Southampton

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- New Head of ECS - Careers Fair - FOS update

Spotight on Physical Sciences and Engineering

From here to eternity

SCIENTISTS at the Optoelectronics Research Centre have made a major step forward in the development of digital data storage that is capable of surviving for billions of years.

Using nanostructured glass, researchers have developed the recording and retrieval processes of five dimensional (5D) digital data by femtosecond laser writing.

As a very stable and safe form of portable memory, the technology could open an era of eternal data archiving to preserve humanity's information and records.

A copy of the Universal Declaration of Human Rights was encoded to 5D data storage and presented to UNESCO at the International Year of Light (IYL) closing ceremony in Mexico last month.



Celebrating success

£327,000
rphous
€273,000

Otto Muskens €225,000 H2020 - Next generation metamaterial based Optical Solar Reflectors



Faculty's awesome foursome

FOUR Academics within the Faculty of Physical Sciences and Engineering have again been named in the prestigious Debrett's 500 for 2016.

Published in association with The Sunday Times, the Debrett's 500 recognises the most influential and inspiring people living and working in Britain today. Professor Dame Wendy Hall (top left), Professor Sir David Payne (bottom left) and Visiting Professor Liam Maxwell (bottom right) were all listed for their contributions to engineering and technology, while Professor Sir Tim Berners-Lee (top right) was recognised for his influence in the digital and social sector.

Kai Yang £1,087,000 MRC - Low-cost personalised instrumented clothing - (see inside) Yunjia Li Royal Academy of Engineering Enterprise Fellowship

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Supporting your success

At the latest Faculty Forum the Dean presented an update on the University's new sharpened strategy, recently developed by the Vice Chancellor and his senior team.

The strategy focuses on four pillars: **Quality**, **Sustainability**, **Internationalisation** and **Collegiality**, all of which are reflected in the following key messages:

• The University is exceptional and academic performance in the last two years has been impressive

• Southampton will become a place where staff enjoy working and are proud of our achievements

 Our strategic aim is to hold sustainable positions in the top 10 in the UK and top 100 internationally

• We need to drive up quality which drives reputation and links to improved league table positions

 High academic performance has not delivered financial sustainability

 We will address underlying inefficiencies in our systems and processes

The strategy fits well with FPSE's priorities which focus on growing our excellence and include:

Education

International partnerships

Innovative teaching facilities

Sustainability and Growth

 Sustainable research infrastructure and flexible space

• Strengthened technical and engineering staff

Connected Professional Services

 Supporting the Faculty to sustain success by delivering excellent and agile services

Impact and Enterprise

 accelerating impact through Future Worlds

• REF 2020 - maximising our performance

Research

increasing and diversifying our research income

 building cross-faculty research leadership

Paul is new Head of ECS



Watch this space



Support for stroke patients

Record-breaking Careers Fair



PROFESSOR Paul Lewin will be the new Head of Electronics and Computer Science (ECS).

Paul's appointment follows his experience as the Deputy Head for Education of the historic department and as Head of the impressive Tony Davies High Voltage Laboratory.

He will take up the post next month and replaces Professor Nick Jennings, who is leaving to become Vice Provost - Research at Imperial College London.

X-RAY astronomers from Southampton are supporting the observational strategy of a new satellite carrying the most sensitive instruments of all time for high time resolution astrophysics.

ASTROSAT, a multiwave astronomy satellite, was launched in India in the autumn. Southampton astronomy group members were invited to speak at a post-launch conference in Mumbai (left) this January.

Read the full story at 'Latest News' on *intranet.soton.ac.uk/sites/fpse*.

GROUNDBREAKING collaborative research led by ECS Senior Research Fellow Dr Kai Yang is set to create a prototype for a wearable Functional Electrical Stimulation (FES) medical device for stroke rehabilitation.

The £1.1m project, funded by the Medical Research Council, is combining expertise from ECS with Health Sciences as it innovates a practical, comfortable and high performance solution for cost effective rehabilitation.

THE Faculty's ninth Engineering and Technology Careers Fair has been hailed a "resounding success" after more than 1,200 students interacted with 90 companies across campus.

The event smashed Faculty records for corporate and visitor numbers. "The Fair is a great endorsement of the high regard that the UK's leading technology companies have for Southampton students," said Careers Fair Director Joyce Lewis. "It was fantastic to hear the buzz in both venues."