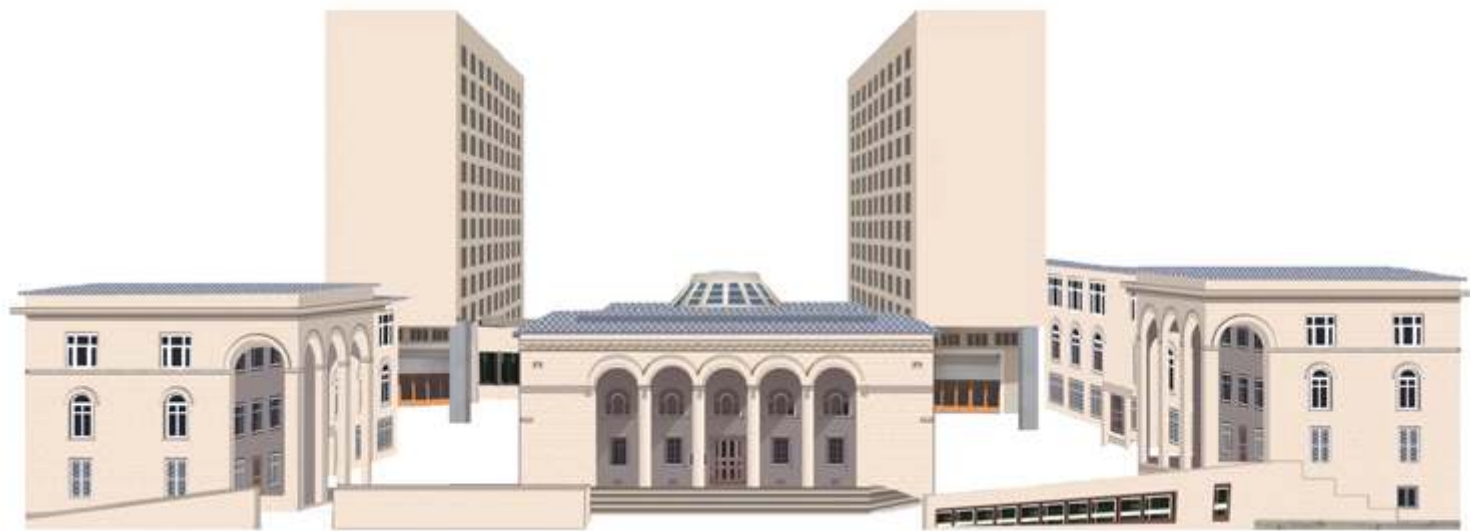




National Academy of Sciences of Armenia

WORKSHOP ON PhD PROMOTION TOOLS
16-17 June 2014





PhD Promotion Tools

WEBSITE

- Main fields of research
- Domestic and international collaboration
- Conferences (Home and international)
- Grants, programs, projects

www.sci.am



PhD Promotion Tools

The screenshot displays the website of the National Academy of Sciences of Armenia. The browser address bar shows the URL www.sci.am/hetropc/phys/eng/index.html. The page features a search bar at the top right and a navigation menu on the left. The main content is organized into several sections:

- General:** About, Organizations, President, Members, ISD Foundation, Contacts.
- News:** Conferences, Grants, News archive, Publications, Documents, PhotoGallery, Announcements, "Ghanyur" weekly.
- Web resources:** Resources of NAS RA, Academies, Funds, EU FDT NCP Network ARMENIA, Universities, Research organizations, ADNET-AM - NAS RA Network, Fundamental sciences, Library.
- Armenia:** Region of Armenia.

The main content area is divided into three primary sections:

- Division of Mathematical and Technical Sciences:** Institute of Mathematics, Mathematics; Institute of Mechanics, Mechanics of Solid Media, Theoretical Mechanics; Institute for Informatics and Automation Problems, Computer Science and Information Technologies.
- Division of Physics and Astrophysics:** Byurekhan Astrophysical Observatory, Astrophysics; Institute of Radiophysics & Electronics, Radiophysics & Electronics; Institute of Applied Problems of Physics, Solid State Physics, Acoustophysics, Nuclear Physics, Elementary Particle Physics, Liquid Crystals, Physics, Semiconductor Physics, Acoustics, Material Technology, Scientific Instrumentation; Institute for Physical Research, Physics.
- Division of Natural Sciences:** Center for Ecological Biosphere Studies, Environmental Studies and Geochemistry; Institute of Biochemistry, Neurochemistry; Institute of Botany, Botany; B.S. Davityan Institute of Hydroponics Problems, Hydroponics, Biotechnology; Scientific and Production Center "Ambiotechnology", Biotechnology, Biorganic Chemistry, Microbiology; Institute of Biotechnology Scientific and Production Center "Ambiotechnology", Biotechnology, Biorganic Chemistry; "Institute of Microbiology" Scientific and Production Center "Ambiotechnology", General and Applied Microbiology; Division of Natural Sciences Microbial Depositors Center, General and Applied Microbiology; Institute of Molecular Biology, Molecular and cellular biology; Institute of Physiology.

On the right side, there is a "News" section with a headline: "announcing the international workshop on 'Sustainable management of water resources and cooperation of mountain lake ecosystems of Arsen basins'". Below this, it states: "On May 26-June 06, 2014 the Institute of Molecular Biology NAS RA and Armenian Association of Molecular & Cellular Biology and Immunology are organizing the International Young Scientists School 'Molecular and Cellular Basis of Post-Genomic Interactions: Genomics and Sequencing'".

At the bottom right, there is a small image of a building and a text box that says: "This site was visited 2107979 times since 01.01.2005." Below this is a "Google AdSense" logo.

The Windows taskbar at the bottom shows the system clock as 11:02 AM on 6/16/2014.



PhD Promotion Tools

The screenshot displays the website for The Institute for Physical Research (IPR). The page features a navigation menu with links for Home, News & Events, Research, Publications, Conferences, About us, Partners, Grants, and Contacts. A search bar is located at the top right. The main content area is divided into three columns:

- Seminars:** A whiteboard graphic with the text "2014-05-05 Composite layered-structured materials in applications to parametric processes" and "Speaker at the conference about IPR at [unintelligible]".
- Conferences:** A calendar icon and the text "2014-04-29 Quanta 2014 International Conference and Shortened Quanta and Matter Through Physics to Future Emerging Technologies The Conference will include talks by...".
- Publications:** A small icon for publications.

The central text block provides an overview of the institute:

The Institute for Physical Research (IPR)
The Institute for Physical Research of the National Academy of Sciences of Armenia is dedicated to undertaking high-quality research in the fields of laser physics and material science, and disseminating the findings that address significant global challenges.

IPR is a wide research organization founded in 1982 by the famous Academician H.L. Spakshyan. Over the intervening years, the Institute has expanded to encompass 12 scientific subdivisions and conducted many pioneering investigations in the fields of laser physics, nonlinear optics, and growth and study of crystals for quantum electronics. Today IPR is one of the leading research organizations in Armenia and has 600 employees including 107 scientific staff. Our scientific staff includes 17 Doctors of Science, 41 Candidates, and 8 PhD students. 25 of our researchers are below the age of 35 years.

The Institute's main research topics include:

- atomic physics, laser spectroscopy
- quantum and nonlinear optics, photonics
- quantum information
- matter-wave physics
- interaction of radiation with matter
- new solid-state lasers, laser materials and schemes
- growth and characterization of laser and nonlinear crystals
- thin film structures for microelectronics and laser technologies
- solid state physics, organic ferroelectrics
- high temperature superconductivity
- synthesis and characterization of nanomaterials
- scientific instrumentation

We have been actively involved in over 40 international grant programmes within the last 5 years, including FP7, FP7-ERC, INFRA, CRDF, RFBR, Volkswagen, ANSEP and SCORP. Also we hold the Royal Chair of Quantum and Optical Electronics of the Russian-Armenian Scientific Council, we have bilateral collaborations with the following countries: France, Germany, USA, Italy, UK, Russia, Latvia, Bulgaria, Poland, Japan, Spain, Australia, Switzerland, Croatia, Canada, Taiwan, Greece and others. In particular, the CRDF USA (French-Armenian International Associated Laboratory) has proved an especially fruitful international collaboration for us.

We produce over 100 publications per year, including 10 in refereed journals which is a great accomplishment for the institute. The annual international conference "Laser Physics" is organized and hosted by us, which enjoys participation from many of the major scientists in the field from all over the world. Additionally, we receive at IPR over 30 visits each year from international scientists.



PhD Promotion Tools

International Science and Technology Department

The main objective of the ISTPD is to promote more active participation of NAS RA institutes and individual researchers in international research programmes. The process of promoting the participation in international programmes is carried out by the Department through dissemination of information and awareness raising on international research programmes, organization of information events, providing assistance and consultancy on preparation and submission of project proposals, partner search and all other aspects related to participation in grant programmes.



nip.sci.am

National Information Point ARMENIA

Cooperation JRC People
Idea Capacities
Euratom

EU 7TH FRAMEWORK PROGRAMME FOR RESEARCH AND TECHNOLOGICAL DEVELOPMENT

FP7 NIP-Armenia was established at the National Academy of Sciences of RA in the framework DITAS ENIN project. The main objective of the NIP is promoting more active participation of Armenian Academic institutes, universities and branch research institutions and SMEs in European research programmes through wider dissemination of information about European Research Area (ERA) and Framework Programmes and providing consultancy to Armenian research community.

FP7
Tomorrow's answers start today

RECENT NEWS

- HORIZON 2020 CALLS ARE OPEN
- The Marie Curie Prize Contest! 5-8 November 2012, Moscow, Russia
- Launching Event EU FP7 (NARMERA, ICT, IPSRA and EcoGen2ERA) Projects
- NAS RA announces Travel Grants for Participation in the 8th European Networking Event on FP7, 8-9 March 2012, Düsseldorf, Germany
- New official source for FP7 calls for proposals
- FP7 New calls for proposals
- Armenian researchers and invited guests to participate in FP7 Health, Infectious Diseases, and Cancer



isec.am

The screenshot shows the website interface for the International Scientific-Educational Center of NAS RA. The header features a blue banner with a world map, a building illustration, and the text "INTERNATIONAL SCIENTIFIC-EDUCATIONAL CENTER OF NAS RA". Below the banner is a navigation bar with links for GRADUATE SCHOOL, FOREIGN STUDENT, PHD QUALIFICATION EXAMS, ADMISSION, PHD, and TUITION FEE. A search bar is located on the right. The main content area is divided into two columns. The left column, titled "GRADUATE SCHOOL", contains several links with PDF icons: "Rules for PhD Admission in the Republic of Armenia (PDF, 41 KB)", "Regulations for Studying at PhD and Postdoctoral Studies in the Republic of Armenia (PDF, 79 KB)", "List of PhD Programs at National Academy of Sciences of Armenia (PDF, 30 KB)", "Governmental Exemplary Contract (PDF, 83 KB)", and "Degree-awarding Nominal List of Supreme Certifying Committee". The right column, titled "MAIN MENU", lists various site sections like "MAIN PAGE", "ABOUT US", "MAGISTRACY", "GRADUATE SCHOOL", "INTERNATIONAL RELATIONS", "RESEARCH GROUPS", "LIBRARY", "THE ENTRANT", and "CONTACTS". Below this is an "ANNOUNCEMENTS" section with a red header, containing text in Armenian regarding a meeting on September 22, 2014.



Conferences

The screenshot shows the website of the National Academy of Sciences of Armenia. The page is titled "Conferences 2013" and lists several upcoming events. The website is in Armenian and includes a search bar, navigation menu, and a sidebar with various links. The main content area contains a list of conferences with their dates and topics.

Conferences 2013

- On 22 April 2013, the annual general meeting of NAS RA devoted to the outcomes of research and scientific organizational activities of NAS RA for 2012 will be held in the NAS RA meeting hall. The annual general meetings of the science divisions will be held on 22 April.
- On 22-26 May, 2013, the International Conference of Young Scientists "Modern problems of geophysics, engineering technology and artificial engineering", dedicated to 70th anniversary of NAS RA will be held in Yerevan, organized by the A. Razouk Institute of Geophysics and Engineering Technology NAS RA and Division of Chemistry and Earth Sciences NAS RA.
- On 28-29 June, 2013, the Republican Scientific Conference on the Internationalization of the Armenian Question in the period of 1912-1923, will be held in Yerevan, organized by the Institute of History of NAS RA.
- On 27-29 June, 2013, the conference of young scientists "New aspects in Molecular biotechnology and Biochemistry", dedicated to 70th anniversary of NAS RA will be held in Yerevan, organized by the H.Eurazian Institute of Biochemistry NAS RA.
- On 22 of July, 2013, the 600th scientific Conference of the Council of the Young Researchers of the Institute of History of the NAS of the RA, dedicated to 70th anniversary of NAS RA, will be held in Araks, organized by the Institute of History NAS RA.
- On 24-28 August, 2013, the Institute of Mathematics NAS RA, Yerevan State University, State Engineering University of Armenia, American University of Armenia, Russian-Armenian (Slavonic) University organize The Second International Conference "Mathematics in Armenia: Advances and Perspectives" (Մաթեմատիկա Հայաստան). The Conference is dedicated to the 70-th anniversary of the NAS of Armenia. For more information see: <http://mathconf.am/>
- On 20-26 August, 2013, Astronomical Astrophysical Observatory of NAS RA organizes Colloquium on "Non-stable objects" dedicated to the 90-th anniversary of astronomer L.V. Miroshnina (Boukhar).
- On 24-26 September, 2013, the anniversary meeting and conference of young linguists dedicated to the 70th anniversary of the founding of the Institute of language after H. Acharyan of NAS RA will be held in Yerevan, organized by the Institute of language after H. Acharyan of NAS RA.
- On 26-29 September, 2013, the ISI International Conference on "Chemistry and Chemical Technologies", dedicated to 70th anniversary of NAS RA, will be held in Yerevan, organized by the H.G. Manvelyan Institute of General and Inorganic Chemistry NAS RA and Division of Chemistry and Earth Sciences NAS RA.
- On 23-26 of September, 2013, the Young Scientists Conference "Modern problems of innovation technologies in plant production", dedicated to 70th Anniversary of NAS RA is organized by the Board of Young Scientists NAS RA and G.G. Davtyan Institute of Hydroponics Problems to be held in G.G. Davtyan Institute of Hydroponics Problems.
- On 23-27 September, 2013, Institute for Informatics and Automation problems of NAS RA organizes IX International Conference on "Computer Science and Information Technologies - CSIT-2013". For more information see: <http://itap.as.am/>
- On 23-27 September, 2013, Institute of Applied problems of Physics of NAS RA organizes the International conference "RREPS-12" (together with Tomsk Polytechnic University, Russia) and "Height-12". For more information see: www.app.am
- On 27-28 September, 2013, Institute of Applied problems of Physics of NAS RA organizes International School of young scientists named after G.A. Azharyan. For more information see: www.app.am
- On 27-29 September, 2013, the Center for Ecological-Hydrophere Studies NAS RA will organize in Yerevan an International Youth Scientific Conference "Environmental issues and identification of risk groups among the population".



Young Scientists Council

<https://www.facebook.com/groups/321785487875421>

Early stage researchers (PhD students) can apply to Young scientist support program to get funding in four directions:

- Financial support for participating in international conferences
- Financial support for obtaining equipment/materials
- Financial support for publishing books written by young scientists
- Financial support for organizing conferences/workshops
- (ad hoc fundings are also possible, e.g. financial support for the publication of articles dedicated to the Armenian Genocide)



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Internationalization Opportunities for PhD

- Many international grant providing organizations encourage the participation of at least one early stage researcher (PhD student) in the projects.
- NAS RA has foreign members, Academicians, whose current number is 127, and around 20 projects are currently being implemented with the involvement of foreign members.



Funding Distribution

Under Ministry of Education and Science, 80% of state funding is provided to fundamental research and only 20% - to applied research.

p.149, Strategic Perspective Development Program of the Armenian Government from 2014 to 2025.



Funding Distribution

For the commercialization of research state support is needed to conduct applied research. To solve such scientific and technological issues, projects shall be implemented with partial state funding. Such projects are already implemented with 15% of state funding (2011) and 25% of state funding (2013).



Linking HEIs with Industry

NAS RA research organizations have their own laboratories in their main fields of research, while some of them have experimental plants, special design bureaus, botanical gardens and the like, where PhD students can do practical and experimental parts of their research accordingly.



Linking HEIs with Industry

NAS research organizations also cooperate with private sector.

'ArmBiotechnology' Scientific-Production Center together with 'SIS-95' LLC produces environmentally-friendly fertilizer in its experimental station, which is realized in state and private farming entities.



Linking HEIs with Industry

Institute for Hydroponics Problems together with Center for Promotion of Armenian Harvest in its experimental station implemented a pilot project of intensive vine yard growing.



**THANK YOU FOR
ATTENTION!**