



Technion

Israel Institute of Technology

The Technion

In operation since 1924, the Technion is the oldest university in Israel. Since its founding, the institute has educated three generations of men and women who have played a key role in laying the country's infrastructure and establishing its crucial defense and high-tech industries. In the new millennium, Technion's role at the forefront of the global network of science and technology has never been more vital. The university offers degrees in science and engineering, and related fields such as architecture, medicine, industrial management and education in an intellectually invigorating environment. Great emphasis is also placed on its humanities and social science programs, the incorporation of which take on ever-increasing importance in today's multi-faceted workplace. But Technion's goals go beyond providing a well-rounded technical education. At the institute, scientific instruction is interwoven with professional ethics, producing leaders sensitive to social and environmental issues. The dissemination of knowledge doesn't end in the classroom. The Technion actively publishes its discoveries in journals and popular manuscripts, and aims to spark scientific and technological interest among youth through popular lectures and programs. Technion laboratories are also dedicated to enhancing the country's economy – they offer novel solutions, research facilities, and world-class expertise. As a whole, the Technion is committed to its role as the country's top facility for science and technology, a role that is necessary for the future of Israel and to all of humanity.

Faculties and Centers

- **Lokey Center**
- **Biology**
- **Biomedical Engineering**
- **Biotechnology and Food Engineering**
- **Chemical Engineering**



The Lorry I. Lokey Interdisciplinary Center
for Life Sciences and Engineering

המרכז הבין תחומי למדעי החיים
והנדסה ע"ש לורי לוקיי

The Lorry I. Lokey Interdisciplinary Center for Life Sciences and Engineering provides a unique opportunity to bring together the worlds of medicine, life science, and engineering. Where else but at the Technion, a leader in high tech and innovation in fields of engineering and medicine, can such a center be created? Nobel Prize laureate Aaron Ciechanover had a vision of this Center and it was adopted, with enthusiasm, by Lorry I. Lokey, a long time supporter of research and educational institutions.

The Lokey Center is bringing together diverse yet related fields of bioinformatics, proteomics, tissue regeneration and stem cell biology, genomics, imaging, bio-processing engineering, and information processing. The Center is providing state of the art equipment to a cadre of outstanding researchers, allowing inter-disciplinary exchange between scientists with varied areas of expertise. The Center is providing an environment of excellence to foster creative research in life sciences, with the complementary skills in engineering and technology. It will offer these scientists tools to help solve problems associated with basic life sciences and biomedical engineering, create new diagnostic techniques in medicine, and extend the frontiers of knowledge in science and technology.

General Research Activities:

1. Structural and Systems Biology, Genomics, Proteomics, and Bioinformatics
2. Tissue Regeneration and Stem Cell Biology
3. Imaging
4. Bioprocesses Engineering
5. Information Processing

Steering Committee

Prof. Yuval Shoham Director



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Prof. Shoham took the position of heading the Lokey Center in March 2010.

Assoc. Prof. Noam Adir Faculty of Chemistry



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Prof. Adir's research work is carried out in the Macromolecular Structure Research Laboratory, where he deals with the structural determination of biological macromolecules using X-ray crystallography.

Prof. Erez Braun Faculty of Physics



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Prof. Braun's research interests include:

- Diverse systems including genetic regulatory networks and their evolution
- Adaptation dynamics of cell populations
- Synthesis of logic and electronic circuits by biology

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Prof. Michael Glickman Faculty of Biology



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Dr. Glickman's research interests focus on the study of biochemical and genetic analysis of proteasome function. The proteasome is a multi-subunit protease responsible for degrading numerous cellular proteins, including many which are involved in cancer or viral diseases.

Assoc. Prof. Shulamit Levenberg Faculty of Biomedical Engineering



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Dr. Levenberg's research interests focus primarily on stem cell tissue engineering. The widely acclaimed journal Scientific American named Dr. Shulamit Levenberg among its top 50 contributors to research, business, and policymaking for 2006.

Prof. Ben-Zion Levi Faculty of Biotechnology and Food Engineering



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Prof. Levi's research interests include:

- Molecular biology.
- Transcriptional regulation.
- The role of IRFs in modulating the immune system,
- IRF-8 as a modulator of myeloid cells.

Assoc. Prof. Ron Pinter Faculty of Computer Science



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Dr. Pinter's research interests include systems biology, bioinformatics, high-performance computing and data integration. His current focus is on comparative genomics and the analysis of biological networks. Dr. Pinter is a founding member of the Israeli Society for Bioinformatics and

Computational Biology (and served on its council during 2003-06), Co-Principal Investigator of the National Knowledge Center for Bioinformatics Infrastructure in Israel, and Co-Principal Investigator of the Technion's pharmacogenetics project.

Prof. Benjamin Podbilewicz Faculty of Biology

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Prof. Podbilewicz's research interests include understanding the development and evolution of organs and organ systems, which is one of the major challenges in present day biology. He is focusing on two basic biological problems: how cells fuse to form giant multinucleate cells and how organs form in animals. In addition, he is studying how these two universal processes have changed during evolution.

Assoc. Prof. Adi Salzberg Rappaport Faculty of Medicine

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Prof. Salzberg's research focuses on studying the molecular mechanisms that control neural development by using the peripheral nervous system (PNS) of the fruit fly *Drosophila melaogaster* as a model system. She is focusing mainly on two aspects of PNS development – the involvement of homeotic genes and their co-factors in the generation of segment-specific patterns and the development of proprioceptors.

Prof. Moti Segev Faculty of Physics

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Prof. Segev's research interests include: nonlinear optics and quantum electronics. Current projects deal with solitons, nonlinear frequency conversion, nonlinear guided waves, nonlinear dynamics, and photorefractive materials. His research is both theoretical and experimental, and all of his graduate students are required to learn both aspects.

Prof. Moshe Shoham Faculty of Mechanical Engineering



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Prof. Shoham's research interests include:

- Robotic systems - kinematics and dynamics of robots.
- Sensor-based robots.
- Multi-fingered hands.
- Medical robotics.

Prof. Ishi Talmon Faculty of Chemical Engineering



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Prof. Talmon's research interests include:

- Interfacial and colloidal phenomena.
- Electron microscopy and electron diffraction of micro-structured fluid systems and biological systems.
- Cryoelectron microscopy: theory and development.
- Applications of electron microscopy in chemical engineering, food technology and polymer science.

Prof. Allen Tannenbaum Faculty of Electrical Engineering



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Prof. Tannenbaum's research interests include:

- Computer Vision
- Image Processing
- Computer Graphics
- Control Theory
- Cryptography
- Biomedical Imaging

Ms. Tammy Porat Administrative Manager, Lokey Center



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Tammy Porat, a graduate of Technion Faculty of Architecture and Town Planning, brings her experience in project management to this assignment.

The Faculty of Biology

General Research Activities:

- Cell and molecular biology
- Development biology
- Genetic Engineering
- Genomics and proteomics
- Cancer
- Molecular biotechnology
- Immunology
- Microbiology
- Plant and animal sciences

Researchers and Fields of Expert



Arie Admon , Associate Professor

Research Interests: Cancer Vaccines, Protein Chemistry

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Zeev Arad, Associate Professor

Research Interests: Comparative Animal Physiology, Ecophysiology, Poultry Science

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Yoav Arava, Senior Lecturer

Research Interests: Translation mechanisms, Ribosome-mRNA interactions, Functional genomics

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Yehuda G. Assaraf, Professor

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Nabieh Ayoub, Senior Lecturer

Research Interests: Cellular functions of Histone Demethylases and their relevance to Carcinogenesis

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Oded Beja, Professor

Research Interests: Molecular Marine Microbiology, Environmental Genomics (Ecogenomics) Ecological Diversity of Proteorhodopsins.

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Dan Cassel, Professor

Research Interests: Role of GTP-binding Proteins in Intracellular Protein Trafficking

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Gera D. Eytan, Associate Professor

Research Interests: Anticancer Multidrug Resistance, Cellular Drug Transport

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Shimon Gepstein, Associate Professor

Research Interests: Plant Physiology & Development, Gene Regulation, Senescence

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Michael Glickman, Professor

Research Interests: Proteasome Function and Properties, Protein Degradation, Enzymology

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Tali E. Haran, Senior Lecturer

Research Interests: DNA Structure and Protein-DNA Interactions

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Amnon Harel, Senior Lecturer

Research Interests: Nuclear Pores and Nuclear Transport

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Benjamin Horwitz, Professor

Research Interests: Filamentous Fungi: Photobiology; Host-Pathogen Interactions

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Yona Kassir, Associate Professor

Research Interests: Regulation of Mitotic and Meiotic Cycles

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Jonathan Kuhn, Senior Lecturer

Research Interests: Bacterial and Bacteriophage Genetics

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Zeev Lev, Senior Lecturer

Research Interests: Molecular Genetics of Drosophila Tumorigenesis, Early Detection of Human Cancers

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Debbie Lindell, Senior Lecturer

Research Interests: Host-Virus Interactions: Functional Genomics, Ecology & Genome Evolution. Environmental Stress. Marine Cyanobacteria.

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Yael Mandel-Gutfreund, Associate Professor

Research Interests: Structural Bioinformatics, Computational Molecular Biology

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Philippa Melamed, Associate Professor

Research Interests: chromatin and transcription, hormonal regulation of gene expression, pituitary hormones, reproduction

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Benjamin Podbilewicz, Professor

Research Interests: Development, Cell and Molecular Biology

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Yoram Reiter, Professor

Research Interests: Molecular Immunology, Recombinant Antibodies, Phage Display

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Rami Reshef, Senior Lecturer

Research Interests: Vertebrate Developmental Biology and Evolution

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Dina Ron, Professor

Research Interests: Signal transduction, Cancer, Control of cellular growth and differentiation

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Sigal Savaldi-Goldstein, Senior Lecturer

Research Interests: Hormone signaling regulation of plant growth and development

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Gadi Schuster, Professor

Research Interests: Chloroplast Gene Expression. RNA Metabolism. Genetic Engineering in Plants

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Itai Yanai, Senior Lecturer

Research Interests: Systems biology, development, genomics, and evolution

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Dan Zilberstein, Professor

Research Interests: The Leishmania Parasite, Cell Biology and Drug resistance

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The Faculty of Biomedical Engineering

General Research Activities:

Biomedical Engineering (BME) at the Technion began as early as the mid 1940's, when the body's bio-electric phenomena were studied in the Department of Electrical Engineering. The interest and enthusiasm generated by this new field of studies grew so rapidly that by 1968 over forty ongoing biomedical projects were underway at various Technion departments. In 1969, the Julius Silver Institute was set up to house all the Technion's biomedical engineering research, and the interdisciplinary Department of Medical and Biological Engineering was formally established with the mission of developing a program for graduate studies. Today, the Department of Biomedical Engineering is involved in wide ranging research, both basic and applied. The varied novel engineering techniques and state-of-the-art technological, scientific and medical know-how generated by the Department have, over the years, proved both useful and beneficial to Israel's medical community.

Biomedical engineering utilizes traditional engineering disciplines for the development of medical systems and devices for clinical diagnosis and therapy, and the investigation of the physiological basis of diseases. With the rise in life expectancy and improvement in the quality of life, there has come an increasing demand for better health-related products and services. The biomedical industry is characterized by innovation and sophistication, and the constant search for new challenges. It provides artificial organs, implant devices, cardiac assist devices, diagnostics and therapeutics, catheterization and imaging equipment. Biomedical companies are also involved in molecular and cellular engineering, tissue engineering, plasma engineering, intracellular physiological control mechanisms, drug regulation and drug delivery systems, rehabilitation engineering, and aids for the feeble and the disabled.

BME Webservice:

<http://portal.bm.technion.ac.il/Pages/Default.aspx>

Researchers and Fields of Expert

Prof. Noah Lotan

Research Interests: Biomaterials;

Website: <http://portal.bm.technion.ac.il/Labs/biomaterials/default.aspx>

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Prof. Eitan Kimmel

Research Interests: Biomechanics of ultrasound interaction with cell and tissue

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Dr. Dvir Yelin

Research Interests: Biomedical Optics Laboratory

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Dr. Daphne Weihs

Research Interests: Cellular biomechanics and bio-rheology

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Prof. Shulamit Levenberg

Research Interests: Stem Cells Tissue Engineering Lab

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Prof. Dan Adam

Research Interests: Laboratory for Ultrasound Signals and Image Processing and Modeling

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Prof. Moshe Gur

Research Interests: Laboratory of Vision Research

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Prof. Haim Azahari

Research Interests: Medical Imaging Laboratory

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Prof. Amit Meller

Research Interests: Single Molecule Biophysics & Nano-Biotechnology

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Prof. Amir Landesberg

Research Interests: Molecular Cardiology Laboratory

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Prof. Shy Shoham

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Prof. Joe Mizrahi

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Dr. Josue Sznitman

Research Interests: Technion Biofluids Laboratory

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Prof. Yoram Lanir

Research Interests: The Laboratory for the Mechanics and Function of Organs, Tissues and Cells

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Prof. Dror Seliktar

Research Interests:

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The Faculty of Biotechnology & Food Engineering

General Research Activities:

- Food Engineering and Technology
- Physical Chemistry of Foods
- Packaging of Foods, Chemicals and Fragile Products
- Food Analysis and Quality Assurance
- Food Toxicology
- Nutrition
- Biotechnology and Genetic Engineering
- Food Microbiology
- Food Biochemistry
- Biochemical Engineering

Researchers and Fields of Expert



Ben-Zion Levi, Professor- Faculty Dean

Research Interests: Molecular Biotechnology: Interferon Induced Gene Regulation, Regulation of VEGF Expression: The Role in Angiogenesis Overexpression of Proteins in Insect Cells.

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Yuval Shoham, Professor

Research Interests: Molecular Microbiology, Biotechnology of Thermophiles; Gene Regulation in *Bacillus stearothermophilus*; Structure- Function of Hemicellulases and Cellulases, Applied Enzymology

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Yechezkel Kashi, Associate Professor

Research Interests: Food Microbiology Molecular Chaperones Mediated Protein Folding

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Amram Mor, Professor

Research Interests: Peptide –membrane interactions; Antimicrobial peptides

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Eyal Shimoni, Associate Professor

Research Interests: Functional foods and food ingredients, and food nanosciences: Micro & Nano encapsulation, Food grade delivery systems, tailored physical and biological functions of foods, innovative processes

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Sima Yaron, Associate Professor

Research Interests: Molecular Microbiology & Biotechnology; Food Safety; Development of Molecular Methods for the Identification

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Marcelle Machluf, Associate Professor

Research Interests: Biotechnology; Microencapsulated Engineered Cells for Controlled Drug Release; Ultrasound Technology for DNA Delivery to Cells and Tissues

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Dganit Danino, Associate Professor

Research Interests: Self-assembly processes, Structural analysis of nanomaterials and molecular assemblies, Cryo TEM

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Esther Meyron Holtz, Senior Lecture

Research Interests: Cellular and systemic regulation of mammalian iron metabolism with emphasis on the role of macrophages in iron recycling and iron transport in the central nervous system.

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Ayelet Fishman, Senior Lecturer

Research Interests: Applied biocatalysis, Directed evolution of enzymes, Enzyme immobilization, Biochemical engineering

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Yoav David Livney, Senior Lecture

Research Interests: Physical chemistry of macromolecules in food and other biotechnological systems

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Ester Segal, Senior Lecturer

Research Interests: Development of multifunctional nanomaterials for advanced applications, Sensors and Biosensors.

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Uri Lesmes, Senior Lecturer

Research Interests: Chemistry of foods and bioactive ingredients, Basis of digestion, Modelling of digestion, Emulsions, Emerging food Science and technology and Food nanotechnology.

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The Faculty of Chemical Engineering

The Wolfson Department of Chemical Engineering, the first in the country, was developed as an independent academic unit in the 1950's and early 1960's. Originally focused on traditional chemical engineering, with emphasis on the needs of the fast-growing Israeli chemical industry, it evolved over the years into a modern chemical engineering department that combines core ("classic") chemical engineering with the modern aspects of the discipline, namely, nanotechnology, advanced materials, and biotechnology. Research areas covered by our faculty include: catalysis and transport phenomena, colloids, interfaces and complex liquids, polymer science and technology, advanced materials, biosystems and design and control.

Researchers and Fields of Expert



Yachin Cohen; Faculty Dean

Research Interests: The Relation between Processing, Microstructure and Properties in Polymer Systems: High Performance Fibers and Composite Materials; Physical and Crosslinked Polymer Gels; Block Copolymers Polyelectrolytes and Interpolymer Complexes Organized Microstructures in Amphiphilic and Colloid Systems Main Experimental Tools: Small-angle X-ray scattering (SAXS) and neutron scattering Transmission and scanning electron microscopies (TEM, SEM) Scanning probe microscopy.

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Havazelet Bianco-Peled, Associate Professor

Research Interests: Bioseparation Processes Physical characterization of biological, biomedical and biomimetic systems Colloid Science

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Simon Brandon, Associate Professor

Research Interests: Materials Processing, Crystal Growth, Transport Phenomena, Interfacial Phenomena

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Naama Brenner, Associate Professor

Research Interests: Adaptation in neuronal systems, Variability in cell populations, Adaptation in gene regulation systems

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Gideon Grader, Professor

Research Interests: Sol-gel materials, Nano structured materials, Ceramic coatings, Ceramic foams

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Hossam Haick, Senior Lecturer

Research Interests: Artificial olfactory systems (so-called, “electronic noses”), Nanomaterial-based chemical sensors, Molecule-based (opto)electronic devices, Electrical contacts to molecules, Electronic charge transport through organic molecules and molecularly-modified metal/semiconductor junctions.

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Alexander Leshansky, Senior Lecturer

Research Interests: Physico-chemical Hydrodynamics, Advanced Transport Phenomena, Suspension Dynamics, Hydrodynamic Stability, Microfluidics

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Daniel R. Lewin, Professor

Research Interests: The integration of process design, control and operations

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Abraham Marmur, Professor

Research Interests: Interfacial and Colloidal Phenomena, Solutions and Dispersed Systems

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Avinoam Nir, Professor

Research Interests: Fluid Mechanics and Transport Phenomena in Multiphase Suspensions

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Yaron Paz, Associate Professor

Research Interests: Photocatalysis, Surface phenomena, Organized Organic Ultrathin Films

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Raphael Semiat, Professor

Research Interests: Process Development, Separation Processes with Special Emphasis on Heat and Mass Transfer Phenomena in Liquid-Liquid and Solid-Liquid Systems. Water Technologies: Water Desalination purification and waste treatment problems. Application of Electro-Optical Techniques in the study of such systems.

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Moshe Sheintuch, Professor

Research Interests: Chemical and Catalytic Reaction Engineering, Kinetic Instabilities, Reactor Dynamics and Control, Chaos, Spatio-Temporal Patterns, Reaction and Diffusion in Porous and Fractal Media Membrane Reactors, Environmental Catalysis, Adsorption Columns, Application of DFT Methods to study Pd-catalyzed Reactions

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Simcha Srebnik, Associate Professor

Research Interests: Theoretical models and simulations of polymers, Molecular imprinting technology, Structured porous materials, Membrane separations

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Yeshayahu Talmon, Professor

Research Interests: Interfacial and Colloidal Phenomena, Electron Microscopy and Electron Diffraction of Microstructured Fluid Systems and Biological Systems, Cryoelectron Microscopy: Theory and Development Applications of Electron Microscopy in Chemical Engineering, Food Technology and Polymer Science

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Yoed Tsur, Senior Lecture

Research Interests: Synthesis and development of oxide materials for nanotechnology, Point defect chemistry, Electroceramics and electroceramic devices, Impedance measurements and analysis, Detection and analysis of out-of-range phenomena and ill-posed inverse problems.

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