Neutrons unlock the secrets of limoncello

Limoncello is a cloudy neon-yellow liqueur common across southern Italy. It belongs to the group of liqueurs displaying the so-called “ouzo effect”. Ouzo is normally a clear liqueur, but it turns milky and opaque when water is added, and can stay so for a considerable time. This is all explained by its mix of alcohol, oil and water. It’s the secret of this mixture that is interesting scientists, for oil and water usually repel each other – they have to be forced to mix by adding a detergent or similar surfactant. In ouzo and similar liqueurs, however, the alcohol seems to keep the oil and water together, until more water is added. The trick of maintaining water-repellent chemicals in an emulsion with water has attracted the interest of the specialty chemicals industry, which is always on the lookout for detergent-free solutions, to avoid the use of a surfactant, which can be hard to remove afterwards. Read more

Leaps and jumps in high-pressure small-angle neutron scattering techniques

We have been exploring the analytical power of neutrons at the Institut Laue-Langevin (ILL) for many decades, developing some of the world’s most advanced tools for investigating materials. Small-angle neutrons scattering (SANS) is one such technique that consists of directing a penetrating beam of neutrons at a sample and utilising the scattering pattern to infer its microscopic structure. Two recent studies that have emerged from the ILL demonstrate just how much potential there is for scientific progress through development of the SANS sample environment available, both utilizing the instrument D11. Read more

News for users

Reactor operations 2019 and 2020

There will be 3 cycles in 2019. The dates of the first cycle before the summer – during which the proposals accepted in November 2018 will be scheduled – are not yet finalised due to the installation of the D3 beam tube. More information will be available in February. The other two cycles will be after the summer holidays. One cycle is foreseen at the beginning of 2020 before a long shutdown to install new guides systems and instruments. Therefore there will be a proposal call and subcommittee meetings in autumn 2019.

Call for proposals

Next deadline for standard proposal submission is 13 February 2019 (midnight European time). The web system is now open all the year round. Proposals must be submitted via the ILL User Club, once you have logged in with your personal username and password. Detailed guidelines for the submission of a proposal at the ILL can be found here. In case of problems, you will receive support from the User Club team (club@ill.eu). Please allow sufficient time for any last minute issues. Accepted proposals will be scheduled in autumn 2019. Next deadline will be 16 September 2019, with beam time allocation early 2020.

New two-thirds rule

In normal proposal submission with scientists from non-member countries of the ILL, they should constitute no more than one-third of the experimental team. ILL scientists listed on the proposal are not taken into account in the calculation. Anyone can submit a proposal for a limited amount of Director’s Discretionary Time (DDT) either during the normal proposal round or at any other time. They will be awarded beam time on the basis of scientific excellence and urgency. Anyone from the European Union or partner country can currently submit a proposal and be awarded beam time through the FILL2030 European project beam time allocation.
New email address
The e-mail address accommodation@ill.fr (which handles the reservations for the Guesthouse and Résidence Marie Curie) is no longer valid. Your emails will be forwarded to user-office@ill.eu. In future, please use user-office@ill.eu.

Free "golden open access" publications
As part of the FILL2030 project, the ILL will finance about 40 publications with "gold open access" status by the end of 2020. Please fill out this short form to request an open access grant.
The funding will run on a ‘first come, first served’ basis. Check out the reminder note on requirements for ILL publications: what you need to know.

GENERAL NEWS

GDPR: Your consent on the ILL’s Personal Data Protection Policy
The ILL has just published the first version of its Personal Data Protection Policy on its website. This is a response to the entry into force on 25 May 2018 of the European Union’s General Data Protection Regulation. You are kindly invited to read the ILL policy very carefully, since you will be asked to give your consent to it the next time you log in to certain ILL applications. To comply with the new regulation we are obliged to obtain your consent. Please note that if you refuse you will not be able to use the application. You will not receive other requests for consent until/unless the Policy is substantially updated.

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www.ill.eu
communication@ill.eu
To unsubscribe follow instructions here.