

A new academic year is ahead of us and the LAHN team gets ready for facing the challenges of 2018. We hope you will following the project progress and enjoy these newsletters. Remember to contact us if you have any content you would like to share in this "neutron world". Have an excellent 2018!

The LAHN Team



Training and Education



A member of the LAHN project participated in the Workshop SECoP: Sample Environment Communication Protocol

During February, Dr. Manuel Suarez Anzorena joined the Workshop on Sample Environment Communication Protocol where he presented the LAHN project to the participants from different neutron sources with the aim of strengthening bonds between laboratories. Dr. Suarez Anzorena is currently collaborating with the Sample Environment group in FRM-II, in the framework of a training programme financed jointly by the CNEA and BEC.AR.

The Workshop was held at the ILL, in Grenoble, France within the [Program SI-NE2020 WP7](#).

The LAHN team congratulates Eng. Fernando Moreira for a great performance during his training stay at Jülich

Fernando finished his training last December, working at the "Projects Management" Group of the Jülich Forschungszentrum — Institute of Technology ZEA-1. Back to his tasks within the LAHN project, we interviewed Fernando to learn more about his stay in Germany.



Tell us about your tasks at Jülich

Being a mechanical engineer, I assisted in the design of components for three neutron instruments designed by the Projects Management Group: KWS1; T-REX and DNS.

Which aspects of your work there were most remarkable to you?

The amount of experience in the development of instrumentation as well as scientific and industrial applications. I appreciated the predisposition to share this experience and their know-how; the definition of clear goals and a collaborative atmosphere. Even the well-structured coffee breaks for sharing news with co-okies and chocolates.

Which were the most different ways of conducting your work in Germany?

I cannot clearly identify any difference in the way of conducting everyday tasks. But I got the impression that they work less because tasks are better organised, there are responsables assigned to each task and the work is more compartmented; therefore the iterations for solving a problem are minimized and there is also less stress about new problems. It is true

that they have a solid human resources structure where senior scientists assist and give support to novel ones; this is not still so well-defined in my group in Argentina.

Has this experience changed your perception about the LAHN project?

I have now a clearer picture of LAHN's main objective and how much work and investment needs to be done to have a world-class facility. I also perceived how the guides hall can be fully exploited, hosting instruments from different institutions and universities that can profit from such an important investment.

How do you think this experience will impact on your work at the LAHN team?

I hope that I can apply the things I've learnt so I can collaborate in the design of the future instruments at LAHN, such as a SANS machine, always from the perspective of mechanical aspects.



Outreach and Public Awareness

The agenda for the communication activities is almost ready

Keep track of the events and institutions we will visit this year to present the LAHN and the applications of neutron scattering and imaging techniques. Visit [our website](#).





The guides hall that will host the LAHN has its new concrete slab

By the end of december and during late afternoon hours due to the high temperatures in Buenos Aires, the concrete slab for the basement of the neutron guides hall was poured. The building will host the instruments of Phase II, served by the cold and thermal guides coming from the reactor.



To fill the first half of the basement, 180 trucks arrived at the construction site with the concrete. In this way the accumulated



progress of the construction reached 48% in December 2017. During february 2018, the final assembly of the reactor pool was achieved.



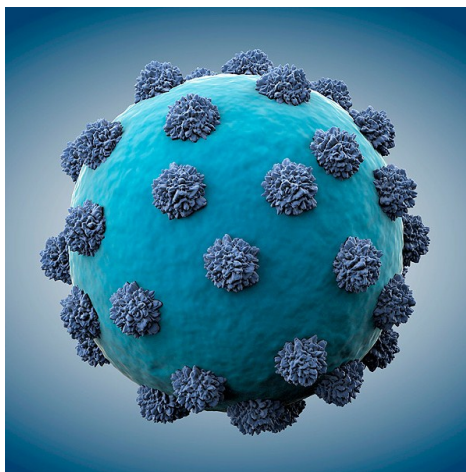
INTERNATIONAL CONFERENCE ON INSTRUMENT DESIGN AND ENGINEERING

Last December, the leader of the mechanical design team for the ANDES diffractometer, Agustín Coleff, participated at DENIM VI: Design and Engineering of Neutron Instruments Meeting, organised by ANSTO in Sydney, Australia. He presented the most recent progress of ANDES mechanical design; and had the opportunity to meet colleagues and discuss state of the art engineering aspects of neutron instrumentation designs around the world.



Application of neutron reflectometry to study the hepatitis C virus

The website neutronsources.org has highlighted a recent study conducted at the [Institute Laue Langevin](#) using neutron reflectometry at the FIGARO instrument. Researchers have studied the p7 protein, that plays a major role in the release of the HCV virus; in order to understand the integration and structure of this protein in its native environment, a biological membrane. This provided a simple and efficient method to complement with more complex protein crystallography studies. You can access the complete article at *Nature Scientific Reports* by clicking [here](#).



Schools and Courses

Erice School on Neutron Science and Instrumentation—[“Neutrons for Chemistry and Materials Science Applications”](#) Erice, Sicily from July 4-13, 2018.

Seventh Annual Niels Bohr International Academy Workshop-School on ESS Science (NBIAS: Deciphering the hidden dynamics of Soft Matter) June 25 - June 29, 2018 at the Niels Bohr International Academy in Copenhagen.

Scholarships and Permanent Positions

Neutron Scattering Data Analysis in Sydney, Australia — [Software Engineer / Data Analysis Engineer](#):

Contact: Dr Nick Hauser
Computing & Electronics Group Leader.
ACNS
eResearch Architect. NSTLI
Australian Nuclear Science and Technology Organisation
Tel +61 2 9717 9474
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Research associate (Postdoc) in the field of [polarized neutron scattering on magnetic materials](#)

Nanomagnetism Group, Faculty of Science, Technology and Communication, University of Luxembourg.



- **[9th Workshop on Neutron Scattering Applications in Structural Biology](#)**
June 11-15, 2018, Oak Ridge, TN, USA
- **[PNCMI 2018: International Conference on Polarised Neutrons for Condensed-Matter Investigations](#)**
July 3-6, 2018, Milton Hill near Abingdon, UK
- **[SXNS15: 2018 International Conference on Surface X-ray and Neutron Scattering](#)**
July 15-19, 2018, Pohang Light Source, Republic of Korea.
- **[Gordon Research Conference Scientific Methods in Cultural Heritage Research](#)**
July 22-27, 2018, Castelldefels, Spain.
- **[SAS2018: XVII International Conference on Small-Angle Scattering](#)**
October 7-12, 2018, Traverse City, MI, USA.
- **[Neutrons and Food 2018](#)** October 16-19, 2018, Sydney, Australia
- [More events](#)