



LOCATIONS FOR GRANTEES FOR 2011/2012 CYCLE I AND 2011/2012 CYCLE II

Grant-in-Aid Program

Over the last several years, ICDD's Grant-in-Aid program has evolved into a truly international program. Twelve countries currently participate in the GiA program. This expansion is mainly attributed to ICDD members' active involvement in conducting GiA workshops.

For over 50 years, ICDD has supported a well-developed program of grants to researchers around the world. One of our main objectives is to expand the range of reference materials by producing and cataloging high-quality X-ray diffraction patterns in our internationally renowned database, the Powder Diffraction File (PDF). Thanks to the longevity of this program, these contributions account for approximately a quarter of the current experimental file. ICDD awards financial support to qualified investigators in the form of a Grant-in-Aid on a competitive proposal basis. The duration of a Grant-in-Aid is 12 months with two cycles per year. Cycle 1 begins 1 April and Cycle II begins 1 October.

WORKSHOPS

ICDD GRANT-IN-AID WORKSHOP

Ulan-Ude, Russian Federation 2007



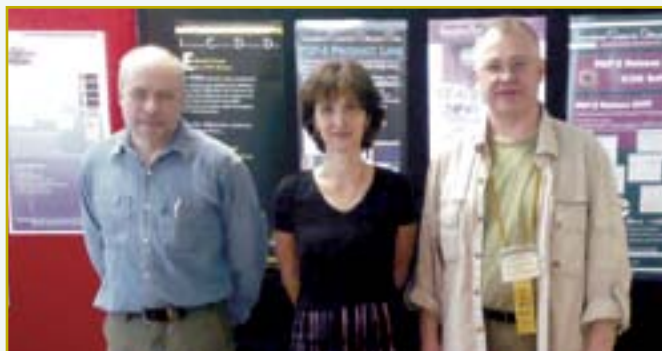
This Russian Scientific Meeting, devoted to the 75th anniversary of M.V. Mokhosoev, was held on 25-29 June 2007 near Ulan-Ude on Baikal Lake. Corresponding Member of the Soviet Union Academy of Science, Marks Vasilyevich Mokhosoev, founder of the scientific school, was a well-known specialist in inorganic chemistry and material science. The program included 173 reports (8 plenary lectures, 72 oral reports and 93 posters), which represented scientific results from different organizations and countries: Russia, Ukraine, Mongolia, France, Germany, Belgium, Switzerland, Japan and the USA.

The plenary lecture, by the ICDD Executive Director, Timothy Fawcett, "The Growth of the Powder Diffraction File into Advanced Materials Analyses," was devoted to the new opportunities of the PDF-4+ database in different branches of science. Within the framework of the meeting, a seminar on powder diffraction was organized, "The ICDD – Ulan-Ude Workshop: New opportunities in powder diffraction". A total of 78 scientists participated in the ICDD seminar. Among them were researchers from 13 institutes of Ural, Siberian and Far East branches of the Russian Academy of Sciences and seven educational institutes, with a lot of them being Grant-in-Aid recipients for many years. Representatives from Mongolia and Far East institutes (Khabarovsk and Vladivostok) participated in the seminar for the first time.

The seminar program included several lectures. T. Fawcett reported on the development of the PDF. The lecture by Prof. Antipov was devoted to the ICDD activity in Russia. R. Shpanchenko dedicated his talk to the powder data technique and data processing for PDF entries. S. Kirik (Institute of Chemistry and Chemical Technology, Novosibirsk) reported on powder diffraction studies of amorphous mesostructured samples. Phase transitions in molecular crystals of biomimetics and drugs were investigated by powder diffraction by T. Drebuschak (Institute of Solid State Chemistry and Mechanochemistry, Novosibirsk), and structural transitions in catalytic systems – by L. Plyasova (Institute of Catalysis, Novosibirsk). Optimization of the Bragg-Brentano diffractometer was described in the report of V. Lisoivan (Institute of Inorganic Chemistry, Novosibirsk). Structure solutions from high-quality powder data were reported in the lectures of T. Kardash (Novosibirsk University), A. Vasilyev (Institute of Physics, Krasnoyarsk), and B. Morozov and R. Shpanchenko (both–Moscow State University). Two latter reports showed the opportunities of powder diffraction in the structural studies of incommensurate modulated compounds. At the end of the seminar, a presentation by Bruker was given by V. Pribora.

GRANT-IN-AID SCIENTIFIC SEMINAR

Chernogolovka, Russia Federation 2008



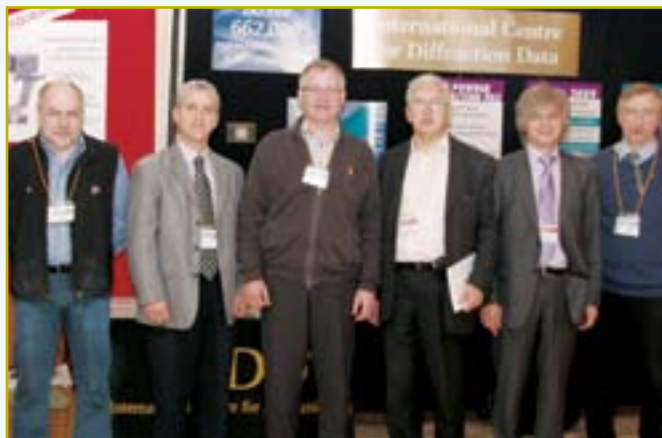
There was an ICDD Databases/Grant-in-Aid program Scientific Seminar held during the conference, "Diffraction Methods in Study of a Matter: From Molecules to Crystals and Nanomaterials", 30 June – 4 July 2008, in Chernogolovka, Russian Federation. The local organizers were Professor Evgeny Antipov and Dr. Roman Shpanchenko of Moscow State University. The Scientific Secretary of the Conference was Dr. Elena S. Khromova.

More than 150 researchers from Russia took part in the conference. Scientists from all Russian regions (Far East, Ural, The Central Region, Caucasus, Moscow, and St. Petersburg) attended the conference. Thirty-one lectures on actual tasks of diffraction methods for substance investigation were presented and about 120 researchers made their presentations during three poster sessions.

Drs. Shpanchenko, D. Sklovsky and A. Mironov answered questions concerning ICDD activities and databases. Due to the sponsorship of the ICDD, the organizing committee supported the accommodation of 10 students at the conference.

GRANT-IN-AID WORKSHOP

Kazan, Russian Federation 2009



A one-day ICDD workshop was held in conjunction with the National Crystallographic Conference in Kazan, Russian Federation, 30 November to 5 December 2009. There were about 150 participants. The main topics were: ICDD programs, products focusing on PDF-4 and capabilities of databases for analysis of nano and pharmaceutical materials. Dr. R. Shpanchenko was the workshop organizer. The main speakers were Dr. Roman Shpanchenko, Prof. Evgeny Antipov and Dr. Tom Blanton. Dr. Blanton attended as the ICDD representative. Dr. Shpanchenko and colleagues exhibited the ICDD booth at the whole conference. The ICDD presented three awards to young scientists for the best poster presentations.

Awards

DISTINGUISHED GRANTEE AWARDS

The Distinguished Grantee Award was instituted in 1999 to recognize the ongoing efforts of exceptional Grant-in-Aid recipients, whose work for the ICDD goes beyond the measurement of high-quality powder patterns. The award is presented triennially. The ICDD Grant-in-Aid program is open to all scientists who produce high-quality powder data and who, after a preliminary trial period, are awarded monetary grants from the ICDD in return for submission of their patterns to the ICDD.

Selection Process

The ICDD Grant-in-Aid Committee is responsible for the selection of an awardee. Submissions are made to the committee and a tally of votes determines the winner.

Award Presentation

The Distinguished Grantee Award is presented at the Technical Committee Session of the ICDD Annual Meeting. The award consists of a gift of \$1,000 and a commemorative plaque. The awardee is expected to present a scientific paper and spend several days at the ICDD headquarters. Travel and accommodation costs for the recipient are covered by the ICDD.



2010 Professor Bogdan Lazoryak



2007 Dr. Sergei Kirik



2004 Professor Shao-Fan Lin



2001 Professor Evgeny Antipov



1998 Dr. Ekkehart Tillmanns

PROFESSOR SHAO-FAN LIN- 1,000 REFERENCE PATTERNS PUBLISHED IN THE POWDER DIFFRACTION FILE



At the 10th National Conference on X-ray Diffraction and ICDD Workshop in Shanghai, China, 11–17 October 2009, Professor Shao-Fan Lin was recognized and celebrated for his outstanding contributions to materials science, characterization, and phase identification. Dr. Timothy Fawcett presented Professor Lin with an award on behalf of the members and Board of Directors of the ICDD for his submission of 1000 reference patterns published in the Powder Diffraction File. Prof. Shao-Fan Lin is only the third person who has authored 1000 patterns, joining Don Hanawalt from the Dow Chemical

Company and Larry Calvert from the National Research Council of Canada. Hanawalt's work was part of the foundation of the Powder Diffraction File in 1941. As of Release 2011 of the Powder Diffraction File, Professor Lin has published 1,076 reference materials.

Professor Lin contributed exceptional quality material data sets and has published the crystal structures, as well as the powder patterns for over 140 materials. His work has included characterization of pharmaceuticals, pesticides and many natural products found in Chinese medicine. The award plaque displays the powder pattern and crystal and molecular structure of methyl ephedrine. This was the first published structure of this commercial stimulant, which is manufactured in Asia and globally distributed. Since his first grant in 1988, Professor Lin has contributed material data sets for publication for 21 consecutive years.

Prof. Lin was also the recipient of the 2004 ICDD Distinguished Grantee Award. Not only has he contributed over 1000 X-ray powder diffraction patterns through the Grant-in-Aid program, he has also been a major organizer for all the ICDD Grant-in-Aid workshops in China over the past fifteen years, with more than one hundred distinguished scientists attending each. Professor Lin also inspired many other Chinese scientists to become grantees for the past twenty years. There are currently 11 active grants in China. In 1988, he was named ICDD's first Regional Technical Co-chair for China. Together, with Professor Xiaolong Chen, the current ICDD Co-chair, they have recruited the second largest country membership in the ICDD.

Prof. Lin was born in Wuhan, a strategic industrial city in China. He studied organic chemistry at Nankai University in Tianjin, China and became a university faculty member after graduation. He took a two-year sabbatical and carried out research on computers in chemistry at Rutgers University in the United States as a Visiting Scholar. Upon returning to Nankai University, he gained his full professorship and assumed the position of Chairman of Central Laboratory there. Since his retirement from Nankai University in 2003, he started a new position at the Tianjin Institute of Analysis. His primary research interests include computers in chemistry, interpretation of diffraction patterns, chemistry information on the Internet, compound structure and character relationships, computer-assisted organic synthesis, and computer-assisted instruction. He has been extensively involved in the computerized identification of X-ray powder diffraction patterns. He has published three books and over one hundred scientific papers.

Prof. Lin has also been very active in the Chinese scientific community. He is currently the Vice Chairman of the Chinese Society of Crystallography, a member of the council of the Chinese Society of Chemistry, the Vice Chairman of the Commission on X-ray Diffraction of Chinese Society of Physics, Chairman of Tianjin Society on X-ray Analyses, a member of the Commission on Powder Diffraction IUCr, member of Committee on IXAS, as well as the past Chairman of the Central Laboratory Nankai University. He was also involved in many ICDD editorial efforts, including the cross-referencing of the Merck/PDF/CSD databases, and extracting metal and alloy data from the literature, as well as providing ICDD the two-dimensional structures for the PDF organic entries.

