



Sent on behalf of Professor Perumal Nithiarasu, Associate Dean for Research, Innovation and Impact

Dear Colleagues,

Please read below about some of the Faculty's most recent success stories. We would particularly like to see more from our Professional Services staff for the next email!

STAFF NEWS

Swansea-led bid awarded a large allocation on leading national supercomputing facility

The proposal "Strongly interacting gauge theories beyond the Standard Model", co-led by [Dr Ed Bennett](#), [Professor Biagio Lucini](#), and [Professor Maurizio Piai](#), has been successful in the allocation of computing time at the STFC DiRAC High Performance Computing Facilities. Following this success in the highly competitive DiRAC16 call, the project will have access to world-class supercomputing facilities managed by the DiRAC consortium, and hosted at Cambridge, Leicester, and Edinburgh, for approximately 40 million core-hours CPU and 1.75 million NVIDIA A100 GPU-hours (the overall approximate value of the award being estimated at 2.2M GBP), to be used over 12 months. Furthermore, two Research Software Engineers have been allocated by DiRAC to work on the project for a total of 12 person-months. This award supports the science programme of a Swansea-led international collaboration, involving researchers at the University of Edinburgh and at the University of Plymouth, as well as in Korea and Taiwan, in developing a programme of intensive numerical study of new strongly coupled theories aimed at addressing the STFC science challenges in frontier physics, pertaining the nature of the Higgs boson and of dark matter, the existence of new phases of strongly interacting matter, and the role of gravitational waves in exploring phase transitions between such phases in the early universe.





Academic awarded prestigious RILEM medal

Congratulations to [Dr Jose Norambuena-Contreras](#), Department of Civil Engineering, who was recently awarded the prestigious [RILEM Robert L'Hermite Medal 2024](#).

This prize is awarded by RILEM, the International Union of Laboratories and Experts in Construction Materials, Systems and Structures - a most prestigious association in this field of research. The prize is awarded to researchers under 40 years of age who have made an exceptional contribution to the field of construction materials and structures.

Jose will receive the prize in person at the 78th RILEM Annual Week Conference in Toulouse, France, at the end of August.

[Read the interview](#)



Academic elected Fellow of IACM

Congratulations to [Professor Eduardo de Souza Neto](#), Head of Civil Engineering, for being elected Fellow of the International Association of Computational Mechanics.

The [IACM Awards](#) are presented biennially to recognize and reward outstanding contributions in the field of computational mechanics. They celebrate achievements across various career stages, from honoring senior researchers for lifetime achievements and mid-career researchers for exceptional accomplishments, to recognizing early-career researchers and graduate students for demonstrating outstanding young research talent.



Academic attends Deep Learning IndabaX conference

[Dr Andrew King](#), Department of Biosciences, was recently an invited speaker on the use of machine learning and artificial intelligence in ecology, at the ["Deep Learning IndabaX" conference](#) entitled "Ethical AI Horizons: Navigating the Impact and Future of AI Across Diverse Sectors" held 29 July - 2 August 2024, Silver Springs Hotel, Kampala.

Andrew's attendance was sponsored by the [Leeds Africa Hub](#), which promotes and enables collaboration between the University of Leeds and researchers across the African continent working in any areas that utilise data science, machine learning or artificial intelligence.



Physics Department hosts International Summer Workshops

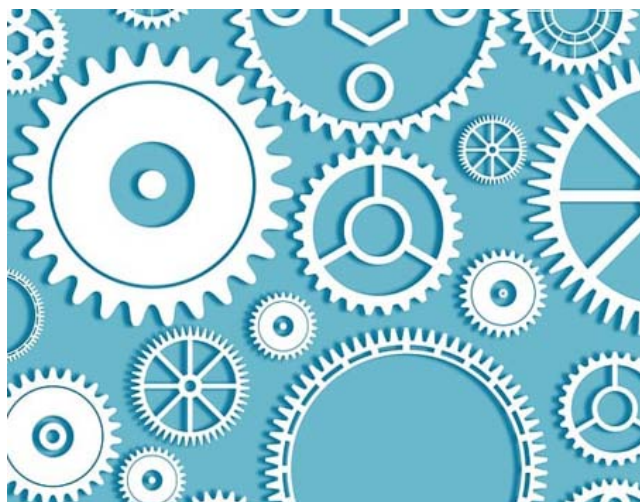
The [Particle Physics and Cosmology Theory Group](#) organised three international workshops this summer, welcoming over 100 international visitors from as far as Japan and Brazil.

[Dr Naeem Anwar](#) (Royal Society International Newton Fellow) and [Dr Timothy Burns](#), together with colleagues from Cambridge, Glasgow, and York, organised “Exotic Hadron Spectroscopy 2024”, bringing together the nuclear and particle physics communities to discuss the latest developments, both experimentally and theoretically, in exotic and conventional hadron spectroscopy. This fifth instalment in the series took place from the 2nd to the 4th of July, and was attended by 38 participants, with sponsorship from the Royal Society, the ECR Network of the Learned Society of Wales, UKRI-STFC, IPPP Durham, and Swansea University.



[Professor Dan Thompson](#), together with [Professor Tim Hollowood](#) and colleagues at ETH Zurich, Durham, and York, organised the fifth meeting in a series entitled “Integrability, Dualities and Deformations”. Taking place from the 15th to the 19th of July, the focus was on mathematical aspects in fundamental physics, exploring the rapid developments in understanding deformations of integrable theories. The meeting was sponsored by the Royal Society, the Isaac Newton Institute for Mathematical Sciences, UKRI-STFC and Swansea University, and brought together 82 researchers, from Europe, Asia, and the Americas.

Finally, a meeting “Machine Learning meets Lattice Field Theory” was organised by [Professor Gert Aarts](#), [Dr Matteo Favoni](#), and [Professor Biagio Lucini](#), from the 24th to the 26th of July, as a satellite meeting to the Annual Lattice Conference which took place in Liverpool in the following week. With 20 participants, there was ample scope for informal presentations and discussions. This meeting was sponsored by UKRI-STFC and Swansea University.



Discover Engineering Festival – A Sustainable Future

In September (17-19th) the Bay Campus will welcome around 200 year 9 students from local schools who will be attending the Discover Engineering Festival.

The festival is themed around net zero and how Materials Engineers are tackling global challenges like sustainability. Learners will be immersed in a day of lab activities, workshops and talks on Swansea University Bay Campus. Each student will be gifted a mini microscope to keep which they can use to enter our Marvellous Materials microscopy competition with prizes to be won! The Discover Engineering Festival is part of the Materials Engineering Outreach Workshops event programme funded by the [Ironmongers' Foundation](#).

Featured Event

New IPM 2024: Emerging Opportunities

This year's New IPM: Emerging Opportunities symposium will be held from the 1st – 3rd of

September at the university's Bay Campus. Attracting over 200 delegates, the symposium aims to bring together individuals from academia, industry and local government, to expand and encourage innovation in Integrated Pest Management.

This year's symposium explores emerging opportunities, highlighting advances and collaboration opportunities across sectors such as agriculture, horticulture, forestry, public health, and the environment.

There's still time to sign up! If you'd like to know more, take a look at their [website](#) and sign up through [Eventbrite](#).

Interested in working with the [NP BioHUB](#)? Get in touch on biohub@swansea.ac.uk

[Sign up...](#)



PROFESSORIAL INAUGURAL LECTURES 2024

Upcoming Lectures:

[Professor Daniel Thompson](#) and [Professor Ian Mabbett](#) - Wednesday 11th September 2024

[Save your spot](#)

REF2029 CANVAS HUB

A reminder that a new Canvas hub has been published. Developed by the REF Officers team, this is a central repository for the REF2029 documentation, guidance, resources and news.

The joining link is <https://canvas.swansea.ac.uk/enroll/BDY36G>. Please enable notifications as this site will be updated with guidance, news, consultations etc as they are received.

KEEP IN TOUCH!

If you are aware of any recent achievements to share, either for yourself or for any members of your team, we would love to hear about them! We're interested in stories from academic and professional services communities. Please email any news to Anna Ratcliffe (a.c.ratcliffe@swansea.ac.uk). **Deadline for submissions: 15th of each month.**

If you would like to promote a research event on the FSE Events webpage, please contact fse-reception@swansea.ac.uk

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