

4. PRIZES AND AWARDS

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MISCELLANEOUS



Shvetsov V.N.

The Group Achievement Award of the National Aeronautics and Space Administration of USA for exceptional accomplishments in developing and operating the Lunar Reconnaissance Orbiter spacecraft and instruments

Tropin T.V.

Investigation and Description of Cluster Growth in Polar Solutions of Fullerene 60
Winner of the 2011 Competition for grants of the RF President for State support of young Russian scientists in the section “Physics and Astronomy”

Project “Cryogenic moderator-cold neutron source for investigation of nanostructures”

Winner in the «All-Russian Contest to support high-technology innovation youth projects» (organized by the National Association of Innovations and Development of Information Technologies with the support of the Russian Academy of Sciences)

Project “Creation of a cold bead neutron moderator on the IBR-2 fast pulsed reactor for investigation of nanomaterials and condensed matter”

Winner in the All-Russian Contest of innovation youth projects «Zvorykinsky award» in the nomination «Nuclear technologies»

The following FLNP employees were awarded with:

- badge “Academician I.V. Kurchatov”, class 4 – FLNP Chief Engineer **A. V. Vinogradov**
- badge of honor “For Service to Dubna” – FLNP Directorate Adviser **V. D. Ananiev**
- title “Honorary JINR Staff Member – FLNP leading researcher **Yu. N. Pepelyshev**

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.

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T. Murugova's presentation at the 110th Session of the JINR Scientific Council, September 15-16, 2011

The posters "Structure peculiarities of α -crystalline studied by small-angle neutron and X-ray scattering" presented by T. Murugova and "Microbial synthesis of silver nanoparticles *Streptomyces glaucus* and *Spirulina platensis*" presented by I. Zinikovskaia were selected as the best posters by the 34th session of the PAC for Condensed Matter Physics and for Nuclear Physics, respectively, 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 2011 the scholarships were awarded to:

- | | |
|---|---|
| <p>1. grant for young PhD researchers
S.E. Kichanov
N.O. Ryabova</p> <p>2. grant for young researchers
I.A. Bobrikov
A.V. Rogachev
Yu.S. Pankratova
D.V. Kustov</p> | <p>3. grant for young specialists
A.V. Kutergin
M.V. Bulavin
K.V. Udovichenko</p> <p>4. grant for young workers
D.V. Kokunov
M.A. Kulikov</p> |
|---|---|

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 2011 I.M. Frank scholarships were awarded to:

- | | | |
|--|---|--|
| <ul style="list-style-type: none"> • In Neutron Nuclear Physics
I.I. Zinikovskaia | <ul style="list-style-type: none"> • In Condensed Matter Physics
A.V. Rogachev | <ul style="list-style-type: none"> • In Methodical Investigations
L.A. Taibov |
|--|---|--|

Since 2006, two scholarships have been founded to immortalize the memory of outstanding scientist, Corresponding Member of the USSR Academy of Sciences **F.L. Shapiro**.



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One of them is awarded annually to two young FLNP employees in the following research directions: UCN physics; polarized neutrons; neutron spectroscopy.

In 2011 F.L. Shapiro scholarships were awarded to:

- In «Polarized Neutrons»
V.I. Petrenko
- In «Neutron Spectroscopy»
Yu.V. Alekseenok

The other is awarded each semester to one student and one PhD student of the University Centre carrying out research studies in FLNP.

The following FLNP employees received this scholarship in 2011:

- Students Samoilenko S.A.
 Tomchuk A.V.
- PhD student Verkhogliadov A.Ye.

JINR PRIZES*

JINR Prizes are awarded annually for the best scientific, technical, methodical and applied research studies. In 2011, the following studies performed by the FLNP specialists or in collaboration with the employees of other Laboratories were awarded with the prizes of various degrees:

*the authors from FLNP are marked in bold

Experimental physics research:

First Prize

«Observation of the new type of ternary decay of heavy nuclei»

Authors: D.V. Kamanin, Yu.V. Pyatkov, A.A. Alexandrov, I.A. Alexandrova, V.E. Zhuchko, N.A. Kondratjev, **Yu.N. Kopatch**, E.A. Kuznetsova, W. Trzaska, W. von Oertzen

Scientific and technical applied research:

Second prize

«Proposal and investigation of new materials - low-temperature fluoropolymers for the ultracold neutrons storage chambers with very low neutron losses used in the new precision neutron lifetime measurement»

Author: **Yu.N. Pokotilovski**

Encouraging prizes

«Handbook of Neutron Optics»

Authors: Masahiko Utsuro, **V.K. Ignatovich**

«The spin-state transitions and magnetic ordering in complex cobalt oxides»

Authors: **D.P. Kozlenko**, **N.O. Golosova**, **B.N. Savenko**, **S.E. Kichanov**, **E.V. Lukin**, **V.Yu. Kazimirov**, Z. Jirak



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FLNP PRIZES

Nuclear Physics:

First Prize

«Measurement of $^{149}\text{Sm}(n,a)^{146}\text{Nd}$ reaction cross section in the neutron energy range of 4 – 7 MeV»

Authors: Yu.M. Gledenov, G. Chjan, G. Huuhenhuu, M. Sedysheva, P. Shalansky, P. Keller, Yu.N. Voronov

Second Prize

«Dynamic effects in the interaction of neutron waves with normal and doubly refracting samples moving with acceleration»

Authors: A.I. Frank, D.V. Kustov, G.V. Kulin

Third Prize

«A proposed experiment on ball lightning model»

Authors: V.K. Ignatovich, F.V. Ignatovich

Applied and methodical research:

First Prize

«Differential time-of-flight spectrometer of very slow neutrons»

Authors: Yu.N. Pokotilovskyi, M.I. Novopoltsev, P. Geltenbort, T.A. Brenner

Second Prize

«Investigation of structural aspects in the formation of oxide nanoparticles in silicate glasses doped with cerium and titanium oxides»

Authors: S.A. Samoilenko, S.Ye. Kichanov, A.V. Belushkin, D.P. Kozlenko, V.M. Garamus, Ye.A. Trusova, G.P. Shevchenko, V.S. Gurin, L.A. Bulavin, S.K. Rakhmanov, B.N. Savenko

Encouraging prize

Author: Sh. Zeynalov.

Condensed matter physics:

First Prize

«Theoretical and experimental investigations of propagation of polarized neutrons in a layered structure placed in crossed static and oscillating magnetic fields»

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

Authors: A.M. Balagurov, L.G. Mamsurova, I.A. Bobrikov, To Than Loan, V.Yu. Pomyakushin, K.S. Pigalskyi, N.G. Trusevich, A.A. Vishnev.

«Effects of formation of clusters and charge transfer complexes in C60/NMP solutions»

Authors: T.V. Tropin, E.A. Kyzyma, T.A. Kyrey, M.V. Avdeev, V.L. Aksenov

Second Prizes

«Effects of structural disorder in fine-grained HTSC $\text{YBa}_2\text{Cu}_3\text{O}_y$ »



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Third Prize

«Antipolar phase in multiferroic BiFeO₃ at high pressures»

Authors: D.P. Kozlenko, A.A. Belik,
A.V. Belushkin, Ye.V. Lukin, G. Marshall,
B.N. Savenko, E. Takayama-Muromachi.

Encouraging prize

«Investigation of deterministic fractals:
extracting additional information from small-
angle scattering data»

Authors: A.Yu. Chernyi, E.M. Anitas,
V.A. Osipov, M. Balasoiu, A.I. Kuklin

AYSS PRIZES

Annually the Association of Young Scientists and Specialists (AYSS) organizes a competition for the best scientific, methodical and scientific and applied research studies performed by young scientists and specialists of the Joint Institute for Nuclear Research. In 2011, our employee **S.Ye. Kichanov** won the Second Prize in the nomination “scientific and technical applied research”.

