

The LAHN project keeps growing, and so are its news. We welcome you to our new communication tool: LAHN's newsletter, designed so you can get an update of the projects' news at a glance, as well as to gather incoming information from neutron sources abroad. To learn more, just follow the links. We hope you enjoy it!



Training and Education

Registration is now open for ETNA 2017

This new edition of the School on Advanced Neutron Scattering and Imaging Techniques (ETNA|2017) will take place from October 30th to November 10th at Ezeiza Atomic Center, as a postgraduate course with the institutional endorsement of the Dan Beninson Institute. The school will last two weeks, with both theoretical and practical lessons that will take place at Ezeiza and Constituyentes Atomic Centers. If you wish to participate, please complete the [registration form](#). Registration will remain open until August 1st as there are limited places available.

ETNA

EDICIÓN
2017

ESCUELA DE TÉCNICAS NEUTRÓNICAS APLICADAS

Centro Atómico Ezeiza. 30 de octubre al 10 de noviembre 2017.



Management

Members of the LAHN management team visited the construction site of the RA-10 reactor at Ezeiza, Buenos Aires, where the excavation has begun for the guides hall (experimental hall)

The first casting of heavy concrete fill at the future experimental hall, where the instruments of Phase II will be located, is being planned for August.



Outreach and Public Awareness

The LAHN project will be presented at the UTN and at the INGEBI next July

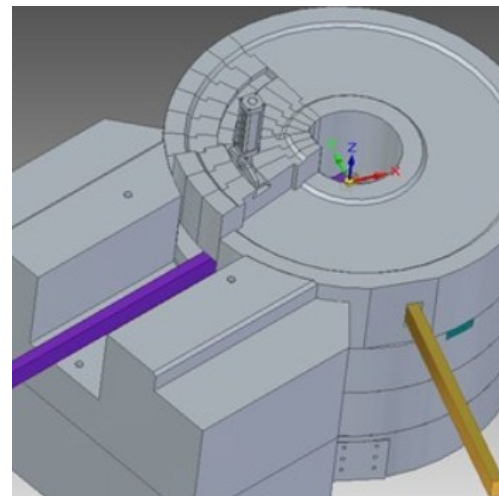
The LAHN Outreach Program continues to visit scientific institutions all around the country. In June we visited the INTA (National Institute for Agriculture Technology) and soon we will visit the National University of Technology UTN (with live broadcasting) as well as CONICET's Biology and Genetics Institute INGEBI. In addition, a series of half-day events are being organized to report the progress of the project among researchers in Ezeiza and Constituyentes Atomic Centers.



Instrument development

Progress in the mechanical design of ANDES

A presentation of the advances in the mechanical design of ANDES took place on June 27th / 28th in the Meeting Room of the Engineering Laboratory at Bariloche Atomic Center.





Postdoc position in physical chemistry at the Department of Pharmacy, Uppsala University

A postdoc position in physical chemistry at the Department of Pharmacy, Uppsala University, will be open for application during the fall year 2017.

Project: Amphiphilic Drug Self-Assemblies Studied by Scattering Techniques

The postdoc position is in the research group Pharmaceutical Physical Chemistry. Our research aims at clarifying the relationships between the molecular structure of drug molecules and excipients, their physical-chemical properties and behavior in drug formulations and delivery systems such as microgels, vesicles and microemulsions.

The project will be part of a new initiative to study the self-assembling properties of amphiphilic drugs in solution and their interaction with other amphiphilic self-assemblies and charged polymer networks. The group is currently setting-up advanced research equipment for combined static and dynamic light scattering techniques. The postdoc project will be focused on structural investigations by means of light scattering and small-angle x-ray and neutron scattering techniques.

Suitable background for the project is a PhD in physical chemistry or related areas and expertise in dynamic and static light scattering as well as experience of small-angle scattering techniques at large scale facilities.

For more information, contact: Prof. Per Hansson per.hansson@farmaci.uu.se Phone: +46(0)762736768

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PhD position Institut Laue Langevin (ILL-Grenoble)/Copenhagen University structural biology

We are looking for a highly motivated PhD student for an exciting project entitled "Protein Dynamics at the atomic level". It is a very interdisciplinary project that aims at pushing the boundaries for applications of neutrons in structural biology and paving the way for the use of neutron diffraction to extract information on protein and water dynamics at the atomic level.

The student will be enrolled at the University of Copenhagen under the supervision of Annette Langkilde and Sine Larsen and the PhD project will be primarily based at the ILL in Grenoble. More information is available below and on the website https://www.ill.eu/fileadmin/users_files/media/careers/doc/phd_programme/PhD_advert-larsen-2017.pdf

Postdoc position at Lund University, Department of Experimental Medical Science

I would like to advertise the following postdoc position at Lund University, Department of Experimental Medical Science, Faculty of Medicine, Sweden.

SANS project description: Nucleic acids constitute one of the main components of viruses by molecular weight, and the viral genome is often strongly confined into a small volume of the capsid. This is true for most prokaryotic viruses such as double-stranded (ds) DNA/RNA phages, dsDNA archaeal viruses as well as many eukaryotic viruses (e.g. herpesviruses and reoviruses). The length of ds-genome in those viruses is several hundred times longer than the diameter of the capsid. We recently found that this internal DNA stress leads to 30 atmospheres capsid pressure in human Herpesviruses. This genome pressure is responsible for DNA ejection into a cell nucleus during infection. The aim of this project is to explain how the physically stressed state of the confined viral DNA directly affects the infectious cycle by analyzing structure of virally encapsidated genome. The main experimental approach will be Small Angle Neutron Scattering (SANS).

Please contact Prof. Alex Evilevitch (Alex.Evilevitch@med.lu.se)



Walter Haelg Prize awarded to Prof. Juan Colmenero

Dear Colleagues

It is for me a great pleasure to announce that the Walter Haelg Prize 2017 has been awarded to Professor Juan Colmenero from the University of the Basque Country, in Spain. The Prize will be delivered in a special session at the next ICNS in Daejeon.

Kind regards

Christiane Alba-Simionesco—ENSA Chair



10th ILL Annual School on Neutron Diffraction Data Treatment using the FullProf Suite, 16-20 October 2017, Grenoble

FPSchool aims to contribute to the training of scientists in treatment of X-ray and neutron diffraction data. The school is based on intensive hands-on sessions using the computer programs of the FullProf Suite. The lectures and tutorials will provide the essential tools necessary for an efficient use of the FullProf Suite at an intermediate level. In addition to general applications, Rietveld method, multipattern analysis, microstructure determination and refinement, ionic conduction diffusion paths calculations and magnetic structure determination will be given particular attention.

Email: FPSchool@ill.eu

URL: <https://indico.ill.fr/2017FullProfSchool>

São Paulo School on Light, Neutrons and X-Rays. (17/07/2017 - 21/07/2017)

Other upcoming events

Erice School on Neutron Science and Instrumentation: Neutron Precession Techniques—July 1-8, 2017, Erice, Sicily, Italy

NOP2017: International Conference on Neutron Optics

July 5-8, 2017, Nara Kasugano International Forum, Japan

ICNS 2017: 9th International Conference on Neutron Scattering—July 9-13, 2017, Daejeon Convention Center, Korea

NXS 2017: National School on Neutron and X-ray Scattering—August 5-19, 2017, Argonne (IL) and Oak Ridge (TN), USA

Neutron Scattering Applications to Hydrogen Storage Materials—August 7-17, 2017, Berlin, Germany

PSI Master School 2017—September 4-15, 2017, Villigen, Switzerland

21st Laboratory Course Neutron Scattering—September 4-15, 2017, Jülich and Garching/Munich, Germany

EMBO Practical Course: Small angle neutron and X-ray scattering from proteins in solution—September 11-15, 2017, Grenoble, France

XNPIG2017: 4th International conference on X-ray and Neutron Phase Imaging with Gratings—September 12-15, 2017, Villigen, Switzerland