

4. PRIZES AND AWARDS

MISCELLANEOUS



Anghel L.

The EuNPC 2012 Poster Prize was awarded to L. Anghel (Institute of Chemistry of ASM, Chisinau, Moldova) for the best poster presentation in Applications of Nuclear Physics entitled "Molecular Dynamics Simulation of Diferric Human Lactoferrin" co-Author **R. Erhan** (Horia Hulubei National Institute of Physics and Nuclear Engineering - IFIN HH, Bucharest, Romania)

At every session of the Programme Advisory Committees for Condensed Matter Physics and Nuclear Physics a competition is organized for the best poster presented in the poster session for young scientists. The poster "Moss biomonitoring in Albania using GIS technologies" presented by Z. Goryainova was selected as one of three best posters by the 36th session of the PAC for Nuclear Physics and recommended for oral presentation at the JINR Scientific Council.

JINR AND FLNP FELLOWSHIPS

Since 2010, the Association of Young Scientists and Specialists of JINR has been annually organizing a competition for scholarships in four categories. In 2012 the scholarships were awarded to:

- | | |
|------------------------------------|--------------------------------|
| 1. grant for young PhD researchers | 3. grant for young specialists |
| R.N. Vasin | A.V. Kutergin |
| A.I. Ivankov | M.V. Bulavin |
| | E.V. Lukin |
| 2. grant for young researchers | K.A. Mukhin |
| Yu.V. Alekseenok | |
| A.E. Verkhoglyadov | 4. grant for young workers |
| I.I. Zinicovscaia | D.V. Kokunov |
| G.V. Kulin | D.A. Korovin |

Since 2002, in FLNP a scholarship named after Academician of the USSR Academy of Sciences and first Director of the Laboratory of Neutron Physics **I.M. Frank** has been established in order to stimulate scientific and methodical research of young scientists.

In 2012 I.M. Frank scholarships were awarded to:

- | | | |
|------------------------------|-------------------------------|--------------------------------|
| • In Neutron Nuclear Physics | • In Condensed Matter Physics | • In Methodical Investigations |
| S.V. Goryunov | S.E. Kichanov | I.V. Bazhazhina |

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Since 2006, a scholarship has been founded to immortalize the memory of outstanding scientist, Corresponding Member of the USSR Academy of Sciences **F.L. Shapiro**. The scholarship is awarded annually to two young FLNP employees in the following research directions: UCN physics; polarized neutrons; neutron spectroscopy.

In 2012 F.L. Shapiro scholarships were awarded to:

- In «Polarized Neutrons»
A.I. Ivankov
- In «Neutron Spectroscopy»
Z.I. Goryainova

FLNP PRIZES

Nuclear Physics:

Second Prize

«Quantum aspects of binary and ternary fission»

Authors: W.I. Furman, A.L. Barabanov

Third Prizes

«Possible neutron experiments to search for new spin-dependent forces»

Authors: Yu.N. Pokotilovski.

«A New Design of Fission Detector for Prompt Fission Neutron Investigation »

Authors: Sh. Zeynalov, O. Zeynalova, M.A. Nazarenko, F.-J. Hamsch, S. Obersted

Applied and methodical research:

First Prize

«The world's first pelletized cold neutron moderator»

Authors: V.D. Ananiev, A.A. Belyakov, A.A. Bogdzel, M.V. Bulavin, A.E. Verhoglyadov, E.N. Kulagin, S.A. Kulikov, A.A. Kustov, K.A. Mukhin, T.B. Petukhova, A.P. Sirotin, A.N. Fedorov, E.P. Shabalin, D.E. Shabalin, V.K. Shirokov

Second Prize

«Neutron spectrometer based on a proton telescope with electronic collimation of recoil protons»

Authors: V.M. Milkov, Ts.Ts. Panteleev, A.A. Bogdzel, V.N. Shvetsov, S. Kutuzov, S.B. Borzakov, P.V. Sedyshev

Encouraging prizes

«Data representation of off-specular scattering and spatial neutron beam-splitting»

Authors: S.V. Kozhevnikov, F. Ott, F. Radu

«Correlation Time-of-Flight Spectrometry of Ultracold Neutrons»

Authors: M.I. Novopol'tsev, Yu.N. Pokotilovski

Condensed matter physics:

First Prize

«Theoretical and experimental investigations of neutron waveguides and their application for the development of probe neutron microscopy».

Authors: V.K. Ignatovich, S.V. Kozhevnikov, Yu.V. Nikitenko

Authors: D.P. Kozlenko, S.Ye. Kichanov, A.V. Belushkin, S.G. Dzhabarov, B.N. Savenko, Ye.V. Lukin

Third Prize

«Complementary studies of mesomorphic and physicochemical properties of a novel antiferroelectric (S)-1-methylheptyl-4-(4'-decyloxybiphenylthiocarboxy)-benzoate (MHPSBO10)»

Authors: K. Druzbecki, E. Mikuli

Second Prizes

«High pressure effect on the structure and atomic dynamics of molecular and ionic ferroelectrics»

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JINR PRIZES

JINR Prizes are awarded annually for the best scientific, technical, methodical and applied research studies. In 2012, the following studies performed by the FLNP specialists or in collaboration with the employees from other JINR Laboratories or scientific institutions were awarded with the prizes of various degrees:

Scientific and technical applied research:

First prize

«Physical and power start-up of the modernized IBR-2M research reactor»

Authors: V. D. Ananiev, A.V. Vinogradov, A.V. Dolgikh, L.V. Edunov, Yu.N. Pepelyshev, A.D. Rogov, S.A. Tsarenkov, A.A. Zaikin, I.T. Tretiyakov, N.V. Romanova

Second prize

«The multimeter method of promissory functional materials investigation: quantum chemistry, neutron scattering and optical spectroscopy»

Authors: V.Yu. Kazimirov, M.B. Smirnov, A.M. Balagurov, I.V. Natkaniec

Experimental physics research:

Second Prize

«Refraction and reflection of polarized neutrons from non-collinear and non-coplanar magnetic systems»

Authors: V.L. Aksenov, V.I. Bodnarchuk, V.K. Ignatovich, S.V. Kozhevnikov, D.A. Korneev, Yu.V. Nikitenko, A.V. Petrenko, F. Radu, A.A. Fraerman

JINR AWARDS FOR YOUNG SCIENTISTS AND SPECIALISTS

JINR awards for young scientists and specialists for the best scientific, technical, methodical and applied research studies are annually conferred. The competition for JINR awards is held in the framework of the Scientific conference of Association of Young Scientists and Specialists (AYSS)

Scientific-technic research in applied work

First prize

I.A. Bobrikov

In-situ neutron diffraction analysis of Li-ion batteries

Encouragement prize

A.V. Nagorny

«The structure of nonpolar magnetic fluids with an excess of the stabilizer molecules according to the small-angle neutron scattering data»