

FACULTY MEMBERS

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<p>KESHET URI - Physics Ph.D - Weizman Institute of Science – 2001 Research Interests: Astrophysics, Collisional Shocks, Galaxy Clusters. ukeshet@cpa.harvard.edu</p>	<p>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 karyeh@cs.bgu.ac.il</p>
<p>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</p>	<p>KORN, CHARLES - Physics (retired) Ph.D., The Weizmann Inst., 1972 Research Interests: Nuclear magnetic resonance. High Tc superconductors. korn@bgu.ac.il</p>
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<p>LIKHTENSHEIN, GERTZ -(emeritus) Chemistry D.Sc., Inst. Chem. Phys., Moscow, 1972 Research Interests: Chemical biophysics. Mechanism of enzyme catalysis. Structure and dynamics of proteins and biomembranes. Biosensors. gertz@bgu.ac.il</p>	<p>MANEVICH, ROMAN - Computer Science Ph.D., Tel-Aviv University, 2009 Research Interests: Programming Languages, Formal Verification, Static Analysis by Abstract Interpretation, Shape Analysis, Program Synthesis, Concurrent Programming. romanm@cs.bgu.ac.il</p>
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<p>MEIJLER, MICHAEL - Chemistry Ph.D., Weizmann Inst., 2003 Research Interests: Bioorganic Chemistry. Organic chemistry. Molecular recognition. Quorum Sensing. Bacterial-Eukaryotic Communication. Anti-Cancer Agents. meijler@scripps.edu</p>	<p>MEYERSTEIN, DAN - Chemistry (emeritus) Ph.D., The Hebrew Univ., 1965 Research Interests: Inorganic chemistry. Catalysis. Radical chemistry. Redox processes. Complexes with metal carbon bonds. Bioinorganic chemistry danmeyer@bgu.ac.il</p>
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<p>MELKMAN, AVRAHAM - (emeritus) Computer Science Ph.D., University of California at Berkeley, 1971 Research Interests: Bioinformatics, Algorithms for Boolean networks. melkman@cs.bgu.ac.il</p>	<p>MIZRAHI, YOSEF – Life Sciences (emeritus) 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 mizrahi@bgu.ac.il</p>

<p>MOALEM, AMNON - Physics Ph.D., Tel-Aviv Univ., 1972 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. moalem@bgu.ac.il</p>	<p>NIR, EYAL - Chemistry Ph.D., The Hebrew Univ., 2004 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. enir@bgu.ac.il</p>
<p>MOKARI, TALEB- Chemistry Ph.D. Hebrew University, 2006 Research Interests: 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.</p>	<p>NISSIM, KOBBI - Computer Science Ph.D., Weizmann Institute, 2001 Research Interests: Cryptography, Data Privacy kobbi@cs.bgu.ac.il</p>
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<p>NEVO, ERAN - Mathematics Ph.D., Hebrew University, 2007 Research Interests: Combinatorics and its connections to commutative algebra, topology, geometry and convexity.</p>	<p>PAKOVICH, FEDOR - Mathematics Ph.D., Inst. Fourier, Grenoble Univ., 1997 Research Interests: Complex analysis. Number theory. pakovich@math.bgu.ac.il</p>

<p>PAPPO, DORON- Chemistry Ph.D. Tel-Aviv University, 2006 Research Interests: Organic Chemistry, Synthetic Methodology, Catalysis, Total Synthesis of Natural Products, Supramolecular Chemistry. pappod@bgu.ac.il</p>	<p>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. epines@bgu.ac.il</p>
<p>PAROLA, ABRAHAM - Chemistry Ph.D., Brandeis Univ., 1974 Research Interests: Biophysical chemistry. Membrane dynamics. Membrane lipid-protein interaction. Single photon and phase modulation spectrofluorometry. Tryptophanase (Tnase): quaternary 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 aparola@bgu.ac.il</p>	<p>PINSHOW, BERRY - Life Sciences & Mitrani Dept. of Desert Ecology (BIDR) Ph.D., Duke Univ., 1975 Research Interests: Physiological ecology of desert animals; energy and water exchange 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. pinshow@bgu.ac.il</p>
<p>PELLY, ITHAMAR – (Retired) Geological & Environmental Sciences Ph.D., The Hebrew Univ., 1967 Research Interests: Analytical geochemistry. Applied geochemistry and mineralogy. Thermal analysis. Heating stage microscopy. Environmental chemistry. Neutralization of acidic sludges using coal fly ash. ipelly@bgu.ac.il</p>	<p>POLAK, MICHA - Chemistry Ph.D., Tel-Aviv Univ., 1975 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. mpolak@bgu.ac.il</p>
<p>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). ronenp@math.bgu.ac.il</p>	<p>POLIAKOVSKY, ARKADY- Mathematics Ph.D., Technion - Israel Institute of Technology, 2005 Research Interests: Nonlinear Analysis, Calculus of Variations, Functions of Bounded Variation, Elliptic Partial Differential Equations, Conservation Laws, Micromagnetics, Problems in Elasticity, Navier-Stokes Equations and General Nonlinear Evolutions</p>

<p>PRIEL, ZVI – Chemistry (emeritus) Ph.D., Weizmann Inst., 1970 Research Interests: Physical chemistry and biophysics. Ciliary motion. Signal transduction. Intercellular Ca^{2+}. Macromolecules. Colloids. Surface science. alon@bgu.ac.il</p>	<p>RUBIN, MATATYAHU - Mathematics Ph.D., The Hebrew Univ., 1976 Research Interests: Mathematical logic. Set theoretic topology complexity of algorithms. matti@math.bgu.ac.il</p>
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<p>RABINOVITCH, AVINOAM – Physics (emeritus) D.Sc., The Technion, 1969 Research Interests: Biological physics. Nonlinear dynamics. Fracture physics. avinoam@bgu.ac.il</p>	<p>SAGI, AMIR – Life Sciences, NIBN Ph.D., The Hebrew Univ., 1989 Research Interests: Comparative and applied endocrinology. Regulation of crustacean reproduction and growth. sagia@bgu.ac.il</p>
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<p>SEN, RATHINDRA NATH - Mathematics (emeritus) Ph.D., The Hebrew Univ., 1963 Research Interests: Physical applications of bundle theory. Quantum field theory. Physical fibre applications of algebraic topology. rsen@math.bgu.ac.il</p>	<p>SHAPIRA, MICHAL – Life Sciences Ph.D., Weizmann Inst., 1985 Research Interests: 1) Translation regulation in trypanosomatids: (a) the general translation machinery. RNA structure as a thermosensor mechanism that directs stage-specific gene expression. 2) Redox control of gene expression in the chloroplast shapiram@bgu.ac.il</p>
<p>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). bshaanan@bgu.ac.il</p>	<p>SHAPIRO, JESSE M. - Mathematics (emeritus) Ph.D., Univ. of Minnesota, 1954 Research Interests: Probability & Statistics. jesse@math.bgu.ac.il</p>
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<p>SHIMONY, EYAL - Computer Science Ph.D., Brown University, 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), Decision-making under uncertainty. shimony@cs.bgu.ac.il</p>	<p>SMORODINSKY, SHAKHAR - Mathematics Ph.D., Tel Aviv University, 2003 Research Intrests: Computational and combinatorial geometry, sensor and wireless networks, online algorithms, discrete math. shakhar@math.bgu.ac.il</p>
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<p>SHUKER, REUBEN – Physics (emeritus) 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 shuker@bgu.ac.il</p>	<p>TAL, MOSHE – Life Sciences (emeritus) 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. motal@bgu.ac.il</p>
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<p>TSUKERBLAT S. BORIS – Chemistry (emeritus) Ph.D. Kazan state University 1967 D.Sc. State University 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. tsuker@bgu.ac.il</p>	<p>VINNIKOV, VICTOR - Mathematics Ph.D., Ben-Gurion Univ., 1988 Research Interests: Operator theory system theory. Algebraic geometry. vinnikov@math.bgu.ac.il</p>
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