PRIZE WINNERS
FOR THE 2017 AWARDS
OF THE DIMITRIS N. CHORAFAS FOUNDATION

Scientific Advisor:
WEIZMANN INSTITUTE OF SCIENCE,
FEINBERG GRADUATE SCHOOL

The Partner Universities are Listed in Alphabetic Order
July 2017

CLASSIFICATION OF PRIZES

Life Sciences/Medicine	9
Physics	8
Informatics/Computer Science	6
Chemistry	3
Engineering of Finance and Risk Management	2
Mathematics	1
Total	**29**

GENDER DISTRIBUTION

Men	21
Women	8

Charles University of Prague

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City University London, Cass Business School

Anran CHEN (Ms)
The Impact of Behavioural Factors in Annuitisation Decisions and Decumulation Strategies

Ecole Polytechnique de Lausanne

Konrad DOMANSKI
The Quest for Stability of Perovskite Solar Cells: Understanding Degradation Mechanisms and Improving the Lifetimes

Dr. Edoardo BALDINI
Nonequilibrium Dynamics of Collective Excitations in Strongly Interacting and Correlated Quantum Systems

ETH Zürich

Dr. Markus JESCHEK
Engineering Escherichia coli for Non-natural Metabolism

Dr. Hortense LE FERRAND (Ms)
Magnetically-driven Assembly of Bio-inspired Multifunctional Composites

George Washington University

Aleksandra KLIMAS
All-Optical Cardiac Electrophysiology: Design, Validation and Applications In Vitro and In Vivo

Hebrew University of Jerusalem

Lili NIMRI (Mrs)
Mechanisms Linking Obesity to Altered Metabolism in Colon Carcinogenesis

Hiroshima University

Dr. Satoshi TOMANO
A Study on Stock Structure of the Oval Squid Sepioteuthis spp. around Japan

Karolinska Institutet

Dr. Arvid GUTERSTAM
The Neural Mechanisms of Body Ownership and Self-location

Massachusetts Institute of Technology

Dr. Cynthia R. SUNG
Computational Design of Foldable Robots via Composition

Dr. Hannah A. CLEVENSON
Sensing and Timekeeping Using a Light-trapping Diamond Waveguide

National Technical University of Athens

Dr. Evangelos BELLOS
Exploitation and Optimization of Solar Systems in Buildings

Dr. Athanasios SARIGIANNIDIS
Optimal Design and Operation of Electric Traction Systems

Norwegian University of Science and Technology

Dr. Olav MØYNER
Next Generation Multiscale Methods for Reservoir Simulation

Politecnico di Milano

Dr. Abdulrahman KAITOUA
Scalable Data Management and Processing for Genomics

Dr. Rafael Jan Pablo SCHMITT
CASCADE – A Framework of Modeling Fluvial Sediment Connectivity and its Application for Designing Low Impact Hydropower Portfolios

Purdue University

Justus Chukwunonso Ndukaife
Plasmon Nano-optical Tweezers for Integrated Particle Manipulation: A Route to Positioning, Sensing, and Additive Nanomanufacturing On-Chip

Technical University of Berlin

Riccardo SCOTT
Colloidal II-VI Nanoparticles: Linear and Nonlinear Properties of the Electronic System under High Fields and High Intensities

Ilhan ÖZGEN
Coarse Grid Applications for the Shallow Water Model

Technical University of Munich

Dr. Alexander Bernhard NOTTBECK
Examination on the Impact of Enhanced Speed on Existent Railway Tracks

Matthias WIECZOREK
Anisotropic X-Ray Dark Field Tomography

Tokyo Institute of Technology

Dr. Shimpei OTSUKA
Molecular Mechanism of Porphyrin Metabolism in Hypoxic Tumor-Microenvironment

Keisuke MOCHIDA
Study on Selective Autophagy in Budding Yeast

Tsinghua University

Dr. Zhen YAN (Ms)
Structural Investigation of Calcium Release Channel RyR1

Dr. Sicong TIAN
Synthesis of Highly-efficient, Ca-based CO_2 Sorbents from Steel Slag and Application for Carbon Capture in the Iron and Steel Industry

University of California, Los Angeles (UCLA)

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University of Fribourg

Dr. Marcus DANTZ
Spin, Orbital, Charge and Lattice Excitations in Low-dimensional Cuprates and Related Compounds

University of Toronto

Graham EDGE
Imaging Fermionic Atoms in a Quantum Gas Microscope

Weizmann Institute of Science

Naama AVIRAM (Ms)
Targeting and Translocation to the Endoplasmic Reticulum: Uncovering a Novel SRP-Independent Pathway

Dr. Arbel Haim
Majorana Bound States in Condensed Matter Systems: Realizations and Physical Signatures

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2017 Prizes
(Partner Universities in alphabetic order)

Partner University	**Number of Prizes**	**Prize Winners**	**Men**	**Women**
Charles University of Prague[1]	-	-	-	-
City University of London	1	1	-	1
Ecole Polytechnique Fédérale de Lausanne	2	2	2	-
ETH Zürich	2	2	1	1
George Washington University	1	1	-	1
Hebrew University of Jerusalem	1	1	-	1
Hiroshima University	1	1	1	-
Karolinska Institutet	1	1	1	-
MIT	2	2	-	2
National Technical University of Athens	2	2	2	-
Norwegian University of Science and Technology	1	1	1	-
Politecnico di Milano	2	2	2	-
Purdue University	1	1	1	-
Technical University of Berlin	2	2	2	-
Technical University of Munich	2	2	2	-
Tokyo Institute of Technology	2	2	2	-
Tsinghua University	2	2	1	1
UCLA Engineering[1]	-	-	-	-
University of Fribourg	1	1	1	-
University of Toronto	1	1	1	-
Weizmann Institute of Science	2	2	1	1
Total 2017				

[1] Due to staff changes, *Charles University* and *UCLA* were not able to submit candidate files. They will, however, participate again to the Awards in 2018.