | GuildHE
matthew.guest@guildhe.ac.uk

Matthew will lead a session reflecting on what the new Knowledge Exchange Framework (KEF) could mean for universities, businesses and society. He'll offer some perspectives on opportunities that KEF could mean for smaller and specialist universities. Participants will also gain a couple of practical tools to help them think through how they might develop their own knowledge exchange practice.

IE2 | Create, Make, and Retail

Mark Jones | Solent University
mark.jones@solent.ac.uk

An opportunity for students and staff in the University to meet, network and get support in developing creative ideas into commercially viable products, suitable for promoting and selling within our very own retail shop - Retail Solent (RE:SO).

IE3 | Driving Growth: the benefits of research engagement with industry and the increased funding opportunities for KTPs

Stephen Woodhouse | Innovate UK
stephen.woodhouse@ktn-uk.org

Join the discussion for an introduction to Innovate UK, and the opportunities for knowledge transfer partnerships in particular. KTPs are designed to drive business growth and deliver impact on the innovation strategy. Understand how your research interests can provide contemporary value to meet business challenges, how this might usefully inform the direction of current and future projects, and how your Knowledge Transfer Adviser can connect you with relevant company partners and access grant funding. We will also touch on the potential for real world learning and student employability. Industry professionals will learn how industry/academic partnership enables access cutting edge research, to solve business problems and drive growth.

IE4 | Joining the dots from Business Model to Execution

Richard May | Venturefest South
r.may@oxin.co.uk

Facilitators:

Chris Green, chris.green@getskore.com
Craig Willis, craig.willis@getskore.com
Stephen Dann, stephen.dann@dsl.pipex.com
Justin Biddle, jb_biddle@hotmail.com



Created in collaboration with VentureFest South, this 3.5 hour workshop will change the way you think about your business. You will actively design and review your organisation, systems, and key value proposition. Whether you have a business idea, a start-up or a mature business, you will benefit from the space and tools to take your business to the next level. Take part and discover how your business can be a sustainable winner.

IE5 | How Solent Futures can help your students: enterprise and business start-up

Hannah Bannatyne | Solent University
hannah.bannatyne@solent.ac.uk

Enterprise is currently a big focus across the whole university with more students starting a business or going freelance than ever. Southampton Solent University is currently ranked 9th for graduate business start-ups, with the university supporting 110 graduates (HE-BCI, 2016). Solent Futures has a comprehensive business start-up programme, which involves us supporting students and graduates throughout the whole process of setting up a business or going freelance. Come along to find out how Solent Futures can support your students, through a number of different methods such as: one-to-ones, funding and training days.

IE6 | Working with Universities: how businesses can engage with research and innovation

Robert Wayman | Solent University
Robert.wayman@solent.ac.uk

Universities play a central role in building future economic value. Not only are they trainers of the next generation of talent, but also developers of knowledge which can be translated into business applications in the form of innovative processes, products and services. Come along and find out how your business, no matter how big or small, can benefit from working with universities through access to specialised knowledge, talent, funding, facilities and equipment.

RESEARCH ZONE

R1 | Innovation at sea... and on shore

Session Chair: Nadeem Anwar, Solent University

SOLACE

Mr Chris Patterson | Solent University
chris.patterson@solent.ac.uk

Project SOLACE (Solent Autonomous Circumnavigation of the Earth) is progressing and aims to attempt the first circumnavigation of the globe by an autonomous vehicle starting 2019. The craft under development is 2.4 metres long and is a high performance sailing vessel. The project is a cross-university venture and the project team comprises members from various schools and services lead by WSMSE.

A software framework for automating the NERC long-range marine autonomous fleet

Dr Catherine Harris | National Oceanography Centre
cathh@noc.ac.uk

As part of the Oceanids £10M Natural Environment Research Council (NERC) investment into Marine Autonomous Systems, we are developing an innovative web-based software framework to safely automate low-risk piloting tasks, such as calibration and transit behaviours, for the NERC fleet of long-range robotic vehicles. Focusing on the ongoing development of a proof-of-concept demonstration to autonomously pilot gliders in the North Sea given ocean current forecast data (work that will be evaluated at sea in November 2018), we will discuss the challenges of developing a robust framework for increased autonomy, including the need for the system to work alongside human pilots and meet all operational constraints of the deployment.

The Role of Bridge Simulator Training in Seafarers' Competency: A Comparative Study Between China and UK

Professor Shenhua Yang | Solent University
Co-presenters: Professor Minghua Zhao, Solent University
yangshh@163.com

This Project introduces the definition and development of Bridge Simulator, and summarizes the literatures on the impact of Bridge Simulator on crew training at home and abroad, and identifies the gap in the existing knowledge in this respect. On the basis of first-hand data from the interview and questionnaire, utilizing the SPSS software to analyze the data, and evaluate the use effect of Bridge Simulator and then get the problems.

Real World Learning - Designing a Superyacht using Student Input

Mr Giles Barkley | Solent University
Co-presenters: Mr Andrew Whittaker, Solent University
giles.barkley@solent.ac.uk

Staff and students from the yacht Engineering program were challenged by Hawk Yachts (Antibes) to develop a design for a 46 metre 'Go Anywhere' Explorer Superyacht for 12 guests and 10 crew. Summarising, this presentation will outline the project as a whole, paying particular attention to both the student experience, the staff experience in running the project and showing how this will feed into the Masters Degree in Superyacht Design. It is hoped that students from the design team will also contribute to the presentation.

R2 | To vibrate or not to vibrate: affordances of vibrotactile feedback

Dr Tychonas Michailidis | Solent University
tychonas.michailidis@solent.ac.uk

Through handheld devices and other technologies, vibrotactile feedback has become essential on how we interact. Usually, vibrating feedback is used to provide confirmation of action within a system in order to 'fix' any limitations imposed through the hardware. Is there a wider understanding about the way we experience vibrations? Can we understand directions through vibrations alone or do we need to include other sensory feedback such as aural and visual? This interactive session aims to describe concepts regarding haptic guidance. Participants will take part in a short experiment to test if vibrotactile feedback has any subjective meaning to them.

R3 | What is Cultural Research at Solent?

Dr Toby Bennett | Solent University
toby.bennett@solent.ac.uk

This discursive workshop invites individuals from both inside and outside the university, with a stake in "cultural research" (broadly defined), to forge its future at Solent. We will reflect on the 2017/2018 Cultural Research Seminars, as well as other related activities, to discuss where we are going next: to continue developing a vibrant, intellectually stimulating and interdisciplinary research environment, connecting internal expertise to contemporary debates, grounded in the urgency of local needs. Ideas for intellectual topics, workshops, film screenings, reading groups, network-building, or more pragmatic matters that would shape future activities, will be very welcome. You do not need to have previously attended the seminar series to participate.

R4 | Myo Mapper: a Myo armband to OSC mapper

Mr Balandino Di Donato | Goldsmiths, University of London
info@balandinodidonato.com

Myo Mapper is a free and open source cross-platform application to map data from the gestural device Myo armband into Open Sound Control (OSC) messages. It represents a 'quick and easy' solution for exploring the Myo's potential for realising new interface for musical expression, and for facilitating applications where hand gesture recognition through machine learning is required. This paper also reports applications in which Myo Mapper has been successfully used, a qualitative evaluation, and a series of guidelines for using Myo data in interactive artworks. Findings show that Myo Mapper empowers artists and non-skilled developers to easily take advantage of Myo data high-level features for realising interactive artworks.

R5 | Exploring Mental Health of Level 4 Students

Dr Mark Doyle | Solent University
mark.doyle@solent.ac.uk

Student mental health is an increasingly important concern for staff, students and those involved in managing distress. Evidence suggests that individuals who have experienced considerable adverse life experiences such as childhood trauma will be much more vulnerable to poor mental health. Moreover, they are likely to have lower levels of resilience compared to those who have not experienced childhood trauma. Evidence also suggests that those individuals who experience childhood trauma are more likely to experience adult trauma. This research will explore the relationship between resilience, trauma, loneliness and mental health of level 4 students. The study will be aiming to follow these students throughout their degree to track their mental health and trauma experiences using a longitudinal methodology.

R6 | Making Out 67 17 : Developing an LGBTQ+ exhibition in the context of national commemoration

Mr Steve Lannin | Solent University
steve.lannin@solent.ac.uk

A discursive session exploring the development of last year's successful Making Out 67 17 exhibition in the Showcase Gallery, which addressed the importance of the relationship between LGBTQ+ people and design. What does it take to achieve funding and support? How do you balance ambition and success? Why should you plan to establish a legacy? Find out how the exhibition and related activity have enabled a new cultural foundation for Solent University.

R7 | Fashion as Community Week

Miss Rachael Taylor | Solent University
rachael.taylor@solent.ac.uk

This interactive session will outline outcomes of Fashion as Community Week, an event which covered the themes of sustainability, well-being and social good; to demonstrate how fashion could use its tools of design and communication to engage the community. This brought together staff/students from different fashion courses at Solent University, local community and fashion industry. This session will discuss and show examples of how using action as research can encourage opportunities to share perspectives. On display will be examples of how this resulted in work-based learning opportunities, bespoke activities, unique collaborations and outcomes that crossed over to use different methods, widening conversation and practice. A Q&A will provide tips within how to co-create, use cross-disciplinary and participatory events around selected themes to inspire change and engage a community together.

R8 | Choosing appropriate research methods: demystifying the created confusions

Dr Alex Opoku | University College London
alex.opoku@ucl.ac.uk

The process of identifying a sound research methodology and suitable method of data collection technique can be challenging for most researchers. The workshop will explore the understanding of research philosophies, research approaches and choice of research methods. Using appropriate case studies, the session will discuss the available research methodologies and illustrate the process of choosing the most suitable research method.

This interactive session will examine factors affecting the choice of appropriate research methodology and method. It will be relevant to doctoral students at various stages of their PhD journey.

R9 | Design for life

Session Chair: Dr Toby Bennett, Solent University

Transparent Boundaries

Professor Lesley Millar | University for the Creative Arts
lmillar@uca.ac.uk

Where are the older people and why doesn't society recognise their presence more in popular culture? The demographic in developed countries is one of an increasing, and increasingly, aging population. Societal attitudes to the elder differ from culture to culture, but in many countries there is an almost total non-representation in the media, except when problems occur. This Paper will describe the project Transparent Boundaries in which five organisations from the UK, Denmark, Greece Italy, Poland collaborated in a project using a unique combination of craft, design and performing arts to create a place and space for dialogue and a new kind of visibility of the Elder.

Bruce Robertson and Diagram: innovations in information design

Dr Sue Perks | University for the Creative Arts Epsom
sperks@ucreative.ac.uk

This presentation will explore the design methodology behind the diagrammatic work of the book design and packaging company Diagram Visual Information Ltd. and its co-founder and managing director of over fifty years Bruce Robertson (1933-2014). Robertson forged Diagram into one of the most prolific creators of visual information books in the later twentieth century. Diagram consisted of a cooperative group of designers, writers, artists and editors who in 50 years produced over 75,000 pages for more than 500 book titles in the pre-digital age. To date, Diagram books have sold over 9 million copies in 207 countries and are printed in 55 languages.

The Internet of Clothes

Mr Mark Brill | University for the Creative Arts
mbrill@ucreative.ac.uk

The project is an Internet of Things concept that seeks to address the problem of over-consumption of clothing. It is a connected wardrobe in which items of clothing will message the user each day asking to be worn. The selection will be made by contextual factors including the season, predicted weather that day, frequency of wear and when the garment was last worn. If items are ignored they will automatically offer themselves to charity or other wardrobe users for re-use. It considers the question of how a connected wardrobe change the consumer relationship with fashion?

R10 | Voices from within: how research graduate interns challenge and change perspectives

Professor Tansy Jessop | Solent University
Co-presenters: Claire Saunders and Christel Pontin, Solent University
tansy.jessop@solent.ac.uk

This session explores the influence of ten graduate interns on the practice and thinking of a small team of academic developers. Alongside closeness to the student experience the interns brought, there was a chasm they stepped into as outsiders to academic development. We collected critical incident reflections through the six month internship from both the interns and the academic developers. These are used here to explore several themes, including reflective practice, student perspectives on learning and teaching, and the transition from 'student' to 'professional'. In this interactive session, participants will explore assumptions about our graduates and their attributes, in relation to theories about professionalism and employability.

R11.1 | A Plastic Ocean

Professor Anthony Gallagher | Solent University
anthony.gallagher@solent.ac.uk

The problem of plastic pollution is growing exponentially every year; we are producing more than 300 million tons of plastic, half of this is designed for single use, and each year around 8 million tons of it ends up in our oceans. Join Professor Anthony Gallagher and for a special screening of the award winning documentary 'A Plastic Ocean', followed by a participative workshop focused on creating solutions for plastic sustainability (R11.2).

The documentary was produced by the Plastic Oceans Foundation, a global charitable organisation that aims to change the worlds' attitude to plastic in a single generation.

R11.2 | Plastics: the Waste Age

Professor Anthony Gallagher | Solent University
anthony.gallagher@solent.ac.uk

This participative workshop will focus on possible solutions to our problems with plastic, with the intent to develop ideas for research.

R12 | Departing from Southampton? What about staying awhile?

Dr Pavlos Arvanitis | Solent University
pavlos.arvanitis@solent.ac.uk

Southampton is the busiest cruise home port in northern Europe handling over 1.7m cruise passengers per year. There is little evidence on whether passengers stay in or around Southampton before or after their cruise. The aim of this paper is to present preliminary findings of an empirical study carried out on cruise passengers departing from Southampton. A random sample participated in a short face to face survey.

R13 | Exploring and developing heritage provision in Southampton

Dr Bailey Ashton Adie | Solent University
Co-presenter: Dr Alex Reynolds, Solent University
bailey.adie@solent.ac.uk

This discussion session aims to explore current heritage projects in Southampton and consider possible creative and innovative development opportunities for future practice. Multi-disciplinary approaches are invited and encouraged to strengthen and enhance the discussion. It doesn't matter if you're an artist, an engineer, a social worker or a researcher of tourism. From creative digital applications to community development projects, all ideas are welcome!

THURSDAY 3 MAY

INNOVATION + ENTERPRISE ZONE

IE7 | The Innovation Network: Working with SMEs

Professor Anthony Gallagher | Solent University
anthony.gallagher@solent.ac.uk

The Innovation Network (IN) is an ERDF (European Regional Development Fund) funded project aimed at enhancing opportunities for SMEs within the region to work with local partner Universities (Solent; Southampton and Portsmouth) so as to support economic growth and innovation. The project operates through a system of mini and maxi grants, for which SMEs can apply, with this presentation outlining the nature of the project, its operation; and an outline of the various ways in which the University can engage with SMEs and our partner Universities.

IE8 | Solent Futures Enterprise Celebration

Solent Futures | Solent University
solent.futures@solent.ac.uk

Join us for the inaugural Solent Futures enterprise awards ceremony! We will be showcasing the entrepreneurial excellence of our students and graduates in a series of two-minute pitches, with awards for business start-up and freelance excellence. As well as this, we will be giving three additional awards for: **'best pitch'**, **'high tech'** and **'first to make a million'**. Pitches will be judged by an expert panel, with prizes awarded during the event.



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RESEARCH ZONE

2MD + 3MT[®]

Solent students present dissertation and thesis research in this annual competition. Short oral presentations are supported by a single slide, with the aim of succinctly explaining research projects in a way that is interesting and understandable to a wider audience.

The competition is judged by a panel of academics and research support professionals. Winners will be announced in the closing remarks on Thu 3 May.

TWO MINUTE DISSERTATION

Expelled Skateboarding FMP

Jack Davies | Solent University

Co-presenter: Nathan Tetley

jack@noface.co.uk

Expelled Skateboarding looks to expand the way in which website users interact with websites and mobile applications by fusing the two together with the use of the most modern methods in delivering website content.

Sailing Towards Sustainable Trading with Wooden Cargo Vessels

Ville Lindén | Solent University

2lindv20@solent.ac.uk

This research aims to illustrate how modern naval architecture and marine engineering practice can be used for the design and construction of historically inspired vessels, and the possible impacts of reviving working sailing craft.

The Social Significance of Female Attractiveness In Terms Of Evolution And Natural Selection

Josephine Phillips | Solent University

jnmphillips@gmail.com

Exploring the correlation between successful primal mating strategies, and the relevance to the modern day perception of beauty.

Developing software to improve self-management for diabetics

Mr Jason Sebastiao | Solent University

2sebaj04@solent.ac.uk

In an era where technology is consistently rising to new heights, this project review explores how technology can improve self-management for diabetes patients.

THREE MINUTE THESIS

New times, new crimes how seafarers are affected by criminalisation.

Thérèse Canning | Solent University

therese.canning@solent.ac.uk

The purpose of this presentation is to explore the features of the seafarers' experience which make them more vulnerable to criminalisation within the context of an increasingly globalised workforce.

An evaluation of the role of small and medium sized enterprises that are involved in export on the Malawian economy: structure conduct performance

Ms Catherine Matupa | Solent University

catherine.matupa@solent.ac.uk

The purpose of this research is to assess the role of Small and Medium size enterprises (SMEs) that are involved in export and their impact on the Malawian economy.

Avengers Assemble: How stable teams can combat accidents in the shipping industry

Mr Richard Neale | Solent University

richard.neale@solent.ac.uk

This PhD directly links to the Effective Crew Project currently underway at SSU sponsored by Lloyds Register and the TK Foundation. It will look into safety considerations and legislative aspects through literature review to ascertain any correlation between accidents and crewing strategies currently employed within the shipping industry.

R14 | Health + Wellbeing

Session Chair: Dr James Steele, Solent University

ILAS for Depression Management Framework

Dr Olufemi Isiaq | Solent University

femi.isiaq@solent.ac.uk

The implementation of health management systems for life-threatening and health challenging issue such as depression can be proven difficult with a multitude of challenges in abundance. Creating a research-based standard for the implementation of such systems following scientifically proven approaches could certainly reduce the burden associated with the development of such systems. This work introduces a novel Iterative Literature Analysis for Stakeholders methodology (ILAS) for the creation of Framework for Lifestyle and Depression Management, FLaDM. A depression management system based on FLaDM was created and evaluated and all indication reflected the suitability of FLaDM framework and by extension ILAS methodology for the development of depression management system.

Does a 'Cook and Eat' intervention improve the frequency and nutritional quality of family mealtimes?

Mrs Lucy Glen | Solent University

Co-presenter: Dr. Ali Hill, Solent University

lucy.glen@solent.ac.uk

Societal and economic changes in the structure of the family household have led to an increased incidence of families with both parents working full time. The associated negative impact on family mealtimes as a result has been linked to poor nutrition and related health behaviours. With consideration of the fact that the workplace has been identified as an effective setting for health interventions, this study will discuss the impact of providing 'Cook and Eat' sessions to working parents at Southampton Solent University on healthy eating behaviours and frequency of family mealtimes.

R15 | Research and innovation mentoring scheme: capacity building at Solent

Professor Anthony Gallagher | Solent University

anthony.gallagher@solent.ac.uk

A workshop to introduce and outline a mentoring scheme for those engaged in research (and innovation) at Solent. The scheme applies to researchers at all levels, from postgraduate researchers to early career to more seasoned and experienced research active staff, with this workshop offering the opportunity to sign up to the new scheme.

R16 | Human factors in the workplace

Session chair: Dr Sara Braganca, Solent University

The professional identity of seafarers: The balance of substantive and situational selves and the interplay with imposter syndrome

Dr Mark Bee | Solent University

Co-presenter: Dr Carina Buckley, Solent University

mark.bee@solent.ac.uk

The concept of professional identity, while complex, provides a framework for professionals to construct their own ideas of how to be, how to act, and how to understand their work and place in society, through the interplay of their substantive and situational selves. This research explores how seafarers express and negotiate their professional identity within both a professional community and a hierarchical organisational culture. Although much work has been done on the role of communities of practice and professional identity in education and medicine, little has been applied to the maritime industry.

Utilising Human Resource Management to meet the threat of cybercrime.

Dr Esther Snell | Solent University

Co-presenter: Dr Paul Joseph-Richard

esther.snell@solent.ac.uk

Data compromise is one of the foremost threats facing organisations today. The number, and sophistication, of breaches is growing as technologies such as cloud services, disruptive technologies, and mobile working, render firms increasingly vulnerable to sabotage, extortion and espionage. This paper explores the crucial role of Human Resource Management in helping to protect and secure organisations from both external and insider threats. Grounded in a quantitative study of firms based in southern England, it is argued that HRM must take a central role in enhancing the security, longevity and success of their organisations. This paper proposes some suggestions on how to achieve this goal.

A social sustainability benchmarking model for shipping

Mr Roy Brammall | Solent University

roy.brammall@solent.ac.uk

This action research project aims to provide maritime managers with a self-appraisal tool with which to evaluate and monitor their progress towards the UNO Rio 2030 Sustainable Development Goals for social sustainability. In the maritime sector the focus of social sustainability is on the human element in safety, crew and family welfare, and recruitment and retention of seafarers. Social sustainability is of vital importance in shipping, as it affects safety at sea, but is an area which has not been researched explicitly. The research aims to make an impact by providing a diagnostic tool for maritime social sustainability management.

R17 | Building the future: energy, infrastructure and resilience

Session chair: Sarah Radif, Solent University

Port Energy and Carbon Savings (PECS)

Professor Anthony Gallagher | Solent University

anthony.gallagher@solent.ac.uk

PECS is an EU Interreg funded project aimed at implementing low carbon and renewable energy solutions into small and medium sized ports and port operating companies within the 2 Seas region. This presentation will outline the development of the project, the nature of the port pilot studies and the University's role in evaluating and disseminating each of the different low carbon innovations. <http://www.pecs2seas.eu/>

The Impact of Lean Construction Method on Construction Process Improvement: Evidence from the UK Construction Industry

Dr Emmanuel Daniel | Solent University
Co-presenter: Professor Christine Pasquire
emmanuel.daniel@solent.ac.uk

Globally, the construction industry plays a significant role in economic development of any nation. However, its efficiency is low. In recent time lean construction methods such as the Last Planner System (LPS) has been identified as having enormous potentials to support construction process improvement in the sector. But, there is little or no documented evidence to support this assertion in the UK construction industry. This study explores the impact of the LPS on construction projects in the UK. By attending this session you will be able to identify some of the impacts of lean construction methodology on construction process improvement in the UK construction industry.

Building foundation: A source of energy for space heating and cooling

Dr Rao Martand Singh | University of Surrey
r.singh@surrey.ac.uk

Last decade was the hottest since the temperature records began in 1850, according to the World Meteorological Organization. Climate change has accelerated in the last decade and there are no sign of abating. In such a critical period there has been a tremendous pressure on scientists and engineers to design and develop energy efficient sustainable technologies to reduce greenhouse gas emission. Geotechnical engineers recently started to explore the possibilities of using ground energy, via the use of deep foundations, for space heating and cooling of buildings and other built structures. This paper reports a large scale field study of a geothermal energy pile subjected to thermal and mechanical loading. It was found that pile foundation can provide heat energy to building without affecting its mechanical performance.

Flood risk reduction advising for vulnerable repeatedly flooded businesses

Dr Namrata Mis | University of West of England
Namrata.Bhattacharya-Mis@uwe.ac.uk

Businesses are increasingly vulnerable to direct and indirect impacts of repeat flooding events. Recent research has highlighted the impact of flood risk on commercial property insurability, maintenance and recovery, property utility and, ultimately, property value. This research explored the potential for built environment professionals to play a greater role in advising on at-risk commercial properties to better manage risk within the commercial property sector in an international context. It provides an account of the learning outcome from five countries namely Australia, China, Germany, UK and USA reflecting on the insight gained from interviewing 72 built environment professionals in the field of flood risk management advising affected clients from the commercial property sector.

The development of a Resilience and Vulnerability-based Decision Support System (RV-DSS) considering Infrastructure interdependencies. A Case Study of North Argyll, Scotland

Dr Carlos Jimenez-Bescos | Anglia Ruskin University
Co presenters: Dr Donya Hajializadeh, Dr Maryam Imani and Dr Lakshmi Rajendran,
Anglia Ruskin University
Carlos.JimenezBescos@anglia.ac.uk

This project focus in providing a dynamic Resilience-Vulnerability Decision Support System, based on interdependencies of Water, Transport and Energy networks. Unlike the available Decision Support Systems, the RV-DSS tool provides a measure of network resilience in response to environmental hazards, in addition to vulnerability measure. The main benefit of the RV-DSS approach is to provide asset owners and managers with resilience-vulnerability-informed (RV-informed) investment choices. By generating a quantitative measure of network vulnerability and resilience, considering infrastructure interdependencies, the most severe failure scenarios and spatial impacts can be identified, which improves and helps in prioritising future business planning strategies.

R18 | Unexpected Stories

Miss Juanrie Strydom | Solent University
Co-presenter: Amber Lamonby-Pennie, Solent University
juanriestrydom@gmail.com

Unexpected Stories is a proposed portrait inspired exhibition, which focuses on narrating the unexpected life stories of individuals. The project is part of my professional practice development as a Postgraduate student on MA Critical Creative Practice. My idea was initially inspired by participating in a storytelling event with *Touch Network*, where I was moved by other participants' stories and how unexpected moments affected their lives.

After an introduction by my co-presenter and course leader Amber Lamonby-Pennie, I will use twenty minutes to discuss the initial concept for the project, the developmental process used and the creation of the interdisciplinary content. We will invite participatory Q&A throughout the session.

R19 | Wellbeing at sea

Session Chair: Jonathan Ridley, Solent University

An exploration of wellbeing at sea
Mrs Anne Longmuir | Solent University
anne.longmuir@solent.ac.uk

Modern seafaring has changed within a generation. Technological advances, global recruitment, commercial and security pressures have led to fewer crew and rapid port turnarounds that provide less opportunity for seafarers to spend time at port within the voyage. In a unique and intrinsically dangerous living and working environment seafarers continue to work shift long hours in a societally atypical working pattern. As the provisions of the Maritime Labour Convention become operative, this research discusses the effects of the modern seafaring environment on seafarer wellbeing and the effectiveness of legislative provision in safeguarding their position.

Ship Visitor App
Ms Sandra Welch | Sailor's Society
SWelch@sailors-society.org

The role of digital connectivity and its capacity for creating a culture of connectivity is an area that has sparked a great deal of interest and debate over recent years. Many are familiar with the claim that despite increased connectivity, society is now more isolated than ever before, and some assume this to be true for all contexts. This session seeks to counter the argument that digital connectivity cannot provide meaningful relationships, and sets out to present a positive model of digital connectivity as a tremendous force for social good within the context of seafarer welfare. The study explores the Ship Visitor app as an innovative solution to connecting a largely invisible workforce with an intelligent and well thought through support system.

Welfare Support for Seafarers in Chinese Ports: Restructuring, Impact and Prospect
Professor Minghua Zhao | Solent University
minghua.zhao@solent.ac.uk

Port-based welfare services (PBWS) for seafarers are vital to seafarers' health and wellbeing with important implications for the safety of life and property at sea. There are now over 400 such centres around the world, except in Chinese mainland. In China, the International Seafarers Clubs (ISC) were set up in major port cities in the 1950s. The paper aims to answer these questions: What has happened to Chinese ISCs? Why has China, while rising as an economic power, does not present itself as an effective provider of welfare services for seafarers on ships that carry most of its international trade in and out of its ports, to and from the seas and oceans? What is the PBWS (or non) for seafarers in China in the 21stC?

R20 | Using Creative Methods for Migration Research: An Interactive Embroidery and Writing Workshop

Dr Nazneen Ahmed | University College London
nazneen.ahmed@ucl.ac.uk

In this 45-minute interactive session I will offer two simple creative exercises, involving embroidery and creative writing techniques, to model the work I have undertaken in London and Southampton as a researcher of religion, migration and urban space. While we work upon our pieces, I will speak about the various academic-creative partnerships I have taken part in and/or lead over the last few years. These include “Fabric of Faith”, an interfaith embroidery project with women in West London, as part of the broader Making Suburban Faith project based in the Geography department at UCL. I will also profile the early stages of my creative projects in Southampton which seek to explore experiences of migration within the city using embroidery and creative writing techniques.

R21 | Team work impact in action: A maritime perspective

Dr Kate Pike | Solent University
Co-presenters: Emma Broadhurst, Solent University; Karen Passman, Impact Crew; Chris Wincott, NJC Associates Ltd; Nickie Butt, Solent University; Richard Neale, Solent University
kate.pike@solent.ac.uk

This interactive session aims to demonstrate the different interactions and measurable strengths gained from working with a familiar team as opposed to an unknown team. By engaging the audience in two interactive and entertaining tasks, the benefits of working together more than once will be demonstrated and discussed in light of a current, international, maritime, research project run by Southampton Solent University. This stimulating session will highlight the value of the research and form the basis for a thought provoking discussion.

R22 | Engaging the public with research

Dr Silvia Lanati | Administrative Data Research Centre for England (ADRC-E)
S.Lanati@soton.ac.uk

The public is the ultimate beneficiary of a researcher’s work, so why do we not always consider the value of disseminating our findings outside academia and industry? Public engagement bridges our understanding of science, technology and society with the outside world, proving an incomparable asset for technicians, early career researchers, leaders and the public. This talk will cover the benefits of public engagement for all different actors involved in it, and it will shed some light on some essential key factors that affect the efficacy of communication, giving few tips for young and senior researchers on how to get started.

R23 | Building the future: hazard management

Session Chair: Catherine Lee, Solent University

Need for Buoyant Disaster Response Shelters in Indian Coastal Areas
Ar. Kankana Dev | Indian Institute of Technology
kankana.dev@gmail.com

India’s coastal length (mainland) is >5000km and, these coastal areas have several river islands which fall under the National Coastal Regulation Zone (CRZ). The majority of islands are in “No Development Zones”. This study focuses on the identification of development strategies for these river islands on the western coast of India. This area was not enough studied in the past and accordingly, an ethnographic case study for the river island Timmana Kudru, (Karnataka, India) has been carried out to fill the research gap. The current study focused on socio-cultural and infrastructure aspects and issues within the existing scenarios are documented.

India Model of Lightning Early Warning & Safe Grid Management System

Col SANJAY SRIVASTAVA | Indian Institute of Management, Ahmedabad

Co-presenters: Mr. J Vardarajan , Secretary , Andhra Pradesh State Council of Higher Education
sanjaysonisa@gmail.com

Lightning is the biggest killer as compared to all other natural disasters in Africa, Latin America, U.S.A., South East Asia. In India, it accounts for more than 2000 deaths every year. To combat this, Indian state of Andhra Pradesh has initiated a Lightning Warning System (LWS) project , based on detection, prediction, timely dissemination, capacity building(awareness and training), enhance preparedness, prevention and mitigation measures and creation of safe grid to mitigate/prevent lightning impacts. It has considerably brought down the fatalities. The technology is innovative and its worth emulation by others .

Physiochemical analysis of water of Pushkar lake Ajmer

Dr Rashmi Sharma | SPC Government College Ajmer

sharmarashmigca@gmail.com

Ajmer is located in the center of Rajasthan (India), 25 38 " and 26 58" north latitude and 73 54" 75 22" East logitude covering a geographical area of 8481 sq. km. hemmed all sides by Aravalli hills. About 7 miles from the city is Pushkar lake created by the touch of Lord Brahma. The Dargah of Khawaja Mouinuddin Chishti is holiest shrine next to Mecca in the world. Ajmer has hot dry summer and cold bracing winter. Temperatures vary from 2- 49 oC. Winter extends from November to February and Summer from March to June followed by Rainy season till September. Annual rainfall is 5273mm. Present study was carried out to determine various physiochemical parameters (pH, carbon di oxide, Alkalinity, Acidity, DO , TSS etc.) of Pushkar lake water.

Multiple Hazard Vulnerability Assessment: A case of South India

Dr. Komali Kantamaneni | Solent University

Professor Anthony Gallagher¹, Joan Evasco², Sainath Aher³, K.K. Deshmukh³, Xiaoping Du^{3,4}

¹ Solent University

² Albay Public Safety and Emergency Management Service Office (APSEMO), Phillipines

³ S.N. Arts, D.J.M. Commerce & B.N.S. Science College, Sangamner, India

⁴ Key Laboratory of Digital Earth, Institute of Remote Sensing and Digital Earth (RADI), Chinese Academy of Sciences, Beijing

komali.kantamaneni@solent.ac.uk

India is one of the natural disaster prone countries in South Asia in both catastrophic and economic damage aspects (cyclones, floods, landslides, earthquakes, droughts, volcanoes). More than 80% of India's geographical area is very vulnerable to the multiple hazards. High intensified cyclones and flood events are increased in recent decades because of anthropogenic induced climatic changes. Many of those events frequently struck across the southern part of India such as Chennai, Bengaluru, and Visakhapatnam as evidenced in 2015-2017. Accordingly, the current study analysed the natural disaster events which occurred in South India for the period of 2000-2017 in both physical and social-economic aspects to examine the precise occurrence of natural disasters.

Assessing preparedness of local government units in addressing the health needs during pre-emptive evacuation. A case for the District of Albay, Philippines.

Miss Joan Evasco | Albay Public Safety and Emergency Management Service Office (APSEMO)

joanevasco@yahoo.com.ph

Disasters pose a variety of health risks, including physical injury, premature death, increased risk of communicable diseases, and psychological effects such as anxiety, neuroses, and depression. Further, disaster can lead to destruction of local health infrastructure—hospitals, doctor's offices, clinic that would most likely have an impact to the delivery of health care services. Any disaster, regardless of type, has potential of increasing disease transmission if it results in either direct or indirect changes in the human ecology. The aim of this study was to assess the level of preparedness of Local Government Units and Rural Health Units in the 3rd district of Albay during pre-empted evacuation and its implications for disease transmission.

R24 | Realist Evaluation

Session Chair: Dr Kev Harris, Solent University

We all fall from time-to-time': A realist evaluation of falls management in Southampton

Mr Wayne Bennett | Solent University

wayne.bennett@solent.ac.uk

Every year, one-in-three individuals over 65 years falls, potentially resulting in injury, disability and premature mortality. With an annual cost of £2.3 billion, falls constitute an issue of public health, with substantial human and economic costs. Although not all falls can be prevented, steps can be undertaken to minimise the risk in those who do. As a primary, respected source of health information, general practice is ideally suited for the management and prevention of falls. Consequently, this research is a realist evaluation of general practitioners management of falls and falls prevention, understanding what works, for whom and how in Southampton.

Building capacity for co-productive methods in realist evaluation:

Local Area Coordination Case Study

Mr James Mason | Solent University

Co-presenters: Dr Kevin Harris and Dr Brian Wink, Solent University

james.mason@solent.ac.uk

The Local Area Coordination (LAC) Network aims to create a supportive network of resources to achieve long-term development and associated reforms in England and Wales. Despite multiple evaluations having been conducted on the LAC Network, to date, no evaluation has imbedded co-productive methods. This paper draws upon an evaluation of the LAC Network on the Isle of Wight (IOW) integrating Realist Evaluation with a range of co-productive methods involving internal stakeholders at different stages (Pawson and Tilley, 1997).

A Theoretical Framework for Innovating Evaluative Practice within Asset-based Community Development programmes: Collaborative Principles and Realist Methodology

Mr Chad Oatley | Solent University

chad.oatley@solent.ac.uk

The research study sets out to mobilise stakeholders associated to ABCD activities as collaborative partners within evaluation. To achieve this, a 'Stakeholder-driven Realist Evaluation' framework has been developed, which will be tested and refined through realist evaluation methods. This is possible through synthesising Shuhla et al's (2015) 'Collaborative Principles' to evaluation, within Pawson and Tilley's (1997) Realist approach to evaluation to establish how and why ABCD works (or not), for whom, and in what circumstances.

A realist evaluation of EduMove, an integrated physically active teaching and learning model

Mr Henry Dorling | Solent University

henry.dorling@solent.ac.uk

The purpose of this research is focused on a realist evaluation of a more physical activity (PA) biased curriculum delivery in UK primary school classrooms using EduMove products and programmes to ascertain what works for whom under what circumstances and why, in more physically active teaching and learning classroom environments. EduMove stands for Education through Movement and is an innovative educational approach that aims to promote cross-curricula delivery of core school subjects using enjoyable movement orientated games.

R25 | Realists around the Table

Dr Kev Harris | Solent University

Wayne Bennet, James Mason, Chad Oatley and Henry Dorling, Solent University

Kevin.harris@solent.ac.uk

This participative round table discussion will follow on from the presentation session, providing an inclusive space to explore researcher experience using Realist Evaluation.

POSTER PRESENTATIONS

Avengers Assemble: How stable teams can combat accidents in the shipping industry

Mr Richard Neale | Solent University
richard.neale@solent.ac.uk

Implementation of a stable crewing strategy within the global shipping industry will reduce the likelihood of maritime accidents occurring. This PhD directly links to the Effective Crew Project currently underway at SSU sponsored by Lloyds Register and the TK Foundation. The assumption that the use of stable crewing improves onboard safety by minimizing accidents is the primary goal of this research. The PhD will look into safety considerations and legislative aspects through literature review to ascertain any correlation between accidents and crewing strategies currently employed within the shipping industry.

Bamboo Architecture in Disaster Response

Ar. Kankana Dev | Indian Institute of Technology
kankana.dev@gmail.com

The built environment today is affected more and more by the rapid and extreme changes due to manmade and natural disasters. Design and manufacture of a post-disaster transitional shelter with partial prefabricated and portable bamboo elements show that portable bamboo buildings are feasible, and can fulfill many different roles and are economically viable to build and operate. This study takes a case study approach to explore in details the strategy and design considerations taken to achieve the objectives of creating a quality environment as disaster response aftermath a catastrophe.

Comparison of the effect of acute aerobic and resistance exercise on electro-cortical activity during locomotive single- and dual-task performance

Dr Shelley Duncan | Solent University
shelley.duncan@solent.ac.uk

There is a growing body of evidence showing that levels of physical fitness and acute bouts of exercise are associated with improved cognitive function, for example: changes in electro-cortical activity associated with the allocation of attention resources (P3 event-related amplitude). Most research to-date, however, has only examined the influence of acute aerobic exercise on electro-cortical activity with few studies exploring the impact of resistance exercise. For this reason, the current study examined the effects of two different modes of acute exercise (aerobic and resistance) on measures of task-related electro-cortical activity during the performance of a multidirectional locomotor task.

Memory Tracks: Song-task association in dementia care

Dr Harry Whalley | University for the Creative Arts
Dr. Stuart Cunningham, Mark Brill, Sarah Edwards, Paul Simpson
hwhalley@uca.ac.uk

This poster presents a multi-shareholder investigation into the effects of music to aid the day to day care of dementia suffers. The core element of this is a tablet or smartphone app that connects daily events to the patient's choice of reminiscence music. Further development of Memory Tracks will utilise behavioural or physical triggers to create a contextual, more immersive user experience.

Networking in HE

Mrs Viara Breakwell | Solent University
viara.dulguerova@solent.ac.uk

I undertake a critical review of the literature that grounds the study of networking in Higher education (HE). My review focuses on the different concepts of networking, an exploration of the various roots of 'networking' as a phrase and its associated meaning in the academic literature. It illustrates the diverse ways in which networking has emerged and evolved, drawing on a variety of disciplinary perspectives, such as information technology, telecommunications, management, education and other. The application of the networking varies, being mainly dependent on the field of study and the era/period. Following this, a collective classification of the different meanings, benefits and challenges of networking is developed. The concept is explored, drawing on the critiques of current network studies and alternative approaches are considered offered by critical HE scholars, with specific focus on the implications of the current study.

New times, new crimes how seafarers are affected by criminalisation.

Ms Thérèse Canning | Solent University
therese.canning@solent.ac.uk

Modern seafarers run the risk of criminal prosecution as a result of actions they undertake on board vessels as part of their jobs. The risk is small, but can have disproportionate consequences for the individual, and the fear of being caught up in criminal processes affects over 80% of seafarers surveyed (Seafarers Rights International, 2016). The purpose of this presentation is to explore the features of the seafarers' experience which make them more vulnerable to criminalisation within the context of an increasingly globalised workforce.

The effectiveness of opportunistic health checks within the workplace

Mr Phil Godfrey | Solent University
Mr Chris Dunn, Dr Shelley Duncan, Dr Sara Bragança, Solent University
phil.godfrey@solent.ac.uk

The purpose of this research is to investigate the effectiveness of opportunistic health checks within the workplace. This is with the specific purpose of 1) identifying undiagnosed cardiovascular disease risk factors in individuals within and outside of the NHS check age range (40 - 75) and 2) whether individuals identified with cardiovascular disease risk factors visit their General Practitioner as advised during the healthy conversation at the opportunistic health check.

Wheelchair rugby sportswear - perspective of the players

Dr Sara Bragança | Solent University
sara.braganca@solent.ac.uk

Wheelchair rugby is a relatively new sport that has been gaining popularity with athletes with disabilities. Unfortunately, there is not yet a sportswear kit available for this specific sport. This is a problematic issue as the inadequacy of the garments worn by players during the games impacts their performance, comfort and safety. The main objective of this research is to present some requirements that players have for a sportswear kit specific for wheelchair rugby.

UNDERGRADUATE AND MASTERS POSTER PRESENTATIONS

Augmented Reality

Shannon Whaley | Solent University
Shannon.09@live.co.uk

This research investigates the potential AR technology in the form of holographic motion sensors can have on improving the customer experience with high street retailers as well as delivering a competitive advantage to the brand. Secondary research was carried out using academic journals on customer experience and competitive advantage within retail and was supported by articles and books. Primary research was carried out through a questionnaire using closed questions so it could be targeted towards shoppers using the high street; the findings from this showed that 79% responded positively in terms the amount of people that would engage with holographic motion sensors in store. In addition to this, 66% of respondents claimed they would be more likely to shop in store if AR technology was available.

Build the City Multi-function apartment building in Britain and China.

Xinxian Kou | Solent University
koucynthia@gmail.com

the author describes the construction of multi-purpose apartments in the city to ease the lives of people in the city, whether students or workers, although they are small but still enjoy many housing facilities. This article uses many literature surveys, surveys, and interviews to gather personal opinions from people in each country. The purpose of this article is to organise valuable information based on the needs of the people collected in each country, conclude that we should pay attention to when building multifunctional apartments in various countries, the author's research report hopes to successfully solve the problems of modern dwelling youth in the future urban life.

Compare the architectural design of Chinese and English hotels.

Feifei Sheng | Solent University
460914103@qq.com

A hotel is well suited to the needs of contemporary and future social development, taking into account the long-term interests of society and customers, the hotel will take the road of sustainable development. The research going to compare the Shanghai JINMAOJUNYUE Hotel in China with the Amberley Castle- A Relais & Chateaux Hotel in UK, and research on sustainable development is the trend of the hotel industry. The paper discusses the right way to collect information from relevant people and then analyze the statistics.

Compare the difference between China and UK in the direction of safety in interior design

Wenxi Ding | Solent University
631636578@qq.com

This report compares China and the United Kingdom in terms of interior design (Zamora F, 2017) and materials on the choice of security for children's parents and to provide ideas for designers to ensure the safety of children. The aim of this research is to investigate the perceptions of parents in JiangSu, ChangZhou(JSCZ, nd), China and Southampton, United Kingdom about the safety of interior material selection and facility design for apartments and compare them to related articles or case histories. The final analysis will be used to determine whether replacement materials and safe designs are necessary and their value.

Comparison between China and the UK of interior lighting design

Sicheng Tang | Solent University
1614949025@qq.com

The report will compare the differences between China and Britain in the field of indoor lighting design. To do that, this report will review the basic theories and use questionnaire to generate understanding of interior light design between the two countries. Visit interior designers to learn the detailed steps and key points of interior lighting design will also be done. Conclusions will show the difference between China and the UK.

Comparison of the Heating, Ventilation and Air Condition between China and UK

Miao Wan | Solent University
6221193@qq.com

Heating Ventilation and Air Conditioning (HVAC) is an indispensable part of intelligent building to create comfortable, efficient work and living environment. This report researched the impact of the studying and working environment for students and lecturers by primary research using questionnaires and interviews are used. The survey process was explained detailed in this report. Literature survey for Heating, Ventilation and Air condition (HVAC) and the design method of colleges and universities ventilation system were survived between China and UK. Finally, the results of primary research and secondary research were analyzed.

Customisation for the luxury market

Rebecca Labelle | Solent University
becky_labelle@hotmail.co.uk

This proposal will be detailing how Kurt Geiger will implement customisation within their brand. Incorporating online and offline digital strategies to enhance their consumer experience. Determining whether there is a need for customisation within the luxury market, valuing the consumer needs to enhance their shopping experience, and if it will deliver a competitive advantage. Extensive secondary research has been undertaken to identify how effective customisation is and how it is currently enhancing consumer needs and lastly analyzing how existing brands are integrating customisation within their strategies. Additionally, primary research has also been conducted within a survey, securing an understanding of consumers opinions regarding customisation.

Data Ownership and Privacy on the Internet

Edward Higgins | Solent University
0higge83@solent.ac.uk

With the increasing amount of personal data flowing out as we use the internet, and we are now at a stage where people have grown up with internet access compared to those who were mature when it entered their lives, the author considered it an interesting question to establish what current awareness and attitudes were around a sense of owning your own data, and privacy online. To draw from the research any patterns and correlations from those attitudes, and the behaviour in how different groups of people approach and use the internet.

Developing a model for delivering targeted content strategies to achieve high ROI for small businesses

Aysha Samrin | Solent University
1samra32@solent.ac.uk

The content industry has seen an incredible transformation in the last two decades. People go online to consume content, making it critical for a businesses' success to get content out to the right people at the right time and in the right format. Marketing is one of the many challenges that small businesses face due to their limited resources. Content marketing can be the solution to this seemingly insurmountable task. This session will dive into understanding the benefits of content marketing and the high ROI that small businesses can achieve by developing a targeted content strategy. Ongoing research and case studies into developing a model for creating effective content strategies for small businesses will be discussed.

Find My Item

Yvette Baker | Solent University
2bakey01@solent.ac.uk

This study examines the factors which will need to take place for Zara to integrate the 'Find my items app' (Navigation app) onto the consumers smartphones. The advantage of having the app is allowing consumers to have the ability to find products easily. This enhancing the prospect of sales through the use of RFID tags and real-time information through the app. Almost all research is being focused on ways to make the consumer feel engaged with the app; making the app feel more personalised to them. Another element the research is focussing on is the type of technology which will be used and Zara will need to invest in. The research was conducted through the use of Secondary and Primary research. An interview was put in place to gather reliable information first hand, from a specialist about the Technology which Zara will need to invest in. Results showed that if the correct technology was used and brought value to the consumer, the app will be a success. The findings will be a temporary continuous innovation for Zara as the research collected will enable them to get it correct the first time and putting them at a competitor advantage.

Infrastructure in nursing homes and public infrastructure in the UK and China

Aobo Yang | Solent University
1652995249@qq.com

Nowadays, the trend of aging is becoming more and more popular in both China and the UK. It is a big issue to protect the life and safety of the elderly. Public infrastructures for the elderly are very important, for the elderly, how to choose a suitable nursing home is very important as well. This report can help the elderly to choose nursing homes and let local governments to know which aspect needs to be improved.

Public Parks between UK and China

He Zhou | Solent University
18351207029@163.com

This report identify the difference of parks between UK and China. Representative parks in each countries are identified. Views are obtained by interviewing students, relevant experts and collecting questionnaires responses from students to, to make a specific conclusion to identify the unique designing styles of each countries' park . The most critical goal of this report is giving public positive aspects of parks then encourage them to be close to nature and visit park more frequently than before and consider the use of plants to improve air quality.

Raising Revenue at the Mary Rose Museum, Portsmouth

Alex Parkinson | Solent University
adp787@gmail.com

Maximising visitor secondary spend and raising revenue is an ongoing challenge for tourist attractions, particularly in the heritage-cultural sector. This research focuses on the case study of the Mary Rose Museum, and a mix of qualitative and quantitative questionnaires and observations were conducted. This has built a comprehensive insight of the museum's retail environment and potential changes that could be implemented to help improve revenue. This research is to be developed further as part of dissertation work, incorporating the views of other visitor attractions and being expanded to cover other revenue streams, as well as shops.

Research into the creation of MyStordrobe app for retailers

Chelsea Reeds | Solent University
2reeduc85@solent.ac.uk

This research investigates if there is a gap in the market for an app to recognise, store and sell apparel that can aid high street retailers. Secondary research through online publications and articles recognises the poor service being offered by high street retailers as well as current solutions. Primary research, in the form of a survey, identified the demand for this app with 87% stating that they would use an app with these features. Thus, the findings show the need for an app that can create less and less friction in the shopping experience

Research the difference between construction sites in th UK and China

Teng Zhang | Solent University
1054005863@qq.com

Due to the difference of cultural between China and the UK, these differences may change construction skills in the field of building construction. This investigation is making more people aware of the differences between UK and Chinese construction, and adopting more effective methods of construction to reduce rework and improve safety. The importance of safety in the construction of buildings can not be ignored. Nowadays, the booming of the construction market will promote the growth of the society and economy, but also bring safety problems to construction workers.

Residential Dwellings

Kolton Smith | Solent University
koleds20@gmail.com

This proposal is focusing on residential construction and the current methods that are used in Canada and the UK. Further research will be conducted on the future methods that have been developed in residential construction with a large focus on sustainability. The proposal highlights ways that information will be collected for primary and secondary sources. All the information gaiters will be used to compare the two countries in the final research report.

Self driving

Ryan Jordan | Solent University
ryanyboy99@gmail.com

The main goal of this project is to find out how different generations feel about autonomous vehicles. This will be done by analysing surveys, interviews and research. The reason behind this topic is trying to find out how people feel about autonomous vehicles, to see if people who work with vehicles see it as a good thing or do people feel it is a risk to jobs. To see if the younger generation feels better about self driving vehicles or do all sides see autonomous vehicles as a risk.

Sustainable Building

Cameron Scott | Solent University
cameronsfscott@gmail.com

The following is proposal for a research paper on sustainability in the built environment, as well as comparing the UK and Canada in this respect. Research has been completed in order to investigate and further the education of the author as it pertains to the subject.

The Impact of building computers between generations

Joe Crispin | Solent University
joeycrispin96@gmail.com

I will be presenting the impact and differences on the building of computers over time.

NOTES



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