The Hebrew University of Jerusalem The Authority for Research and Development http://ard.huji.ac.il Tel: 972-2-658-6625/6/8; Fax: 972-2-652-9764

June 2013



The Authority for RESEARCH AND DEVELOPMENT

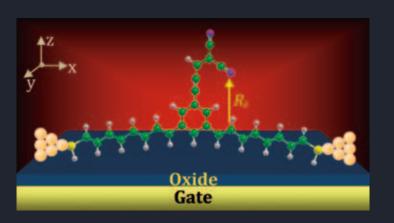
THE KLACHKY PRIZE

FOR THE ADVANCEMENT OF THE FRONTIERS OF SCIENCE

> AT THE HEBREW UNIVERSITY OF JERUSALEM

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האוניברסיטה העברית בירושלים The Hebrew University of Jerusalem



The Authority for RESEARCH AND DEVELOPMENT

for the Advancement of the Frontiers of Science

The Klachky Prize for the Advancement of the Frontiers of Science is an annual prize founded by the late Ms. Rachel Klachky. The prize is given to Hebrew University faculty members or academic units for their achievements in: The Advancement of Science

The Advancement of Scientific Research

The Advancement of Scientific Knowledge

The Advancement of the Frontiers of Science

New Academic Developments

Academic Ventures



The Donor

Rachel Klachky (1925-2001) was born in Mexico. Married to the late Engineer Manuel Klachky, she was a central figure in the Jewish Community of Mexico, and was one of the founding members of the Mexican Friends of the Hebrew University.

In 1997, she received an Honorary Fellowship from the Hebrew University for her outstanding contributions to the State of Israel and the Hebrew University of Jerusalem. She wholeheartedly supported worthy causes, including the absorption of new immigrants, scholarships for students, and support of various scientific research projects, and studies on superconductivity at the Hebrew University.

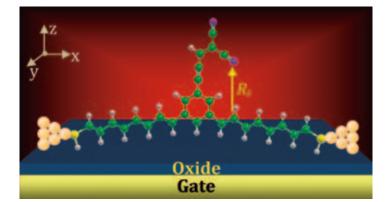
After she passed away, her sons, Roberto and Leopoldo, continued her legacy of support to the Hebrew University of Jerusalem. The Klachky Prize has been awarded since 2003.

The Klachky Prize for 2013



Prof. Roi Baer Director of the Fritz Haber Center for Molecular Dynamics, Institute of Chemistry

Contribution: Developed new theoretical and computational techniques that enable determination of the energy levels of charge carriers in large molecular systems and nanocrystals. These methods help scientists design new types of organic and inorganic solar cells with increased efficiency.



Many of the challenges facing chemists, materials scientists and biologists involve the detailed understanding of the energetics and dynamics of charge carriers in large molecules, molecular films and nanocrystals. Theoretical techniques are very important for analyzing experiments and predicting the behavior of new systems.

Prof. Baer has developed new theoreticalcomputational methods that allow the accurate determination of charge carrier energy levels, their alignment across interfaces and their dynamics following optical excitations. His methods are being used in many laboratories around the world to predict and understand processes in organic and dye sensitized solar cells, in biological systems and in molecular junctions.

FORMER HONOREES

2012	Dr. ERAN MESHORER
	Head of the Stem Cell Chromatin Laboratory at the Department of Genetics, Faculty of Science
Contribution:	Using genome-wide approaches and sophisticated imaging techniques.
2011	Prof. DAVID WEISBURD
	Director of the Institute of Criminology, Faculty of Law
Contribution:	Pioneering research on white collar crime, policing and crime prevention.
2010	Prof. MERAV AHISSAR
	Head of Program in Cognitive Sciences, Faculty of Social Sciences
Contribution:	The neuro-cognitive basis of reading disability - the "anchoring-deficit" hypothesis.
2009	Prof. ISAIAH TUVIA (SHY) ARKIN
	Chairman of the Silberman Institute of Life Sciences, Faculty of Science
Contribution:	Structural biology of membrane proteins, focusing on pathogen's ion channels and ion pumps.
2008	Prof. URI BANIN
	Alfred & Erica Larisch Memorial Chair in Solar Energy, Institute of Chemistry and the Center for Nanoscience & Nanotechnology, Faculty of Science
Contribution:	Major advancements in the science and technology of nanocrystals and the development of hybrid multifunctional nanoparticles.
2007	Prof. HOWARD (CHAIM) CEDAR
	Department of Developmental Biology and Cancer Research, Faculty of Medicine
Contribution:	Establishing the cornerstone of epigenetics and its role in human development.