Visitors from the Russian Site of the NSF I/UCRC CAKE

The NSF FIU-FAU-Dubna Industry/University Cooperative Research Center for Advanced Knowledge Enablement (I/UCRC-CAKE, http://CAKE.FIU.edu) was established to develop long-term partnerships among industry, academe and government. The Center's Chair of the Industrial Advisory Board is Oded Cohn, Director of the IBM Haifa Research Center. The Center's Director, Naphtali Rishe, is the inaugural Outstanding University Professor of FIU. The FAU Site Director, Borko Furht, is the Chairperson of the FAU Department of Computer & Electrical Engineering and Computer Science.

Dubna International University, Russia, joined the Center in August 2010 under the Site Directorship of Academician Evgenia Cheremisina. Dr. Cheremisina is presently working on expanding her site to include Skolkovo, the premier Russian high-tech industrial complex under construction. The Dubna-Skolkovo alliance with U.S. Sites will facilitate computing solutions of problems in environmental monitoring, geo-ecology, and disaster mitigation.

A major research area of the Dubna group is data support for disaster mitigation, particularly utilizing their GIS Data Analytics tool GIS INTEGRO. This is complementary to the TerraFly GIS effort at FIU. The two teams are working on combining capabilities of the two systems, leveraging Dubna's team prior experience in projects in Long Island, Brazil and Russia.

Another area of joint work is GRID computing, with applications in disaster mitigation. The Dubna group leads this field in Russia and the FIU group is a founding member of LA Grid, a collaborative effort of US and Latin American universities, IBM, and Barcelona Supercomputing Center.

Dr. Cheremisina Evgenia Naumovna graduated from Tomsk State University as a computational mathematics specialist. She is a professor at the Dubna International University since 1994. Until 1997 she headed the Department of Mathematics and Information Technology; during 1997 to 2008 she was the Vice President for computer science education and information systems and Head of the Department of System Analysis and Management. Since 2009 she is the Director of Systems Analysis and Management Institute. In parallel with her Dubna University faculty position, Cheremisina serves since 1989 as the Head of Laboratory of Geoinformatics at
VNIIgeosystem (Russian Federation National Institute for Geology, Geophysics, and Geochemistry), and since 2003 – Vice Director of the VNIIgeosystem Institute. Doctor of Technical Sciences (1991), Professor (1995), Academician of Russian Academy of Natural Sciences (1997). Author of more than 150 scientific publications, 5 monographs, 4 textbooks. In 2009 Dr Cheremisina was awarded a Russian Federation First Degree Medal of Order of National Achievement. Since 2008 Dr Cheremisina also serves as President of Open Institute of Information Technology in Dubna.


Dr. Naphtali Rishe, Director of the NSF I/UCRC at FIU is the Author of 3 books on database design and geography; Editor of 5 books on database management and high performance computing; Inventor of 4 U.S. patents; Author of over 200 papers in journals and proceedings; Awardee of over $40 million in research grants by Government and Industry, including NSF, NASA, IBM, DoI, USGS; Architect of major industrial projects; Founding Director of the High Performance Database Research Center at FIU; Director of the NSF Center for Excellence in Science and Technology at FIU (CREST); Director if the FIU-FAU-Dubna NSF Industry-University Center (I/UCRC-CAKE); the inaugural FIU Outstanding University Professor. Rishe’s TerraFly project has been extensively covered by worldwide press, including the New York Times, USA Today, NPR, Science and Nature journals, and FOX TV News.

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