

MAY 24

**THURSDAY**

**8:00 – 12:00**  
**Registration**

**9:00 – 9:20**  
**Welcome**

Dr. Leonid Tartakovsky, Director Internal Combustion Engines Lab, Technion Prof. Anath Fischer, Deputy Executive Vice President for Research, Technion Prof. Yoram Halevi, Dean, Faculty of Mechanical Engineering, Technion  
Dr. Bracha Halaf, Chief Scientist, Ministry of Energy and Water Resources

**9:20 – 10:00**  
**Keynote Lecture**

Reduce, Reuse and Recycle: Energy Management in Future Automotive Applications  
Thomas McCarthy, Chief Engineer, Global Powertrain Research & Advanced Engineering, Ford Motor Company, USA

**10:00 – 10:50**  
**Technical Session: Rankine Cycle**

Pre-Design of Waste Heat Recovery ORC Systems for Heavy-Duty Trucks by Means of Dynamic Simulation  
Prof. Vincent Lemort, Thermodynamics Laboratory of University of Liege, Belgium

IAV Advanced Thermal Management: A New Approach for The Use of Low Temperature Heat Sources in a Rankine Cycle  
Dipl.-Ing. Oliver Dingel, IAV – Automotive Engineering GmbH, Germany

**10:50 – 11:20**  
**Networking Break**

**11:20 – 12:10**  
**Technical Session: Turbo Charging and Turbo Compounding**

Utilization of Exhaust Gas Energy through Turbocharging  
Prof. Roland Baar, Professor of Combustion Engines, Technical University Berlin, Germany

Waste Heat Recovery Using the Inverted Brayton Cycle and Additive Manufacture  
Eng. Andrew Jones, HiETA Technologies, Ltd., UK

**12:10 – 13:10**  
**Networking Lunch**

**13:10 – 14:50**  
**Technical Session: Thermo-Chemical Recuperation and Fuel Reforming**

Catalytic Heat Recovery for Reduced Engine Emissions and Fuel Consumption  
Prof. Athanasios (Thanos) Tsolakis, University of Birmingham, UK

Improvement of energy efficiency of the E100 SI engine by application of fuel reforming  
Marko Certic, AVL, Austria

Heat Recovery in Vehicles by Thermochemical Energy Storage  
Dipl.Ing. Fabian Havlik and Prof. Bernhard Geringer, Vienna University of Technology, Austria

In-Cylinder Steam Reforming in Diesel Engines  
Prof. Eran Sher, Technion – Israel Institute of Technology, Israel

**14:50 – 15:20**  
**Networking Break**

**15:20 – 17:00**  
**Technical Session: Thermo-Electrics and Other Issues of WHR**

Practical Thermoelectric Applications – Past, Present and Future  
Prof. Yaniv Gelbstein Ben-Gurion University of the Negev, Israel

Heat Recovery of Low Temperature Sources  
Dipl.-Ing. Bakir Puran & Dr. Bouzid Seba, Liebherr Machines Bulle SA, Switzerland

Control Aspects of Waste Heat Recovery Systems  
Eng. Frank Kupper, TNO - Netherlands Organisation for Applied Scientific Research, the Netherlands

High-Pressure Thermochemical Recuperation  
Dr. Leonid Tartakovsky, Technion – Israel Institute of Technology, Israel

**17:00 – 18:00**  
**Conference Reception**

**SESSION**

**NETWORKING OPPORTUNITY**