

Session Program

Oct 16 – 18, 2026



3rd TAGRA

Thermal Sciences

Gumushane, Gumushane University
Gumushane University Campus, Gumushane, Türkiye

Sat, October 17

11:20 AM

Thermal Sciences

Session | Location: Gumushane, Gumushane University, Gumushane University Campus, Gumushane, Türkiye

11:20 – 11:35 AM

Experimental Comparison of Thermoelectric Cooling Performance in Refrigerator and Air-Conditioning Applications

Speaker

İlhan Volkan ÖNER

11:35 – 11:50 AM

Numerical Study of Geothermal Heat Transfer in a Borehole Heat Exchanger Using COMSOL Multiphysics and Comparison with Experimental Data

Speaker

Mansur MUSTAFAOGLU

11:50 AM – 12:05 PM

Evaluation of Environmental Factors Affecting Photovoltaic System Performance

Speaker

Pınar CELEN

12:05 – 12:20 PM

Physics-Informed Neural Networks for Multi-Domain Heat Conduction: Role of Interface Continuity Conditions and Sensitivity to Conductivity Contrast

Speaker

Taha TOPCU

12:20 – 12:35 PM

Break

12:35 – 12:50 PM

Numerical and Experimental Analysis of the Effect of Turbulators and Fluids in High-Emissivity Flat-Plate Solar Collectors

Speaker

Ahmet Numan ÖZAKIN

12:50 – 1:05 PM

Experimental Evaluation of the Impact of Radiator Design and Baseline Conditions on Thermoelectric Air Conditioning Performance

Speaker

İlhan Volkan ÖNER

1:05 – 1:20 PM

Experimental Investigation of Cooling with Metal Foam in a Thermoelectric-Assisted Photovoltaic-Thermal System

Speaker

Ahmet Numan ÖZAKIN

1:30 PM