

**21st Annual Conference And Technical Workshop
of the Israel Vacuum Society (IVS)
Dan Tel Aviv Hotel, 99 Hayarkon St. Tel-Aviv**

Program

Wednesday, Sept. 11, 2002

8:15 - 9:30 Registration, Coffee, Cake – (Sabra , Sabra Extension, and Galilee Halls)

9:00 – Opening of Commercial Exhibition (Sabra Extension and Galilee)

9:30 – 9:45 Opening Session (King David Hall)

Chair, Sidney Cohen, IVS President

Greetings, Yoram Shapira, TAU

9:45 – 11:40 Parallel Morning Sessions

Session SC-M Semiconductor Industry (King Solomon Hall)

Chairperson Yigal Dafna, Nova

9:45-10:30 SCM-1 TBA

M. Eden, Intel Israel Design Center, Haifa

10:30 –11:05 SCM-2 TBA

M. Fassberg, Intel Fab 18

11:05 – 11:45 SCM-3 Innovations in Wafer Level Chip Scale Packaging for Image Sensors and other Optical Devices

S. Oren, Shellcase Ltd.

Session SPT-M Space Technology (King David Hall)

Chairperson – Galit Zilberman, El Op

9:45–10:30 SPTM-1 Surface Modification of Polymers, Paints and Composite Materials Used in the Low Earth Orbit Space Environment

J. I. Kleiman, Integrity Testing Laboratory Inc, Canada.

10:30–11:05 SPTM-2 Interaction of black paint outgassing products with VUV radiation: In- Situ NUV-VIS Spectroscopy and XPS Studies

N. Levy, Soreq NRC, Israel.

11:05-11:40 SPTM-3 Simulated Low earth Orbit (LEO) Environmental Effects on Fluoropolymers

R. Intrater, Soreq NRC, Israel.

11:40–12:45 Posters & Commercial Exhibition (Sabra, Sabra extension, Galilee)

12:45 – 14:00 Lunch

14:00- 15:45 Parallel Afternoon Sessions

Session SC-A Semiconductor Industry (King Solomon)

Chairperson Yigal Dafna, Nova

14:00 – 14:45 SCA-1 Participation in EU Framework Program 6 Funded Projects
M. Morron, ISERD

14:45 – 15:20 SCA-2 TBA
D. Shemesh, Applied Materials

Session SPT-A Space Technology (King David)

Chairperson G. Zilberstein, El Op

14:00–14:45 SPTA-1 On The Stability of SiC in Space Environment,
G. Gallay, Seso, France.

14:45–15:20 SPTA-2 Composite Structures for Space
A. Moshonov, Rafael, Israel.

15:20-15:45 SPTA-3 TBA
El-Op, Israel.

Closing Session (King David Hall)

15:45 – 16:15 IVS Business Meeting (everyone invited!)

16:15 – 17:00 Plenary Lecture Space programs in Israel
Har Even, ISA

17:00 – 17:15 IVS Technician's prize ceremony

17:15 – 18:00 Departure and light refreshments

Thursday, Sept. 12, 2002

8:00 - 9:00 Registration

9:00 – 9:15 Opening Session (King David Hall)
Greetings: Michael Roth CGA and Sidney Cohen IVS

9:15 – 11:30 Parallel Morning Sessions

Session NH-M Nanohappenings Israel (King David Hall)

Chairperson – Sidney Cohen, WIS

9:15 - 9:40 NHM-1 Protein-Made Nano-Structures
A. Freedman, TAU

9:40 - 10:05 NHM-2 Nanosciences and Nanotechnology at the Weizmann Inst.
R. Tenne, WIS

10:05-10:30 Coffee Break + Commerical Exhibition

10:30 – 11:30 NHM-3 1-minute oral presentations of posters

Session CG-M Crystal Growth, General (King Solomon Hall)

Chairperson – Michael Roth, HU

9:15 - 9:40 CGM-1 Phase Diagrams of Protein Solutions: The Effect of Multiple
Extrema in the Inter-Molecular Potential
S. Brandon* and P. G. Vekilov, Technion

9:40 - 10:05 CGM-2 Growth and Characterization of CdTe and CdZnTe Crystals
for Substrate Application
M. Azoulay*, R. Zilber, S. Shusterman, A. Goldgirsh and I. Zontag, Soreq NRC.

10:05-10:30 Coffee Break + Commerical Exhibition

10:30 – 10:55 CGM-3 Room Temperature Pyroelectricity in Substrate-Free
Grown

Hexagonal BaTiO₃ Thin Films

N. Stavitski, V. Lyahovitskaya, J. Nair, I. Zon, I. Lubomirsky*, WIS.

10:55 – 11:20 CGM-4 Morphology of PECVD Solar Cells
F.Edelman*, R.Weil, R.Beserman, A.Chack, P.Werner, B.Rech,
T.Roschek, and W.Beyer, Technion

**11:30-15:00 Poster viewing (Sabra Hall), commercial exhibition
(Galilee and Sabra Extension) lunch buffet served between 12:30 –
14:00**

15:00 – 16:40 Parallel Afternoon Sessions

Session NH-A Nanohappenings (King David Hall)

Chairperson – Yossi Rosenwaks, TAU

15:00-15:25 NHA-1 Harnessing DNA Molecules to the Realization of Molecular Scale Electronics

U. Sivan, Technion

15:25-15:50 NHA-2 An Overview of the Nanotechnology Initiative of the BICAM
C. Sukenik and A. Gedanken, BIU

15:50-16:15 NHA-3 Correlation of Tunneling Spectra with Surface Nano-Morphology and Doping in Thin $\text{Yb}_2\text{Cu}_3\text{O}_7$ Films

O. Milo, HU

16:15-16:40 NHA-4 TBA

A. Berman, BGU

Session CG-A Crystals in Telecommunications (King Solomon Hall)

Chairperson – Ehud Galun, El Op

15:00-15:25 CGA-1 A Silicon-Optical-Bench Approach to Cost-Effective Packaging for the Telecommunication Market

C. G. Jakobson, S. Kaldor*, E. Sidorov, A. Nemirovsky, Y. Nemirovsky, Technion.

15:25-15:50 CGA-2 Application of Crystal-based Optical filters for Dynamic Spectral

Equalization in DWDM Systems

A. Olier, ZettaLight.

15:50-16:15 CGA-3 Photonic Crystals in Optical Telecommunications

B. Sfez* and A. Feigel, Soreq NRC, M. Klebanov and V. Lyubin, BGU.

16:15-16:40 CGA-4 TBA

Closing Session (King David)

16:40-17:05 Award Ceremony for IVS research prize

17:05-17:45 Plenary Lecture - Crystals in Biology
S. Weiner, WIS

17:45 – 18:30 Departure and light refreshments

Buses no. 10 and 32 from Central Train Station (Arlozorov)

Bus No. 4 from Central Bus Station.

Parking at lots along Hayarkon Street

Map of area around hotel at www.danhotels.com