

# IEEE Israel Chair's Report

*15 September 2022*

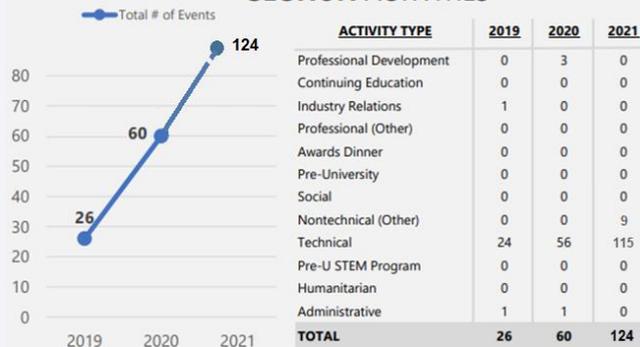
*Shmuel Auster, Chair, IEEE Israel Section*



# Israel Section Statistics

Record activity reports at the Section in 2021!

## SECTION ACTIVITIES



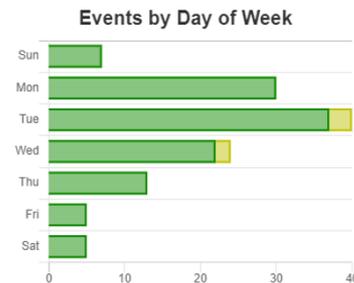
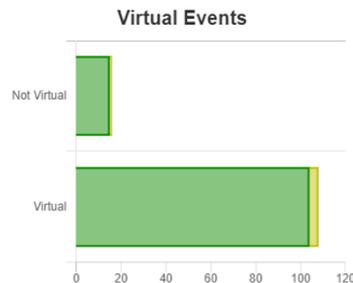
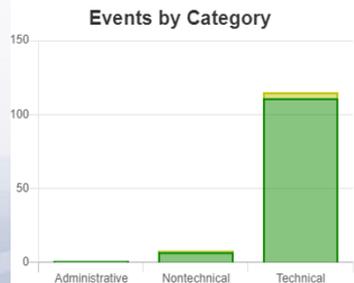
ACTIVITY TYPE	2019	2020	2021
Professional Development	0	3	0
Continuing Education	0	0	0
Industry Relations	1	0	0
Professional (Other)	0	0	0
Awards Dinner	0	0	0
Pre-University	0	0	0
Social	0	0	0
Nontechnical (Other)	0	0	9
Technical	24	56	115
Pre-U STEM Program	0	0	0
Humanitarian	0	0	0
Administrative	1	1	0
<b>TOTAL</b>	<b>26</b>	<b>60</b>	<b>124</b>

Israel Section Activities

## R80009 - Israel Section Charts 2021

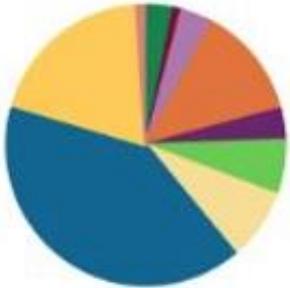
Name	Tech	Non-Tech	Admin	Total
Israel Section	115	8	1	124

■ Reported
 ■ Unreported
 ■ Future





### Count by Grade

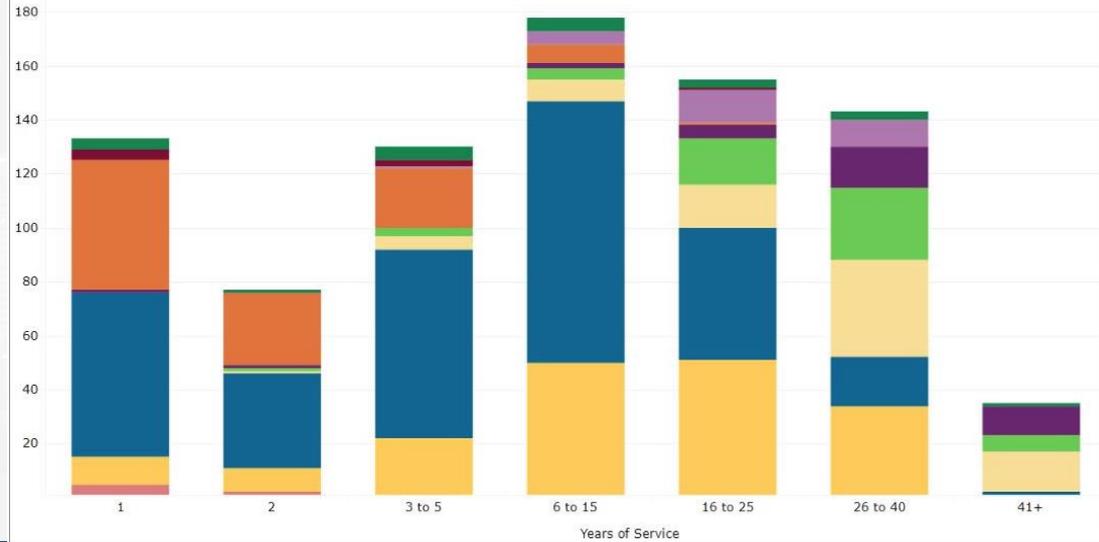


- Affiliate
- Associate Me...
- Fellow
- Graduate Stu...
- Life Fellow
- Life Member
- Life Senior
- Member
- Senior Member
- Student Mem...

**1030 Active Members**  
**IEEE Israel Section**

Count by Grade and Years of Service

4.2022





# Distinguished Professor Emeritus Jacob Ziv Has Been Awarded The 2021 IEEE Medal Of Honor

The award comes with the following quote: "For fundamental contributions to information theory and data compression technology, and to respectable research leadership."



From left: Prof. Barry Shoop, IEEE President 2016, Shmuel Auster, IEEE Israel Section Chair, Prof. Jacob Ziv, Technion, Karen Bartleson, IEEE President 2017. Technion, Israel, 2016

<https://spectrum.ieee.org/geek-life/profiles/from-winzips-to-cat-gifs-jacob-zivs-algorithms-have-powered-decades-of-compression>

**Current job:** Technion Distinguished Professor Emeritus, Faculty of Electrical Engineering

**Date of birth:** 27 November 1931

**Birthplace:** Tiberias, British-ruled Palestine (now Israel)

**Family:** Married to Shoshana, four children, nine grandchildren

**Education:** BSc, Dip-Eng, MSc, all in electrical engineering from Technion, in 1954, 1955, 1957; Sc.D, MIT, 1962

**Organizational memberships:** Israel Academy of Science and Humanities, U.S. National Academy of Engineering, U.S. National Academy of Sciences, American Philosophical Society, IEEE Fellow

**Major awards:** IEEE Medal of Honor "for fundamental contributions to information theory and data compression technology, and for distinguished research leadership"; BBVA Foundation Frontiers of Knowledge Award; Claude E. Shannon Award of the IEEE Information Theory Society

## **NEWLY ELEVATED FELLOW CLASS 2021/22**

- **Prof. Sharon Gannot, Bar Ilan University, Ramat-Gan**

**For contributions to acoustical modelling and statistical learning in speech enhancement**

- **Prof. Yakov Krasik, Technion, Haifa**

**For contributions to plasma-based electron sources**

- **Prof. Shie Mannor, Technion, Haifa**

**For contributions to reinforcement learning and decision-making under uncertainty**

TO: IEEE Region 8 Committee, November 2021

FROM: Antonio Luque, Region 8 Director

SUBJECT: Resolution for Uzia Galil

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#### **EXECUTIVE SUMMARY**

On 15 June 2021, Uzia Galil, IEEE Life Member, founder of the Israel Section, IEEE Israel Section Chair (1966-1967), passed away. Uzia was instrumental in creating IRE Israel Section in 1954, the first Section in IRE Region 9, in the Eastern Hemisphere and in what is now IEEE Region 8.

#### **PROPOSED ACTION**

That the following resolution on behalf of Uzia Galil and his family shall be approved in honor of his contributions to IEEE and the IEEE community.

#### **RESOLUTION**

The IEEE Region 8 Committee expresses its deepest sympathy to the Galil family on the passing of Uzia. Uzia was an outstanding leader who served IEEE, its predecessor organization IRE, and Israel Section, with exemplary dedication and contributed to make IEEE a transnational organization.

#### **Biographical Information**

Uzia Galil, a graduate of the Technion – Israel Institute of Technology (BSc-1947) and Purdue University in the USA (MScEE – 1953), was the founder of Elron Electronic Industries Ltd., the first high technology multinational holding company based in Israel and operating worldwide. Elron developed about 25 high-tech companies in Medical Imaging, Defense Electronics, Communications, Machine Vision and Semiconductors. Uzia Galil has served as Chief Executive Officer of Elron for 38 years (1962-1999) and chairman or director of most companies founded by Elron. Prior to founding Elron, Uzia Galil was the head of the Electronic Department of the Faculty of Physics at the Technion (1957-1962), Head of Electronic Research in the Israeli Navy (1954-1957) and worked in R&D for Motorola in Chicago (1953-54).

In 1999, Uzia Galil founded Uzia Initiatives and Management Ltd. to develop regional innovations, particularly in consumer electronics, for global markets. He is also the founder of the Galil Center for Medical Informatics and Telemedicine, based at the Technion's Bruce Rapaport Faculty of Medicine in Haifa. which is one of the few Medical schools in the world that integrates the study of Computer Science, biomedical engineering and other engineering disciplines with medical studies. The Galil Center was established to support interdisciplinary research in computer science, engineering, and medicine.

TO: IEEE Region 8 Committee, November 2021

FROM: Antonio Luque, Region 8 Director

SUBJECT: Resolution for Jacob Baal-Schem

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#### **EXECUTIVE SUMMARY**

In September 2021, Jacob Baal-Schem, IEEE Life Member, IEEE Israel Section Chair (1978-1981), IEEE Region 8 Conference Coordinator (1981-1994), IEEE Region 8 History Activities Coordinator (2007-2010), Region 8 Life Members Coordinator (2004-2006, 2009-2010, 2013-2014), passed away. Jacob was a dedicated IEEE volunteer and the recipient of the Larry K. Wilson Transnational Award in 1987 for his involvement in initiating MELECON in 1981, and of the Region 8 Volunteer Award in 2008.

#### **PROPOSED ACTION**

That the following resolution on behalf of Jacob Baal-Schem and his family shall be approved in honor of his contributions to IEEE and the IEEE community.

#### **RESOLUTION**

The IEEE Region 8 Committee expresses its deepest sympathy to the Baal-Schem family on the passing of Jacob. Jacob was an outstanding leader who served IEEE, IEEE Israel Section, and IEEE Region 8, with exemplary dedication and contributed to make IEEE Region 8 excel in many aspects.

#### **Biographical Information**

Jacob Baal-Schem has been heavily involved with various organizational unit and boards of the Institute of Electrical and Electronics Engineers (IEEE) for over thirty years. He joined the Life Members Committee in 2004 and the History Committee in 2008 (and rejoined the History Committee in 2015), and was also a member of the IEEE Transnational Committee and the IEEE Communications Society. His involvement with these groups led to the initiation of historical projects including the regular Region 8 history conferences (HISTELCON) beginning in 2008, more collaboration between the Life Member and History committees, and increased activity and involvement of Life Members. Additionally, he served as chair of the Life Members Chapter Group in Israel and served as the IEEE Israel Section Chair from 1978 to 1981 and Region 8's History Activities Coordinator. For his many contributions to IEEE, Baal-Schem received the Larry K. Wilson Transnational Award of 1987 for his involvement in initiating MELECON in 1981, and the IEEE Region 8 Volunteer Award in 2008.

(From [https://ethw.org/Oral-History:Jacob\\_Baal-Schem](https://ethw.org/Oral-History:Jacob_Baal-Schem))

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to the technical program

To all **authors** of papers submitted  
from **around the world**

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### LIST OF TOPICS

Communications and Sensors

Antennas, Propagation, and Scattering

Biomedical Engineering

RF/MW Devices and Circuits, RFICs

Microwave Systems, Radar, Acoustics

Signal Processing (SP) and Imaging

Electronic Packaging & Thermal Management (P&TM)

### SPECIAL SESSION: WOMEN IN ENGINEERING



Dr. Alina Karachevsky  
Ben-Gurion University



Dr. Irit Idan  
Executive VP R&D  
Rafael



Sherry Hess  
Vice President Marketing  
AWR



Prof. Yael Hanein  
Tel Aviv University



Neta Goshen  
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Dana Cohen-Gerasli  
Tel Aviv University



Shmuel Auster  
IEEE COMCAS Chair



Esti Toledo  
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Alexandra Makarouchkin  
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Maya Shor Peled  
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A graphic element consisting of a grid of green circles of varying shades, arranged in a pattern that resembles a cluster of grapes or a stylized antenna array.



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Tel Aviv, Israel

Shmuel Auster  
IEEE COMCAS General Chair  
Chair, IEEE Israel Section





# COMCAS 2021

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to the technical program

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from **around the world**

We look forward to seeing you at  
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# Great team of invited speakers!



PROF. GERHARD P. FETWEIS

TU Dresden, SG Lab, Germany

MASSIMO C. COMPARINI

Thales Alenia Space, Italy

PROF. YAEL HANEIN

Tel Aviv University, Israel

DR. MARK E. DAVIS

IEEE AESS President-Elect (2020-2021), MEDAVIS Consulting, USA

PROF. GOUTAM CHATTOPADHYAY

California Institute of Technology, USA

PROF. STEFANO MACI

IEEE APS President-Elect, University of Siena, Italy

PROF. VADIM ISSAKOV

Braunschweig University of Technology, Germany

PROF. DMITRI MOGILEVTSOV

National Academy of Sciences Belarus

PROF. MEI SONG TONG

Tongji University China

PROF. PAOLO ROCCA

University of Trento, Italy

PROF. VITALIY LOMAKIN

La Jolla near San Diego, USA

PROF. FRANÇOIS RIVET

University of Bordeaux, France

PROF. VLADIMIR I. OKHMATOVSKI

University of Manitoba, Canada

DR. NICOLA ANSELMI

ELEDIA Research Center, ELEDIA@UniTN, University of Trento, Italy

ASSOC. PROF. GIACOMO OLIVIERI

University of Trento, Italy

DR. LORENZO POLI

ELEDIA Research Center, ELEDIA@UniTN, University of Trento, Italy

PROF. ANDREA MASSA

University of Trento, Italy

PROF. BALASUBRAMANIAM SHANKER

Michigan State University, USA

PROF. CHRISTINE LETROU

Télécom SudParis, France

PROF. ANDRII CHUMAK

University of Vienna, Austria

PROF. VLADIMIR BELOTELOV

Russian Quantum Center and Moscow State University, Russia

PROF. SHLOMO SHAMAI

The Technion, Israel

PROF. KONSTANTIN R. SIMOVSKI

Aalto University, Finland

DR. CORENTIN COULAIS

University of Amsterdam, The Netherlands

DR. VICTOR PACHECO PEÑA

Newcastle University, UK

PROF. MICHAEL R. HABERMAN

University of Texas, USA

PROF. MASSIMO RUZZENE

University of Colorado Boulder, USA

PROF. VINCENZO VITELLI

University of Chicago, USA

DR. ANTON SOUSLOV

University of Bath, UK

DR. MIKHAIL SHALAGINOV

MIT, USA

PROF. YAN-FENG WANG

Tianjin University, China

PROF. ROMAIN FLEURY

EPFL, Switzerland

# Special Session: Women in Engineering



**Dr. Alina Karabchevsky**  
Ben-Gurion University



**Dr. Irit Idan**  
Executive VP R&D  
Rafael



**Sherry Hess**  
Vice President Marketing  
AWR



**Prof. Yael Hanein**  
Tel Aviv University



**Neta Goshen**  
Managing Partner  
Electrum Induce



**Dana Cohen-Gerassi**  
Tel Aviv University



**Esti Toledo**  
Ben Gurion University



**Alexandra Makarochkin**  
Ben Gurion University



**Maya Shor Peled**  
Ben Gurion University



# Day 2 & 3

## TUESDAY, NOVEMBER 2, 2021

Hall	Grand A	Grand B	Grand C	Royal H	Royal I	Royal J	Room 3	Room 4	Room 5
09:00	CS3: Evolving Communications and Sensing Technologies	CMOS: Special Session: Millimeter-wave CMOS Circuits for Wideband Communication and Imaging Applications	CEM1: Special Session: Advanced Methods in Computational Electromagnetics 1	AMTA: AMTA Session on Antenna Measurements and RCS	EWT: Special Session: Electromagnetic Wave Theory	UWBR: Tutorial: Ultra Wide Band Surveillance Radar	SCI1: Short Course: Inverse Scattering and EM Imaging - Theory, Techniques, and Applications		AP3: Electromagnetic Compatibility
10:50	Coffee Break & Visit the Exhibition								
11:10	CS4: Communication Theory, Software and Techniques	RF1: Advances in RFIC and MMIC	CEM2: Special Session: Advanced Methods in Computational Electromagnetics 2	AP4: Electromagnetic Propagation	AM2: Special Session: Active Metamaterials 2	AP2: Antenna Theory and Design	SCI2: Short Course: Inverse Scattering and EM Imaging - Theory, Techniques, and Applications 2		SP1: Signal Processing & Imaging 1
13:00	Lunch & Visit the Exhibition								
14:20	CS5: Future of Wireless Communications	RF2: Passive Elements and Interconnects	AP6: Numerical and computational methods in EM	QA1: Special Session: Quantum Antennas and Photonic Quantum Sensing 1	AM3: Special Session: Active Metamaterials 3		SCI3: Short Course: Inverse Scattering and EM Imaging - Theory, Techniques, and Applications 3		SP2: Signal Processing & Imaging 2
16:20	Interactive Forum (Poster Session + Happy Hour)								

## WEDNESDAY, NOVEMBER 3, 2021

Hall	Royal H	Royal I	Royal J	Room 3	Room 4	Room 5
09:00	RF3: Solid State Emerging Technologies and Techniques	AP5: Metamaterials, Metasurfaces	CM1: CELEMON 1	SCA1: Short Course: Array Antenna Synthesis - Theory, Techniques, and Applications 1	QA2: Special Session: Quantum Antennas and Photonic Quantum Sensing 2	EPS1: Electronic Packaging & Thermal Management 1
10:50	Coffee Break					
11:10	W5G: Workshop: Advances in Full Duplex and FDD Integrated Systems for 5G Radios	SM1: Special Session: Scattering Management with Metamaterials and High Index Composites 1	CM2: CELEMON 2	SCA2: Short Course: Array Antenna Synthesis - Theory, Techniques, and Applications 2	CSW1: Special Session: Coupling of Spin Waves with Microwave and Optical Radiation 1	EPS2: Electronic Packaging & Thermal Management 2
13:00	Lunch					
14:20		SM2: Special Session: Scattering Management with Metamaterials and High Index Composites 2	CM3: CELEMON 3	SCA3: Short Course: Array Antenna Synthesis - Theory, Techniques, and Applications 3	CSW2: Special Session: Coupling of Spin Waves with Microwave and Optical Radiation 2	EPS3: Electronic Packaging & Thermal Management 3
16:10	Short Break					
16:20	<p style="text-align: center;"><b>Plenary Session</b></p> <p style="text-align: center;"><b>A Technical Confluence of UWB Radar and Communications in a Congested RF Environment</b> Mark E. Davis (Medavac Consulting, USA)</p>					
16:55	<p style="text-align: center;"><b>Plenary Session</b></p> <p style="text-align: center;"><b>A new generation of metasurface antennas</b> Stefano Maci (University of Siena, Italy)</p>					
17:30	Awards Ceremony & Closing					

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