

ABDU, URI – Life Sciences, NIBN
Ph.D., Ben-Gurion Univ., 2000
Research Interests: DNA damage check-
point during Drosophila oogenesis and the
role of the microtubules cytoskeleton in
RNA localization
abdu@bgu.ac.il

ABRAHAM, URI – Mathematics &
Computer Science
Ph.D., Hebrew Univ., 1979
Research Interests: Set theory.
Mathematical logic. Concurrency (in
computer science).
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ABRAMOVICH, SIGAL - Geological &
Environmental Sciences
Ph.D., Univ. of Princeton, 2002
Research Interests: Paleoecology and
paleoclimatology of the Cretaceous.
Foraminifera.
sigalabr@bgu.ac.il

ABRAMSKY, ZVIKA - Life Sciences
Ph.D., Colorado State Univ., 1976
Research Interests: Community ecology
of desert granivours. The importance of
density dependent habitat selection. Inter-
specific competition and risk of predation
in structuring communities of desert
rodents.
zvika@bgu.ac.il

ADAR, EILON - Geological and
Environmental Sciences
Ph.D., Univ. of Arizona, 1984
Research Interests : Evaluation of recharge
in arid basins. Ground water modeling
with environmental tracers. Modeling of
ground water contamination in fractured
chalk aquitard.
eilon@bgu.ac.il

AILAM, GEDALIA - (Emeritus)
Mathematics & Statistics
Ph.D., The Hebrew Univ., 1962

Research Interests: Probability &
Statistics.

ALPAY, DANIEL - Mathematics
Ph.D., Weizmann Inst., 1985
Research Interests: Operator theory.
System theory. Interpolation problems.
Riemann surfaces.
dany@math.bgu.ac.il

ALTSHULER, AMOS - Mathematics
Ph.D., The Hebrew Univ., 1970
Research Interests: Convex polytopes.
Graph theory. Combinatorial topology.
alt@math.bgu.ac.il

AHARONY, AMNON – Physics
Ph.D., Tel-Aviv Univ. 1971
Research Interests: Theoretical condensed
matter physics. Quantum theory of meso-
scopic systems. Statistical physics.
Random systems.
aharony@post.tau.ac.il

AVISHAI, YSHAI - Physics
Ph.D., The Weizmann Inst., 1970
Research Interests: Theoretical condensed
matter physics.
yshai@bgu.ac.il

AZMON, EMANUEL - Geological and
Environmental Sciences
Ph.D., Univ. of S. California, 1960
Research Interests : Sedimentology. Flow
of waste through fractures and porosities.
Ceramic processes. Role of clays in
energetic and mineralogical changes.
Heavy minerals provenance. Author of
scientific novels.
azmon@bgu.ac.il

BACHMAT, EITAN – Computer Science
Ph.D., Massachusetts Inst. of Technology,
USA, 1994
Research Interests: Arithmetic geometry.
Storage systems.
ebachmat@cs.bgu.ac.il

BAHAT, DOV - Geological &

Environmental Sciences

Ph.D., Univ. of Melbourne, 1967

Research Interests: Tectonofractography, the study of fractography and application to structural geology. Joints and faults. Fracturing of brittle materials under laboratory conditions. Electromagnetic radiation induced by fracture.

bahat@bgu.ac.il

BALABAN, MIRA – Computer Sciences

Ph.D.: Weizmann Inst., 1982

Research Interests: Conceptual modeling. Software engineering. Databases (semantics). Knowledge representation (time, description logics). Computer music (computational view of music concepts).

mira@cd.bgu.ac.il

BAND, YEHUDA - Chemistry

Ph.D., Univ. of Chicago, 1973

Research Interests: Collision theory. Quantum mechanical scattering. Light scattering. Nonlinear optics. Laser physics and chemistry. Atomic and molecular physics and chemistry. Dissociation of molecules. Charge exchange processes. Optimal control theory. Electronic transport phenomena in condensed phases. Degenerate quantum fluids. Bose-Einstein condensation. Thermodynamics.

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BAR, ILANA – Physics

Ph.D., Ben-Gurion Univ., 1982

The Institutes for Applied Research
Research Interests: Molecular dynamics. Laser-based spectroscopic methods.

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BAR-TOUV, YAACOV – (emeritus)
Physics

PH.D., The weizman Inst., 1966

Research Interests: Nuclear Physics. Mesoscopic physics.

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BARAK, ZE'EV - Life Sciences

Ph.D., The Weizmann Inst., 1972

Research Interests: Structure-function relationship in enzymes and their applied biotechnological implication. Bacterial genetics and physiology. Regulation and inhibition of amino acid synthesis and interaction of synthesis and transport systems. Translational frameshifting in bacteria. Biological control of mosquitoes by *Bacillus thuringiensis* var. israelensis.

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BARANES, DANNY - Life Sciences

Ph.D, The Hebrew Univ., 1992

Research Interests: Neurobiology and cell biology. Development of synaptic connections and neuronal networks. Modern methods in microscopy.

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BARANES, DANNY - Life Sciences

Ph.D, The Hebrew Univ., 1992

Research Interests: Neurobiology and cell biology. Modern methods in microscopy.

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BAR-ZVI, DUDY - Life Sciences

Ph.D., Ben-Gurion Univ, 1984

Research Interests: Plant gene expression and bioenergetics.

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BECKER, JAMES Y. – Chemistry

Ph.D., The Hebrew Univ., 1973

Research Interests: 1) Organic electrochemistry: synthesis and mechanism; organosilicon compounds; functionalization of organic molecules; electrocatalysis. 2) Molecular organic conductors: synthesis; structure; charge-transfer complexes and ion-radical salts; conductivity, electrochemistry and spectral properties.

becker@bgu.ac.il

BEIMEL, AMOS - Computer Science

D.Sc. The Technion, 1996

Research Interests: Cryptography.
Complexity theory.
beimel@cs.bgu.ac.il

BEJERANO-ROTH NURIT - (retired)
Life Sciences
Ph.D., The Hebrew Univ., 1968
Research Interests: Light effects on plant
development and physiology. Stomatal
movement. Mycorrhiza. Cultivation of
local
truffles and introduction of European
truffles.
nuritrb@bgu.ac.il

BELITSKII, GENRICH - Mathematics
Ph.D., Kharkov, 1966
Research Interests: Local theory of
dynamical systems. Functional equations.
Smooth dynamical systems.
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BEN-ABRAHAM, SHELOMO I.-
(emeritus) Physics
Ph.D., The Czechoslovak Acad. of
Sciences, 1961.
Research Interests: Condensed matter,
Statistical mechanics.
benabr@bgu.ac.il

BENJAMINI, CHAIM - Geological &
Environmental Sciences
Ph.D. The Hebrew Univ., 1980
Research Interests: Micropaleontology of
planktic and benthic calcareous micro-
fossils. Genesis, stratigraphy and micro-
facies of Mesozoic and Cenozoic Tethyan
carbonate facies, sequences and paleo-
environments. Regional stratigraphy of
Israel and the Middle East. The
Mediterranean continental shelf off Israel.
chaim@bgu.ac.il

BEN-SHAHAR, OHAD – Computing
Science
Ph.D., Yale Univ., 2003
Research Interests: Computational vision
and image understanding. Human

perception and visual psychophysics.
Computational neuroscience of visual
systems. Interface between vision, graphics
and robotics.
obs@cs.bgu.ac.il

BEREND, DANIEL – Mathematics &
Computer Science
Ph.D., The Hebrew Univ., 1982
Research Interests: Number theory.
Applied probability. Combinatorial
algorithms.
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BERNSTEIN, JOEL - Chemistry
Ph.D., Yale Univ., 1967
Research Interests: General and structural
chemistry. Solid state chemistry. Chemical
crystallography, polymorphism, hydrogen
bonding, graph set analysis.
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BESSER, AMNON - Mathematics
Ph.D., Tel-Aviv Univ., 1994
Research Interests: Arithmetical algebraic
geometry and automorphic forms.
bessera@math.bgu.ac.il

BITTNER, SHMUEL - Chemistry
Ph.D., The Hebrew Univ., 1965
Research Interests: Organic synthesis.
Natural products.
Quinochemistry. Quinonyl amino acids.
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BOUSKILA, AMOS - Life Sciences
Ph.D., Univ. of California at Davis, 1993
Research Interests: Behavioral ecology,
and in particular behaviors related to
predation. Effect of the internal states of
animals on behaviors such as predator-
avoidance. Mathematical models (game
theory and state variable models) as a
tool in the study of the behavior of
animals. Habitat requirements and
conservation of reptiles.
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BRAFMAN, RONEN I. - Computer Science

Ph.D., Stanford Univ., 1996

Research Interests: Automated planning and decision making. Decision support systems. Modeling and reasoning about preferences. Multi-agent learning.

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BRUSTEIN, RAM - Physics

Ph.D., Tel Aviv Univ.

Research Interests: theoretical high-energy physics: Cosmoslogy. Astroparticle physics.

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CARMELI, MOSHE - (emeritus)

Physics

D.Sc., The Technion, 1964

Research Interests: Cosmology. General relativity. Gravitation.

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CHAYOTH, REUBEN - (retired)

Life Sciences

Ph.D., The Hebrew Univ., 1971

Research Interests: Science education.

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CHIPMAN, DAVID - Life Sciences

Ph.D., Columbia Univ., 1965

Research Interests: Protein structure-function relationships. Enzyme mechanisms. Protein engineering for biotechnology. Biochemical dynamics and control of multistep pathways.

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CODISH, MICHAEL - Computer Science

Ph.D., Weizmann Inst. of Science, 1991

Research Interests: Semantic based program analysis.

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COHEN, DORON – Physics

The Technion, 1993

Research Interests: Chaos and quantum mechanics("Quantum Chaos"). Theory of

driven mesoscopic (nano) systems.

Quantum irreversibility, dissipation and dephasing. Relation to quantum computing. Application to quantal Brownian Motion.

dcohen@bgu.ac.il

COHEN, HAIM - Chemistry

Ph.D., Weizmann Inst., 1975

Research Interests: Inorganic and analytical chemistry, Reaction mechanisms in solutions, Coal chemistry, Catalysts for rocket engines, Coal ash, Radiation chemistry, Gas solid reactions.

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COHEN, MIRIAM - Mathematics

Ph.D., Tel-Aviv Univ., 1976

Research Interests: Noncommutative algebras. Hopf algebras. Quantum groups.

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DABOUL, JAMIL - Physics

Ph.D., Univ. of Heidelberg, Germany, 1965

Research Interests: Mathematical physics.

Dynamical symmetries. Infinite-dimensional algebras. Coherent and squeezed states. Nonlinear dynamics. Singular potentials. Theoretical high-energy Physics.

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DAVIDSON, AHARON - Physics

D.Sc., The Technion, 1977

Research Interests: Gravity. Cosmology. Dark matter. Higher dimensional field theory. Electro/nuclear Interactions.

Electro/nuclear interactions.

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DINITZ, YEFIM - Computer Science

Ph.D., Inst. of Mathematical Economics, Moscow, 1973

Research Interests: Graph algorithms.

Graph and network connectivity. Network flows. Imbedding and layout of Interconnection networks. Discrete optimization. Distributed communication

complexity. Combinatorial Algorithms.
Visualization of algorithms.
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DINUR, URI - Chemistry
Ph.D., The Hebrew Univ., 1979
Research Interests: Theoretical physical
chemistry. Molecular interactions.
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DOLEV, SHLOMI - Computer Science
D.Sc. The Technion, IIT, 1992
Research Interests: Distributed computing.
Communication networks. Fault-tolerance.
Self-stabilization. Cryptography.
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EFRAT, IDO - Mathematics
Ph.D.: Tel-Aviv Univ, 1990
Research Interests: Theory of fields.
Profinite groups. Galois theory.
efrat@math.bgu.ac.il

EICHLER, DAVID - Physics
Ph.D., Mass. Inst.Tech.(M.I.T.) USA, 1976
Research Interests: Astrophysics. Particle
astrophysics. Cosmology. Plasma physics.
Theoretical biology.
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EICHLER, JERRY - Life Sciences
Ph.D., Weizmann Inst., 1994
Research Interests: Protein translocation,
Membranes, Archaea.
jeichler@bgu.ac.il

EISENBERG, THEODORE -
Mathematics
Ph.D., Univ. of Maryland, 1970
Research Interests: Mathematical
education. Curriculum development /
Evaluation math., Spatial visualization /
Concept formation.
eisen@math.bgu.ac.il

ELHADAD, MICHAEL - Computer
Science
Ph.D., Columbia Univ., 1992

Research Interests: Natural language
generation (FUF). Intelligent user
interfaces. Automatic text summarization.
Software engineering.
elhadad@cs.bgu.ac.il

ELKIN, MICHAEL – Computing Science
Ph.D., Weizmann Inst., 2002
Research Interests: Graph algorithms.
Distributed computing. Low-distortion
embeddings. Approximation algorithms.
Hardness of approximation.
Combinatorics. Extremal graph theory.
elkinm@cs.bgu.ac.il

EL SANA, JIHAD - Computer Science
Ph.D., State Univ. of New York, 1995
Research Interests: Computer graphics.
Computational Geometry. Geometric
modeling. Digital image processing.
Multi-media. Virtual reality. Digital video
processing.
el-sana@cs.bgu.ac.il

ENTIN-WOHLMAN, ORA – Physics
Ph.D., Bar-Ilan Univ., 1973
Research Interests:
Theoretical condensed matter physics.
entin@post.tau.ac.il

EREZ, GIDEON (Emeritus) - Physics
D.Sc., The Technion, 1960
Research Interests: Lasers. Atomic
spectroscopy.

EYAL, MOSHE - (Retired) Geological
& Environmental Sciences
Ph.D., The Hebrew Univ., 1975
Research Interests: Igneous petrology.
Volcanology. The Precambrian crystalline
massif in Sinai. Development of the
Dead-Sea and Red-Sea rifts.
moey@bgu.ac.il

EYAL, YEHUDA - Geological &
Environmental Sciences
Ph.D., The Hebrew Univ., 1976
Research Interests : Structural geology,

and paleo-stress analysis, Israel and Kellowna area, British Columbia, Canada. Development of the Dead Sea Rift

and associated structures. Brittle deformation, joints. Parameters controlling joint spacing. Stylolites and pressure solution.

eyal@bgu.ac.il

FAIMAN, DAVID - Physics - Institute for Desert Research Ph.D., University of Illinois, USA. 1969 Research Interests: Solar energy. Solar radiation measurements. Photovoltaic devices and systems. Solar-thermal power systems.

FEINGOLD, MARIO - Physics Ph.D., The Technion, 1986 Research Interests: Single molecule and cell biophysics.

mario@bgu.ac.il

FEINSTEIN, SHIMON - Geological & Environmental Sciences Ph.D., Ben Gurion Univ., 1985 Research Interests: Petroleum and source rock geochemistry. Maturity of organic materials. Thermo-tectonic evolution of sedimentary basins in different tectonic settings.

shimon@bgu.ac.il

FEINTUCH, AVRAHAM - Mathematics Ph.D., Univ. of Toronto, 1972 Research Interests: Operator theory. Linear systems. Optimal control.

abie@math.bgu.ac.il

FISCHER, DANIEL - Computer Science Ph.D., Tel-Aviv Univ., 1995 Research Interests: Computational structure molecular biology. Bio-informatics. Interpreting genomes. Protein fold recognition. Pattern recognition in biological macromolecules. Protein

structure comparison. Molecular recognition and docking of ligands onto receptor molecules.

dfischer@cs.bgu.ac.il

FISHOV, ITZHAK - Life Sciences Ph.D., Inst. of Biol. Phys., Acad. of Sci. of USSR, 1983

Research Interests: Mechanism of bacterial cell cycle regulation. Membrane dynamics.

Bioenergetics.

fishov@bgu.ac.il

FOLMAN, RON – Physics Ph.D., CERN, 1998

Research Interests: Cold atoms.

folman@physi.uni.heidekberg.de

FONF, VLADIMIR - Mathematics Ph.D., Univ. of Sverdlovsk, 1979

D.Sc., Warsaw, 1991

Research Interests: Functional analysis. Geometry of Banach spaces.

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FRIEDLANDER, MICHAEL - (emeritus) Life Sciences

Ph.D., The Hebrew Univ., 1967

Research Interests: Insect endocrinology and reproduction. Sperm differentiation. Comparative spermatology and evolution. Biological ultrastructure.

frdln@bgu.ac.il

FUHRMANN, PAUL A. - Mathematics Ph.D., Columbia Univ., 1967

Research Interests: Mathematical theory of control systems. Operator theory in Hilbert space.

paf@math.bgu.ac.il

GANOR, JIWCHAR - Geological & Environmental Sciences

Ph.D., The Hebrew Univ., 1992

Research Interests: Kinetics of dissolution and precipitation of minerals at low

temperature-laboratory experiments and modeling.

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GEDALIN, MICHAEL - Physics
Ph.D., Space Res. Inst., Moscow, 1986
Research Interests: Plasma physics.

Astrophysics and space physics. Nonlinear phenomena.

gedalin@bgu.ac.il

GERSANI, MORDECHAI - (retired)
Life Sciences

Ph.D., The Hebrew Univ. 1980
Research Interests: Phenotypic plasticity in the root system of desert plants.

Integration between parts of the root system as a response to environmental factors. Below ground habitat selection in plants. I test among a passive model of habitat selection, an animal-based model (ideal free distribution, Fretwell and Lucas 1970), and a game theoretic model that permits plants to adjust their root growth strategy to the roots of competing plants.

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GERTSBAKH, ILYA - Probability & Statistics

Ph.D., Latvian Acad. of Sciences, 1964
Research Interests: Applied probability & statistics. Operations research. Reliability theory.

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GERSTEN, ALEXANDER - Physics
Ph.D., Weizmann Inst., 1967

Research Interests: Foundation of quantum physics. Applications of physics in medicine.

gersten@bgu.ac.il

GILL, DAVID – (emeritus) Physics
Ph.D., Weizmann Inst., 1958

Research Interests: Biological physics.

dgill@bgu.ac.il

GITELSON, ANATOLY A. - Geological and Environmental Sciences

Ph.D.: Rostov-on-Don-State Univ., 1972
Research Interests: Physics and techniques of remote sensing.

gitelson@bgumail.bgu.ac.il

GLASER, ROBERT - Chemistry
Ph.D., Rutgers Univ., 1969

Research Interests: Stereochemistry. Nuclear magnetic resonance (NMR) spectroscopy. Drug polymorphism by solid-state NMR. Drug structure determination. Molecular modeling. Structural medicinal chemistry.

glaser@bgu.ac.il

GOLDBERG, MAYER – Computer Science

Ph.D., Indiana Univ., 1996
Research Interests: Programming languages. Semantics. Lambda-calculus. pi-calculus compiler optimizations. Continuations and control. Functional programming and object orientations.

gmayer@cs.bgu.ac.il

GOLDGUR, YEHUDA - Chemistry
Ph.D., The Weizmann Inst., 1998

Research Interests: X-ray crystallography of proteins, nucleic acids and their complexes. Protein-nucleic acid interactions.

ygoldgur@bgu.ac.il

GOL'DSHTEIN, VLADIMIR - Mathematics

Ph.D., Novosibirsk State Univ., 1971
Research Interests: Functional analysis. Analysis on manifolds. Quasiconformal mappings. Chemical engineering science.

vladimir@math.bgu.ac.il

GOREN, SHAUL - Physics

Ph.D., McMaster Univ., Canada, 1968.
Research Interests: Nuclear magnetic resonance. Spin relaxation.

Superconductivity,

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GORODETSKY, GAD - Physics
Ph.D., The Weizmann Inst., 1968.
Research Interests: Ultrasonics.
Magnetism. Thin films.
gorodet@bgu.ac.il

GORODETSKY, MALKA - Chemistry & Education
Ph.D., The Hebrew Univ., 1964
Research Interests: Chemical education.
Problem solving in science. Teachers' Development. School interventions.
malka@bgu.ac.il

GRANOT, YOSEF - Life Sciences
Ph.D., The Hebrew Univ., 1973
Research Interests: Tyrosine kinase activity of oncogene protein products and growth factor receptors. Protein substrates for the tyrosine kinase activity of growth factor receptors. Inhibitors of the tyrosine kinase activity as regulators of cell biochemical functions. Signal transduction regulated biochemical functions induced by growth factors and peptide hormones.
ygranot@bgu.ac.il

GUDES, EHUD – Computer Sciences
Ph.D., Ohio State Univ., 1976
Research Interests: Data base. Data security, Data mining.
ehud@cs.bgu.ac.il

GUENDELMAN, EDUARDO - Physics
Ph.D., Mass. Inst. Tech., U.S.A. 1985
Research Interests: Elementary particles. Gravity theory. Quantum field theory. Cosmology.
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GUREVICH, NADYA - Mathematics
Ph.D., The Weizmann Inst., 2000
Research Interests: Automorphic form. L-Function .
ngur@math.bgu.ac.il

HATZOR, YOSSEF H. - Geological & Environmental Sciences
Ph.D., Univ. of California, Berkeley, 1992
Research Interests: Geological engineering.
Rock mechanics, Block theory. Mechanical behavior of rocks. Rock slope stability. Tunneling. Discontinuous deformation analysis (DDA).
hatzor@bgu.ac.il

HERSONSKY, SA'AR-DAVID - Mathematics
Ph.D.: Univ. of Illinois at Chicago, 1994
Research Interests: Hyperbolic manifolds Riemann sur faces and Teichmuller theory.
saar@math.bgu.ac.il

KHODORKOVSKY, VLADIMIR - Chemistry
Ph.D., Riga Technical Univ., 1986.
Research Interests: Synthesis of organic compounds with unusual physical properties: Organic metals. Non-linear optics. Supra-molecular chemistry.
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HOROVITZ, BARUCH - Physics
Ph.D., The Hebrew Univ., 1976.
Research Interests: Condensed matter physics. Phase transitions. Statistical mechanics.
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HOROWITZ, YIGAL - Physics
Ph.D., McGill Univ., Canada., 1968
Research Interests: Radiation physics. Radiation induced thermoluminescence.
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ISSAR, ARIE S. – (emeritus) Geological & Environmental Sciences
Ph.D., The Hebrew Univ., 1961
Research Interests : Hydrogeology of arid basins. Hydrological aspects of paleo-climate and climatic changes.

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ITAI, CHANAN - (retired) Life Sciences
Ph.D., The Hebrew Univ., 1968
Research Interests: Stress physiology.
Regulation of plant response to the
environment-drought, temperature and
salinity. Stomatal physiology.
itai@bgu.ac.il

JELINEK, RAZ - Chemistry
Ph.D., Univ. of California, Berkeley,
1993.
Research Interests: Biophysics. Biological
sensors. Nuclear magnetic resonance
spectroscopy (NMR). Proteins and
peptides.
razj@bgu.ac.il

JUNG, GRZEGORZ - Physics
Ph.D., Inst. of Physics of the Polish Acad.
of Sciences, 1980
Research Interests: Superconductivity.
Noise.
jung@bgu.ac.il

KAGAN-ZUR, VARDA – Life Sciences
Ph.D., Ben-Gurion Univ., 1970
Research Interests: Molecular biology of
Mycorrhiza and truffle cultivation.
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KATZ, BENJAMIN - Chemistry
D.Sc., The Technion, 1967
Research Interests: Physical chemistry.
Molecular dynamics. Laser chemistry.
Spectroscopy. Use of colloid semi-
conductors in biophysical systems.
benikatz@bgu.ac.il

KATZ, MATYA - Computer Science
Ph.D., Tel-Aviv Univ., 1995
Research Interests: Computational
geometry (CG) – theory and applications;
Geometric software. Theoretical work in
CG focusing on optimization algorithms,
and devising efficient geometric data
structures and algorithms for input models

tailored to real-world data. Issues in
computer graphics. GIS manufacturing
processes. Facility location and layout of
VLSI circuits. Computational molecular
biology and robotics.
matya@cs.bgu.ac.il

KATZIR, YARON - Geological
& Environmental Sciences
Ph.D., The Hebrew Univ., 1998
Research Interests: Igneous and Meta-
morphitic petrology. Stable isotope
geochemistry. Tectonics of orogens
focused on the Alpine-Himalayan and the
Pan-African orogen.
ykatzir@bgu.ac.il

KEASAR, CHEN – Computer Sciences
& Life Sciences
Ph.D., The Hebrew Univ., 1998
Research Interests: Bioinformatics, mainly
focusing on the attempt to break the
("second level") of the genetic code, the
coding of structure and function by amino
acid sequences.
keasar@cs.bgu.ac.il

KEDEM, KLARA - Computer Science
Ph.D., Tel-Aviv Univ., 1989
Research Interests: Computational
geometry. Computer vision. Shape
resemblance. Geometric aspects of
computational biology: Proteins, RNA.
klara@cs.bgu.ac.il

KIFLAWI, MOSHE – Life Sciences,
The Interuniversity Inst. for Marine
Sciences in Eilat.
Ph.D.: Univ. of New Mexico, USA, 1999.
Research Interests: Community &
evolutionary ecology. Early life-history
of coral-reef fish.
mkiflawi@bgu.ac.il

KHODORKOVSKY, VLADIMIR -
Chemistry
Ph.D., Riga Technical Univ., 1986.
Research Interests: Synthesis of organic
compounds with unusual physical

properties: Organic metals. Non-linear optics. Supra-molecular chemistry.
hodor@bgu.ac.il

KISCH, HANAN J. - (emeritus)
Geological & Environmental Sciences
D.Sc., Univ. of Amsterdam, 1962
Research Interests: Very-low-grade Metamorphism and burial diagenesis: Phyllosilicates replacement; illite/phengite 'crystallinity'; Coalification; Carbonic fluid-inclusion geothermometry and -barometry; Mica lattice parameters and P/T gradients; composition of phyllosilicates; Development of slaty and crenulation cleavage: Morphology of cleavage fragments, microfabric, quantification of cleavage intensity; Marginal zones of orogenic belts (Scandinavian Caledonides, Western Alps, (Hellenides, Early Archaean). Rock-forming minerals; especially amphiboles and phyllosilicates; Metamorphic microfabrics; Lattice-preferred orientation by x-ray diffraction.
kisch@bgu.ac.il

KOJMAN, MENACHEM - Mathematics
Ph.D.: The Hebrew Univ., 1994
Research Interests: Infinite combinatorics. Model theory. Infinite graph theory. PCF theory. Topology and forcing.
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KORN, CHARLES - Physics
Ph.D., The Weizmann Inst., 1972
Research Interests: Nuclear magnetic resonance. High Tc superconductors.
korn@bgu.ac.il

KOST, DANIEL - Chemistry
Ph.D., Tel Aviv Univ., 1970
Research Interests: Physical organic chemistry. Stereochemistry, N.M.R. spectroscopy. Hypervalent silicon complexes, charge-transfer molecular complexes. Molecular orbital analysis of structure and mechanism.

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KRICHEVSKY, OLEG – Physics
Ph.D., The Weizmann Inst., 1996
Research Interests: Biological physics. Condensed matter physics. Physics of complex fluids.
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LEVIN, MICHAEL - Mathematics
Ph.D., Haifa Univ., 1993
Research Interests: Topology.
mlevine@math.bgu.ac.il

LIBERSAT, FREDERIC - Life Sciences
Ph.D., Univ. of Bordeaux, 1986
Research Interests: Neural basis of animal behavior. Neuronal plasticity.
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LIKHTENSHEIN, GERTZ - Chemistry
D.Sc., Inst. Chem. Phys., Moscow, 1972
Research Interests: Chemical biophysics. Mechanism of enzyme catalysis. Structure and dynamics of proteins and bio-membranes. Biosensors.
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LIN, MICHAEL - Mathematics
Ph.D., The Hebrew Univ. 1971
Research Interests: Operator ergodic theory. Markov processes. Functional analysis.
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LIVSIC, MOSHE - (emeritus)
Mathematics
Ph.D., Univ. of Odessa, 1942
Research Interests: Operator theory. Determinantal curves system theory.
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LOMONOSOV, MICHAEL -
Mathematics
Ph.D., IPPI, Moscow, 1975
Research Interests: Graph theory. Discrete optimization. Network reliability

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MANASSEN, YISHAY - Physics
Ph.D., Tel-Aviv Univ., 1988
Research Interests: Scanning probe
microscopy. Nanomagnetism. Kinetics of
epitaxial growth. Nano-device fabrication.
Development of new scanning probe
techniques. Corrosion of heavy metal
manassen@bgu.ac.il

MANOR, YAIR - Life Sciences
Ph.D., The Hebrew Univ., 1995
Research Interests: Focus on mechanisms
of generation and regulation of rhythmic
activity in neural networks.
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MARKUS, ALEXANDER – (emeritus)
Mathematics
Ph.D., Univ. of Baku, USSR, 1959
Research Interests: Operator theory.
Functional analysis. Matrix theory.
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MARGALITH, JOEL - (emeritus)
Life Sciences
Ph.D., The Hebrew Univ., 1975
Research Interests: Biological control of
pests, ecology and epidemiology of
mosquito producing ecosystems.
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MEDALIA, OHAD – Life Sciences NIBN
Ph.D., The Weizmann Inst., 2002
Research Interests – Cryo-EM. Cryo-
tomography of cells and organelles.
Structure analysis of the nuclear transport
machinery. Cytoskeletal architecture.
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MEIR, YIGAL - Physics
Ph.D., Tel-Aviv Univ. 1988.
Research Interests: Condensed matter
theory. Mesoscopics and many body
problems.
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MEISELS, AMNON - Computer Science
Ph.D. in Physics, Ben Gurion Univ., 1979
Research Interests: Constraint processing.
Timetabling problems. Distributed
constraints. Distributed timetabling.
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MELKMAN, AVRAHAM - Computer
Science
Ph.D., Univ. of California at Berkeley,
1971
Research Interests: Clustering algorithms
for microarrays and applications.
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MERON, EHUD - Physics -
Blaustein Institute for Desert Research
Ph.D., Weizmann Inst., 1986
Research Interests: Nonlinear dynamics
and pattern formation. Physics of complex
systems. Theoretical ecology.
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MEYERSTEIN, DAN - Chemistry
Ph.D., The Hebrew Univ., 1965
Research Interests: Inorganic chemistry.
Catalysis. Radical chemistry. Redox
processes. Complexes with metal carbon
bonds. Bioinorganic chemistry
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MISHMAR, DAN – Life Sciences, NIBN
Ph.D.: The Hebrew Univ., 2000
Research Interests: Population genetics of
the Mitochondria . Genetics of age related
disorders: type II diabetes and age-related
macular degeneration. Mitochondrial
evolution.

MIZRAHI, YOSEF - Life Sciences
Ph.D., The Hebrew Univ., 1972
Research Interests: Introduction of wild
fruit trees as crops to desert areas.
Production under salinity. Biology of
cacti. Nonripening mutants. Secondary
metabolites from exotic edible fruits

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MOALEM, AMNON - Physics
Ph.D., Tel-Aviv Univ., 1972
Research Interests: Nuclear reaction and nuclear structure. Meson hydroproduction. CP and CTP violations in π (1020MeV) decays. Chiral theory of vectors. Nuclear medicine.

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Ph.D., The Hebrew Univ. 1972
Research Interests: Optical diagnostic and medical informatics.

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MOREH, RAYMOND - (emeritus)
Physics

Ph.D., The Hebrew Univ., 1965
Research Interests: Nuclear physics. Surface physics. Scanning tunneling microscope.

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Ph.D., Weizmann Inst., 2001

Research Interests: Cryptography. Data privacy.

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OWEN, DAVID - Physics
Ph.D., The Johns Hopkins Univ., 1970

Research Interests: Quantum electrodynamics. Field theory. Kaluza-Klein. General relativity. Dark matter.

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OVADIA, OFER – Life Sciences
Ph.D., Ben-Gurion Univ., 1999

Research Interests: Developing analytical theory and computational models linking evolutionary biology and population/community ecology. Using molecular techniques and arthropod communities as a model system to investigate links between trait (e.g. morphology, behavior and life history) variation and population/

community dynamics.

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PAKOVICH, FEDOR - Mathematics
Ph.D., Inst. Fourier, Grenoble Univ., 1997
Research Interests: Complex analysis . Number theory.

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Ph.D., Brandeis Univ., 1974

Research Interests: Biophysical chemistry. Biochemistry. Membrane dynamics. Single photon and phase modulation spectro- fluorometry. Viral transformation. Bioelectromagnetics. Tryptophanase: quaternary structure vs. activity: protein-protein recognition. Adenosine deaminase in SCID, AIDS and as a malignancy marker. Adenosine deaminase complexing protein (ADCP=CD26=DPPIV). Ciliary motion: signaling membrane dynamics. Protein reconstituted in liposomes: cholesterol and temperature effect. Angiogenesis. Membrane domains and bacterial cell cycle. Apoptosis.

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PELLY, ITHAMAR – (retired) Geological & Environmental Sciences

Ph.D., The Hebrew Univ., 1967

Research Interests: Analytical geochemistry. Applied geochemistry and mineralogy. Thermal analysis. Phosphates. Coals and coal ash. Neutralization of acidic sludges using coal fly ash. Heating stage microscopy. Environmental chemistry.

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PERETZ, RONEN - Mathematics & Computer Science

Ph.D., The Technion, 1989

Research Interests: Algebraic geometry . Polynomial mappings. Complex analysis (extremal problems, geometric function theory, circle packing).

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PINES, EHUD - Chemistry
 Ph.D., Tel-Aviv Univ., 1989
 Research Interests: Laser spectroscopy of ultrafast phenomena. Ultrafast bimolecular reaction dynamics in solution. Acid-base processes in inhomogeneous aqueous media and at surfaces of macromolecules. Non-specific (medium) control of biological reactivity.
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PINSHOW, BERRY - Life Sciences
 Ph.D., Duke Univ., 1975
 Research Interests: Animal-environment energy and water exchange. Heat, water and salt balance in desert animals and flying birds. The physiological ecology of migrating birds.
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POLAK, MICHA - Chemistry
 Ph.D., Tel-Aviv Univ., 1975
 Research Interests: Surface science: Surface segregation and ordering (SRO, LRO) in binary and ternary alloys including nano-clusters (statistical mechanical computations of compositions structures and heat capacity). Surface analysis by electron spectroscopies (XPS, AES).
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PRIEL, ZVI - Chemistry
 Ph.D., Weizmann Inst., 1970
 Research Interests: Physical chemistry and biophysics. Ciliary motion. Signal transduction. Intercellular Ca^{2+} . Macromolecules. Colloids. Surface science.
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PROSS, ADDY - Chemistry
 Ph.D., Univ. of Sydney, 1970
 Research Interests: Physical organic chemistry. Theoretical organic chemistry. Application of qualitative models for understanding organic reactivity. Origin of life. Mechanism for emergence of

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 D.Sc.: The Technion, 1969
 Research Interests: Biological physics. Nonlinear dynamics. Fracture physics.
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 Ph.D., Weizmann Inst., 1976
 Research Interests: Genome stability: Link between the DNA damage response and the ubiquitin-proteasome system of protein degradation.
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 Ph.D., The Univ. of Illinois at Urbana-Champaign, 1989
 Research Interests: Experimental condensed matter physics. Semiconductor thin films. Optical and structural properties of quantum nanostructures.
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 Ph.D., The Hebrew Univ., 1972
 Research Interests: Electro-optics. Lasers Atmospheric processes. Laser controlled reactions. Chemical lasers. Molecular dynamics.
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 Ph.D., The Hebrew Univ., 1976
 Research Interests: Mathematical logic. Set theoretic topology. Complexity of algorithms.
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 Ph.D., The Latvian Academy of Science, 1973
 Research Interests: Theory of transport processes and applications to semiconductors and chemical engineering.

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Research Interests: Comparative and applied endocrinology. Regulation of crustacean reproduction and growth.
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SCHARF, BENJAMIN - Chemistry
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Research Interests: Theoretical chemical physics. Molecular spectroscopy. Vibronic coupling.
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Ph.D., The Hebrew Univ. 1985
Research Interests: Finite groups. Finite geometries. Combinatorial topology.
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Ph.D., The Hebrew Univ., 1963
Research Interests: Physical applications of bundle theory. Quantum field theory. Physical fibre applications of algebraic topology.
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SHAANAN, BOAZ – Life Sciences
Ph.D., Tel-Aviv Univ., 1979
Research Interests: Structure determination of biological macromolecules by X-ray crystallography and structure-function studies. Current specific interests: Structure-function studies on: ACT-domain containing enzymes (acetohydroxy acid synthase, threonine deaminase): Poorly conserved ORFs (PCOs) from halophilic archaea. Protein kinases. Membrane proteins (VDAC).
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SHAGAM, REGINALD - (retired)
Geological & Environmental Sciences
Ph.D., University of Princeton, 1956

Research Interests: Large scale tectonics, particularly origin of mountain belts with special focus on the Andes in Venezuela and Colombia.
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SHAKED, HAGAI - Physics
Ph.D., Univ.of California, USA, 1963
Research Interests: Condensed matter. Crystal and magnetic structures. Neutron scattering
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Ph.D., Weizmann Inst., 1965
Research Interests: Organic chemistry. Chemical communication (pheromones). Natural products. Jojoba utilization. Organic photochemistry. Applied chemistry.
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SHAPIRA, MICHAL – Life Sciences
Ph.D., The Weizmann Inst., 1985
Research Interests: Gene expression in parasitic and free living Protozoa. Particular current interest: Transcriptional and post-transcriptional regulation in *Leishmania*. The stress response and stage differentiation. Translational regulation in *chlamydomonas reinhardtii*. Molecular genetics and genetic transformation of red microalgae.
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SHAPIRO, JESSE M. - (emeritus)
Mathematics & Statistics
Ph.D., Univ. of Minnesota, 1954
Research Interests: Probability & Statistics.
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Ph.D., Brown Univ., 1991
Research Interests: Artificial intelligence. Probabilistic reasoning. Application of probabilistic reasoning to search, constraint

satisfaction, data mining, robotics, pattern recognition (vision, sonar sensing), AI and law, spatial databases. Bounded rationality and flexible computation (anytime algorithms).

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SHOSHAN-BARMATZ, VARDA –
Life Sciences

Ph.D., The Weizmann Inst., 1978

Research Interests: Muscle, Excitation-contraction coupling. Sarco-plasma reticulum membranes. Regulation of myoplasmic Ca^{2+} concentration. active ion transport: Coupling mechanism for ATP-dependent ion transport. Protein phosphorylation/dephosphorylation. Ryanodine receptor/ Ca^{2+} release channel. ATP transport, protein/VDAC proteins; Ca^{2+} transport in mitochondria. Crosstalk between cellular compartments.
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SHUKER, REUBEN - Physics

Ph.D., Catholic Univ. of America, 1971

Research Interests: Quantum optics. Laser without inversion. Nonlinear optics. Raman scattering in solids. Lasers. Discharges and modelling and optogalvanic effect and spectroscopy. Atomic physics.
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SIPPER, MOSHE – Computer Science

Ph.D., Tel-Aviv Univ., 1995

Research Interests: Evolutionary algorithms. Bio-inspired systems computing. Complex biological. Networks, and AI & games.
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Life Sciences

Ph.D., Cornell Univ., 1965

Research Interests: The effects of high ambient temperature and pesticides on reproduction of mammals and thermoregulation.

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STEINITZ, RAPHAEL - Physics

Ph.D., The Univ. of Leiden, Holland, 1964

Research Interests: Astrophysics. Solar physics. Magnetic fields. Chemical abundances. Stellar coronae. Stellar winds. Diamagnetic effects. Dielectronic recombination. Spin correlation in binaries. Sociobiological aspects of aggression. Violence and of human culture.

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TAL, MOSHE – (emeritus) Life Sciences

Ph.D., Univ. of California, 1965

Research Interests: The role of the active oxygen species and the antioxidative system in the mechanism of stress tolerance. Genetics and physiology.

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TANNENBAUM, EMANUEL –
Chemistry

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Research Interests: Theory of DNA mutation and repair. Biological network modeling. Dynamics. Extensions of quasispecies multicellular organisms. Cell differentiation and communication.

THIEBERGER, REUBEN - (emeritus)
Physics

Ph.D., Weizmann Inst., 1958

Research Interests: Non-linear dynamics. Astrophysics. Statistical mechanics.

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TKACHENKO VADIM - Mathematics

Ph.D., Inst. for Low Temperatures,

Kharkov, 1966

D.Sc., Steklov Inst., Leningrad, 1982

Research Interests: Theory of functions . Differential operators.

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TREBITSH, TOVA – Life Sciences
Ph.D., The Hebrew Univ., 1994
Research Interests: The molecular basis for regulation of sex determination in plants. Floral buds abortion and programmed cell. Death in plant reproduction.

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TSUKERBLAT S. BORIS - Chemistry
Ph.D., Kazan State Univ., 1967
D.Sc., State Univ. of Tartu, 1975
Research Interests: Molecular magnetism, magnetic interactions in metal clusters, mixed valency and double exchange. Vibronic interactions and Jahn-Teller effect in molecules and crystals. Optical properties of molecules, transition metal complexes and impurity centers in doped crystals. Group theory and theory of the irreducible tensor operators with application to the problems of spectroscopy and molecular magnetism.

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Research Interests: Nonlocal bifurcations in dynamical systems.

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Research Interests: Theoretical atomic, molecular and optical physics. Theoretical chemical physics; Bose-Einstein condensation. Nonlinear and quantum atom-optics. Molecular and coupled atom-molecule condensates. Quantum dynamics of Bose-Josephson systems. Collective processes in quantum-degenerate gases. Photoassociation. Ultracold molecules. Theory of adiabatic population transfer. Laser modified tunneling.

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VENGOSH, AVNER - Geological
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Ph.D., Australian National Univ., 1990
Research Interests: Low-temperature geochemistry. Water quality. Isotope hydrology. Salinization processes and water contamination.

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Research Interests: Operator theory system theory. algebraic geometry.

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Ph.D., Ben-Gurion Univ., 2002
Research Interests: Plant conservation biology, reintroduction. Plant population ecology. Ecological genetics. Natural selection in plant populations.

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WEINSTOCK, IRA ALAN – Chemistry
Ph.D.: Mass. Inst. of Tech., 1990, USA
Research Interests: Inorganic synthesis, structure & reactivity. New catalysis & reaction. Electron transfer in societally important enzymatic and catalytic processes & devices.

WEISS, BARAK - Mathematics
Ph.D., The Hebrew Univ., 1998
Research Interests: Dynamical systems and ergodic theory; especially, subgroup actions on homogeneous spaces. Finite dimensional representation and applications to number theory.

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Chemistry
Ph.D., The Hebrew Univ., 1964
Research Interests: Physical chemistry. Molecular spectroscopy, processes in the picosecond range via IR spectroscopy.

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WITZTUM, ALLAN – Life Sciences

Ph.D., Cornell Univ., 1966
 Research Interests: Plant structure.
 Lemnaceae. Acanthaceae. Seed dispersal.
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 Ph.D., MIT, 1990
 Research Interests: Algebraic geometry &
 noncommutative algebra.
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 Ph.D., The Weizmann Inst., 1999
 Research Interests: Long range effects in
 protein function: allosteric mechanisms
 and
 conformational transitions underlying
 energy transduction. Molecular
 mechanisms of ligand- and voltage-gated
 ion channels. Interactions of ion channels
 with scaffolding proteins underlying
 synapse formation and maintenance.
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 Research Interests: Algebraic Geometry &
 Analysis.
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 Biotechnology Engineering
 Ph.D., The Weizmann Inst., 1992
 Research Interests: Physiological and
 Molecular aspects of flowering. Flowering
 control and quality of ornamental plants.
 Plant genetic engineering.
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ZALTZMAN, BORIS - Mathematics
 Ph.D.: Novosibirsk State Univ., 1989
 Research Interests: Theory of transport
 processes and applications to phase
 transitions and semiconductors.
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Ph.D., Univ. of Leicester, 1971
 Research Interests: Biological control of
 mosquitoes. Bacterial physiology and
 genetics.
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 Institute for Desert Research
 Ph.D.: Weizmann Inst. 1958
 Research Interests: Nonlinear dynamics.
 Solar energy. Stochastic processes.

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 Ph.D., The Weizmann Inst., 2000
 Research Interests: Molecular mechanisms
 underlying pattern formation during plant
 development. In particular, differentiation
 of specific organ types in flowers and the
 function of genes involved in these
 processes.
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ZILBERBERG, NOAM – Life Sciences
 Ph.D., Tel-Aviv Univ., 1997
 Research Interests: Biophysics of
 potassium channels. Potassium leak. The
 interactions of neurotoxins with ion
 channels.
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ZIV, ALON - Geological &
 Environmental Sciences
 Ph.D., University of Princeton, 2001
 Research Interests: Application of
 fracture mechanics to geophysical
 problems. Earthquake mechanics.
 Time-space analyses of natural
 and simulated seismicity.
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 Ph.D., Univ. of Arizona, 1998
 Research Interests: Population ecology.
 Community ecology. Landscape ecology
 and conservation biology.
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