

06.09.2019

Programme of the X International School on Thermoelectricity

September 10, 2019, Tuesday	
14 ⁰⁰ -20 ⁰⁰	Arrival day. Registration
September 11, 2019, Wednesday	
8 ³⁰ -9 ⁰⁰	Registration
9 ⁰⁰ -9 ¹⁵	Opening of the School
Lectures:	
9 ¹⁵ -10 ⁰⁰	ITA Academician, L. Anatyshuk (Ukraine). Topical issues of history, current state and prospects of thermoelectricity
10 ⁰⁰ -10 ¹⁵	Break
10 ¹⁵ -11 ⁰⁰	Lecture continued
11 ⁰⁰ -11 ¹⁵	Break
11 ¹⁵ -12 ⁰⁰	ITA Academician, H. J. Goldsmid, S. Bhattacharya (Australia). Using Peltier Cooling to Determine the Thermoelectric Figure of Merit
12 ⁰⁰ -12 ¹⁵	Break
12 ¹⁵ -13 ⁰⁰	Associate of the ITA, R. Kobilyansky (Ukraine). Thermoelectricity in medicine: current state and prospects
13 ⁰⁰ -14 ⁰⁰	Lunch
14 ⁰⁰ -14 ⁴⁵	ITA Academician, S. Melnychuk (Ukraine). Fundamental training of young specialists as the most important success factor in thermoelectricity
14 ⁴⁵ -15 ⁰⁰	Break
15 ⁰⁰ -15 ⁴⁵	Associate of the ITA, A. Prybyla (Ukraine). Theory of thermoelectric devices and their computer design.

15 ⁴⁵ -16 ⁰⁰	Break
16 ⁰⁰ -16 ⁴⁵	ITA Academician, R. Cherkez (Ukraine). Permeable thermocouples, increasing the efficiency of modules by 1.2 to 1.4 times; prospects of application.
16 ⁴⁵ -17 ⁰⁰	Break
17 ⁰⁰ -19 ⁰⁰	Meetings in the laboratories of the Institute of Thermoelectricity
September 12, 2019, Thursday	
Lectures:	
9 ⁰⁰ -9 ⁴⁵	Associate of the ITA, Yu. Grin (Germany). Thermoelectric materials: chemical composition, crystalline structure and chemical bonding
9 ⁴⁵ -10 ⁰⁰	Break
10 ⁰⁰ -10 ⁴⁵	Lectures continued
10 ⁴⁵ -11 ⁰⁰	Break
11 ⁰⁰ -11 ⁴⁵	Associate of the ITA, Kryshtof Wojciechowski (Poland). Inhomogeneous thermoelectric material
11 ⁴⁵ -12 ⁰⁰	Break
12 ⁰⁰ -12 ⁴⁵	ITA Academician, John Stockholm (France). On the development of thermoelectric generators
12 ⁴⁵ -14 ⁰⁰	Lunch
14 ⁰⁰ -14 ⁴⁵	ITA Academician, L. Vykhov (Ukraine). Contact resistances in thermoelectricity. Theory, technology, measurement methods
14 ⁴⁵ -15 ⁰⁰	Break
15 ⁰⁰ -15 ⁴⁵	Associate of the ITA, R. Kuz (Ukraine). Thermoelectric generators for use of waste heat: theory, designs, rational applications
15 ⁴⁵ -16 ⁰⁰	Break
16 ⁰⁰ -16 ¹⁵	Ashutosh, Kumar (Poland) Improved Thermoelectric Properties in Lanthanum Cobaltate based Composite Oxide Systems

16 ¹⁵ -16 ³⁰	V. Zakordonets (Ukraine) Stabilization of LED thermal mode by thermoelectric cooling modules
16 ³⁰ -16 ⁴⁵	Aleksandra Dubiel (Poland) Zirconium diboride as a potential electrode material for high temperature thermoelectric modulus
16 ⁴⁵ -17 ⁰⁰	Break
17 ⁰⁰ -19 ⁰⁰	Meetings in the laboratories of the Institute of Thermoelectricity
September 13, 2019, Friday	
Lectures:	
9 ⁰⁰ -9 ⁴⁵	ITA Academician, O. Luste (Ukraine). Breakthrough in calorimetry: from micro to nanocalorimeter. New important applications
9 ⁴⁵ -10 ⁰⁰	Break
10 ⁰⁰ -10 ⁴⁵	Lecture continued
10 ⁴⁵ -11 ⁰⁰	Break
11 ⁰⁰ -11 ⁴⁵	ITA Academician, Xanthippi Zianni (Greece). Let's use thermoelectric transport theory to interpret experimental observations
11 ⁴⁵ -12 ⁰⁰	Break
12 ⁰⁰ -12 ⁴⁵	ITA Academician, S. Yatsyshyn (Ukraine). Mechanical stress engineering in thermoelectric nanosensors
12 ⁴⁵ -14 ⁰⁰	Lunch
14 ⁰⁰ -14 ⁴⁵	ITA Academician, A. Casian (Moldova). High Thermoelectric Properties in Quasi-One-Dimensional Organic Crystals
14 ⁴⁵ -15 ⁰⁰	Break
15 ⁰⁰ -15 ⁴⁵	ITA Academician, V. Razinkov (Ukraine). Thermoelectric coolers of space application
15 ⁴⁵ -16 ⁰⁰	Break
16 ⁰⁰ -16 ¹⁵	O. Zadorozhnyi (Ukraine). Prospects for the use of thermoelectric devices in ophthalmology

16 ¹⁵ -16 ³⁰	A. Solomakha (Ukraine). The concept of improving a centrifugal distiller with a thermoelectric heat pump for water regeneration in space
16 ³⁰ -17 ⁰⁰	Summing up. Closing of the School
17 ⁰⁰ -19 ⁰⁰	Meetings in the laboratories of the Institute of Thermoelectricity
September 14, 2019, Saturday Solemn meeting of ITA members dedicated to the 25th anniversary of the International Thermoelectric Academy.	
9 ⁰⁰ -9 ⁴⁵	Associate of the ITA, V. Lysko (Ukraine). Metrology of thermoelectric materials: theory, methods, and measuring equipment
9 ⁴⁵ -10 ⁰⁰	Break
10 ⁰⁰ -10 ⁴⁵	Lecture continued
10 ⁴⁵ -11 ⁰⁰	Break
11 ⁰⁰ -11 ⁴⁵	ITA Academician, O. Manik (Ukraine). Multi-factor problems of thermoelectric material science
11 ⁴⁵ -12 ⁰⁰	Break
12 ⁰⁰ -12 ⁴⁵	V. Prokopiv (Ukraine). Thermoelectric properties of PbTe-based multicomponent materials: bulk and thin films
12 ⁴⁵ -13 ⁰⁰	Break
13 ⁰⁰ -13 ⁴⁵	V. Deibuk (Ukraine). Artificial intelligence methods and the construction of failure-proof digital devices
13 ⁴⁵ -15 ⁰⁰	Lunch
15 ⁰⁰ -16 ⁰⁰	ITA Academician, L. Anatyshuk. On the activities of the International Thermoelectric Academy: achievements and prospects.
16 ⁰⁰ -17 ⁰⁰	Speeches of the ITA members and other participants of the meeting
17 ⁰⁰ -20 ⁰⁰	Fourchette

