

FACULTY MEMBERS

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

ABRAHAM, URI - Mathematics &
Computer Sciences
Ph.D., The Hebrew Univ., 1979
Research Interests: Set theory.
Mathematical logic.
Concurrency (in Computer Science).
abraham@math.bgu.ac.il

ABRAMOVICH, SIGAL - Geological &
Environmental Sciences
Ph.D., Univ. of Princeton, 2002
Research Interests: Paleoecology and
ecology of modern and Cretaceous
Foraminifera. Foraminifera as
paleoceanographic & paleoclimatologic
proxies.
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.
Interspecific competition and risk of
predation in structuring communities of
desert rodents. The relationship between
productivity and diversity and
reconciliation ecology.
zvika@bgu.ac.il

ADAR, EILON - Geological &
Environmental Sciences; joint appointment
with Blaustein Inst. Desert Research.
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

AHARONI, AMIR – Life Sciences
Ph.D., The Weizmann Institute, 2002
Research Interests: Engineering proteins with new
functions. Engineering proteins for new binding activities
to study complex biological processes. Generation of
enzymes with new catalytic properties.
aaharoni@bgu.ac.il

AHARONY, AMNON - Physics
Ph.D., Tel-Aviv Univ., 1971
Research Interests: Theoretical
condensed matter physics: Quantum theory of
mesoscopic systems. Statistical physics. Random
systems.
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ALPAY, DANIEL - Mathematics
Ph.D., The Weizmann Inst., 1985
Research Interests: Operator theory system theory.
Interpolation problems. Riemann surfaces.
dany@math.bgu.ac.il

ALTSHULER, AMOS - Mathematics (emeritus)
Ph.D., The Hebrew Univ., 1970
Research Interests: Convex polytopes. Graph theory.
Combinatorial topology.
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ASHKENASY, GONEN - Chemistry
Ph.D., Weizmann Institute of Science, 2001
Research Interests: Bioorganic Chemistry. Peptide and protein
chemistry.
Biomimetic catalysis. Molecular networks.
Synthetic receptors and catalysts.
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AVISHAI, YSHAI – Physics (emeritus)
Ph.D., The Weizmann Inst., 1970
Research Interests: Theoretical
condensed matter physics.
yshai@bgu.ac.il

AZMON, EMANUEL –Geological
& Environmental Sciences (retired)
Ph.D., Univ. of S. California, 1960
Research Interests: Sedimentology.
Airborne dust. Flow of waste through
fractures and porosities. Role of clays
in energetic and mineralogical changes.
Heavy minerals provenance in dust.
Author of fourteen scientific novels.
azmon@bgu.ac.il

BACHMAT, EITAN - Computer Science
Ph.D., Massachusetts Institute of
Technology, U.S.A. 1994
Research Interests: Performance Analysis.
Storage Systems.
ebachmat@cs.bgu.ac.il

BAHAT, DOV –(Emeritus) 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 Science
Ph.D., Weizmann Institute of Science, 1982
Research Interests: Conceptual modelling,
Software engineering, Databases
(semantics), knowledge representation (time,
description logics), Computer music
(computational view of music concepts).
mira@cs.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.
band@bgu.ac.il

BAR, ILANA - Physics
Ph.D., Ben-Gurion Univ., 1982
The Institutes for Applied Research
Research Interests: Molecular dynamics .
Laser-based spectroscopic methods.
ibar@bgu.ac.il

BAR-ZVI, DUDY – Life Sciences
Ph.D., Ben-Gurion Univ., 1984
Research Interests: Plant molecular
biology. Stress regulated plant genes.
Bioenergetics.
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BAR-TOUV, YAACOV - (emeritus) Physics
Ph.D., The Weizmann Inst., 1966
1966Research Interests: Nuclear physics.
Mesoscopic physics.
bartouv@bgu.ac.il

BARAK, ZE'EV – Life Sciences
Ph.D., Weizmann Inst., 1972
Research Interests: Structure-function relationship in
enzymes and their applied biotechnological implication.
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.
barakz@bgu.ac.il

BARASH, DANNY - Computer Science
Ph.D., University Of California at Davis, 1999
Research Interests: Bioinformatics, RNA Structure,
Imaging, Scientific Computing, Numerical Analysis.
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BECKER, JAMES Y – Chemistry
Ph.D., The Hebrew Univ., Jerusalem, 1973
Research Interests:
1) Organic electrochemistry - Synthesis, properties and
mechanisms:
a) Organosilicon compounds;
b) Functionalization of organic molecules;
c) Electrocatalysis;
d) Electrochemistry in ionic liquids.
2) Molecular organic conductors: synthesis, structure,
charge-transfer complexes and ion-radical salts,
conductivity, electrochemistry and spectral properties;
3) Spectroscopy and electrochemistry of organic
complexes of biologically important metal cations
becker@bgu.ac.il

BEIMEL, AMOS - Computer Science
D.Sc., Technion, Haifa, 1996
Research Interests: Cryptography. Complexity Theory.
beimel@cs.bgu.ac.il

BEJERANO-ROTH NURIT – Life Sciences - (retired)
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

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

BELTSKII, GENRICH - Mathematics
Ph.D., Kharkov, 1966
Research Interests: Local theory of dynamical
systems. Functional equations. Smooth
dynamical systems.
genrich@math.bgu.ac.il

BEN-ABRAHAM, SHELOMO I.- Physics
(emeritus) Ph.D., The Czechoslovak Acad. of
Sciences, 1961 .
Research Interests: Condensed matter. Statistical
mechanics .
benabr@bgu.ac.il

BEN-SHAHAR, OHAD – Computer Science
Ph.D., Yale University, 2003
Research Interests: Computational vision and
image understanding, Human perception and visua
psychophysics, Computational neuroscience of
visual systems, Interface between vision, graphics,
and robotics.
ben-shahar@cs.bgu.ac.il

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.
yoel@bgu.ac.il

BEREND, DANIEL – Mathematics, Computer
Science.
Ph.D., Hebrew University, 1982
Research Interests: Number Theory. Applied
Probability and Statistics. Combinatorial
Algorithms. Decision - Making.
berend@cs.bgu.ac.il

BESSER, AMNON - Mathematics
Ph.D., Tel-Aviv Univ., 1994
Research Interests: Arithmetical algebraic geometry
bessera@math.bgu.ac.il

BITTNER, SHMUEL – Chemistry (emeritus)
Ph.D., The Hebrew Univ., 1965
Research Interests: Organic synthesis. Natural products.
Quinocchemistry. 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 University, 1996
Research Interests: Automated Planning and Decision
Making. Decision Support Systems. Modeling and
Reasoning about Preferences. Multi-Agent Learning.
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BRIK ASHRAF - Chemistry
Ph.D.; Technion-Israel Institute of Technology, 2001
Research interest: Organic and Bioorganic Chemistry,
Enzyme inhibition, Peptidomimetics, Protein Chemistry,
Glycopeptide and Glycoprotein Synthesis,
Posttranslational Modification and Protein Function.
abrik@bgu.ac.il

BRUSTEIN, RAM - Physics
Ph.D., Tel Aviv Univ .
Research Interests: Theoretical high-energy
physics , cosmology. Astro-particle physics.
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CARMI, PAZ- Computer Science
Ph.D., Ben Gurion University, 2006
Research Interests: Computational geometry -
theory and applications. Within computational
geometry my research is focused on
approximations, optimization problems, facility
location, radio and sensor networks, and
spanners.
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CHAYOTH, REUBEN – Life Sciences -
(retired)
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.
chipman@bgu.ac.il

CODISH, MICHAEL - Computer Science
Ph.D., Weizmann Institute of Science, 1991
Research Interests: Semantic Based Program
Analysis.
mcodish@cs.bgu.ac.il

COHEN, DORON - Physics
Ph.D., 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 quantum Brownian Motion.
dcohen@bgu.ac.il

COHEN, MIRIAM - Mathematics
Ph.D., Tel-Aviv Univ., 1976
Research Interests: Noncommutative algebras. Hopf algebras. Quantum groups.
mia@math.bgu.ac.il

DABOUL, JAMIL – Physics (retired)
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.
daboul@bgu.ac.il

DAVIDSON, AHARON - Physics
D.Sc., The Technion, 1977
Research Interests: Gravity. Cosmology. Dark matter. Higher dimensional field theory. Electro/nuclear interactions.
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DINITZ, YEFIM - Computer Science
Ph.D., Institute of Mathematical Economics, Moscow, 1973
Research Interests: Graph Algorithms. Network Flows. Future Internet. Combinatorial Algorithms. Imbedding and Layout of Interconnection Networks. Distributed Computing. Visualization of Algorithms.
dinitz@cs.bgu.ac.il

DINUR, URI - Chemistry
Ph.D., The Hebrew Univ., 1979
Research Interests: Theoretical physical chemistry. Molecular interactions.
uridinur@bgu.ac.il

DOLEV SHLOMI - Computer Science
D.Sc. Technion, IIT, 1992
Research Interests: Distributed Algorithms. Communication Networks. Fault-Tolerance. Self-Stabilization. Cryptography, Optical computing.
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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: Archaea. Post-translational modifications. Protein Glycosylation. Protein translocation.
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EISENBERG, THEODORE - Mathematics
Ph.D., Univ. of Maryland, 1970
Research Interests: Mathematical education.
Curriculum development/Evaluation math.
Spatial visualization/Concept formation.
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ELGART, ALEXANDER - Mathematics
Ph.D., Technion, 2000
Research Interests: Mathematical Physics, Analysis
elgart@math.bgu.ac.il

ELHADAD, MICHAEL - Computer Science
Ph.D., Columbia University, 1992
Research Interests: Natural Language Generation (FUF).
Automatic Text
Summarization. Hebrew Computational Linguistics.
Software Engineering (Service Oriented Architecture,
Semantic Web Services)
elhadad@cs.bgu.ac.il

ELKIN, MICHAEL - Computer Science
Ph.D., Weizmann Institute of Science, 2002
Research Interests: Graph algorithms, distributed
computing, low-distortion embeddings, approximation
algorithms, hardness of approximation.
elkinm@cs.bgu.ac.il

EL SANA, JIHAD - Computer Science
Ph.D., State University of New York, 1995
Research Interests: Multiresolution Hierarchies, View-
dependent Rendering, Graphics Acceleration, Geometric
Modeling, Computer Graphics, and Virtual
Environments.

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ENTIN-WOHLMAN, ORA - Physics
Ph.D., Bar-Ilan Univ. 1973
Research Interests: Theoretical
condensed matter physics.

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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 &
Sciences Environmental
Ph.D., The Hebrew Univ., 1976 Research
geology, and paleo-stress Interests : Structural
analysis of Israel, and Okanagan area, British
Columbia, Canada. Development of the Dead Sea
Brittle .Rift and associated structures
deformation, joints. Parameters controlling joint
.and pressure solution spacing. Stylolites
eyal@bgu.ac.il

FAIMAN, DAVID - Physic
Inst. for Desert Research
Ph.D., Univ. 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. Degradation processes of organic contaminants.
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

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. Bacterial nucleoid.
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.
fonf@math.bgu.ac.il

FRIEDLANDER, MICHAEL – Life Sciences (emeritus)
Ph.D., The Hebrew Univ., 1967
Research Interests: Insect endocrinology and reproduction. Sperm differentiation. Comparative spermatology and evolution. Biological ultrastructure.
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FUHRMANN, PAUL A. - Mathematics (emeritus)
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: Environmental Geochemistry. Kinetics of dissolution and precipitation of minerals at low temperature-laboratory experiments and modeling.
ganor@bgu.ac.il

GEDALIN, MICHAEL - Physics
Ph.D., Space Res. Inst., Moscow, 1986
Research Interests: Plasma physics. Astrophysics and space physics. Nonlinear phenomena.
gedalin@bgu.ac.il

GHEBER LEAH - Chemistry and Clinical Biochemistry
Ph.D., Ben-Gurion University, 1995
Research interests: molecular motors, single molecule proteins studies, mitosis, cell-cycle regulation, microtubules, cancer, real-time fluorescence imaging, Fluorescence Recovery After Photobleaching (FRAP) on living cells
Office: 972-8-640-0633 Lab: 972-8-640-3382, 972-8-640-0245. Fax: 972-8-628-1361
lgheber@bgumail.bgu.ac.il

GERSANI, MORDECHAI – Life Sciences
(retired)
Ph.D., The Hebrew Univ. 1980 Research Interests:
Penotypic 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 ompeting plants.
gersani@bgu.ac.il

GERSTEN, ALEXANDER - Physics (emeritus)
Ph.D., The Weizmann Inst., 1967
Research Interests: Foundation of quantum physics .
Applications of physics in medicine.
gersten@bgu.ac.il

GERTSBAKH, ILYA - Mathematicis (emeritus)
Ph.D., The Latvian Acad. of Sciences, 1964
Research Interests: Applied probability & statistics.
Operations research. Reliability theory.
elياهو@math.bgu.ac.il

GILL, DAVID - (emeritus) Physics
Ph.D., The Weizmann Inst., 1958
Research Interests: Biological physics .
dgill@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

GLASNER, YAIR - Mathematics
Ph.D Hebrew university of Jerusalem, 2002
Research Interests: Arboreal group theory, graph
theory, p-adic Lie groups and their lattices.
yairgl@math.bgu.ac.il

GOLDBERG, MAYER - Computer Science
Ph.D., Indiana University, 1996
Research Interests: Programming languages,
semantics, lambda-Calculus, compiler
optimizations, continuations and control, threaded
code, functional programming, and object
orientation.
gmayer@cs.bgu.ac.il

GOLDSHTEIN, VLADIMIR-Mathematics
Ph.D., Novosibirsk State Univ., 1971
Research Interests: Functional analysis.
Analysis on manifolds.
Quasiconformal mappings. Chemical
engineering science.
vladimir@math.bu.ac.il

GOREN, SHAUL – Physics (emeritus)
Ph.D., McMaster Univ., Canada, 1968
Research Interests: Nuclear magnetic resonance .
Spin relaxation. Superconductivity.
shaulg@bgu.ac.il

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

GORODETSKY, MALKA – (emeritus) Chemistry & Education
Ph.D., The Hebrew Univ., 1964
Research Interests: Chemical education.
Problem solving in science. Teachers' Development. School interventions.
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GRANOT, YOSEF – Life Sciences
Ph.D., The Hebrew Univ., 1973
Research Interests: Signal transduction regulated biochemical functions induced by growth factors and peptide hormones. Tyrosine kinase activity of growth factor receptors. Inhibitors of the tyrosine kinase activity as regulators of cell biochemical functions. The mitogen activated protein kinases as targets for novel chemotherapeutics.
ygranot@bgu.ac.il

GRINBERG, SARINA - Chemistry
Ph.D., Weizmann Institute of Science, 1981
Research Interests: Synthetic organic chemistry. Vegetable oils as renewable resources for new oleochemicals. Synthesis of new amphiphilic compounds. Novel nanovesicles for targeted drug delivery. Soluble polymer-bound PTCs.
sarina@bgu.ac.il

GUDES, EHUD - Computer Science
Ph.D., Ohio State University, 1976
Research Interests: Data Bases. 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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GUR EYAL – Life Sciences, NIBN
Ph.D. , Tel Aviv University, 2005
Research Interests: Protein quality control mechanisms in Bacteria

GUREVICH, NADYA - Mathematics
Ph.D., The Weizmann Inst., 2000
Research Interests: Automorphic forms. L-Function.
ngur@math.bgu.ac.il

HASSON, ASSAF - Mathematics
Ph.D., Hebrew university of Jerusalem, 2004
Research Interests: Model theory
hassonas@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

HAWLENA HADAS – Life Sciences
Ph.D. , Ben Gurion University, 2006
Research Interests: 1) The dynamics of host-parasite interaction; (2) The ecology of microbial communities, and (3) The ecology and the evolution of vector-borne diseases.

HENDLER, DANNY- Computer Science
Ph.D, Tel-Aviv University, 2001
Research Interests: Distributed computing: distributed algorithms and lower bounds, multi-core systems, transactional memory, scalable shared-memory synchronization, dynamic load-balancing, local-spin mutual exclusion. Communication networks: packet classification using content-addressable-memory.
hendlerd@cs.bgu.ac.il

HIRSHBERG, ILAN - Mathematics
Ph.D., University of California at Berkeley, 2003.
Research Interests: Operator algebras.
ilan@math.bgu.ac.il

HORMADALY , JACOB –Chemistry
Ph.D., The Hebrew Univ., 1977
Research Interests: Inorganic glasses. Glass chemistry and spectroscopy of rare earth and transition metal ions in glasses. Crystallization of glasses. Property composition relations in glass. Lead-free glasses. Solid state chemistry. Conducting oxides. Thick film materials and technology . Lead-free thick film resistors and sensors. Glasses for thick film materials. Electrical conduction mechanisms of thick film resistors.
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HOROVITZ, BARUCH - Physics
Ph.D., The Hebrew Univ., 1976
Research Interests: Condensed matter physics. Phase transitions. Statistical mechanics.
baruch@bgu.ac.il

HOROWITZ, YIGAL – Physics (emeritus)
Ph.D., McGill Univ., Canada., 1968
Research Interests: Radiation physics. Radiation Induced thermoluminescence.
yigal@bgu.ac.il

ISSAR, ARIE S. – (emeritus) Geological & Environmental Sciences
Ph.D., The Hebrew Univ., 1961
Research Interests : Hydrogeology of arid basins. Hydrological aspects of paleoclimate and climatic changes.
issar@bgu.ac.il

ITAI, CHANAN – Life Sciences (retired)
Ph.D., The Hebrew Univ., 1968
Research Interests: Stress physiology. Regulation of plant response to the Environment : drought, temperature and salinity. Stomatal physiology.
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JELINEK, RAZ - Chemistry
Ph.D., Univ. of California, Berkeley, 1993.
Research Interests: Biomimetic chemistry, biosensors, cell membranes, nanoparticles.
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JUNG, GRZEGORZ - Physics
Ph.D., Inst. of Phys. of the Polish Acad. of Sci., 1980
Research Interests: Superconductivity. Noise.
jung@bgu.ac.il

KAGAN-ZUR, VARDA- Life Sciences (retired)
Ph.D., Ben-Gurion Univ., 1970
Research Interests: Molecular biology of Mycorrhiza and truffle cultivation.
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KASHKUSH, KHALIL – Life Sciences
Ph.D., Weizmann Institute, 2003
Research Interests: Genomics, Epigenomics and Genome Evolution. Biodiversity of polyploid plants. Polyploidy regulation of gene expression
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KATZ, BENJAMIN - Chemistry (emeritus)
D.Sc., The Technion, 1967
Research Interests: Physical chemistry. Molecular dynamics. Laser chemistry. Spectroscopy. Use of colloid semiconductors in biophysical systems.
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KATZ, MATYA - Computer Science
Ph.D., Tel-Aviv University, 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, Wireless communication networks, Facility location and layout of VLSI circuits and Robotics.
matya@cs.bgu.ac.il

KATZIR, YARON - Geological & Environmental Sciences Ph.D., The Hebrew Univ., 1998
Research Interests: Igneous and metamorphic petrology. Stable and radiogenic isotope geochemistry. Tectonics of orogens focused on the Alpine-Himalayan chain 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.
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KEDEM, KLARA - Computer Science
Ph.D., Tel-Aviv University, 1989
Research Interests: Application of Computational geometry in Computer Vision graphics and Image processing Bioinformatics.
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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

KISCH, HANAN J. - (emeritus)
Geological & Environmental Sciences
D.Sc., Univ. of Amsterdam, 1962
Research Interests :
Very-low-grade metamorphism and burial diagenesis. Metamorphic microfabrics. Metamorphic white micas: illite/phengite 'crystallinity', lattice parameter b_0 and metamorphic P/T gradients, chemical composition, Na/K micas, deconvolution of XRD reflections .
Slaty and crenulation cleavage - development and quantification of intensity. Lattice-preferred orientation.
Metamorphism in marginal zones of orogenic belts: Scandinavian Caledonides, Western Alps, Hellenides, Archaean greenstone belts.
Rock-forming minerals, especially amphiboles and phyllosilicates.
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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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KONTOROVICH ARYEH – Computer Science
Ph.D., Carnegie Mellon University, 2007
Research Interests: probability theory: concentration of measure, mixing. statistics, empirical processes. machine learning theory: generalization bounds. automata theory: Hilbert-space representations of languages and automata

KORN, CHARLES - Physics (retired)
Ph.D., The Weizmann Inst., 1972
Research Interests: Nuclear magnetic resonance.
High Tc superconductors.
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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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Born: 1969, Argentina
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Research Interests: Synthetic Organic Chemistry,
Dendrimer and Polymer Chemistry, Polymer analysis,
Cross-linking strategies,
Supramolecular Chemistry, Ruthenium Olefin
Metathesis, Polyacetal virtual dynamic combinatorial
libraries and Molecular Modeling.
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Ph.D., Haifa Univ., 1993
Research Interests: Topology.
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Research Interests: Neural basis of animal
behavior. Neuronal plasticity.
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Chemistry
D.Sc., Inst. Chem. Phys., Moscow, 1972
Research Interests: Chemical biophysics.
Mechanism of enzyme catalysis. Structure
and dynamics of proteins and biomembranes.
Biosensors.
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Research Interests: Operator ergodic theory.
Markov processes. Functional analysis.
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Ph.D., Weizmann Inst., 2003
Research Interests: Physical chemistry and
biophysics. Design Principles of Protein
Interaction Specificity. Promiscuity and Plasticity
in Protein Interaction Networks. Biological Self-
assembly.
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Research Interests: Scanning probe microscopy .
Nanomagnetism. Kinetics of epitaxial growth .
Nano-device fabrication. Development of new
scanning probe techniques. Corrosion of heavy
metal.
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ecology and epidemiology of mosquito
producing ecosystems.
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Research Interests: Operator algebras
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Research Interests: Operator theory.
Functional analysis.
Matrix theory.
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Ph.D., 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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Research Interests: Bioorganic Chemistry.
Organic chemistry. Molecular recognition. Quorum
Sensing. Bacterial-Eukaryotic Communication. Anti-
Cancer Agents.
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Research Interests: Constraints Processing. Distributed
Constraints. Timetabling problems. Distributed
Timetabling.
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Research Interests: Condensed matter theory .
Mesoscopics and many body problems.
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algorithms for microarrays, functional prediction.
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Research Interests: Nonlinear dynamics and
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Research Interests: Inorganic chemistry.
Catalysis. Radical
chemistry. Redox processes. Complexes with
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Bioinorganic chemistry
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Research Interests: Population genetics of
human mitochondrial genetic variation. Genetics
of age related disorders: type II diabetes and age-
related macular degeneration.
Mitochondrial evolution.
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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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Research Interests: Nuclear reaction and nuclear structure: Meson hydroproduction. CP and CTP violations in 1020)MeV) decays. Chiral theory of vectors. Nuclear medicine . Pseudoscalars and baryons.
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Research Interest: Nanoscience and Nanotechnology. Synthesis and characterization of novel nanostructures. Renewable energy: Fuel Cells (Hydrogen and Methanol), photo-voltaic (PV). Studying the toxicity of nanomaterials and developing new models to predict their impact on the environment.

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Research Interests: Biophysics, Physical-Chemistry. Proteins and DNA- Structure Dynamics Interaction and Function, Protein-Folding, DNA Mechanical Properties. Understanding Biological Processes on Molecular Level. Developing Methods in Single-Molecule Fluorescence Spectroscopy, Photo-Physics.
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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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Ph.D., Brandeis Univ., 1974
Research Interests: Biophysical chemistry.
Membrane dynamics. Membrane lipid-protein
interaction. Single photon and phase modulation
spectrofluorometry.
Tryptophanase (Tnase): quarternary structure vs.
activity: cold and high pressure inactivation; biofilm
formation; TNase inhibitors as antibiotics, Adenosine
deaminase complexing protein
(ADCP=CD26=DPPIV) and ADA as a malignancy
marker Antiangiogenic drugs. Cell cycle and membrane
domains:
DnaA and macromolecular crowding. Apoptosis,
necrosis and autophagy.
Diagnostics: determination of fetal lung maturity by
non-invasive methods; determination of drug levels in
body-fluids
by 3D fluorescence. Bioelectromagnetics
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Applied geochemistry and mineralogy.
Thermal analysis. Heating stage microscopy.
Environmental chemistry.
Neutralization of acidic
sludges using coal fly ash.
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Research Interests: Algebraic geometry.
Polynomial mappings. Complex analysis
(extremal problems, geometric function theory, circle
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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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Mitrani Dept. of Desert Ecology (BIDR)
Ph.D., Duke Univ., 1975
Research Interests: Physiological ecology of
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between animals and the environment;
thermoregulation and osmoregulation in desert
animals; body composition and water and energy
balances of birds and bats, particularly with
respect to flight and migration.
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Research Interests: Surface Chemistry: surface
segregation
and ordering (SRO, LRO) in binary and ternary
alloys
including nano-clusters (Statistical Mechanical
computations
of site-specific compositional structures).
Nano-Chemistry : Modeling of nano-chemical
equilibrium in
Small groups of molecules (Statistical
Mechanical formulation and computations);
Chemical kinetics in small groups.
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Ciliary motion. Signal transduction. Intercellular Ca^{2+} .
Macromolecules. Colloids. Surface science.
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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. Chemical nature of life.
Mechanism for emergence of biological complexity.
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Research Interests: Biological physics .
Nonlinear dynamics. Fracture physics.
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Research Interests: Genome stability: Link between the
DNA damage response and the ubiquitin-proteasome
system of protein degradation. Protein quality control.
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at Urbana-Champaign, 1989.
Research Interests: Experimental condensed matter
physics Semiconductor thin films. Optical and structural
properties of quantum nanostructures.
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Atmospheric
processes. Laser controlled reactions. Chemical
lasers ,
Molecular dynamics.
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Research Interests: Mathematical logic.
Set theoretic topology complexity of algorithms.
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and applications to semiconductors and chemical
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endocrinology. Regulation of crustacean
reproduction and growth.
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Research Interests: Theoretical chemical physics.
Molecular spectroscopy. Vibronic coupling.
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Research Interests: The neural code of the retina, vision.
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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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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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, NIBN Director Ph.D., Weizmann Inst., 1978
Research Interests: Coupling mechanism for ATP-dependent ion transport. Ryanodine receptor/ Ca^{2+} release channel. ATP transport in synaptic vesicles. Ca^{2+} transport in mitochondria. Crosstalk between cellular compartments. Mitochondrial VDAC: structure-function, apoptosis and cancer.
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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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inspired computing, Complex biological networks, and
AI & games.
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Research Interests: The effects of high
ambient temperature and pesticides on
reproduction of mammals and thermoregulation.
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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 human culture behaviour.
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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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Research Interests: Theory of DNA
mutation and repair. Biological network
modeling. Dynamics. Extensions of quasispecies
multicellular organisms. Cell differentiation
and communication.
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Research Interests: Non-linear dynamics .
Astrophysics. Statistical mechanics .
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1966
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Differential operators.
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Research Interests: Molecular mechanisms
of reproductive biology in plants: floral
sex determination and fruit development.
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Environmental Sciences; joint appointment with
Structural Engineering.
Ph.D., Ben Gurion Univ., 2004
Research Interests: Geomechanics, Soil improvement,
Seismic liquefaction, Geological engineering of
discontinuous rock mass.
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Ph.D., Kazan State Univ., 1967
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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: 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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Research Interests: Operator theory system
theory. Algebraic geometry.
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Research Interests: Physical chemistry of
photovoltaic organic materials, Solar energy,
Molecular electronics. Optoelectronic
characterization of organic materials at high
resolution using Scanning probe microscopy.
Surface science, Thin films, Surface photo-
voltage.
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Research Interests: Plant conservation biology,
reintroduction. Plant population ecology.
Ecological genetics. Natural selection in plant
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Research Interests: Inorganic, coordination chemistry and nanoscience, including green chemistry and catalysis, fundamental studies in structure and reactivity of molecular and nanoscale systems, and the synthesis of soft inorganic materials.
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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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Research Interests: Mathematical tools for designing and analyzing software based control systems. Specially, designing control strategies and architectures for efficient and reliable software based controllers. This requires a combination of applied mathematics and computer science, including mathematical control-theory, formal-methods, software engineering, embedded systems, distributed systems and combinatorial-games.

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Research Interests: Algebraic geometry noncommutative algebra.
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Research Interests: Theory of transport processes and applications to phase transitions and semiconductors.
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Research Interests: Biological control of mosquitoes. Bacterial physiology and genetics.
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Research Interests: Structure function studies of
biological macromolecules.
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Ph.D, Haifa University, 2003
Research Interests: Bioinformatics, String
Algorithms, Combinatorial Pattern Matching,
RNA Structure, Information Retrieval.
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Ph.D., The Weizmann Inst. 1958
Research Interests: Nonlinear dynamics .
Solar energy. Stochastic processes.

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Ph.D., 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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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, and
use of space geodesy to map crustal deformation
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Research Interests: Population ecology.
Community ecology. Landscape
ecology and Conservation biology.
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