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590 experiments and 1080 user visits so far in 2023 – as much again to come after the summer.
Bonnes vacances!

GENERAL NEWS



Making our impact known

A new brochure highlighting the impact of some of the recent, exciting research being carried out with neutrons at ILL. ILL has been recently published. It features the impact of neutron science in the fields of health, energy, environment and climate change, quantum materials and particle physics. [Read more / download here](#)

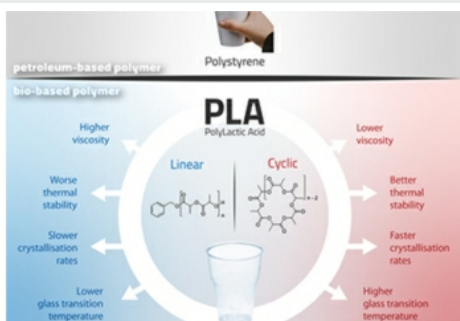


Another Endurance project - the ILL model has been upgraded!

The upgraded model of the ILL is now visible in the ground floor of the reception building ILL50. It displays new and upgraded instruments, anticipating the completion of the Endurance programme in 2024. Can you spot the differences?

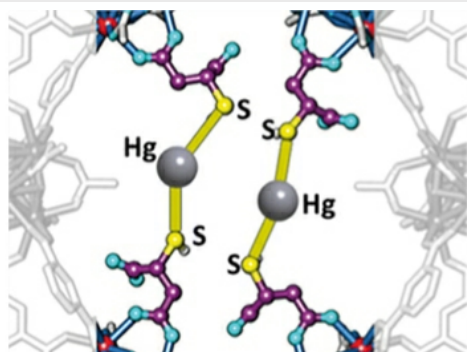
Photo: S. Monfront

HIGHLIGHTS AND SCIENCE NEWS



Neutron scattering: a valuable tool for the advancement of sustainable polymers

Despite the large variety of polymers, plastics are a major driver of synthetic polymer production, leading to the generation of about 400 million tonnes of plastic waste a year, of which less than 10% is currently recycled. The development of sustainable plastics, with equivalent properties to traditional, petroleum-based polymers, while remaining cost-competitive, is thus a research area of critical societal and environmental importance. The value of neutron scattering for research in this domain has been recently highlighted by experiments carried out at the ILL on biopolymers synthesised at the University of Bath. [Read more](#)



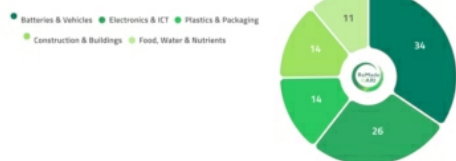
Amino-acid functionalised MOFs for metal recovery: a contribution to the circular economy

The transition from a linear to a circular economy is an integral aspect of transforming the EU into a sustainable, climate-neutral society. Through the circular concept of reduce-recover-recycle-reuse, a number of global challenges are tackled, including climate change, waste, pollution and biodiversity loss. Metals are at the heart of a circular economy due to their sometimes limited natural availability and almost indefinite recyclability. The development of a greener and more efficient capture and separation technology for the recovery of metals, in some cases valuable or hazardous, from aqueous solutions has been advanced by a successful collaboration between the ILL, the Basque Center for Materials, Applications & Nanostructures and the University of the Basque Country. [Read more](#)

Distribution (%) of the techniques assigned after internal review



Distribution of submitted proposals by Circular Economy areas



ReMade: a project for the circular economy

ReMade is a major European project that brings together many analytical techniques and large-scale facilities to develop new materials for the circular economy. Beam time and support is available to researchers from academia and industry. The graphics show the analysis of the call for proposals (there were over 30!) this spring in terms of sectors and techniques. Information about future calls can be found [here](#).

[MORE HIGHLIGHTS HERE !](#)

NEWS FOR USERS

Call for proposals

Next next proposal deadline will be on **15 September 2023**. Read the detailed information and follow the instruction on how to submit a proposal [here](#).

If you are not familiar with the proposal submission process, a tutorial is available [here](#).

Easy Access requests for short measurements and **DDT requests** for full experiments to be performed as soon as possible can be submitted at any time. Follow instructions [here](#).

The reactor operation schedule for 2023 is available on the [ILL website](#)

A new college is born!

College 5B focus group – and its associated subcommittee - has been now transformed in a new, separate one : College/subcommittee 5C "Nanoscale magnetism and superconductivity". It will mainly focus on nanomagnetism, vortex, flux line lattice diffraction and on SANS and reflectometry techniques. All the information are on the Colleges [web page](#).

Two-factor authentication system on ILL web applications

To strengthen the security of our services, a double authentication is needed when connecting on ILL web applications. 2-factor authentication is a security feature that requires users to provide two forms of identification before accessing their account. If you need help setting up the new authentication, please consult the guidelines available on the [User Club web page](#) and on the [ILL internet](#)

[Previous issues of the ILL newsletter](#)

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