

5. EVENTS

FLNP SEMINARS



L. Cser (BNC, Hungary)

- **Belushkin A.V.** (FLNP, JINR) (18.01.2012)
Modernized IBR-2 high flux pulsed reactor: current state and future prospects.
- **Kozlenko D.P.** (FLNP, JINR) (18.01.2012)
Spectrometers complex of the IBR-2M reactor: current state and directions of development.
- **Podurets K.M.** (NRC “Kurchatov Institute”) (18.01.2012)
Neutron and complementary imaging: methods and applications.
- **Strobl M.** (ESS) (18.01.2012)
Potential of neutron imaging at a (long) pulse source.
- **Nikitin V.A.** (LHEP, JINR) (25.01.2012)
Fundamental particle physics – a bird's-eye view.
- **Khiem L.H.** (Vietnam Institute of Physics) (05.04.2012)
Introduction to Vietnam Academy for Science and Technology. Present status of nuclear research in Vietnam.
- **Cser L.** (BNC, Hungary) (18.02.2012)
Overview on the scientific activity at the Budapest Neutron Center.
- **Harrison A.** (ILL, France) (09.10.2012)
Recent developments and new opportunities for science at ILL.
- **Maksimenko S.A.** (RINP of BSU, Belarus) (07.12.2012)
Nanocarbon based applied nanoelectromagnetics.

COMMEMORATION



In September 2012 one of the JINR' alleys was named after Polish Professor Jerzy Antoni Janik. Since the establishment of the Laboratory of Neutron Physics he directly

participated in the creation of first experimental facilities for neutron spectroscopy investigations and organized a Polish neutron group in LNP. Being an outstanding scientist and organizer of scientific research, for many years Prof. J. Janik was the Chairman of the Neutron Committee and the Member of the JINR Scientific Council.

Prof. J. Janik trained and inspired several generations of scientists who continue their research in JINR and on other neutron sources in the world.

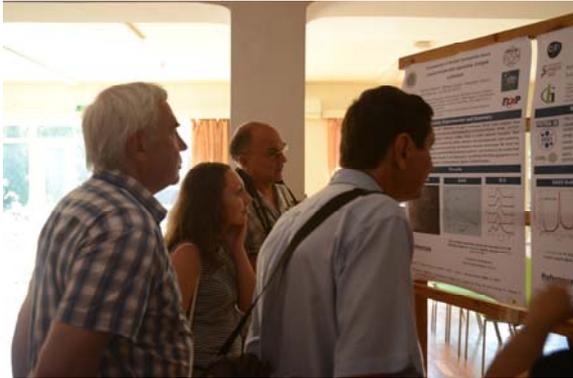
CONFERENCES AND MEETINGS

The 20th edition of the traditional **International Seminar on Interaction of Neutrons with Nuclei: "Fundamental Interactions & Neutrons, Nuclear Structure, Ultracold Neutrons, Related Topics"** took place in Alushta, Ukraine on May 21-26. The papers presented covered a wide range of issues of fundamental and applied nuclear physics and ecology studied with neutrons.

From left to right: V.V. Nesvizhevsky (ILL France), L. Cser (Hungary), A.V. Strelkov (JINR) at ISINN-20.



The **International Summer School and Workshop "Complex and Magnetic Soft Matter Systems: Physico-Mechanical Properties and Structure"** (CMSMS'12) was held in Alushta, Ukraine on September 3-7. The School-Workshop was organized by FLNP JINR together with the West University of Timisoara, Institute of Continuous Media Mechanics of Ural branch of Russian Academy of Sciences (Perm), Institute of Physics and Nuclear Engineering "Horia Hulubei" (Bucharest) and Romanian Society of Physics.



CMSMS'12. Poster session.

On the initiative of the Romanian representative in ENSA the International Neutron Center FLNP JINR (Dubna) was chosen to be the venue for the **39th European Neutron Scattering Association Meeting** (October 8-9, 2012).

EDUCATIONAL PROGRAM

The objective of the FLNP educational program is the training of specialists in the field of neutron methods for condensed matter and nuclear physics research and in the field of electronics and automatics of experimental installations. More than twenty students from different Russian universities performed their term and diploma theses in FLNP during 2012.

Three scientific schools for advanced training of young scientists were organized by or in collaboration with the Frank Laboratory of Neutron Physics in 2012.

These Schools continued the tradition of the FLNP Schools for young scientists devoted to the fundamental and applied aspects of neutron research in the fields of condensed matter physics, materials science and related topics in order to attract young scientists to the further development and exploitation of the FLNP facilities.

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V Higher Courses of CIS Countries for young scientists, postgraduates and students in modern methods of research of nanosystems and materials **"Synchrotron and Neutron Investigation of Nanosystems"** (SYN-nano-2012) (June 17 – July 5, Moscow – Dubna) were organized together with the National Research Centre "Kurchatov Institute" and the RAS Institute of Crystallography (with the financial support of the Intergovernmental Foundation for Education, Scientific and Cultural Cooperation of the CIS Member States (IFESCCO) and the Ministry of Education and Science of the Russian Federation).

SYN-nano-2012. Poster session.



IV International Neutron School for Young Scientists and Students **"Modern Neutron Diffraction Studies: Interdisciplinary Research of Nanosystems and Materials"** (September 24-28, Dubna) About eighty students, PhD students and young scientists under the age of 35 from Russia, Ukraine, Belarus, Armenia, Poland, Slovakia and other countries took part in the work of the School (with the financial support of the Ministry of Education and Science of the Russian Federation).

A group of students at the DN-12 spectrometer of the IBR-2 reactor.

III International Scientific School for Young Scientists and Students **"Instruments and Methods of Experimental Nuclear Physics. Electronics and Automatics of Experimental Facilities"** (September 08-12, Dubna). Fifty-three students and young scientists from seven European and Asian countries took part in the third School (with the financial support of the Ministry of Education and Science of the Russian Federation).

The student practical laboratory work in the Department of the IBR-2 spectrometers' complex.



Participants of the Schools had ample opportunity to establish new scientific contacts with other researchers to enrich their experimental ideas with new research methods. During the guided excursion to the IBR-2 high-flux pulsed reactor and IREN neutron source, the participants familiarized themselves with these unique facilities. The Schools were not confined only to the lectures and practical laboratory work. The participants were encouraged to present their own investigations in poster sessions and short oral presentations.



FLNP is always a partner of the JINR University Centre in organizing visits to the Laboratory neutron sources for participants of the Scientific School for school teachers from the Russian Federation and other JINR Member States and scientific excursions for pupils from high schools.

Pupils of high school N18 of Novocheboksarsk, Russian Federation in the IREN control room.

The FLNP successfully collaborates with the JINR University Centre in the organization of summer practical work for students from the JINR Member States (Belarus, Czech Republic, Poland, Romania, Slovakia,) and Associated countries (Egypt, South Africa). Lectures and excursions to the FLNP facilities for teachers of physics from Russia and the JINR Member States were organized as well.

Students from Poland during their summer practice at the NERA spectrometer of the IBR-2 reactor.



The FLNP leading scientists give lectures in the Dubna University and the Dubna branch of D.V. Skobeltsyn Institute of Nuclear Physics (*SINP*) of the Moscow State University.

VISITS AT OUR FACILITIES

The delegation of the Vietnam Academy of Science and Technology (VAST) headed by Prof. Chau Van Minh, VAST president, visited the FLNP facilities during the working visit to the JINR in July, 2012.

The members of the Innovation Working Group of the U.S.-Russia Bilateral Presidential Commission visited JINR in October, 2012. The potential use of the FLNP research facilities in innovation programs was discussed during their visit to the IBR-2 reactor.

Visit of the EU delegation of businessmen in the framework of the Presidential Program of Management Training in October, 2012.

Visit to JINR of the representatives of the Polish industry in November, 2012.



American delegation in the experimental hall of the IBR-2 reactor.

