



The 5<sup>th</sup> Peter Brojde Conference on Innovations in  
Applied Physics and Engineering



**Heterogeneous Integration:**  
**Integration and hybridization of disparate devices and objects of  
different functionalities**

8:30 - 9:00	<i>Registration.</i>
9:00 - 9:15	<i>Welcome.</i>
9:15 - 10:15	<b>Prof. Amnon Yariv</b> , The California Institute of Technology. <u>Rethinking the Semiconductor Laser: High Q Hybrid Si/III-V Lasers for Coherent Optical Communication and Sensing.</u>
10:15 - 10:45	<b>Prof. Uriel Levy</b> , The Hebrew University of Jerusalem. <u>On chip photonics integration of silicon, metal, and vapors.</u>
10:45 - 11:15	<i>Coffee Break.</i>
11:15 - 12:00	<b>Prof. Martin Wegener</b> , Karlsruhe Institute of Technology. <u>Three-dimensional laser lithography: No limits?</u>
12:00 - 12:30	<b>Dr. Shira Yochelis</b> , The Hebrew University of Jerusalem. <u>Linking room temperature quantum devices to electronic circuitry by organic molecules.</u>
12:30 - 2:00	<i>Lunch.</i>
2:00 - 2:45	<b>Prof. Hans Zappe</b> , University of Freiburg. <u>Optofluidics: hybrid components and complete systems.</u>
2:45 - 3:15	<b>Dr. Nir Bar-Gil</b> , The Hebrew University of Jerusalem. <u>NV enters in diamond as integrated sensing and spin manipulation devices.</u>
3:15 - 3:45	<i>Coffee Break.</i>
3:45 - 4:15	<b>Prof. Aharon Agranat</b> , The Hebrew University of Jerusalem. <u>Refractive index engineering by high energy ion implantations: a generic methodology for constructing complex photonic circuits.</u>
4:15 - 5:00	<b>Prof. Yoel Fink</b> , The Massachusetts Institute of Technology. <u>Multimaterial Fibers: from nanofabrication to chemical reactions to axially modulated devices.</u>
5:00 - 5:20	Prof. Aharon Agranat: Concluding Remarks.