

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
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ABRAHAM, URI – Mathematics &
Computer Science
Ph.D., Hebrew University, 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.
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.
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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.
gonenash@bgu.ac.il

AVISHAI, YSHAI - Physics
Ph.D., The Weizmann Inst., 1970
Research Interests: Theoretical
condensed matter physics.
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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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AZMON, EMANUEL – (retired) Geological
& Environmental Sciences
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

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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BACHMAT, EITAN - Computer Science
Ph.D., Massachusetts Institute of
Technology, U.S.A. 1994
RESEARCH INTERESTS: Arithmetic
Geometry. Storage Systems.
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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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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

BAR-TOUV, YAACOV - (emeritus) Physics
Ph.D., The Weizmann Inst., 1966
1966Research Interests: Nuclear physics.
Mesoscopic physics.
bartouv@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).
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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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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 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; 3) Electrochemistry in ionic liquids
becker@bgu.ac.il

BEIMEL, AMOS - Computer Science
D.Sc., Technion, Haifa, 1996
RESEARCH INTERESTS: Cryptography. Complexity
Theory.
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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.
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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

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 .
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BEN-SHAHAR, OHAD – Computer Science
Ph.D., Yale University, 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

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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BEREND, DANIEL - Mathematics
Computer Sciences
Ph.D., The Hebrew Univ., 1982
Research Interests: Number theory
Applied probability.
berend@math.bgu.ac.il

BEREND, DANIEL – Mathematics, Computer Science
Ph.D., Hebrew University, 1982
RESEARCH INTERESTS: Number Theory. Applied
Probability. Combinatorial Algorithms.
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BESSER, AMNON - Mathematics
Ph.D., Tel-Aviv Univ., 1994
Research Interests: Arithmetical algebraic geometry and
automorphic forms.
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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 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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CARMELI, MOSHE - (emeritus) Physics
D.Sc., The Technion, 1964
Research Interests: Cosmology. General
relativity .
Gravitation.
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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.
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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
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. Imbedding
and Layout of Interconnection Networks.
Discrete Optimization. Distributed
Communication Complexity.
Combinatorial algorithms, 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.
dolev@cs.bgu.ac.il

EFRAT, IDO - Mathematics
Ph.D., Tel-Aviv Univ, 1990
Research Interests: Theory of fields. Galois theory. Valuation theory.
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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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EL SANA, JIHAD - Computer Science
Ph.D., State University of New York, 1995
RESEARCH INTERESTS: Computer Graphics, Computational Geometry, Geometric Modeling, Digital Image Processing, Multi-Media, Virtual Reality, and Digital Video Processing.
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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.
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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)
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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.
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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.

FEINTUCH, AVRAHAM - Mathematics
Ph.D., Univ. of Toronto, 1972
Research Interests: Operator theory. Linear systems. Optimal control.
abie@math.bgu.ac.il

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

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

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

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 (emeritus)
Ph.D., Univ. of Sverdlovsk, 1979
D.Sc., Warsaw, 1991
Research Interests: Functional analysis. Geometry of Banach spaces.
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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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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

GERTSBAKH, ILYA - (emeritus)
Probability & Statistics
Ph.D., The Latvian Acad. of Sciences, 1964
Research Interests: Applied probability & statistics. Operations research. Reliability theory.
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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

GOLDBERG, MAYER - Computer Science
Ph.D., Indiana University, 1996
RESEARCH INTERESTS: Programming languages, semantics, lambdaCalculus, pi-Calculus, compiler optimizations, continuations and control, functional programming, and object orientation.
gmayer@cs.bgu.ac.il

GERSANI, MORDECHAI – Life Sciences (retired)
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.
gersani@bgu.ac.il

GIASNER, YAIR - Mathematics
Ph.D., Hebrew University, 2002
Research Interests: Combinatorial group Theory

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.
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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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GOLDSHTEIN, 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.
shaulg@bgu.ac.il

GORODETSKY, GAD – Physics (emeritus)
Ph.D., The Weizmann Inst., 1968
Research Interests: Ultrasonics. Magnetism.
Thin films.
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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.
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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.
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GUDES, EHUD - Computer Science
Ph.D., Ohio State University, 1976
RESEARCH INTERESTS: Data Bases. Data
Security. Data Mining.
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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 forms.
L-functions. Representation theory.
ngur@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.
hormadj@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).
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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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HENDLER, DANNY- Computer Science
Ph.D, Tel-Aviv University, 2001
RESEARCH INTERESTS: Distributed
computing, Parallel computing
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HOROWITZ, YIGAL - Physics
Ph.D., McGill Univ., Canada., 1968
Research Interests: Radiation physics.
Radiation Induced thermoluminescence.
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HERSONSKY, SA'AR-DAVID -
Mathematics
Ph.D., Univ. of Illinois at Chicago, 1994
Research Interests: Hyperbolic manifolds
Riemann surfaces and Teichmuller theory.
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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
paleoclimate and climatic changes.
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HIRSHBERG, ILAN - Mathematics
Ph.D., University of California at Berkeley,
2003.
Research Interests: Operator algebras.
ilan@math.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: Biophysics. Biological
sensors. Nuclear magnetic resonance
spectroscopy (NMR). Proteins and peptides.
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JUNG, GRZEGORZ - Physics
Ph.D., Inst. of Phys. of the Polish Acad. of
Sci., 1980 Research Interests:
Superconductivity. Noise.
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KAGAN-ZUR, VARDA – Life Sciences
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

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.
benikatz@bgu.ac.il

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 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.
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KEDEM, KLARA - Computer Science
Ph.D., Tel-Aviv University, 1989
RESEARCH INTERESTS: Computational geometry.
Computer Vision. Shape Resemblance. Geometric
Aspects of Computational Biology: Proteins, RNA.
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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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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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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.
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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 a_0 and
metamorphic P/T gradients, chemical
composition, Na/K micas, deconvolution of
XRD reflections .
Coalification gradients. Carbonic fluid-inclusion
geothermometry and -barometry .
Slaty and crenulation cleavage — development
and quantification of intensity .
Metamorphism in marginal zones of orogenic
belts : Scandinavian Caledonides, Western Alps,
Hellenides, Archaean greenstone belts .
Rock-forming minerals ,especially amphiboles
and phyllosilicates .
Lattice-preferred orientation by X-ray
diffraction.

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High Tc superconductors.
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Stereochemistry, N.M.R. spectroscopy.
Hypervalent silicon complexes, charge-transfer
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Research Interests: Infinite combinatorics.
Model theory. Infinite graph theory. PCF
theory. Topology and forcing.
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analysis, Cross-linking strategies,
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Polyacetal virtual dynamic combinatorial
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Research Interests: Operator ergodic theory.
Markov processes. Functional analysis.
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Research Interests: Chemical biophysics.
Mechanism of enzyme catalysis. Structure
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Biosensors.
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Research Interests: Combinatorial optimization,
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Research Interests: Physical chemistry and
biophysics.
Design Principles of Protein Interaction Specificity.
Promiscuity and Plasticity in Protein Interaction
Network. Biological Self-assembly. Novel Methods
for DNA Mutation Analysis Based on Nanoparticle.
Self-assembly. Computational Design of Nano-
Materials with Biological Molecules. Membrane
Fusion. Protein-Membrane Interaction. Electrostatic
Fluctuation and Correlation Induced Interaction in
Thin Films, Membranes, Biopolymers and Colloidal
Solutions.

MANASSEN, YISHAY - Physics
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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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pests, ecology and epidemiology of
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Research Interests – Cryo-EM. Cryo-
tomography of cells and organelles.
Structure analysis of the nuclear transport
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Mesoscopics and many body problems.
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Functional analysis.
Matrix theory.
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RESEARCH INTERESTS: Constraints Processing.
Distributed Constraints. Timetabling problems.
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Research Interests: Bioorganic Chemistry.
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fruit trees as crops to desert areas.
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CP and CTP violations in 1020)MeV)
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Radical
chemistry. Redox processes. Complexes with metal
carbon bonds.
Bioinorganic chemistry
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Research Interests: Population genetics of human
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Research Interests: Developing analytical theory and
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morphology, behavior and life history) variation and
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Dark matter.
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Data Privacy
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Research Interests: Biophysical chemistry.
Biochemistry. Membrane dynamics. Single
photon and phase modulation
spectrofluorometry. Viral transformation.
Tryptophanase (Tnase): quaternary structure
vs. activity: protein-protein recognition; Cold
inactivation, its role in cell-cell
communication and biofilm formation; x-ray
crystallography of its wt, holo, apo and
mutants from E coli; TNase inhibitors as
potential new generation of antibiotics.
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.
Antiangiogenic drugs and bFGF.
Electrostatic vs. hydrophobic interactions in
wt vs. point mutated bFGFs. Cell cycle and
membrane domains: DnaA. Apoptosis.
Diagnostics: determination of fetal lung
maturity by non-invasive methods;
determination of drug levels in body-fluids
by 3D fluorescence. Bioelectromagnetics:
environmental- powerlines EMF and stress
effect on higher plants; EMF induce alignant
cell transformation role of radical
scavengers.
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Research Interests: Analytical geochemistry.
Applied geochemistry and mineralogy.
Thermal analysis. Heating stage microscopy.
Environmental chemistry.
Neutralization of acidic
sludges using coal fly ash.

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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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
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Molecular dynamics.
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topology complexity of algorithms.
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processes and applications to semiconductors
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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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Princeton, 1956 Research Interests: Large scale
tectonics, particularly origin of mountain belts with
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and magnetic structures. Neutron scattering
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Natural products. Jojoba utilization. Organic
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in trypanosomatids: (a) the general translation
machinery. RNA structure as a thermosensor
mechanism that directs stage-specific gene
expression. 2) Redox control of gene
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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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release channel. ATP transport in synaptic vesicles.
 Ca^{2+} transport in mitochondria. Crosstalk between
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structure-function, apoptosis and cancer.
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Laser without inversion. Nonlinear optics .
Raman scattering in solids. Lasers. Discharges and
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Stellar winds. Diamagnetic effects.
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Sociobiological aspects of aggression.
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active oxygen species and the
antioxidative system in the
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Genetics and physiology.
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mutation and repair. Biological network
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of reproductive biology in plants: floral
sex determination and fruit development.
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Algebraic geometry.
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structure & reactivity. New catalysis
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Molecular aspects of flowering.
Flowering control and quality of
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of mosquitoes. Bacterial physiology
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Research Interests: Nonlinear dynamics .
Solar energy. Stochastic processes.

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Research Interests: Molecular basis for
electrical signaling in the nervous system.
Voltage-dependent ion channels.
Interactions of ion channels with scaffold
proteins underlying synapse formation,
maintenance and function.
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Research Interests: Biophysics of
potassium channels. Potassium
leak. The interactions of neurotoxins
with ion channels.
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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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Research Interests: Population ecology.
Community ecology. Landscape
ecology and Conservation biology.
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Ph.D, Haifa University, 2003
RESEARCH INTERESTS: Computational Biology,
Combinatorial Pattern Matching,
Algorithm Design and Analysis and Information
Retrieval.

ZIK, MORIYAH – Life Sciences

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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