



Newsletter - April 2018

ECTP NEWS

*To the members of the IOC
of the ECTP*

Dear Colleagues,
welcome to our yearly contact. We have lots of news starting with the statistics from the last six ECTPs.

| Presentations | ECTP | | | | | |
|---------------|------|------|------|------|------|------|
| | 2002 | 2005 | 2008 | 2011 | 2014 | 2017 |
| Oral | 159 | 125 | 185 | 211 | 175 | 200 |
| Poster | 133 | 185 | 266 | 161 | 199 | 127 |
| Total | 292 | 310 | 451 | 372 | 374 | 327 |

| | | | | | | |
|-----------|-----|-----|-----|-----|-----|-----|
| Attendees | 340 | 210 | 394 | 315 | 391 | 380 |
| Countries | 42 | 30 | 40 | 31 | 40 | 33 |

During the last fifteen years the number of presentations has been in the 300-450 range, involving participants from 30-40 countries. Considering the delicate economic world situation in the last decade and the limited amount of available travel funds, these numbers are rather good and encouraging. It is also worth to note that during the last three conferences, a range from one third to one fourth of the participants came from Asian countries.

Five new members have recently joined the IOC. Prof. Andreas Mandelis (Canada), Prof. Hiroyuki Fukuyama (Japan), Prof. Xing Zhang (P.R. China), Dr Marcia Huber (USA), and Prof. Alberto Muscio (Italy), who will host the next ECTP in Venice. We gladly welcome the new members.

Prof. Akira Nagashima retired after serving in the IOC for 27 years. We thank him for his excellent contribution and his liason with the ATPC. In August 2017 Dr Francesco Righini announced his decision to retire from the IOC Secretariat after serving for 15 years. We thank him for his great contribution to the ECTPs and to the IOC. I was privileged to work and learn from him during the last three years.

IOC Secretariat:
Marc J. Assael



ECTP 2017

21st European Conference on Thermophysical Properties

Graz, Austria, September 3-8, 2017

The 21st European Conference on Thermophysical Properties (ECTP) took place at Graz University of Technology from 3rd to 8th September 2017. It was organized by the Thermophysics and Metal-physics group of the Institute of Experimental Physics at TU Graz, with the help of ÖGI Leoben and of AIT, Vienna.

1. Participants

The total number of participants was 380 persons, from all over the world with the geographical breakdown shown in Table 1.

Table 1: Geographical breakdown of 21st ECTP participants

| Europe | | 232 | |
|----------------------|----|----------------------|----------|
| Austria | 32 | Portugal | 27 |
| Belgium | 3 | Russian | 10 |
| Bosnia Herzeg. | 1 | Serbia | 1 |
| Czech Republic | 12 | Slovakia | 5 |
| France | 14 | Spain | 12 |
| Germany | 73 | Sweden | 4 |
| Greece | 2 | Switzerland | 1 |
| Hungary | 2 | Turkey | 2 |
| Italy | 10 | UK | 12 |
| Poland | 9 | | |
| Asia | | 105 | |
| China | 33 | Oceania | 5 |
| Japan | 55 | Australia | 5 |
| Korea | 13 | | |
| Malaysia | 1 | | |
| Taiwan | 2 | | |
| United Arab. E. | 1 | | |
| North America | | 30 | |
| Canada | 9 | South America | 5 |
| Mexico | 6 | Brazil | 4 |
| USA | 15 | Colombia | 1 |
| Africa | | 3 | |
| Algeria | 1 | South Africa | 2 |

2. Plenary Lectures & Invited Talks

Plenary lectures (3)

Christof Gaiser

Physikalisch-Technische Bundesanstalt Institut Berlin,
Germany

“New SI” - Temperature and the Boltzmann constant

Andreas Mandelis

Center for Advanced Diffusion-Wave and Photoacoustic
Technologies (CADIPT),
Dept. of Mechanical and Industrial Engineering,
Univ. of Toronto, Canada

Photothermal Coherence Tomography: Principles and Applications of a New Thermophysics-Based Three-Dimensional Imaging Methodology

Wolfgang Schützenhöfer

Department Testing Laboratories,
BÖHLER Edelstahl GmbH & Co KG, Kapfenberg, Austria

Numerical Simulation as an Optimization Tool at a Special Steel Producer (Böhler Edelstahl)

Invited talks (6)

Boris Wilthan

Thermodynamics Research Center,
Material Measurement Laboratory, Protiro @ National
Institute of Standards and Technology, Boulder CO, USA
A free online NIST/TRC Resource for Thermophysical Property Data of Metals and Alloys

Douglas M. Matson

Tufts University, Medford MA, USA
In-Situ Property Measurement for Selection and Control of Convection in EML Space Experiments

Hiroyuki Shibata

IMRAM, Tohoku University, Sendai, Japan
Thermal Diffusivity Measurement for Metallic and Oxide Glasses using a Laser Flash Method

Michal Fulem

University of Chemistry and Technology,
Prague, Czech Republic
Thermodynamic Properties and Phase Behavior of Molecular Crystals – Theory and Experiment Hand in Hand

Manuel J. Monte

University of Porto, Portugal
Estimation of Phase Transition Properties of Halogenated Benzenes

Mark B. Shiflett

Chemical and Petroleum Engineering Center for
Environmentally Beneficial Catalysis, Life Sciences
Research Laboratory, Univ. of Kansas, Lawrence, USA
Ionic Liquids – Phase Behavior to Applications

3. Awards

During the 21st ECTP two awards were given to the following outstanding candidacies:

- The ECTP-NETZSCH Young Scientist Award was received by Dr. Andriy Yakymovych, Department of Inorganic Chemistry Functional Materials, University of Vienna.
- The ECTP Lifetime Award was received by Dr Francesco Righini, AIPT, Italian Society for Thermophysical Properties (formerly from INRIM, Istituto Nazionale Ricerca Metrologica), Torino, Italy.

Two winners were selected for the best poster award competition: A. Adibekyan (Poster EE-P1) and D. S. Damaceno, (Poster PE-P4).

4. Contributions

The conference contributions included **200** oral presentations and **127** posters. There were six oral sessions, held parallel in 5 lecture halls. All the posters were presented in two sessions: one on Monday and another one on Tuesday.

5. Social Events

The welcome reception was held in the evening of Sunday, September 3rd on the ground floor of the physics building.

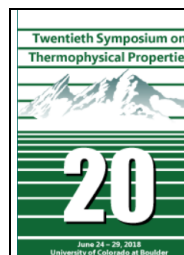
A visit to Castle Eggenberg too place on Wednesday afternoon, as well as guided city-walks to the old town of Graz, world heritage city.

Everybody was welcome to the conference dinner, in Grazer Congress Stephaniensaal, Wednesday evening starting at 19:00. The Lifetime Award presentation took place during the dinner, which ended with public dancing to the rhythms of a live band. We said good bye to the participants with a farewell party at the end of the closing ceremony.

*For the Local Organizing Committee
Prof. Gernot Pottlacher*

thermophysical propertiesconferences.com

The site presents information on the ECTP, ATPC and STP, aiming to keep the history of these conferences alive, and to inform the users of forthcoming events. If you have photographs from previous conferences, please help to improve the public record by sending them to Marc J. Assael (assael@auth.gr).



STP 2018

20th Symposium on Thermophysical Properties

The 20th Symposium on Thermophysical Properties (STP) will take place on June 24-29, 2018, in Boulder, CO, USA, organized by the National Institute of Standards and Technology, the Joint ASME-AIChE Committee on Thermophysical Properties, at the University of Colorado Boulder.

Symposium Organizers:

*Dr Daniel G. Friend, Dr Marcia L. Huber, and
Dr Kenneth Kroenlein*

(thermosymposium.nist.gov)

12th ATPC, 2019

The 12th Asian Thermophysical Properties Conference will take place on October 2-6, 2019, in Xi'an Jiaotong University, P.R. China.

Organizer:

Prof. M.G. He



Venice, Italy, September 14-17, 2020

The conference will be organized by the AIPT-Italian Society for Thermophysical Properties, by the University of Modena and Reggio Emilia (EELab-Energy Efficiency Laboratory), by CNR-ITC Padova, and by the IUAV University of Venice, Italy, at the IUAV University, Venice.

Chairman: Prof. Alberto Muscio

