Welcome to the September 2015 LivWiSE Newsletter. We hope you’ve all had a good summer and are looking forward to the new academic year ahead.

If you would no longer like to be on our mailing list, or you would like to contribute to the LivWiSE newsletter/Facebook/Twitter then please get in touch at livwise@liv.ac.uk.

Science News Roundup

- Test for early stage pancreatic cancer could help save lives
- Scientist shares ideas on ageing at TEDx
- Mediterranean diet, not calorie counting, is key to good health
- Research has implications for forecasting geological disaster
- Study shows plant species’ genetic responses to climate change
- Promoting natural flood management techniques
Global initiative to advance river blindness vaccine

Researchers reveal mystery of how contractions in labour grow stronger

Prevention methods for dog bites too simplistic, researchers find

Believing you are overweight may lead to further weight gain

HIV grows despite treatment, study finds

Molecular trick alters rules of attraction for non-magnetic metals

Becoming an Expert: Jan Mary Baloyo developing Lost Carbonate Sintering

WATCH: Film showcases 150 years of Liverpool dental school

Ebola survivors plasma used in Freetown Sierra Leone

Footballing androids of RoboCup are vital players in our robotic future

Musical training can accelerate brain development and help with literacy skills

Viewpoint: Large Hadron Collider discovers new pentaquark particle
Women in STEMM News

University Professor elected to Physiological Society

Celebrating 100 years of women physiologists

Congratulations to Professor Katie Atkinson, appointed new Head of the Department of Computer Science

Women in STEM Statistics Report Published

The national Women in Science and Engineering society (WISE) has published “Must do better”: End of term report on UK’s progress attracting women into science’ (and a Labour Force Update) new statistics on the proportion of men and women in different STEMM subjects and career.

Grants

- Diversity in Science grants – Biomedical Society. Grants up to £500 to promote Diversity in STEM. Deadline 30th September.

Back to Contents
**LivWiSE Events:**

**Welcome Social and Networking**

Everyone is invited to our first and informal social and networking event of the year. Come along and meet other members of LivWiSE, students, staff and people just interested in science. We would particularly welcome new students and staff who have just joined the University. This event is taking place just after Welcome Week.

Refreshments will be provided.

**Date:**  Friday 2\textsuperscript{nd} October 2015  
**Time:**  5:00-7:00pm  
**Location:**  GFlex, Central Teaching Hub  
**Book Tickets:**  [https://www.eventbrite.co.uk/e/livwise-welcome-social-networking-tickets-18201401883](https://www.eventbrite.co.uk/e/livwise-welcome-social-networking-tickets-18201401883)

**Ada Lovelance Day 2015**

**DATE FOR THE DIARY**

Ada Lovelace Day is an international celebration of the achievements of women in science, technology, engineering and maths (STEM). Ada is widely held to have been the first computer programmer.

**Date:**  Tuesday 13\textsuperscript{th} October 2015
DATE FOR THE DIARY

Building on the fantastic success of last year, LivWiSE will be bringing you its Annual Christmas Lecture in early December. Full details to be confirmed in the coming months.

Date: Thursday 3rd December 2015
Time: 5:00-7:00pm

Other Events:

The events listed below have not been organised by LivWiSE, but are events that we think will be of interest.

Meet the scientists: Fat Cats and Hot Dogs

Don’t miss out this interactive, hands-on science day for all the family! Come along and meet scientists from the University of Liverpool at the World Museum.

Learn how germs can travel between animals and humans and how to keep pets and farm animals fit and healthy. Join in the many activities suitable for children of all ages, and there’s plenty to do for adults too!

Date: Saturday 10th October 2015
Time: 11:00-16:00
Location: World Museum Liverpool, William Brown Street
Book Tickets: No booking required. All welcome!

MEN/TAL: Men and Mental Health

This free lecture event will explore the different experiences and stigma that men face in discussing mental health concerns and accessing support or treatment.

The event will be introduced by the University's Professor Peter Kinderman and include speakers:

- **Jake Mills** - After a personal battle with depression in 2013, Jake has become an influential figure in campaigning against the stigma attached to mental health issues.
- **Rachel Clare** – works for the Campaign Against Living Miserably (CALM) with responsibility for public campaigns, social media and
the charity’s magazine CALMzine

- **Dean McShane** – is a qualified mental health nurse and has worked in Child & Adolescent Mental health services, The Early Intervention Team in Psychosis, and his current role with the NHS Mental Health Single Point of Access Team
- **Callum Cairns** - A recent Psychology, Callum spent his final year’s research examining the links between gender roles and mental wellbeing in males.

**Art, Technology and Science**

The evening will address the impact of creative technologies on the ways in which researchers and professional artists and designers work between the worlds of the engineer, the craftsman, the visionary and the pragmatist. Bringing architecture and advanced interactive visualisation onto the stage, we think about how to imagine new ways of connecting, shaping and being in society now.

Topics:

- Technology as Art: visualisation, connection and imagination,
- Redefining interactive narrative for the digital era
- Bridging Art and Science

**How well prepared are we for emerging diseases?**

John Collinge is Professor of Neurology and Head of the Department of Neurodegenerative Disease at the UCL Institute of Neurology. He also directs the NHS National Prion Clinic at the National Hospital for Neurology and Neurosurgery. He also established the MRC Prion Unit at Imperial College in 1998 which he now directs.

Professor Collinge is committed to highly multidisciplinary research and the seamless integration of basic laboratory and clinical research. His laboratory demonstrated in 1996 that the new human prion disease, variant CJD, was caused by the same prion strain as that
causing BSE in cattle and has been responsible for a number of key advances in the field.

**Speaker:** Professor John Collinge, FRS  
**Date:** Tuesday 10 November 2015  
**Time:** 5.30pm  
**Location:** The Leggate Theatre, Victoria Gallery & Museum  
**Book Tickets:** [https://www.liv.ac.uk/events/science-and-society/emerging-diseases.php](https://www.liv.ac.uk/events/science-and-society/emerging-diseases.php)

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**The Secret Resonance of Things**

Professor Trevor Wishart is a composer whose interests deal mainly with the human voice, in particular with the transformation of it and the interpolation by technological means between human voice and natural sounds. He has also written extensively on the topic of what he terms ‘sonicart’ and contributed to the design and implementation of software tools used in the creation of digital music; notably, the Composers’ Desktop Project.

**Speaker:** Professor Trevor Wishart  
**Date:** Tuesday 24 November 2015  
**Time:** 5.30pm  
**Location:** The Leggate Theatre, Victoria Gallery & Museum  
**Book Tickets:** [https://www.liv.ac.uk/events/science-and-society/secret-resonance.php](https://www.liv.ac.uk/events/science-and-society/secret-resonance.php)

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For more upcoming events, visit the University Events Website: [http://www.liv.ac.uk/events/index.php](http://www.liv.ac.uk/events/index.php)

For campus maps and travelling / car parking information please visit: [http://www.liv.ac.uk/maps/](http://www.liv.ac.uk/maps/)

**Back to Contents**
Courses and Workshops

Electrify: An Introduction to Electrical and Electronic Engineering

Engineering is all about using science to make the world a better place and touches our everyday lives; the device you’re reading this on wouldn’t exist if it wasn’t for electrical and electronic engineers!

In Electrify we’ll cover six different areas of electrical and electronic engineering over the six weeks:

1. Electromechanics
2. DC Circuits
3. AC Circuits
4. Digital Electronics
5. Analogue Electronics
6. Introduction to C Programming

Join this FREE online short course to learn more.

Start Date: 9th November
Duration: 6 Weeks (online)
Watch Trailer: https://www.youtube.com/watch?v=IzbDtNp72ro
Register: https://www.futurelearn.com/courses/electrify

Psychology and Mental Health: Beyond Nature and Nurture

Psychological therapies and the work of clinical psychologists are now very popular. This free online course provides an introduction to how psychologists understand emotions, behaviours and thinking patterns, and how this helps clinical psychologists make sense of their clients’ problems.

Over six weeks, you will explore some of the current challenges and debates in the area of diagnosis and treatment, and discover new ways of thinking psychologically about mental health.

Start Date: 26th October 2015
Duration: 6 Weeks (online)
Watch Trailer: https://www.youtube.com/watch?v=Lin2_4ojSa8
Register: https://www.futurelearn.com/courses/mental-health-and-well-being

Back to Contents
A number of Science, IT and Health related short courses are run each year by the Continuing Education Department. Courses include:

- An Introduction to Astronomy
- Geology Through Maps for Beginners
- Introduction to Oceanography
- A First Course in Calculus
- Renewable Energy: How Does it work?
- An Introduction to Clinical Psychology
- Introduction to Statistics using SPSS
- Design your Website

For a full list and details of the courses please visit the website or pick up a booklet at the University. There is a cost/fee for each of these courses.

**Booking and Details:** [http://payments.liv.ac.uk/browse/department.asp?compid=1&modid=2&deptid=41](http://payments.liv.ac.uk/browse/department.asp?compid=1&modid=2&deptid=41)

**Dates:** Various (Oct 2015 – June 2016)
Multi Media Resources

LivWiSE Promotional Films

Have you watched our 5 new films produced to celebrate and promote the varied and exciting options that a career in science, technology, engineering and maths can lead to? Featuring female research and academic staff from the University of Liverpool, and stakeholders from commercial companies, we hope these films will help ‘ignite your passion’ for STEM. The five films are listed below.

Ignite your passion for Science and Engineering

'Ignite your passion for Science and Engineering' celebrates and promotes the career options in studying and working in the fields of science, engineering and technology. Featuring staff from across the faculty, it shows that passion, creativity and an inquisitive mind can take you to where ever you can imagine.

Why Electrical Engineering, Electronics and Computer Science?

'Why Electrical Engineering, Electronics and Computer Science' celebrates and promotes the career options in studying and working in the fields of computing, electrical engineering, and electronics. Featuring staff from across the School of EEE&CS, it shows that passion, creativity and an inquisitive mind can take you to where ever you can imagine.

Why Engineering?

'Why Engineering?' celebrates and promotes the career options in studying and working in the field of Engineering including additive printing, bio-engineering, civil engineering and virtual engineering. Featuring staff from across the School of Engineering, the Virtual Engineering Centre, and company MACE, it shows that passion, creativity and an inquisitive mind can take you to where ever you can imagine.

Why Environmental Sciences?

'Why Environmental Sciences' celebrates and promotes the career options in studying and working in the fields of earth science, specifically volcanology, geology and palaeontology. Featuring staff from across the School of Environmental Sciences as well as the company MACE, it shows that passion, creativity and an inquisitive mind can take you to where ever you can imagine.

Why Physical Sciences?

Why Physical Sciences’ celebrates and promotes the career options in studying and working in the fields of Physics and Chemistry specifically and Physical Sciences more broadly. Featuring staff from across the School of Physical Science as well as the National Nuclear Laboratory, it shows that passion, creativity and an inquisitive mind can take you to where ever you can imagine.
PhD Studentships

Are you looking for the next step in your career? Looking to study for a PhD? The following studentship positions are currently being advertised:

http://www.liv.ac.uk/working/jobvacancies/currentvacancies/studentships/

- Development of climate-driven models for mosquito-borne disease in the UK
- Computer Science
- Computational Design of New Complex Inorganic Materials

Researcher / Post Doc positions

Finished your PhD? Looking for the next career step? Are you looking for an interesting research post? A number of positions are currently being advertised:

http://www.liv.ac.uk/working/jobvacancies/currentvacancies/research/

- Wheat Genomics
- Research Co-ordinator in Chemistry Dept
- Research Assistant Grade 6 in Mental Health
- Robust Organic Tectonics

For more positions please visit the website.

Academic positions

Academic positions (Lecturer, Senior Lecturer, Professor etc) are advertised throughout the year. All current posts can be found using the weblink below. A selection of the current posts is listed below:

http://www.liv.ac.uk/working/jobvacancies/currentvacancies/academic/
- Lecturer in Geophysics
- Lecturer in Rock Deformation/Microstructures
- Senior Lecturer in Actuarial and Financial Mathematics
- Senior Clinical Lecturer in Paediatric Infectious Diseases
- Lecturer in Orthoptics
- Resident in Small Animal Diagnostic Imaging

Remember you can follow us on Twitter and Facebook where we post daily news, updates, event information and retweets/posts.