

## Industry-Academia Workshop on GaN Technology

August 9, 10:00 – 16:30, Technion

[Meyer \(EE\) Building](#), room 1003

### Program

- 10:00** Opening remarks, Dan Ritter, Technion, David Rosenfeld, IMOD
- 10:10** The promise and status of GaN electronics, Eldad Bahat-Treidel, FBH, Berlin
- 10:30** GaN-based LEDs: physics, technology, applications, David Mistele, TowerJazz
- 10:50** Challenges in the GaN RF HFET industry, Yaron Knafo, Gal El
- 11:10** Evaluation of trapping effect in GaN HEMT structures using the gated van der Pauw technique, Shlomo Mehari, Technion
- 11:30** Coffee break
- 11:40** Influence of the inverse piezoelectric effect on the stability of the gate electrode in GaN HEMT, Igor Lubomirsky, Weizmann
- 12:00** Feasibility studies of AlInN/GaN MISHEMTs, Vladimir Umansky, Weizmann
- 12:20** High efficiency at high frequency: fulfilling the GaN promise for energy conversion, Eli Zenouda, VISIC-TEC
- 12:40** Temperature Dependent Dynamic on State Resistance in GaN HFETs: Eldad Bahat-Treidel, FBH, Berlin
- 13:00** Lunch
- 13:50** Channel Photocurrent Spectroscopy of GaN HEMT structures, Ilan Shalish, BGU
- 14:10** Polar and Non-Polar Inter-subband Transition Based Devices in AlGaN/(In)GaN Heterostructures, Gad Bahir, Technion
- 14:30** Guided GaN Nanowires, Ernesto Joselevich, Weizmann
- 14:50** GaN photonics – developing the building blocks, Ohad Westreich, Soreq
- 15:10** Coffee break
- 15:20** Understanding the ohmic contact mechanism in GaN HEMTs, Avi Shriki, Technion
- 15:40** Epitaxial growth capabilities in the Israeli Center for Advanced Photonics, Ariel Sher, Soreq
- 15:50** GaN HEMT modeling based on pulsed S-parameter measurements, Matthias Rudolph, Brandenburg University of Technology and FBH
- 16:10** Systematic Study on Plasma Enhanced Atomic Layer Deposited Al<sub>2</sub>O<sub>3</sub> on GaN Towards vertical MIS FETs, Eldad Bahat-Treidel, FBH, Berlin

**[Please register here](#)**

**Organizer: Prof. Dan Ritter, [ritter@ee.technion.ac.il](mailto:ritter@ee.technion.ac.il)**

This program serves as entry permit to Technion

Shuttle from Hof Hacarmel Train station 9:15, [shuttle registration required here](#)

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