

CURRICULUM VITAE

Shmuel Sternklar
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Education

- 1984-87: D.Sc., Technion, Dept. of Electrical Engineering.
Doctoral dissertation: "Photorefractive Oscillators"
1982-83: M.Sc., University of Pennsylvania, Dept. of Bioengineering.
Masters Thesis: "Viscoelastic model of the vitreous humor of the eye for noninvasive detection of ocular pathologies"
1976-80: B.Sc., Polytechnic Institute of N.Y., Dept. of Electrical Engineering

Academic and professional appointments

- Since 2016 Dean, School of Graduate Studies, Ariel University
Since 2010 Full Professor, Dept. of Electrical and Electronic Engineering, Ariel University Center
2008-2014 Head, Dept. of Electrical and Electronic Engineering, Ariel University Center
2007-2008 Head of Graduate program in the Dept. of E.E., Ariel Univ. Center
Since 2005 Director, Center for Homeland Security, Ariel University Center
2001-2010 Associate Professor, College of Judea and Samaria
2000 - 2003 Co-founder and Chief Scientist, KaiLight Technologies, Ltd.; Development of components for fiber-optic communications
2000-2001 Chief Scientist, Oriol Ltd.: Development of optical imaging system for breast cancer
1999-2001 Senior Lecturer, College of Judea and Samaria
1996-97 Visiting Professor, The Hebrew University, Jerusalem, School of Applied Physics
Since 1994 Consultant, Companies and VC's in electro-optics (Israel)
1988-1999 Senior Scientist, Soreq Nuclear Research Center, Project Manager
1988 Lady-Davis Post Doctorate Fellow, Technion, Haifa

Awards

- 2012 Outstanding Lecturer Prize, Ariel University Center
2011 Co-author of first-prize poster, Israel Chemical Society (2011)
2010 Outstanding Lecturer Prize, Ariel University Center
2009 First place in Biztec competition, Technion
1995 Recipient of Ministry of Defense Award for creative thinking
1988 Lady Davis Post-Doctoral Fellowship, Technion
1983 Lady Davis Fellowship, Technion
1982 "University Fellow" and full Doctoral scholarship, Univ. of Pa.
1980 BSc Magna Cum Laude, Polytechnic Univ. N.Y.; EE Honor Society

Research Grants

2020	Joint collaboration grant, Ariel University and Florida Atlantic University, Plasmonic lab-on-a chip with phase-shift amplified interferometry
2019-2020	Israel Innovation Authority "Nofar" program: development of fiber-optic sensors for Mekorot-Israel Water Company
2018-2020	Israel Chief Scientist tech transfer program with Teldor Cables and Systems Ltd.: Optical fiber cable characterization
2016-2017	Israel Chief Scientist Magnet program: Next-generation cellular
2014-2016	Israel Chief Scientist "Kamin" program: A new engineering approach to Raman spectroscopy based on all-optical fiber RF-photonics
2014-2015	Israel Chief Scientist "Nofar" program – A new technology for sub-micron optical metrology: MPI
2009- 2016	Israel Ministry of Defence (Mafat) – Optical noise radar
2012 -2014	Israel Chief Scientist "Kamin" program-fiber-optic intrusion sensors
2010-2013	Israel Ministry of Defence (Mafat) - ultrafast laser source
2009-2010	Israel Chief Scientist "Nofar" program-Optical medical imaging
2002-2009	Israel Ministry of Defence (Mafat) - imaging through scattering media
2004-2006	Israel Chief Scientist Incubator program-viscoelastic properties of biological cells measured by differential confocal microscopy
2003-2006	Israel Science Foundation-Spectral ballistic imaging for optical medical imaging
1997-1999	Israel Ministry of Defence (Mafat) - remote sensing
1996-1998	Ministry of Science-Near field optics and nonlinear optics
1991-1998	Israel Ministry of Defence (Mafat) -Nonlinear and atmospheric optics

Professional interests and experience

Optoelectronic and fiber-optic sensors, interferometry, plasmonics, non-linear optics, spectroscopy, fiber-optic communications, imaging through diffuse media, 3D imaging, tissue optics

Academic activities

Since 2016	Dean, School of Graduate Studies
2008-2014	Head, Dept. of E.E., Ariel University
2007	Head of the newly established Graduate program in E.E.
2005	Established the Center for Homeland Security
2000	Established new Electrooptic Laboratories.
1998	Established undergraduate electro-optics program at College of Judea and Samaria; Designed curriculum and laboratories. Curriculum includes 6 lecture-based courses and 3 laboratory courses.
Since 1989	Academic advisor for Ph.D. and MSc students (see table below)
Since 1987	Reviewer for various journals (Optics Letters, JOSA, Optics Express, Measurement, Applied optics, etc.)

Conference Topic Organizer

2000-2014 SEEI Conference in Optical Engineering

Since 2015 OASIS International Conference on Optics and Electrooptics

Graduate student advising

Degree	Name	University	Status
PhD	Doron Chomsky	TAU with Soreq NRC	Granted 1993
PhD	Yaakov Glick	Hebrew U. with Soreq NRC	Granted 1995
PhD	Yuval Isbi	Hebrew U. with Soreq NRC	Granted 2001
PhD	Yosi Ben-Aderet	BGU and Ariel Univ. Center	Granted 2012
MSc	Ami Mizrachi	Hebrew U. with Soreq NRC	Granted 1999
MSc	Yosi Ben-Aderet	BGU and Ariel Univ. Center	Granted 2005
MSc	Dan Schermann	BGU and Ariel Univ. Center	Granted 2006
MSc	David Kwiat	TAU and Ariel Univ. Center	Granted 2007
MSc	Tal Arditi	BGU and Ariel Univ. Center	Granted 2009
MSc	Shaul Laimann	TAU and Ariel Univ. Center	Granted 2011
MSc	Gil Linenberg	TAU and Ariel Univ. Center	Granted 2009
MSc	Eyal Sarid	Ariel Univ. Center	Granted 2012
MSc	Tzachi Tal	Ariel Univ. Center	Granted 2010
MSc	Itay Gelber	Ariel Univ. Center	Granted 2013
MSc	Andre Yarushevski	Ariel Univ. Center	Granted 2015
MSc	Moran Biton	Ariel Univ.	Granted 2013
MSc	David Mermelstein	Ariel Univ.	Granted 2013
MSc	Arie Schwartzbaum	Ariel Univ.	Granted 2015
MSc	Shalom Bloch	Ariel Univ.	Granted 2013
MSc	Dan Ben-Shitrit	Ariel Univ.	Granted 2014
MSc	Ohad Gavra	Ariel Univ.	Granted 2017
MSc	Seva Rosenberg	Ariel Univ.	Granted 2018
MSc	Eliashiv Shacham	Ariel Univ.	Granted 2017
MSc	Rita Abromov	Ariel Univ.	Granted 2019
MSc	Egor Liokumovitch	Ariel Univ.	Granted 2018
MSc	Yohai Ofer	Ariel Univ.	Granted 2019
PhD	Ziv Glasser	Ariel Univ.	Granted 2019
PhD	Eliav Epstein	Ariel Univ.	In progress
PhD	Shalom Bloch	Ariel Univ.	Granted 2019
PhD	Rita Abromov	Ariel Univ.	In progress
PhD	Egor Liokumovitch	Ariel Univ.	In progress