



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!

STUDENT SUCCESSES



Student presents at the International Mine Water Association Conference

Geography PhD student Aaron Todd recently presented a talk at the [International Mine Water Association Conference](#) in Christchurch, New Zealand, on his research at the abandoned Nantymwyn lead mine and the sources of metal pollution.

Aaron's presentation won first prize with the award including €1500, plus honorary membership of IMWA. The joining paper, "Using Tracer Injection and Synoptic Sampling, and Salt Dilution Flow to Gauge Metal Fluxes in a Temperate Watershed", will be published later this year.

Aaron's PhD My PhD is part-sponsored by Natural Resources Wales.

[Read more](#)



MSc dissertation publication

Congratulations to Lewis Palmer, an MSc student in Geography, who has just published his dissertation exploring the ability of the Met Office land surface model to simulate carbon isotope measurements from tree-rings which has implications for predicting carbon and water cycles.

[Read the paper](#)

STAFF NEWS

Mathematics paper published

[Dr Grigory Garkusha](#) from Mathematics Department has recently had the paper "Semilocal Milnor K-theory" published in the International Mathematics Research Notices journal. This is a top journal publishing papers of outstanding quality. The paper computes important motivic cohomology and K-theory groups and gives several criteria for the longstanding Beilinson-Soule Vanishing Conjecture and Beilinson-Parshin's Conjectures.

Academic awarded an EPSRC Fellowship

Dr Miles Morgan from the Welsh Centre for printing and Coating (WCPC), has been awarded a prestigious 3-year EPSRC Fellowship by the [National Fellowship in Fluid Dynamics](#) (NFFDy). The fellowship is aligned with the EPSRC UK Fluids Network and involves partners at University of Oxford, UCL, the PoreLab Centre of Excellence at University of Oslo and the Complex Flow Lab at Swansea.



Appointment successes

Congratulations to [Professor Emeritus Carole Llewellyn](#), Biosciences, who has been appointed as a member of the [BBSRC](#) Pool of Experts.

In addition, Carole has also been appointed with VIP status by [The European Algae Biomass Association](#), a forefront organisation in bringing the European and International algal sector together. This appointment is in recognition of their work in promoting the sector, and also expresses a form of thank you from the community, whether academic, industrial, or institutional.

A joint UK-Korean workshop goes to Seoul

A joint UK-Korean workshop entitled Artificial Intelligence & Machine Learning for Fundamental Science, recently took 11 researchers associated to the UKRI Centre for Doctoral Training in Artificial Intelligence, Machine Learning and Advanced Computing (AIMLAC), to Seoul, for a week-long exchange on research in and

applications of machine learning in South Korea's capital.

The meeting was co-organised by [Professor Seyong Kim](#), of Sejong University, and [Professor Gert Aarts](#), Director of AIMLAC, and was opened by Gareth Davies, Head of Science and Innovation at the British Embassy Seoul.



Highly Cited Researchers 2022

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The Highly Cited Researchers 2022 list, from Clarivate, has recognised Swansea University researchers who demonstrated significant influence in their chosen field or fields through the publication of multiple highly cited papers during the last decade.

The researchers on the list this year include [Emeritus Professor Nidal Hilal](#), Engineering, and [Dr Shuai Li](#), Mechanical Engineering.

The Highly Cited Researchers™ 2022 list uses both quantitative and qualitative analysis to identify individuals from across the globe who have demonstrated significant and broad influence in their chosen field or fields of research.

ASTUTE 2020+ contributes £541 million to the Welsh economy

The [ASTUTE 2020+](#) project which has generated an impressive £541 million contribution to the Welsh economy through Industry-Academia Collaboration in the Manufacturing Sector, will be replaced with a new ASTUTE Centre of Excellence.

Funded by the European Regional Development Fund (ERDF) through the Welsh Government and participating industrial partners and Higher Education Institutions, ASTUTE 2020+ provided support to over 540 Welsh enterprises, and created and safeguarded over 1020 jobs across Wales since its inception in 2010.

[Professor Johann Sienz](#), ASTUTE 2020+ Operation Director, said:

“Collaborative working via industry-academia partnerships has not only seen the development and delivery of many vital and valuable projects, but also the formation of key relationships that will continue to thrive and flourish for the benefit of the Welsh region beyond the scope of the ASTUTE 2020+ operation.”





Sport and Exercise Sciences expert gives interview on diabetes

[Professor Richard Bracken](#), Sport and Exercise Sciences, recently gave an interview to the [European Association for the Study of Diabetes](#) - Europe's largest organisation for research in diabetes. During the interview, Richard talks about weight loss, carbs, sex difference and more, outlining the next research questions needed for physical activity in type 1 diabetes.

[Watch the interview](#)

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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Nadolig Llawen • Merry Christmas



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