2nd Journal of Thermal Analysis and Calorimetry Conference

BUDAPEST

June 18–21, 2019

AKCongress

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Welcome

The friendly atmosphere has long been a strong value of the Journal of Thermal Analysis and Calorimetry (JTAC), and during the five decades of publishing a global community has formed around the Journal. With the Journal of Thermal Analysis and Calorimetry Conference (JTACC) series we wished to create an opportunity where our editorial board, authors, reviewers, supporters, and all those who are interested in this wonderful field, can meet personally.

Hungary is one of the cradles of modern thermal analysis. The World's very first commercial simultaneous TG/DTG/DTA instrument, i.e. the famous Derivatograph, was developed at the Technical University of Budapest in the early 1950s. Its huge success with more than 4000 pieces sold, paved the way for the World's first thermoanalytical journal (JTAC), established in 1969. Hungary was the host of both ICTAC (1974) and ESTAC (1998), and in 2007 the V4 (Joint Czech–Hungarian–Polish–Slovakian) Thermoanalytical Conference series was launched. In 2017 the joint 1st JTACC–6th V4 conference was held in Hungary, and now we are happy to host again a world conference on thermal analysis by combining the 2nd JTACC and the 7th V4 conferences this year.

The present conference is unique, because we are celebrating now the 50th birthday conference of JTAC. We are honored that so many of you would like to join and celebrate with us. We are happy that besides the company sponsors, the Ministry of Innovation and Technology and the Hungarian Academy of Sciences also support this special event. H.E. Dr. László Palkovics, Minister for Innovation and Technology, is the patron of the conference. The Budapest University of Technology and Economics, the Thermonalytical Workgroup of the Hungarian Chemical Society and SpringerNature are our special partners.

We are very honored that over 500 registered participants from ca. 43 countries decided to celebrate the 50th birthday of JTAC with us. We have a very packed program including 5 plenary, 16 invited, ca. 150 oral and 200 poster contributions. We will have a special workshop, where we would like to plan the future of JTAC together with you. During the meeting, the JTAC Scientific Excellence Award, the JTAC Young Scientist Award and the JTAC Best Reviewer Award will be handed over. To support young scientists, 9 JTAC Travel Grants and 12 JTACC V4 Travel Grants are also provided.

We have a deep passion for innovation. At the conference, you can use the JTACC mobile app, check the JTACC Participant Map, follow us on Facebook and watch our conference videos. We will have an electronic poster session. During the oral presentations, you will be able to send your questions on-line.

In addition, we do hope that you will also be able to find enough time to enjoy the beauty and the unique atmosphere of Budapest, the capital of our 1100-year old country.

On behalf of the organizing committee, we wish you a pleasant stay and exciting discussions during JTACC-V4 2019.

Imre Szilágyi
Conference Chair

Scientific and Organizing Committee

Scientific Committee

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Useful Information

General Information

JTACC+V4

2nd Journal of Thermal Analysis and Calorimetry Conference
and 7th V4 (Joint Czech-Hungarian-Polish-Slovakian) Thermoanalytical Conference

June 18–21, 2019 / Budapest, Hungary

Conference Venue

Danubius Hotel Helia****
62–64. Kárpát utca, 1133 Budapest, Hungary
Phone: (+36) 1/488-8100
E-mail: h1688-sb@accor.com

Conference Language

The official language of the Conference is English. No translation services will be provided.

Registration and Information Opening Hours / Registration Desk

Tuesday, 18 June	**14:00–18:00**
Wednesday, 19 June	**08:00–18:30**
Thursday, 20 June	**08:00–18:00**
Friday, 21 June	**08:00–17:00**

The Registration Desk will be open during the above opening hours. During these times, preregistered participants can pick up their name badges and conference materials. Please be prepared to present a proof of your advance payment and, if applicable, a proof of your PhD student status.

Opening Hours / Exhibition and Digital Poster Hall

The Helia Gallery will host the exhibition and poster session. They will be open all day long during the entire time of the conference.

Each poster will be presented for 30 minutes. Since the posters will be displayed on smart TVs, all of the posters can be browsed any time as well.

In case you meet some technical difficulties during your poster session, you can get help at the slide-check desk.

Wednesday:	08:30–18:00
Thursday–Friday:	08:30–18:00

On-site Payment

On-site registration is also possible and credit card or cash payment will be accepted.

The Conference registration fee includes:

- Attendance to all scientific sessions
- Conference bag with complete conference materials (pen, notepad, program book, etc.)
- Coffee breaks and lunches during the conference days
- Admission to the Welcome Reception
- VAT is included
- Admissions to the conference dinner

The accompanying fee includes:

- Accompanying persons do not actually participate at the Conference, i.e. they come with an active participant.
- Admission to the Welcome Reception
- VAT is included
- Admissions to the conference dinner

Questions

For inquiries related to JTACC 2019, please contact the Conference Coordinator at jtacc@akcongress.com

Name Badges

Participants, accompanying persons and exhibitors are kindly requested to wear their name badge during all Conference events. Admittance to the scientific sessions will be refused if the required badge cannot be presented.

WIFI and Internet

A free network will be available in the whole building.

Network: **JTACC2019**
Password: **JTACC2019**

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3. Choose „Add new event" in the menu.
4. Click on „Scan QR code".
5. Scan this QR code.

Mobile Phones

As a courtesy to our speakers and other attendees, please turn off your mobile during the sessions.

Certificate of Attendance

Participants will be given a Certificate of Attendance upon registration.

Currency

The unit of Hungarian currency is known as the Hungarian Forint (HUF). Bills come in 20,000, 10,000, 5,000, 2,000, 1,000, 500 HUF notes, coins are 200 (two colored, similar to €1), 100 (two colored, similar to €2), 50, 20, 10, 5 HUF. Euro is accepted at most hotels and some of the restaurants and shops. You can also use credit cards in major shops and larger restaurants.

Main Taxi Companies

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- 6×6 Taxi • Phone: +36 1 666 6666 • Web: *http://new.6x6taxi.hu/#*
- Airport Shuttle • Web: *https://www.minibud.hu/en*

Getting around in town

Public Transport

- Metro {MAP attached} *http://www.hungarybudapestguide.com/wp-content/uploads/Budapest-Metro-Map.pdf*
- Tram
- Trip Planner: *http://futar.bkk.hu/?map=13/47.501/19.053&layers=GSVB*
- Ticket Prices

Single ticket	350 HUF
Single ticket bought on the spot	450 HUF
Block of 10 tickets	3 000 HUF
Airport shuttle bus single ticket (100E)	900 HUF
Transfer ticket	530 HUF
Short section metro ticket for up to 3 stops	300 HUF
Single ticket for public transport boat	750 HUF

Short-term Rentals

- Bike rental: MOL Bubi • Web: *https://molbubi.bkk.hu/*
- Car rental: MOL Limo • Web: *https://www.mollimo.hu/en/ // GreenGo https://www.greengo.hu/*

Budapest metróhálózata
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Welcome Reception

Time and Date: **18:30, June 18, 2019**

Venue: **Helia Gallery, Danubius Hotel Helia**

At the Welcome Reception all participants will have a chance to grab a bite, mingle and get to know each other. Fingerfood and refreshments will be served.

50th Anniversary Dinner

Time and Date: **19:00, June 20, 2019**

Venue: **Royal Palace of Gödöllő**

Bus transfer will take the participants to the dinner venue. The group meets in the Hotel Helia Lobby and buses leave at 18:00 for Gödöllő.

Program

18:00	Bus transfer to the dinner venue – we meet in the lobby of the hotel
19:00–19:30	Welcome drinks and remarks by the Chair of the JTACC
19:30–20:30	Buffet Dinner and Networking
20:30–21:00	50th Anniversary Cake is served
21:00–21:20	Hungarian Folk Dance Performance
21:20–23:00	Party

Plenary Speakers

Schedule of the Plenary Speeches

Time	Speaker	Country	Title
17:00, June 18	Alexander Bannov	Russia	JTAC Young Scientist Award lecture: Thermal Analysis of Carbon Nanomaterials: Advantages and Problems of Interpretation
17:45, June 18	Barbara Pacewska	Poland	Utilization of aluminosilicate by-products in binding mixtures – benefits and limitations
08:30, June 19	Michael Feist	Germany	PulseTA, a promising extension of coupled TA devices and its contribution to the chemistry of fluorides
08:30, June 20	Wei-Ping Pan	USA	Thermal Analysis for Combustion Research: Data Interpretation and Challenges: Emission of Volatile Organic Compounds (VOCs) during Coal Combustion at Different Heating Rates
08:30, June 21	Géza Regdon Jr.	Hungary	Formulation, structural and thermal analysis of an innovative buccal mucoadhesive film drug delivery system from two different polymers

Barbara Pacewska
Faculty of Building, Mechanics and Petrochemistry, Institute of Chemistry
Warsaw University of Technology, Poland

Utilization of aluminosilicate by-products in binding mixtures – benefits and limitations

Barbara Pacewska is a professor at the Institute of Chemistry, Faculty of Civil Engineering, Mechanics and Petrochemistry, Warsaw University of Technology, Poland (professor emeritus since October 2018). Her main research interests are: calorimetry, thermal analysis and other complementary methods, chemistry of solids, inorganic chemistry, cement materials, sorbents. She has over 400 items in her scientific achievements, among others more than 100 papers in scientific journals and over 210 conference contributions including invited key and plenary lectures.

Her main activities in the field of thermal analysis and calorimetry: member of Board of Polish Society of Calorimetry and Thermal Analysis (1994–) and President of this society (2006–2012, 2013–2015), Regional Editor of Journal of Thermal Analysis and Calorimetry (2000–2018), Member of Editorial Board of JTAC as Associate Editor (2018–), Guest co-editor or editor of 8 special issues of Journal of Thermal Analysis and Calorimetry, ICTAC Affiliate Councillor for Poland (2008–), Member or Chairperson of Organizing or Scientific Committees of conferences: Seminars to the memory of Prof. S. Bretsznajder (1977–2016), Conferences on Calorimetry and Thermal Analysis (1994–2018) and other conferences.

Main Awards: First Award of the Journal of Thermal Analysis and Calorimetry (2006), three Awards of Education Ministry, Award in 4th International Competition EKO 2001, nineteen Scientific Awards of Rector of Warsaw University of Technology.

Michael Feist
Institute of Chemistry, Humboldt University Berlin (Germany)

PulseTA, a promising extension of coupled TA devices and its contribution to the chemistry of fluorides

After his chemistry studies at Humboldt University Berlin, where he finished in 1975 with a diploma thesis on Halon exchange reactions of tungsten hexachloride, Michael Feist went in 1976 to the chemistry department of the Moscow State University « M.V.Lomonosov » and worked in the group of academician Victor I. Spicyn with E. A. Torchenkova and Leonid P. Kazanskij. There he obtained his Ph.D. with a work on structures and spectroscopic properties of Heteropoly compounds of molybdenum and tungsten in 1980. The same year Michael Feist returned to the chemistry department of Humboldt University Berlin, where he spent his scientific life by teaching basics as well as special topics in inorganic chemistry until his retirement at the end of 2018.

The main activities in his scientific work were directed to investigations of the thermal behaviour of inorganic oxides, fluorides, fluorometalates, mainly of iron and aluminum, by applying coupled TA-MS techniques as well as spectroscopic methods such as ESR (with Reinhard Stößer), ESCA and others.

Particular attention was paid to cooperation with the Laboratoire de Chimie du Solide du CNRS, later Institut de Chimie de la Matière Condensée du CNRS, Bordeaux (France), where he spent a post doctorate in 1990 and further research visits. In 2006 and 2010 he was invited as a guest professor at the ICMCB, gave lectures and continued joint studies on fluorides with the fluorine group of Alain Trerssaud and later of Alain Demourgues.

Particular interest in all these mentioned activities was paid to the application of PulseTAÒ for studying sorption properties and solid state reactions of inorganic solids.

From 1998 to 2016 he was chairman of the German Association for Thermal Analysis, GEFTA and ICTAC Councilor since 1997.

Michael Feist is author or co-author of 87 publications and 32 conference presentations.

Wei-Ping Pan
Western Kentucky University, USA

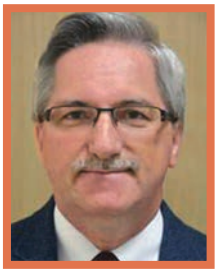
Thermal Analysis for Combustion Research: Data Interpretation and Challenges: Emission of Volatile Organic Compounds (VOCs) during Coal Combustion at Different Heating Rates

Dr. Wei-Ping Pan is the Professor of North China Electric Power University, and Emeritus Sumpter Professor of Chemistry at Western Kentucky University. Dr. Pan was Assistant to the President, and founder and first Director of the Institute Combustion Science and Environmental Technology (ICSET) at

Western Kentucky University. Dr. Pan was named the Sumpter Professor of Chemistry at Western in 1993. He is a member of the North American Thermal Analysis Society, in which he served as President in 2001. During his connection with the society, he was named a NATAS Fellow in 1997, received the Distinguished Service Award in 2004, and was selected by his peers for the Mettler Award (this award is the highest honor and recognition within the organization) in 2008. Dr. Pan has published more than 200 peer-reviewed papers in the last 30 years, with the majority related to coal combustion and emissions, and materials characterization. He has pioneered work in the area of clean coal technology, emission control, and thermal analysis involving effluent gas analysis and has used the TG/FTIR/MS technique extensively in the study of many different types of materials. Dr. Pan received the 2006 Distinguished College/University Scientist Superlative Award of the Kentucky Academy of Science. Dr. Pan has been the project director of more than 70 projects supported (more than $17,000,000 awarded) by external agencies, including USNSF, the U.S. DOD, the US DOE, NASA, US EPA, USDA, EPRI, Illinois Clean Coal Institute, and several private industries. He also serviced as President of the Overseas Chinese Environmental Engineers and Scientists Association in 2010.

Géza Regdon Jr.

Institute of Pharmaceutical Technology and Regulatory Affairs, University of Szeged, Hungary



Formulation, structural and thermal analysis of an innovative buccal mucoadhesive film drug delivery system from two different polymers

Géza Regdon jr. graduated as a Pharmacist (1982) and obtained the Ph.D. title in Pharmaceutical Technology from the Semmelweis Medical University (1996). He is currently associate professor at the University of Szeged. Among his various academic activities, he joined the Journal of Thermal Analysis and Calorimetry as an associate editor in 2016. He has been the Secretary of the Thermoanalytical Section of the Hungarian Chemical Society since 2006 and the President of the Section of Pharmaceutical Technology of the Hungarian Pharmaceutical Society since 2017. His research activity is mainly focused on the preparation and evaluation of film-coated dosage forms, free bioadhesive films and titanate nanotube-drug composites. He is a specialist on the thermoanalytical examination of active ingredients, auxiliary materials and free films (DSC, TG-MS) and on the theoretical and experimental study of the role of factors influencing film-forming with factorial design and determination of the optimal formulation condition. He has written a chapter in two English-language thermoanalytical books and a chapter on thermal analysis in a Hungarian book. He has more than 140 scientific publications with more than 580 independent and 840 all citations (cumulative impact factor = 126.374; h-index = 16)

Alexander Bannov

JTAC Young Scientist Award lecture

Thermal Analysis of Carbon Nanomaterials: Advantages and Problems of Interpretation

Dr. Alexander G. Bannov has got a Ph.D. in Chemical Engineering at the Mendeleyev University of Chemical Technology of Russia, Moscow (Russia) in 2012. He was working as a post-doc researcher at the CEITEC Masaryk University (Brno, Czech Republic) during 2014–2015. Currently, Dr. Alexander G. Bannov is an assistant professor at the Department of Chemistry and Chemical Engineering, Novosibirsk State Technical University.

The main research interests are synthesis and modification of carbon nanomaterials (carbon nanotubes, carbon nanotubes, graphite oxide, exfoliated graphite, graphene oxide and graphite nanoplatelets); thermal analysis of carbon materials and polymers; application of carbon nanomaterials (polymer composites, supercapacitors, gas sensors).

Dr. Alexander G. Bannov has published 29 papers in peer-reviewed journals during last 7 years with the majority related to synthesis and study of carbon nanomaterials and their applications. He has supervised more than 20 BSc and MSc student projects at the Novosibirsk State Technical University. He is a reviewer in Journal of Materials Science and Technology, Solid State Ionics, IEEE Sensors.

Invited Speakers

Time	Speaker	Country	Title
Wed, 09:50, June 19	Omid Mahian	Hungary	Application of Nanofluids in Renewable Energy
Wed, 09:50, June 19	Stefano Vecchio Ciprioti	Italy	Thermal analysis study of vaporization of ionic compounds. The case of tetramethylammonium iodide
Wed, 09:50, June 19	Katalin Mészáros-Szécsényi	Serbia-Hungary	Thermal Analysis of Coordination Compounds with Biological Activity
Wed, 09:50, June 19	Li-Xian Sun	China	Enhanced Hydrogen Storage by Doping Catalysts and Nanoconfinement and Thermal Analysis Study
Wed, 13:00, June 19	Mohanraj M. Murugesan	India	Thermodynamic performance of a direct expansion solar assisted heat pumps using packed bed evaporator-collector
Wed, 13:00, June 19	Joan Josep Sunol	Spain	Thermal analysis: magnetic materials
Wed, 13:00, June 19	Michelle Gonçalves Mothé	Brazil	Kinetic of thermal decomposition of light and heavy crude oils by thermal analysis
Wed, 13:00, June 19	Jaroslav Sestak	Czech Republic	Do we know what the temperature is: from Newton's cooling law to a wider understanding of thermal analysis
Thur, 09:50, June 20	Chi-Min Shu	Taiwan	Further investigation on calorimetric approach to appraise thermal explosion in propylene purification process
Thur, 09:50, June 20	Riko Ozao	Japan	Approaches for Better Thermal Analysis-Activities of the Standardization Working Group of JSCTA (Japan Society of Calorimetry and Thermal Analysis)
Thur, 09:50, June 20	Guy Van Assche	Belgium	Studying reversible reactions and chemorheological behaviour for the additive manufacturing of self-healing actuators
Thur, 09:50, June 20	Qiang Xu	China	Discuss of some flammability parameters derived from MCC Tests
Fri, 09:50, June 20	Irina Zvereva	Russian Federation	Thermal analysis of intercalation phenomena in promising photocatalysts
Fri, 09:50, June 20	Maria Zaharescu	Romania	Thermal behavior of gels obtained by microwave-assisted sol–gel method
Fri, 09:50, June 20	Dario Cavallo	Italy	Self-nucleation and heterogeneous nucleation of polypropylene micro-droplets in immiscible blends
Fri, 09:50, June 20	Martin Palou	Slovakia	Use of calorimetry and thermal analysis to assess the mutual influence of cement and scm during the hydration of composite cementitious binders

Guy Van Assche
Professor, Vrije Universiteit
Brussel, Belgium

Studying reversible reactions and chemorheological behaviour for the additive manufacturing of self-healing actuators

Prof. Dr. ir Guy Van Assche received his PhD from the Vrije Universiteit Brussel in 1998. After one-year stay at the Kyoto Institute of Technology, he continued as a postdoctoral researcher of the Research Foundation – Flanders, focusing on the development and application of advanced thermal analysis techniques, applied in the context of reactive polymers, polymer solutions, and nano-structured polymer systems, including nanocomposites, self-healing polymers, and photovoltaic blends. The main techniques of interest are modulated temperature DSC, rapid-scanning DSC for the analysis of small samples or thin films, AFM-based thermal analysis techniques, and the development of RheoDSC, a technique for simultaneous rheological and calorimetric analysis. The instrument and process development is supported by numerical modelling of heat transfer coupled with chemical reactions or crystallization using finite element analysis. Having been part-time lecturer at the Vrije Universiteit Brussel since 2001, he became full-time lecturer in 2011 and is teaching courses in thermodynamics, chemical kinetics, advanced thermal analysis, and nanostructured materials.

Dario Cavallo
University of Genoa, Italy

Self-nucleation and heterogeneous nucleation of polypropylene micro-droplets in immiscible blends

Dario Cavallo graduated in Industrial Chemistry and achieved the Ph.D. title in Chemical Sciences from the University of Genova. After two periods as post-doc researcher at the Institute of Polymer Science and Technology in Madrid, and at the Eindhoven University of Technology, he is currently Professor at the University of Genova. Among the various academic activities he is member of the "Editorial Advisory Board" of Polymer Crystallization (Wiley), and of the "International Advisory Board" of the Chinese Journal of Polymer Science (Springer). His research activity is mainly focused on structuring processes of semicrystalline polymers. Particular attention is paid to the correlation between molecular features and crystallization behavior, and to various aspects of nucleation. He co-authored around 60 peer-reviewed publications with more than 860 citations (h-index = 19).

Stefano Vecchio Ciprioti
Associate Editor of JTAC
Department of Basic and Applied Science for Engineering
Sapienza University of Rome, Italy

Thermal analysis study of vaporization of ionic compounds. The case of tetramethylammonium iodide

Graduated in Chemistry with honor in 1991 he received his Ph.D. degree in Chemical Science in 1995. Assistant professor since December 1996, he nowadays belongs to the Department of Basic and Applied Science for Engineering of Sapienza University of Rome as Associate Professor (2018). He is author of more than 100 papers published in international peer-reviewed journals and more than 100 contributions to national and international congresses devoted to the development of thermal analysis in the fields of material science, environment, pharmaceutical, food and cultural heritage (being them the most important ones) with particular reference to kinetic and thermodynamic study of chemical and phase change processes. His papers provided over 1300 citations, Hirsch index=21 (source Scopus, November 2018). In June 2012, he was Chairman del XXXIV National Congress on Calorimetry, Thermal Analysis and Applied Thermodynamics, and will be (August 2019) co-chair of the 5th Central and Eastern European and 14th Mediterranean Joint Conference on Calorimetry and Thermal Analysis. He is Associate Editor of the Journal of Thermal Analysis and Calorimetry (Springer) and member of the Editorial Board of Thermochimica Acta (Elsevier), and Guest Editor of three Special Issues: two from the Journal of Thermal Analysis and Calorimetry (in 2011 and 2013) and one from Thermochimica Acta (in 2015), author of two chapters in books of international relevance (published by CRC Press in 2015 and by Springer (in 2018), and his name was added in "Who is Who in Thermal Analysis and Calorimetry 2014" (Springer International Publishing), which is up-to-date list of the prominent members in this Community of Thermal Analysis and Calorimetry.

Omid Mahian
Associate Editor of JTAC
Center for Advanced Technologies, Ferdowsi University of Mashhad, Mashhad, Iran
Full Professor, Xi'an Jiaotong University

Application of Nanofluids in Renewable Energy

Dr. Omid Mahian has received his Ph.D. in Mechanical Engineering (Energy Conversion). He is a researcher in the field of heat transfer and fluid mechanics, nanofluids, and renewable energy. He has been selected as a highly cited researcher in 2018. He has more than 100 articles in archival journals such as Nano Energy with impact factor of 13.1. Dr. Mahian has served for more than 100 international journals as an editor or a reviewer. He joined to Journal of Thermal Analysis and Calorimetry as an associate editor in 2017.

Mohanraj M. Murugesan
Department of Mechanical Engineering
Hindusthan College of Engineering and Technology, Coimbatore, India

Thermodynamic performance of a direct expansion solar assisted heat pumps using packed bed evaporator-collector

Dr. M. Mohanraj has completed B.E. (Mechanical Engineering) from University of Madras, Chennai-India during the year 1999, M.E. (Refrigeration and Air Conditioning) from Bharathiar University Coimbatore-India during the year 2001 and Ph.D. from National Institute of Technology Calicut-India during the year 2009. Presently, he is working as a Professor in Mechanical Engineering at Hindusthan College of Engineering and Technology, Coimbatore India. He has published 50 research papers in reputed International Journals in the field of Solar heat pumps, Solar photovoltaic water pumps, Solar air heaters, Solar dryers, Heat pump assisted desalination, Automobile air conditioners, Alternative working fluids for compression based Refrigeration, Air conditioning and Heat pump systems, Energy Conservation in manufacturing industries, Engineering Materials etc. He has supervised more than 30 under graduate projects in the field of Renewable Energy and supervised five research scholars in the field of Renewable Energy and also in Refrigeration and Air conditioning. He is a reviewer for more than four International Journals published by Elsevier, Springer, Taylor and Francis etc. He has visited Al Farabi Kazakh National University, Almaty, Republic of Kazakhstan as a visiting faculty. He is associated with Al-Farabi Kazakh National University, Almaty for a collaborative research project on Solar assisted two stage cascade heat pump for space heating applications. Moreover, he is collaborated with Al Farabi Kazakh National University in various Research and Development activities in the field of Solar Assisted heat pumps. Presently, he is a Co-Principal Investigator for the project titled "Development, testing and standardization of solar photovoltaic heat pump water heater", which is a collaborative research work with National Institute of Technology, Calicut.

Michelle Gonçalves Mothé
Federal University of Rio de Janeiro, Brazil

Kinetic of thermal decomposition of light and heavy crude oils by thermal analysis

Chemical Engineer from UFRJ/Brazil (2007). M.Sc. from EQ/UFRJ (2009) and PhD in Sciences from UFRJ / Institut National Polytechnique de Grenoble – France (2012). Chercheur of the Laboratoire de Rheologie in the Institut National Polytechnique de Grenoble – France (2010). Adjunct Professor of the School of Chemistry of the Federal University of Rio de Janeiro (RJ/Brazil) since 2014. Substitute Coordinator of the Rheology Laboratory, Thermal Analysis Laboratory at UFRJ/Brazil. More than 95 papers published in journals and national and international conferences. Advisor of Master Dissertation and undergraduate students. 2nd Place for the „Valorpneu Innovation

Award"/Portugal (2015). 2nd Place for the Student Poster Competition at 16th International Confederation for Thermal Analysis and Calorimetry Congress/ USA (2016). Ad-hoc reviewer for the JTAC. Member of the NATAS/USA. Vice-President of the Brazilian Association of Rheology.

Riko Ozao
Waseda University, Japan

Approaches for Better Thermal Analysis-Activities of the Standardization Working Group of JSCTA (Japan Society of Calorimetry and Thermal Analysis)

Riko Ozao is a professor of Sony Institute of Higher Education (Shohoku College) (1992–), and she directs Liberal Arts Center of the College. She studied Material Science and Engineering (BSc/MSc.) at Waseda University in Tokyo, Japan, and received her Ph.D. from the same University in 1986. She has been teaching Chemistry, Chemical Thermodynamics, and Crystal Chemistry in Waseda University. She has also been teaching Programming and Information Science in Meiji University since 1995.

Her academic activities in the field of thermal analysis are: ICTAC: Membership secretary (2005–16), Chair of Scientific Awards Committee (2016–), Affiliate Councillor of Japan(2004–06). JSCTA (Japan Society of Calorimetry and Thermal Analysis): Board of Organization Committee (treasurer): (1995–99), Chair of Website WG (1999–2004), Chair of Standardization Working Group (2004–06). NATAS: Received Fellow Award on 2012, and organized sessions for 5 times. MRS-J (The Materials Research Society of Japan): Executive Committee Member (2005–16). Organized Sessions in International Conerences. Journal of Thermal Analysis and Calorimetry: Regional Editor (2016–18), Associate Editor (2018–).

Martin Palou
Professor, Slovak University of Technology, Bratislava

Use of calorimetry and thermal analysis to assess the mutual influence of cement and scm during the hydration of composite cementitious binders

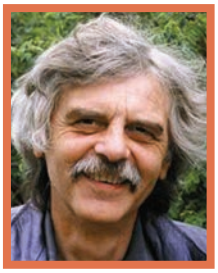
Prof. Dr. Martin Palou is a Full University Professor at Slovak University of Technology in Bratislava where he received a diploma in Engineering of Inorganic Materials and Technology, and later a PhD. He is a specialist in chemistry education and in research of silicate materials. His research activities cover principally the area of special inorganic binders based on Low-energy and Low-carbon cements, special concrete for geothermal wells, irradiated concrete, development of multicomponent cements, geopolymers, inorganic biomaterials, glass and advanced ceramics. He is deeply interested in use of thermal and calorimetric methods, particularly for the study of kinetics and

mechanism of heterogeneous processes of glass crystallization and cement hydration. He is presently the Deputy Director and Head of the Department of Materials and Structures at the Institute of Construction and Architecture from the Slovak Academy of Sciences. He was a member of the Technical Committee of the European Committee for Standardization for cement and building lime, where he worked on the harmonization of European standards for cement. He is Chairman of the National Technical Committee for Standardization of cement and building lime, member of RILEM TC AMC "Use of Agro-based materials as cementitious additions in concrete and cement-based materials" and Chairman of the Commission for Civil Engineering and environmental engineering, including mining, metallurgy and water management sciences of the Scientific Grant Agency from the Ministry of Education. He is also member of the Editorial Board as Associate Editor of Journal of Thermal Analysis and Calorimetry, Ceramics-Silikaty etc.Prof. Martin Palou is author of more than 200 peer-reviewed and edited publications of original results in impacted journals, in proceedings of scientific and technical conferences. His works were cited more than 450 times (without self-citation WOS source) and 100 times out of SCI. He is also a reviewer of many international journals, national and international projects. He was awarded in 2010 by Industrial Property Office of the Slovak Republic (ÚVPV SR) by receiving the prize "Jána Bahýľa" for his Patent 286,943 – Method of production of Portland cement clinker using crystalline blast furnace slag.

Jaroslav Sesták

Professor

New Technology – Research Centre in the Westbohemian Region, West Bohemian University, Czech Republic



Do we know what the temperature is: from Newton's cooling law to a wider understanding of thermal analysis

Prof. Ing. Jaroslav Šesták, DrSc, dr.h.c., (*1938, Držkov) is an honorary citizen of Prague 5, an emeritus researcher at the Czech Academy of Sciences and a professor at the Center for New Technologies, West Bohemian University in Pilsen. He holds the highest honors of the Czech Academy of Sciences (Heyrov Medal 2000) and of the Czech Chemical Society (Hanuš Medal 1998) as well as international awards such as Kurnakov Medal (USSR 1985 and Russia 2015), Bodenheimer Medal (Israel 1987), Patras Medal (Greece 2007) or the Netzsch Awards (Germany 2014). Recently he received supreme state honor by the President of the Czech Republic for his lifetime work. He became the guarantor of a number of institutions such as the School of Energy Science of Kyoto University in Japan, the Faculty of Humanities at the Charles University in Prague and the Czech Department of the University of New York in Prague, where he lectured for twenty years on an interdisciplinary subject "On the Crossroads of Science and Philosophy of Nature". He is a founding member of the journals Thermochimica Acta (Elsevier, 1969), J. Mining and Metallurgy (Bor, 1996) and Int. J. Applied Glass Research (Wiley, 2009). He wrote to three hundred expert papers, delivered hundreds of professional and popularizing lectures and in 2000 he was among the 20 most cited Czech physicists (thermodynamics). He has been involved in the emergence of new scientific disciplines such as kinetic phase diagrams, glass-forming theory, economical thermodynamics, or non-isothermal kinetics, where his Sestak-Berggren equation is cited more than a

thousand times. He is the author and editor of fifteen books, which he often edited graphically, supplemented by photographs, and where he also designed their covers. His triptych on thermal physics published by Springer in the series "Hot topics of thermal analysis" was ranked between the Springer best twenty books. He also became the author of twenty exhibitions of art and reportage photography.

Chi-Min Shu
Distinguished Professor/Director
National Yunlin University of Science and Technology (YUNTECH), Taiwan

Thermal stability analysis of benzotriazole as an additive in lithium-ion batteries

Dr. Shu was born on November 25th, 1958. He has served as Distinguished Chair Professor and Academic Vice President of National Yunlin University of Science and Technology in Taiwan. He was the first Taiwanese professor to receive the North American Thermal Analysis Society (NATAS) Fellow Award (2011) for his technical service and professional contributions as a recognition of this important contribution. Furthermore, he was the first Taiwanese professor to be elected as an American Institute of Chemical Engineers (AIChE) Fellow in 2016 for technical service and professional contributions, followed by the NATAS Mettler Toledo Award, which is the highest honor in Thermal Analysis internationally for the year 2017. He was the 4th ethnic Chinese recipient in 50 years. In 2018, he obtained the two Fellows from the Royal Society of Chemistry (RSC) and The Institution of Engineering and Technology (IET). In current, he was the second Taiwanese professor who can obtain RSC and AIChE Fellows. Dr. Shu also served as an editorial board member for various reputed science journals, such as PSP (Process Safety Progress, SCI), JSR (Journal of Safety Research, SSCI) and JLPPI (Journal of Loss Prevention in the Process Industries, SCI). Further, he is the associate editor for JTAC (Journal of Thermal Analysis and Calorimetry, SCI) during 2009–2010 and 2018–2020. His service and stellar performance towards the sustainable development in process industries brought in many accolades and awards, such as the Outstanding Research Award in 2007, 2010, 2017, and the Outstanding Academic-Industrial Collaboration Award in 2014; winning both the awards is unique in the history of YunTech as a top 1% performer among 360 faculty members since its establishment. From 2011, he is among the first five Distinguished Professors of YunTech and in 2016 was promoted as Distinguished Chair Professor, the only one at YunTech then. With 248 SCI publications in 18 years, he has spear-headed numerous disaster management programs and monitored crisis management events through chemical engineering across the Asian continent.

Li-Xian Sun
Guilin University of Electronic Technology
Guangxi Key Laboratory of Information Materials, China

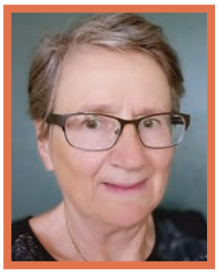
Enhanced Hydrogen Storage by Doping Catalysts and Nanoconfinement and Thermal Analysis Study

Dr. Li-Xian Sun is the Professor (the Dean) of Materials Science and Engineering, Guilin University of Electronic Technology (GUET). Dr. Sun is the Head of Guangxi Collaborative Innovation Center, head of Guangxi Key Laboratory of Information Materials. He was the candidates for the "100 talents Scheme" of the Chinese Academy of Sciences, the Alexander von Humboldt Fellow, Fellow of Royal Society of Chemistry, the first batch of Guangxi Banggui Scholars. In recent years, he has chaired 863 Programs, 973 sub-projects of the National Science and Technology Ministry, Key projects of the National Natural Science Foundation of China, International Cooperation Project of the International Union of Pure and Applied Chemistry (IUPAC), Main Direction Program of Knowledge Innovation Engineering of Chinese Academy of Sciences, Guangxi Innovation and Entrepreneurship Project, Guangxi Key Laboratory Project, Guangxi Collaborative Innovation Center Project, Guangxi Engineering Technology Center Project, Guangxi Talent Small Highland Project, etc. So far, he has published more than 440 SCI papers and H-index of 45, held 25 authorized patents. In the last five years, He has published many papers in important academic journals such as Energy & Environmental Science, Journal of Materials Chemistry A, Biosensors & Bioelectronics, Crystal Growth & Design, Journal of Physical Chemistry C, Dalton Transactions, International Journal of Hydrogen Energy, etc. He was identified as an Elsevier China Highly Cited Scholar in each of the years 2014 to 2018, and has won 7 provincial and ministerial achievement awards. During his tenure, he organized 12 international and domestic academic conferences, some of which served as chairman or co-chair of the Organizing Committee.

Joan Josep Suñol
Professor, Department of Physics
Universitat de Girona, Spain

Thermal analysis: magnetic materials

J.J. Suñol Martínez received the Physics degree in 1990 and the Ph.D. also in Physics in 1996 at the Universitat Autònoma de Barcelona. The postdoctoral stage was performed during 1998 at INRS-Énergie et Matériaux (Varennes, Quebec). He is Professor in Applied Physics at the Department of Physics of the University of Girona (Catalonia, Spain). He has been the Head of the Physics department of the University of Girona (2007–2010). He's coordinator of the Materials and Thermodynamics Research group of the University of Girona and from 2015 he's the president of the Spanish group on Thermal Analysis and Calorimetry (GECAT). He is author of 200+ indexed publications (web of science), and more than 300 works presented at scientific conferences. The research is linked to new materials for energy applications, including Fe based nanocrystalline and amorphous alloys for soft magnetic applications, alloys with magnetic shape memory for magnetic refrigeration and alloys for hydrogen storage.



Katalin Mészáros Szécsényi
Full Professor
University of Novi Sad, FTN · Department of Chemistry, Biochemistry and Environmental Protection
Serbia – Hungary

Thermal Analysis of Coordination Compounds with Biological Activity

Katalin Mészáros Szécsényi, University of Novi Sad, Faculty of Sciences (PMF), Department for Chemistry, Biochemistry and Environment, full professor from 2003.

Visiting researcher: Helsinki University of Technology, Department of Chemical Technology, 2000. From 1992 Budapest University of Technology and Economy, Faculty of Chemical Technology and Biotechnology almost every year.

Visiting professor at the Budapest University of Technology and Economy, Faculty of Chemical Technology and Biotechnology (2003), Prince of Songkla University, Hatyai, Faculty of Science (2008), AGH University of Science and Technology, Faculty of Materials Science and Ceramics, Krakow, 2009, 2011–2014 (CEEPUS II/CEEPUS III), University of Pardubice, Faculty of Chemical Technology, Pardubice, 2010 (CEEPUS II) Institute of Macromolecular Chemistry, Prague, 2010.

Membership in professional societies: Serbian Chemical Society, Chemical Society of Vojvodina, Public Board of the Hungarian Academy of Sciences, Working Committee on Thermoanalytical Section of the Hungarian Academy of Sciences, Hungarian Natural Science Society.

Project manager of the Ministry of Education, Science and Technological Development of the Republic of Serbia (Projects No. ON172014) "Design, synthesis, characterization and assessment of practical applications of coordination and organometallic compounds" (No. 172014) from 2011.

Associate editor of the Journal of Thermal Analysis and Calorimetry.

Coauthor of about 90 scientific publications, cited about 800 times, h-index 13.

Qiang Xu
Nanjing University of Science and Technology
Nanjing, China

Discuss of some flammability parameters derived from MCC Tests

Full Professor in School of Mechanical Engineering, Nanjing University of Science and Technology, China. Research interest includes characterization of flammability, ignition and flame spread, measurement and test methods for fire safety research.

Maria Zaharescu
Institute of Physical Chemistry of the Romanian Academy
Bucharest, Romania

Thermal behavior of gels obtained by microwave-assisted sol–gel method

Dr. Maria Zaharescu is a member of the Romanian Academy, senior researcher in the Oxide Compounds and Materials Science Department at the "Ilie Murgulescu" Institute of Physical Chemistry of the Romanian Academy, Bucharest, Romania. Her main research area is physical chemistry of oxides systems (reaction mechanisms, thermal phase equilibria, structure-properties correlations) and sol–gel science, research field that she started in Romania. The results of her research activity were published in more than 290 scientific papers in internationally recognized ISI journals, 3 patents, 2 books and 9 book chapters edited by the Romanian Academy and international publishers (Wiley, Elsevier, Springer). She was responsible for the Romanian part in several international projects funded by the National Science Foundation (USA), EU projects (FP5, FP6 projects, COST Actions), inter-governmental cooperation (with France, Greece, Slovenia, India) and inter-academic ones

Irina Zvereva
Saint-Petersburg State University
Russia

Thermal analysis of intercalation phenomena in promising photocatalysts

Irina Zvereva is a Professor of the Department of Chemical Thermodynamics and Kinetics, Institute of Chemistry, Saint-Petersburg State University, Russia.

Head of the Center for Thermal Analysis and Calorimetry in Saint-Petersburg State University.

Main research interest – application of thermal analysis to wide range of materials and processes, mechanism and kinetics of solid state reactions, phase transitions. Last years as most important materials are perovskite type oxides for photocatalysis and catalysis. Leader of 14 scientific projects supported by Russian and international funds.

Author of more than 130 papers published in peer-reviewed journals and more than 120 contributions to national and international conferences including invited and plenary lectures. Invited lectures in universities of France, Finland, Germany, Netherlands.

Member of Editorial Boards of Journal of Thermal Analysis and Calorimetry and Glass Physics and Chemistry.

Member of Organizing or Scientific Committees more than 15 conferences in area of Thermal Analysis, Thermodynamics and Materials.

Information for Presenters

Oral Presentations

Only PowerPoint presentations (ppt) are accepted with slide aspect ratio of 16:9.

Please be aware, that the default slide size in PowerPoint 2013 and PowerPoint 2016 is widescreen (a 16:9 aspect ratio). However, you can resize your slides to 4:3.

Please **bring your USB memory stick with your presentation** on it, and upload your presentation to the computer in the Slide Check Desk preferably either in the morning if your talk is in the afternoon or the day before in case of a morning presentation, but **at least during the break before your session**.

You are kindly asked to control the moving of your slides back and forth.

- All lecture rooms are equipped with a microphone, a projector, a screen, a remote control and a laptop with PowerPoint.
- Only single projection will be available in the lecture rooms.
- There will be a technician in each lecture room for assistance if needed.
- If you wish to show web pages, instead of live links to the Internet, please, use screen shots within your PowerPoint presentation.
- **Invited speakers** have been allocated **30 minutes** for their presentations including discussion.
- **Oral presentation speakers** have been allocated **20 minutes** for their presentations including discussion.

The schedule is tight, therefore time discipline is compulsory.

The Slide Check Room with laptop and technical assistance is provided in front of the main lecture room, Helia Conference Room.

Opening hours:

Tuesday, June 18	14:00–17:00
Wednesday–Friday, June 19–21	08:00–17:00

Digital Poster Presentations

Poster Presentation Schedule

Tuesday, June 18	18:30–19:30
Wednesday, June 19	14:30–16:00
Thursday, June 20	14:30–16:00
Friday, June 21	14:30–16:00

As the venue has limited space and we received large number of poster presentations this year as well, the organizing committee decided to redesign the poster session to take another step towards the future.

Our aim was to make it more flexible, smooth, utilizing the maximum available space with no additional cost for the participants to the benefit of both the poster presenter and audience. Due to the reasons mentioned above, this year we organize digital poster sessions where posters will be shown on digital screens disposed in portrait orientation.

What does it mean to you?

- YES, you do not have to print and bring physical paper or fabric posters
- YES, you only need to send it to ***poster@hotelavs.hu***
- YES, our team will take care of the upload to the smart TVs
- NO additional costs for you

We will use several screens, so about 20 posters will be shown at the same time (similarly during a traditional poster session).

To make sure every poster can be presented and the participants can find posters of their interest, we will schedule the poster presentations based on the same organizing principle as the oral presentations.

Each poster will have a dedicated time and place to be presented by the author. We will organize 8 mini sections. During one section 20 poster will be shown parallelly. The sections are 30 minutes long – the presenter of the poster has 30 minutes to stand next to her / his poster during the section and introduce the work (i.e. 15–20 presenter at the same time).

To give more opportunity to discuss the posters the screens in Helia Gallery will be available for browsing freely all the time during the conference, so if you would like to ask a question later about the poster (after the poster session for instance), you can contact the presenter at any time, and you can occupy a screen in these rooms to show the poster and discuss your thoughts.

We recommend to bring some A4 copy of your poster what you can give to your audience, but this is not necessary – just a good opportunity to keep in touch.

Similarities:

- The posters will be shown on poster stands
- Many poster will be shown at the same time
- All the other participants will be gathering around to look over the posters
- You can use the same software to produce your poster, please export it into **PDF (300 dpi)**

Differencies:

- Each poster has 30 minutes dedicated
- Digital screens will be used instead of traditional poster stands and printed posters
- You do not need to print your poster in A0 format, you can save some money
- Overall more attention is given to a poster

Please prepare your poster as you would send it to the press, **300 dpi resolution and portrait orientation is requested.**

2nd Journal of Thermal Analysis and Calorimetry Conference and 7th V4 (Joint Czech-Hungarian-Polish-Slovakian) Thermoanalytical Conference ■ JTACC+V4 2019

JUNE 18–21, 2019 ■ BUDAPEST, HUNGARY ■ DANUBIUS HOTEL HELIA

Final Program

TUESDAY, JUNE 18	
14:00–16:00	Registration / Danubius Hotel Helia Lobby
	HELIA
16:00–16:35	Welcome Remarks
16:35–17:00	JTACC Award Ceremony – Travel Grants & Best Reviewer Award & Young Scientist Award
17:00–17:40	**Alexander Bannov** / *JTAC Young Scientist Award lecture:* Thermal Analysis of Carbon Nanomaterials: Advantages and Problems of Interpretation
17:40–17:45	Scietific Excellence Award Ceremony
17:45–18:25	**Barbara Pacewska** / *JTAC Scientific Excellence Award lecture* Utilization of aluminosilicate by-products in binding mixtures – benefits and limitations
	HELIA GALLERY
18:30–20:00	**Welcome Reception & Poster Session 1**

WEDNESDAY, JUNE 19	
08:00–08:30	Registration / Danubius Hotel Helia Lobby
	HELIA
	Session Chair: Peter Simon
08:30–09:10	**Plenary / Michael Feist:** PulseTA, a promising extension of coupled TA devices and its contribution to the chemistry of fluorides
09:10–09:30	Gold Sponsor Lecture / Angela Hammer, Mettler Toledo
09:30–09:50	**Coffee Break**

	WEDNESDAY, JUNE 19			
	ORION	HELIA	MERCURE	PANORAMA
	Nanofluid, Heat transfer, Energy conversion, Exergy I.	Materials science, Geosciences I.	Pharmaceuticals, Fuel, Biofuels, Cultural Heritage I.	Energetic materials I.
	Session Chair: Chi-Min Shu	Session Chair: Tiit Kaljuvee	Session Chair: Egon Schnitzler	Session Chair: Susan V. Meschel
09:50–10:20	**Invited Speaker /** **Omid Mahian:** Application of Nanofluids in Renewable Energy	**Invited Speaker /** **Stefano Vecchio Ciprioti:** Thermal analysis study of vaporization of ionic compounds. The case of tetramethyl-ammonium iodide	**Invited Speaker /** **Katalin Mészáros-Szécsényi:** Thermal Analysis of Coordination Compounds with Biological Activity	**Invited Speaker /** **Lixian Sun:** Enhanced Hydrogen Storage by Doping Catalysts and Nanoconfinement and Thermal Analysis Study
10:20–10:40	**Vincent O. Odhiambo** / Hungary Nanofluid, Heat transfer Energy conversion, Exergy I. – 10:20 AM, Wed, June 19, Orion Room Nanomaterials and composites / ID 1033 / Thermal properties of TiO2 nanofibers synthesized by electrospinning using water soluble Ti-precursor	**Elena V. Boldyreva** / RUSSIA: JTAC and its role in my scientific career	**Eder T.G. Cavalheiro** / BRAZIL: Thermal behavior of anti-inflamatory drug naproxen	**Michael L. Hobbs** / USA: Estimating RDX Solubility in TNT at the Melting Point of RDX (198–204 °C)
10:40–11:00	**Patrice Estelle** / FRANCE: Nanouptake: The European network for nanofluids development related to industrial applications	**Thomas Dippong** / ROMANIA: Thermal behavior of Ni-Zn ferrite nanoparticles embedded in silica and PVA matrix	**Agnieszka Dolega** / POLAND: Physical stability evaluation of carbamazepine	**Izabela Majchrzak-Kucęba** / POLAND: The potential of biocarbon as CO_2 adsorbent in VPSA unit
11:00–11:20	**Yaru Li** / CHINA: Reactivity of fluororubber modified aluminum in terms of heat transfer effect	**Takuya Hashimoto** / JAPAN: Evaluation of Stability of Pr2-xNdx-NiO4+δ by Thermogravimetry under various oxygen partial pressures	**Krisztina László** / HUNGARY: Drug-matrix interactions in probe molecule loaded resopnsive hydrogels and implications for drug delivery	**Tao Yan** / CHINA: Energetic Performance and Reaction Mechanism of Nano-Aluminium Based Microspheres
11:20–11:40	**Dong Ho Shin** / SOUTH KOREA: A study on the control of thermal performance using bimetal fin channel in heat exchanger	**Ekaterina S. Okhotnikova** / RUSSIA: The study of bitumen's microstructure by modulated differential scanning calorimetry	**Bernard Legendre** / FRANCE: Study of the polymorphism of florfenicol by DSC and Calorimetry	**YiKai Wang** / CHINA: Study of the ratio of fuel to oxidant on the kinetic of ignition reaction of MT and MTV pyrotechnics by non-isothermal TG DSC technique
11:40–12:00	**Fouzia Achchaq** / FRANCE: In-situ real-time preliminary study of carbon felt fibres interaction with libr, lioh and Li4Br(OH)3 at microscale	**Berta Bartha-Holló** / SERBIA: The role of oxoanions in the thermal decomposition of $[Agpy_4]XO_4$.4$[Agpy_2XO_4]$ (X=Mn, Cl)double salt complexes having tetrahedral $Agpy_4$ cation and three-coordinated $((k^1N\text{-}py)_2Ag\text{-}k^1\text{-}OXO_3$ units	**Zoltán Sebestyén** / HUNGARY: Characterization of historical leathers by thermal methods	**Ekkehard Füglein** / GERMANY: Decomposition of Hydrogen Peroxide Investigated With Different Calorimetric Techniques
12:00–13:00	**Buffet Lunch // Jupiter Restaurant, Ground Floor, Danubius Hotel Helia**			

	WEDNESDAY, JUNE 19			
	ORION	HELIA	MERCURE	PANORAMA
	Nanofluid, Heat transfer, Energy conversion, Exergy II.	Materials science, Geosciences II.	Pharmaceuticals, Fuel, Biofuels, Cultural Heritage II.	Theory,Thermochemisrty, Thermal Hazard, Calorimetry I.
	Session Chair: Patrice Estellé	Session Chair: Romana Cerc Korošec	Session Chair: Dénes Lőrinczy	Session Chair: Juan Carlos Moreno-Piraján
13:00–13:10 13:10–13:30	**Invited Speaker / Mohanraj Murugesan:** Thermodynamic performance of a direct expansion solar assisted heat pumps using packed bed evaporator-collector	**Invited Speaker / Joan Josep Sunol:** Thermal analysis: magnetic materials	**Invited Speaker / Michelle Goncalves Mothé:** Kinetic of thermal decomposition of light and heavy crude oils by thermal analysis	**Invited Speaker / Jaroslav Sestak:** Do we know what the temperature is: from Newton's cooling law to a wider understanding of thermal analysis
13:30–13:50	**Marie Duquesne** / FRANCE: Discharge of undercooled xylitol-erythritol eutectic blend for seasonal energy storage	**Natalia Resnina** / RUSSIA: Isothermal martensitic transformations in NiTi-based shape memory alloys: kinetics and strain behaviour	**Mohamad Hmadeh** / LEBANON: Metal-Organic Framework Catalysts for Efficient Liquid Biofuel Production	**Valeri Drebushchak** / RUSSIA: Simple and accurate analytical equation for the thermal expansion of solids
13:50–14:10	**Liang Jiang** / CHINA: Self-luminous polyethylene glycol based phase change materials for both thermal and light energy storage	**Katarzyna Silarska** / POLAND: Influence of crystalline and amorphous phosphate phases on electrical properties and chemical stability of BaCe0.9Y0.1O3-δ protonic conductors	**Natasa Celan Korosin** / SLOVENIA: The influence of pyrolytic conditions on physico-chemical properties of animal bone char	**Sajal Ghosh** / INDIA: Investigations of phase equilibria in LiCl-GdCl3 binary and LiCl-KCl-GdCl3 ternary systems by DTA and XRD
14:10–14:30	**Alibakhsh Kasaeian** / IRAN: Investigating the heat transfer of organic phase change materials enhanced with nanoparticles	**Keisuke Watanabe** / JAPAN: Thermal and spectroscopic study to investigate the effect of the thermal history on the phase behavior of the ionic liquid (C4mim)PF6	**Ekaterina Kasianenko** / RUSSIA: Thermal expansion of rib cartilage implants under Peltier cooling and laser heating	**Igor Sedov** / RUSSIA: Nanostructure and solvation properties of several protic ionic liquids
14:30–16:00	Coffee Break and Poster Session 2 / Helia Gallery			
	ORION	HELIA	MERCURE	PANORAMA
	Nanofluid, Heat transfer, Energy, Exergy III.	Polymers, Pyrolysis. Kinetics I.	Pharmaceuticals, Fuel, Biofuels, Cultural Heritage III.	Theory,Thermochemistry, Thermal Hazard, Calorimetry II.
	Session Chair: Yoncho Pelovski	Session Chair: Petru Budrugeac	Session Chair: Anna Michnik	Session Chair: Lixian Sun
16:00–16:20	**Pawel Pasierb** / POLAND: Influence of Temperature on Properties of Selected Materials for Energy Storage and Conversion Applications	**Lisandra Abatti** / BRAZIL: Thermal Properties of Rubber Compositions with Pecan Nutshell and Compatibilizing Agent to Retread Tires	**Egon Schnitzler** / BRAZIL: Thermal, structural and morphological characterisation of organic rice starch after physical treatment	**Tibor Dubaj** / SLOVAKIA: Isoconversional methods and kinetic parameters: A tool or a goal?

16:20–16:40	**Cedric Le Bot** / FRANCE: Numerical simulation of heat discharge during solidification	**Fabio Faraguna** / CROATIA: Low temperature behaviour of methacrylate based pour point depressants	**Dénes Lőrinczy** /HUNGARY: Thermal analysis of synovial fluids in different stages/infections of osteoarthritis	**Petr Fiurasek** / CANADA: McGill Chemistry Characterization (MC2) facility
16:40–17:00	**Ligia Moga** / ROMANIA: Thermal characterisation of building components having PCM layers	**Yucheng He** / CHINA: Flash DSC study on the Low-temperature crystal nucleation in the BLENDS OF poly(lactic acids)	**Ranjit K. Verma** / INDIA: Thermal analysis in studies of ball milled turmeric and thermooxidation of mustard oil	**Sarah Kate Markham** / IRELAND: Polarisation changes during infrared thermography using silver halide poly-crystalline infrared fiber bundle
17:00–17:20	**Anantha K. Kempannagari** / INDIA: Effect of radiation on MHD time-dependent Casson fluid flow past an exponentially stretching curved sheet	**Wenbing Hu** / CHINA: Flash DSC Study on Polymer Crystallization Kinetics	**Weibiao Zhou** / SINGAPORE: Maltodextrin stability: impacts of salt addition, molecular weight and molecular weight distribution on thermal characteristics	**Charlie O'Mahony** / IRELAND: Computed thermal tomography and 3d ir thermography of buried defects: multiphysics modelling and experimental validation
17:20–17:40	**Jarett Nickerson** / CANADA: Thermal conductivity characterization of enhanced materials: method selection and comparison	**Kaneez F. Hussain** / KUWAIT: Multistep Thermal Degradation Kinetics: Pyrolysis of CaSO4-Complex Obtained by Antiscaling Effect of Maleic-Anhydride Polymer	**Andrea Ferencz** / HUNGARY: Blood plasma survey signals after surgery	**PJ Rodríguez de Rivera** / SPAIN: Human body thermal conductance determination using a calorimetric sensor with linear programming of thermostat temperature
17:40–18:00		**Bo Liu** / CHINA: Thermal Properties of Ethylene-vinyl Acetate Copolymer with Coal Ash and Layered Double Hydroxide Composite AS Flame Retardants	**Titus Vlase** / ROMANIA: TG-DTA and FT-IR analyses of various samples of mortars from Deva region	**Chiara Confalonieri** / ITALY: Microstructural and thermal response evolution of metallic form-stable Phase Change Materials produced from ball-milled powders
18:00–18:10				
18:10–19:00		JTAC Forum		

THURSDAY, JUNE 20	
8:00–08:30	Registration / Danubius Hotel Helia Lobby
	HELIA
	Session Chair: Janusz Pielichowski
08:30–09:10	**Plenary / Wei-Ping Pan:** Thermal Analysis for Combustion Research: Data Interpretation and Challenges: Emission of Volatile Organic Compounds (VOCs) during Coal Combustion at Different Heating Rates
09:10–09:30	Silver Sponsor Lecture / Daniel Roedolf, TA Instruments: Solid-solid phase transition or melting peak: dsc with microscope accessory will let you know
09:30–09:50	**Coffee Break**

THURSDAY, JUNE 20				
	ORION	**HELIA**	**MERCURE**	**PANORAMA**
	Nanofluid, Heat transfer, Energy conversion, Exergy IV.	**Materials science, Geosciences III.**	**Polymers, Pyrolysis, Kinetics II.**	**Theory,Thermochemistry, Thermal Hazard, Calorimetry III.**
	Session Chair: Paweł Pasierb	**Session Chair: Elena V. Boldyreva**	**Session Chair: Eder T.G. Cavalheiro**	**Session Chair: Valeri Drebushchak**
09:50–10:20	**Invited Speaker / Chi-Min Shu:** Further investigation on calorimetric approach to appraise thermal explosion in propylene purification process.	**Invited Speaker / Riko Ozao:** Approaches for Better Thermal Analysis-Activities of the Standardization Working Group of JSCTA (Japan Society of Calorimetry and Thermal Analysis)	**Invited Speaker / Guy Van Assche:** Studying reversible reactions and chemorheological behaviour for the additive manufacturing of self-healing actuators	**Invited Speaker / Qiang Xu:** Discuss of some flammability parameters derived from MCC Tests
10:20–10:40	**Yoncho Pelovski** / BULGARIA: Integrated treatment of bio-wastes for circular economy	**Romulo S Angelica** / BRAZIL: Dehydroxylation entalphy standards to the quantification of Al-GOETHITES	**György J. Marosi** / HUNGARY: Thermal and spectroscopic evaluation of the applicability of biopolymers for pharmaceutical and engineering purposes	**Joanna Schalnat** / BELGIUM: Experimental and numerical sensitivity study of sources of scatter in quantitative mechanical characterisation of (filled) polymers using DMA equipment
10:40–11:00	**Yesid J. Rueda-Ordóñez** /COLOMBIA: Valorisation of food wastes through torrefaction – thermal decomposition and kinetic analysis	**Tiit Kaljuvee** / ESTONIA: Thermal behaviour of Estonian phosphorites from different deposits	**Masayuki Ito** / JAPAN: Fundamental aspect for the evaluation of activation energy of thermal degradation of fluorine containing elastomer by TGA	**Carlton G. Slough** / USA: Hyphenation of Thermogravimetric Analyzers with MS, FTIR and GC-MS
11:00–11:20	**Anna Shlyakhtina** / RUSSIA: Features of the mechanosynthesis of proton-conducting molybdates R10Mo2O21 (R = La, Nd, Y, Er) containing magnetic (R = Nd, Er) and non-magnetic cations (R = La, Y)	**Bo Liu** / CHINA: Thermal Properties of Ethylene-vinyl Acetate Copolymer with Coal Ash and Layered Double Hydroxide Composite AS Flame Retardants	**Jorge J. López Beceiro** / SPAIN: Viscoelastic behavior of silicones with different crosslinking density	**Andrei Yermalayeu** / USA: Combustion calorimetry: yesterday, today and tomorrow
11:20–11:40	**Bo Wu** / CHINA: Phase change materials based on recycleable thermosetting polymers for thermal energy storage	**Aurora Robledo-Cabrera** / MEXICO: Adsorption mechanism study of xanthates on PbS by titration microcalorimetry	**Hussain Z. Magar** / INDIA: Corrosion Efficacy and Thermal Stability of Novel Carboxylic-Acid Copolymers in Oil Field Brackish Water	**Horng-Jang Liaw** / TAIWAN: Explosion Accident of DMPAT and its Thermal Hazards
11:40–12:00	**Ryszard Zwierzchowski** / POLAND: Energy and exergy efficiencies of sensible Thermal Energy Storage for large CHP plant in Poland	**Michal Frivaldsky** / SLOVAKIA: The study of the inductive heating of the molybdenum sheet	**Carla C. Schmitt** / BRAZIL: Thermal Analysis of Gelatin/Clay Nanocomposites Solid Polymer Electrolyte	**Fernanda Paiva Franguelli** /HUNGARY: Synthesis, characterization and thermal decomposition of hexaamminecobalt(III) permanganate – $[Co(Nh_3)6](Mno4)3$ – a precursor to prepare cobalt-manganese oxides
12:00–13:10	**Buffet Lunch // Jupiter Restaurant, Ground Floor, Danubius Hotel Helia**			

THURSDAY, JUNE 20				
	ORION	**HELIA**	**MERCURE**	**PANORAMA**
	Nanofluid, Heat transfer, Energy conversion, Exergy V.	**Nanomaterials, Ceramics I.**	**Polymers, Pyrolysis, Kinetics III.**	**Theory,Thermochemistry, Thermal Hazard, Calorimetry IV.**
	Session Chair: Pavla Honcova	**Session Chair: Jaćimović Željko**	**Session Chair: György J. Marosi**	**Session Chair: Atsumi Miyake**
13:10–13:30	**Yang Xiao-Jun** / CHINA: A new fractional-order anomalous heat-conduction equation within the weakly singular kernel	**Thamer A. Abdullah** / HUNGARY: Synthesis, Characterization of Vanadium Pentoxide Nanoparticles and Determination of Catalase Mimetic Activity by using New Colorimetric Method	**Javier Tarrío-Saavedra** / SPAIN: Thermal degradation of common feed thermoplastics for fused deposition modelling	**Qiyuan Xie** / CHINA: Pyrolysis Characteristics of Materials for 220 kV Cable and Ignition Route Analyses
13:30–13:50	**Ilmutdin Abdulagatov** / RUSSIA: Simultaneous measurements of the PVT and thermal pressure coefficient of 2-propanol and derived values of internal pressure in the critical and supercritical regions	**László Bakos** / HUNGARY: Influence of graphene oxide composition on photocatalytic properties	**Emma Jakab** / HUNGARY: Thermal decomposition of biomass wastes derived from palm oil production	**Elaine Bsaibess** / FRANCE: Investigation of the electrocaloric effect by pASC calorimetry
13:50–14:10	**Yu-Chi Cheng** / TAIWAN: Discussion on the influence of coal dust dispersion pressure on minimum ignition temperature	**Imane Boucenna** /FRANCE: Rheology and its temperature-dependence in thermosensitive copolymer-clay systems	**Anton Lisy** / SLOVAKIA: Influence of Pd/C, Ru/C and RuPd/C catalysts on lignin ANALYTICAL pyrolysis connected with GC/MS	**Dominika Jendrzejczyk-Handzlik** / POLAND: Thermodynamic properties of liquid Au-Ga, Ga-In and Au-Ga-In systems determined from calorimetric measurements
14:10–14:30	**Ye Yuan** / CHINA: Amplifying the enthalpy of form-stable phase change materials bearing methyl red group with UV light		**Petru Budrugeac** / ROMANIA: Applicability of incremental isoconversional methods to determine of the dependence of activation energy on the conversion degree corresponding to heteroge-neous processes performed under arb	
14:30–16:00	**Coffee Break and Poster Session 3 / Helia Gallery**			

THURSDAY, JUNE 20				
	ORION	HELIA	MERCURE	PANORAMA
	Metals, Alloys, Intermetallics I.	Nanomaterials, Ceramics II.	Polymers, Pyrolysis, Kinetics IV.	Theory, Thermochemistry, Thermal Hazard, Calorimetry V.
	Session Chair: Se-Weon Choi	Session Chair: Ranjit K. Verma	Session Chair: Vladimir Logvinenko	Session Chair: Zuzana Cibulková
16:00–16:20	**Damian Migas** / POLAND: Selection of heat treatment parameters for γ/γ' Co-based superalloys aided by DTA analysis	**Agata Bartyzel** / POLAND: Complexation abilities of multifunctional N, O-donor ligands toward d-Block metal ions – structural and thermal aspects	**Yi Cheng** / CHINA: An intersection method for evaluating the activation temperature (Top) of a chemical reaction	**Long Li** /CHINA: Combustion Behaviour and Thermal Stability of TPU Composites Using Layered Yttrium Hydroxide and Graphene Oxide as Flame Retardant Materials
16:20–16:40	**Lubomira Drozdova** / CZECH R.: Investigation of Fe-C-Cr and Fe-C-Cr-Ni based systems with the use of DTA and HT-LSCM methods	**Beata Cristovao** / POLAND: Heteronuclear CuII/ZnII complexes with N, O-donor ligands – synthesis, crystal structures and thermal properties	**Youwang Huang** / CHINA: How to use properly the distributed activation energy model?	**Clement Mailhe** / FRANCE: Fast and low-cost calorimetry method based on infrared thermography for phase diagrams estimation
16:40–17:00	**Eduard Hryha** / SWEDEN: Application of thermal analysis in powder metallurgy and additive manufacturing: an overview	**Dimitra Kourtidou** / GREECE: Study of Thermal and Mechanical properties of Crosslinked Polyethylene/Expanded Graphene Nanocomposites	**Bojan Z Jankovic** / SERBIA: Study of oxy-combustion of plane tree (Platanus orientalis) seeds in O2/ARGON atmosphere including kinetic analysis by the Fraser-Suzuki deconvolution for overlaping complex reactions	**Susan V. Meschel** / USA: Thermochemical behavior of some 3d Transition metal-Antimony compounds by high temperature direct synthesis calorimetry
17:00–17:20	**Qiaoyun Huang** / CHINA: Adsorption of Cd on mineral-bacteria composites at different ratios	**Krzysztof Pielichowski** / POLAND: Modification of nanocrystalline cellulose toward fabrication of bio-based polyamide composites	**Nobuyoshi Koga** / JAPAN: Kinetic analysis of the thermally induced transformations of calcium hydroxide in different gaseous atmospheres	**Aravind Surendran** / INDIA: Thermo-kinetic studies on Azodicarbonamide/Potassiun periodate Airbag gas generants
17:20–17:40	**Giulio Timelli** / ITALY: Performance of AlTi3C0.15 master alloy in refining grain structure of secondary AlSi7Cu3Mg foundry alloys	**Georgios Psarraas** / GREECE: Probing the multifunctional behaviour of barium zirconate/barium titanate/epoxy resin hybrid nanodielectrics CTRICS	**Anna Kusnierz** / POLAND: Influence of agglomeration of the glass set on the melting of sodium-calcium-silicate glass with increased content of substitute raw materials.	**Endarto Wardhono** / INDONESIA: Differential scanning calorimetry as a thermoanalytical technique in observing the evolution dispersed droplets of concentrated W/O emulsion
17:40–18:00			**Marek Sciazko, Bartosz Mertas** / POLAND: Kinetic modelling of coking coal fluidity development	
18:00–19:00	**Transfer to the Dinner Venue: Royal Palace of Gödöllő**			
19:00–23:00	**JTAC 50th Anniversary Gala Dinner: Royal Palace of Gödöllő**			

FRIDAY, JUNE 21				
	HELIA			
	Session Chair: Petra Sulcová			
08:30–09:10	**Plenary / Géza Regdon, Jr.:** Formulation, structural and thermal analysis of an innovative buccal mucoadhesive film drug delivery system from two different polymers			
09:10–09:30	**Angela Hammer** / GERMANY: Determination of the short time stability of polymers by fast scanning calorimetry			
09:30–09:50	Coffee Break			
	ORION	HELIA	MERCURE	PANORAMA
	Inorganic Materials I.	Nanomaterials, Ceramics III.	Polymers, Pyrolysis, Kinetics V.	Cement, Building materials I.
	Session Chair: Berta Barta-Holló	Session Chair: Krisztina László	Session Chair: Nobuyoshi Koga	Session Chair: Arnon Chaipanich
09:50–10:20	**Invited Speaker / Irina Zvereva:** Thermal analysis of intercalation phenomena in promising photocatalysts	**Invited Speaker / Maria Zaharescu:** Thermal behavior of gels obtained by microwave-assisted sol–gel method	**Invited Speaker / Dario Cavallo:** Self-nucleation and heterogeneous nucleation of polypropylene micro-droplets in immiscible blends	**Invited Speaker / Martin Palou:** Use of calorimetry and thermal analysis to assess the mutual influence of cement and scm during the hydration of composite cementitious binders
10:20–10:40	**Hern Kim** / SOUTH KOREA: Janus superhydrophilic/superhydrophobic nanofiber membrane decorated with CNT for oil water separation	**Kazuhiro Tamura** / JAPAN: High thermal conductive epoxy resin composite with titanium oxide nanoparticle modified by stearic acid and benzoic acid in supercritical carbon dioxide	**Vladimir Logvinenko** / RUSSIA: Thermal decomposition of clusters and coordination polymers: reaction chemism and kinetic stability	**Valentin Antonovic** / LITHUANIA: The effect of milled fluidized catalytic cracking catalyst waste on calcium aluminate cement hydration and structure formation of binder
10:40–11:00	**Edgardo Benavidez** / ARGENTINA: Analysis of DTA and dilatometric data used to study the behaviour of a mould flux	**Elena Yatsenko** / RUSSIA: Peculiarities of foam glass synthesis from natural silica-containing raw materials	**Udaya Ragula** / INDIA: Catalytic and Non-catalytic Pyrolysis of Nerium Oleander	**Ivan Janotka** / SLOVAKIA: Resistance to carbonation of ZeoSlag by accelerated test using thermal analysis
11:00–11:20	**Katalin Győrfi** / HUNGARY: Exfoliation, surface modification and photocatalytic application of an iron-rich kaolinite	**Veronika Vágvölgyi** / HUNGARY: Influence of the modified iron content on the photocatalytic activity of kaolinite	**Andrei Rotaru** / ROMANIA: Thermal decomposition kinetics of some aromatic azomonoethers; Part V. Influence of introducing a methyl rest to the benzyloxy group of BOPPD liquid crystal	**Martin Keppert** / CZECH R: Phase composition of ceramic based alkali-activated polymers – combination of X-ray diffraction and thermal analysis
11:20–11:40	**Elena Kharitonova** / RUSSIA: Polymorphism of Bi2O3-based compunds in Bi2O3-Ln2O3-WO3 (Ln = La, Pr, Nd) systems	**Jaroslav Bartak** / CZECH R: Crystal growth in chalogenide glasses – combination of direct and indirect experimental methods	**Peter Simon** / SLOVAKIA: Importance of induction periods in the prediction of material lifetmes	**Izabela Kurek** / POLAND: Analysis of the properties of foamed geopolymers modified by the addition of expanded perlite

FRIDAY, JUNE 21				
11:40–12:00	**Csaba Várhelyi Jr.** / ROMANIA: Thermal and spectroscopical analysis of iron(II) and copper(II) complexes with azomethines	**Evangelia Tarani** / GREECE: Review on modeling of mechanical properties and thermal conductivity of graphene nanoplatelets reinforced high-density polyethylene composites	**Branislav Stankovic** / SERBIA: Application of fractal kinetics on non-isothermal dehydration, dehydroxylation, and degradation of fullerol	**Ákos Lakatos** / HUNGARY: Effects of the heat annealing in the properties of fibrous aerogel insulation
12:00–13:10	**Buffet Lunch // Jupiter Restaurant, Ground Floor, Danubius Hotel Helia**			
	ORION	**HELIA**	**MERCURE**	**PANORAMA**
	Metals, Alloys, Intermetallics II.	**Nanomaterials, Ceramics IV.**	**Polymers, Pyrolysis, Kinetics VI.**	**Cement, Building materials II.**
	Session Chair: Krzysztof Labisz	**Session Chair: János Madarász**	**Session Chair: Yi Cheng**	**Session Chair: Ákos Lakatos**
13:10–13:30	**Gong Pan** / CHINA: Crystallization kinetics of multicomponent bulk metallic glasses	**Balázs Zsirka** / HUNGARY: Synthesis, characterisation and photocatalytic application of halloysite-based nano-hybrids	**Gábor Várhegyi** / HUNGARY: Non-isothermal kinetics: Best fitting empirical models instead of model-free methods	**Lenka Scheinherrová** / CZECH R: Thermal analysis of ceramic-based geopolymers exposed to accelerated carbonation
13:30–13:50	**Bedrich Smetana** / CZECH R.: Important issues conencted with differential thermal analysis of Fe-C based alloys	**Maria Kavanova** / CZECH R: Application of thermal analyses (TG-DTA, DIL, TMA) to the study of glazes	**Günter Wuzella** / AUSTRIA: Isoconversional cure kinetics of a novel thermosetting resin based on linseed oil	**Alena Vimmrova** / CZECH R: Changes in structure and composition of gypsum paste at high temperatures
13:50–14:10	**Michaela Kotrlova** / CZECH R.: Crystallization and oxidation kinetics of Zr–Cu and Zr–Hf–Cu thin-film metallic glasses	**Anna Prnova** / SLOVAKIA: Study of thermal behaviour and photoluminiscence properties of Er and Nd doped by yttrium aluminate glasses	**Shulin Bai** / CHINA: Graphene filled polymer composites with enhanced thermal properties	
14:10–14:30	**Johan Wendel** / SWEDEN: Oxide reduction and oxygen removal in water-atomized iron powder – a kinetic study	**Szymon Swinotek** / POLAND: The effect of LiF on the thermal stability and thermoluminescence properties of borosilicate glasses	**Sasan Moradi** / SPAIN: The effect of cross-linking agent and initiator on the thermal conductivity and cure kinetics of epoxy-boron nitride composites	
14:30–16:00	**Coffee Break and Poster Session 4 / Helia Gallery**			
	HELIA			
16:00–16:40	Closing Ceremony			

Type	Last Name	First Name	Country	Abstract ID	Abstract Title
Cement, Building materials I.					
Invited	**Palou**	Martin	SLOVAKIA	40	Use of calorimetry and thermal analysis to assess the mutual influence of cement and scm during the hydration of composite cementitious binders
Oral	**Janotka**	Ivan	SLOVAKIA	49	Resistance to carbonation of ZeoSlag by accelerated test using thermal analysis
	Keppert	Martin	CZECH REPUBLIC	298	Phase composition of ceramic based alkali-activated polymers – combination of X-ray diffraction and thermal analysis
	Kurek	Izabela	POLAND	400	Analysis of the properties of foamed geopolymers modified by the addition of expanded perlite
	Lakatos	Ákos	HUNGARY	729	Effects of the heat annealing in the properties of fibrous aerogel insulation
	Antonovič	Valentin	LITHUANIA	1272	The effect of milled fluidized catalytic cracking catalyst waste on calcium aluminate cement hydration and structure formation of binder
Cement, Building materials II.					
Oral	**Scheinherrová**	Lenka	CZECH REPUBLIC	547	Thermal analysis of ceramic-based geopolymers exposed to accelerated carbonation
Oral	**Vimmrová**	Alena	CZECH REPUBLIC	531	Changes in structure and composition of gypsum paste at high temperatures
Energetic materials I.					
Invited	**Sun**	Lixian	CHINA	106	Enhanced Hydrogen Storage by Doping Catalysts and Nanoconfinement and Thermal Analysis Study
Oral	**Füglein**	Ekkehard	GERMANY	810	Decomposition of Hydrogen Peroxide Investigated With Different Calorimetric Techniques
	Hobbs	Michael L.	UNITED STATES	72	Estimating RDX Solubility in TNT at the Melting Point of RDX (198–204 °C)
	Majchrzak-Kucęba	Izabela	POLAND	1156	The potential of biocarbon as CO2 adsorbent in VPSA unit
	Wang	Yi Kai	CHINA	450	Study of the ratio of fuel to oxidant on the kinetic of ignition reaction of MT and MTV pyrotechnics by non-isothermal TG DSC technique
	Yan	Tao	CHINA	1194	Energetic Performance and Reaction Mechanism of Nano-Aluminium Based Microspheres
Inorganic materials I.					
Invited	**Zvereva**	Irina	RUSSIA	316	Thermal analysis of intercalation phenomena in promising photocatalysts
Oral	**Barta Holló**	Berta	SERBIA	1027	The role of oxoanions in the thermal decomposition of $[Agpy_4]XO_4.4[Agpy_2XO_4]$ (X=Mn, Cl) double salt complexes having tetrahedral $Agpy_4$ cation and three-coordinated $((k^{1N}\text{-}py)_2Ag\text{-}k^1\text{-}OXO_3$ units
	Benavidez	Edgardo R	ARGENTINA	231	Analysis of DTA and dilatometric data used to study the behaviour of a mould flux

Type	Last Name	First Name	Country	Abstract ID	Abstract Title
Oral	**Franguelli**	Fernanda P	HUNGARY	343	Synthesis, characterization and thermal decomposition of hexaamminecobalt(III) permanganate – [Co(Nh$_3$)6](Mno4)3 – a precursor to prepare cobalt-manganese oxides
	Győrfi	Katalin	HUNGARY	1030	Exfoliation, surface modification and photo-catalytic application of an iron-rich kaolinite
	Kharitonova	Elena	RUSSIA	186	Polymorphism of Bi2O3-based compunds in Bi2O3-Ln2O3-WO3 (Ln = La, Pr, Nd) systems
	Kim	Hern	SOUTH KOREA	256	Janus superhydrophilic/superhydrophobic nanofiber membrane decorated with CNT for oil water separation
	Várhelyi	Csaba jr.	ROMANIA	508	Thermal and spectroscopical analysis of iron(II) and copper(II) complexes with azomethines
Materials sciences, Geosciences I.					
Invited	**Vecchio Ciprioti**	Stefano	ITALY	489	Thermal analysis study of vaporization of ionic compounds. The case of tetramethylammonium iodide
Oral	**Dippong**	Thomas	ROMANIA	649	Thermal behavior of Ni-Zn ferrite nanoparticles embedded in silica and PVA matrix
	Okhotnikova	Ekaterina Sergeevna	RUSSIA	174	The study of bitumen's microstructure by modulated differential scanning calorimetry
	Boldyreva	Elena V	RUSSIA	1161	JTAC and its role in my scientific career
	Hashimoto	Takuya	JAPAN	696	Evaluation of Stability of Pr2-xNdxNiO4+δ by Thermogravimetry under various oxygen partial pressures
Materials sciences, Geosciences II.					
Invited	**Suñol**	Joan J	SPAIN	639	Thermal analysis of magnetic materials
Oral	**Resnina**	Natalia	RUSSIA	546	Isothermal martensitic transformations in NiTi-based shape memory alloys: kinetics and strain behaviour
	Watanabe	Keisuke	JAPAN	274	Thermal and spectroscopic study to investigate the effect of the thermal history on the phase behavior of the ionic liquid (C4mim)PF6
	Silarska	Katarzyna	POLAND	775	Influence of crystalline and amorphous phosphate phases on electrical properties and chemical stability of BaCe0.9Y0.1O3-δ protonic conductors
Materials sciences, Geosciences III.					
Invited	**Ozao**	Riko	JAPAN	679	Approaches for Better Thermal Analysis-Activities of the Standardization Working Group of JSCTA (Japan Society of Calorimetry and Thermal Analysis)
Oral	**Angelica**	Romulo S	BRAZIL	600	Dehydroxylation entalphy standards to the quantification of Al-GOETHITES
	Kaljuvee	Tiit	ESTONIA	289	Thermal behaviour of Estonian phosphorites from different deposits
	Liu	Bo	CHINA	501	Thermal Properties of Ethylene-vinyl Acetate Copolymer with Coal Ash and Layered Double Hydroxide Composite AS Flame Retardants
	Frivaldsky	Michal	SLOVAKIA	1044	The study of the inductive heating of the molybdenum sheet
	Robledo-Cabrera	Aurora	MEXICO	856	Adsorption mechanism study of xanthates on PbS by titration microcalorimetry

Type	Last Name	First Name	Country	Abstract ID	Abstract Title
Metals, alloys, intermetallics I.					
Oral	**Drozdová**	Ľubomíra	CZECH REPUBLIC	477	Investigation of Fe-C-Cr and Fe-C-Cr-Ni based systems with the use of DTA and HT-LSCM methods
	Hryha	Eduard	SWEDEN	985	Application of thermal analysis in powder metallurgy and additive manufacturing: an overview
	Huang	Qiaoyun	CHINA	325	Adsorption of Cd on mineral-bacteria composites at different ratios
	Migas	Damian	POLAND	565	Selection of heat treatment parameters for γ/γ' Co-based superalloys aided by DTA analysis
	Timelli	Giulio	ITALY	663	Performance of AlTi3C0.15 master alloy in refining grain structure of secondary AlSi7Cu3Mg foundry alloys
Metals, alloys, intermetallics II.					
Oral	**Kotrlová**	Michaela	CZECH REPUBLIC	537	Crystallization and oxidation kinetics of Zr–Cu and Zr–Hf–Cu thin-film metallic glasses
	Pan	Gong	CHINA	8	Crystallization kinetics of multicomponent bulk metallic glasses
	Smetana	Bedřich	CZECH REPUBLIC	562	Important issues conencted with differential thermal analysis of Fe-C based alloys
	Wendel	Johan	SWEDEN	903	Oxide reduction and oxygen removal in water-atomized iron powder – a kinetic study
Nanofluid, Heat transfer, Energy conversion, Exergy I.					
Invited	**Mahian**	Omid	CHINA	1273	Application of Nanofluids in Renewable Energy
Oral	**Achchaq**	Fouzia	FRANCE	790	In-situ real-time preliminary study of carbon felt fibres interaction with libr, lioh and Li4Br(OH)3 at microscale
	Agarwal	Ravi	INDIA	351	Thermal conductivity sensitivity of neutron irradiated aluminum oxide nanofluids
	Estellé	Patrice	FRANCE	394	Nanouptake: The European network for nanofluids development related to industrial applications
	Li	Yaru	CHINA	1084	Reactivity of fluororubber modified aluminum in terms of heat transfer effect
	Shin	Dong Ho	SOUTH KOREA	1174	A study on the control of thermal performance using bimetal fin channel in heat exchanger
Nanofluid, Heat transfer, Energy conversion, Exergy II.					
Invited	**Murugesan**	Mohanraj M	INDIA	328	Thermodynamic performance of a direct expansion solar assisted heat pumps using packed bed evaporator-collector
Oral	**Duquesne**	Marie	FRANCE	762	Discharge of undercooled xylitol-erythritol eutectic blend for seasonal energy storage
	Jiang	Liang	CHINA	871	Self-luminous polyethylene glycol based phase change materials for both thermal and light energy storage

Type	Last Name	First Name	Country	Abstract ID	Abstract Title
Oral	**Kasaeian**	Alibakhsh	IRAN	1155	Investigating the heat transfer of organic phase change materials enhanced with nanoparticles
Nanofluid, Heat transfer, Energy conversion, Exergy III.					
Oral	**Kempannagari**	Anantha Kumar	INDIA	616	Effect of radiation on MHD time-dependent Casson fluid flow past an exponentially stretching curved sheet
	Le Bot	Cédric	FRANCE	768	Numerical simulation of heat discharge during solidification
	Moga	Ligia	ROMANIA	645	Thermal characterisation of building components having PCM layers
	Pasierb	Paweł	POLAND	988	Influence of Temperature on Properties of Selected Materials for Energy Storage and Conversion Applications
	Nickerson	Jarett	CANADA	859	Thermal Conductivity Characterization of Enhanced Materials: Method Selection and Comparison
Nanofluid, Heat transfer, Energy conversion, Exergy IV.					
Invited	**Shu**	Chi-Min	TAIWAN	405	Further investigation on calorimetric approach to appraise thermal explosion in propylene purification process.
Oral	**Pelovski**	Yoncho	BULGARIA	1003	Integrated treatment of bio-wastes for circular economy
	Rueda-Ordóñez	Yesid J	COLOMBIA	1111	Valorisation of food wastes through torrefaction – thermal decomposition and kinetic analysis
	Shlyakhtina	Anna	RUSSIA	166	Features of the mechanosnthesis of proton-conducting molybdates R10Mo2O21 (R = La, Nd, Y, Er) containing magnetic (R = Nd, Er) and non-magnetic cations (R = La, Y)
	Wu	Bo	CHINA	802	Phase change materials based on recycleable thermosetting polymers for thermal energy storage
	Zwierzchowski	Ryszard	POLAND	396	Energy and exergy efficiencies of sensible Thermal Energy Storage for large CHP plant in Poland
Nanofluid, Heat transfer, Energy conversion, Exergy V.					
Oral	**Abdulagatov**	Ilmutdin	RUSSIA	252	Simultaneous measurements of the PVT and thermal pressure coefficient of 2-propanol and derived values of internal pressure in the critical and supercritical regions
	Cheng	Yu-Chi	TAIWAN	588	Discussion on the influence of coal dust dispersion pressure on minimum ignition temperature
Oral	**Xiao-Jun**	Yang	CHINA	291	A new fractional-order anomalous heat-conduction equation within the weakly singular kernel
	Yuan	Ye	CHINA	798	Amplifying the enthalpy of form-stable phase change materials bearing methyl red group with UV light

Type	Last Name	First Name	Country	Abstract ID	Abstract Title
Nanomaterials, Ceramics I.					
Oral	**Abdullah**	Thamer Adnan	HUNGARY	946	Synthesis, Characterization of Vanadium Pentoxide Nanoparticles and Determination of Catalase Mimetic Activity by using New Colorimetric Method
	Bakos	László P.	HUNGARY	1000	Thermal properties of graphene oxide/copper oxide composites
	Boucenna	Imane	FRANCE	933	Rheology and its temperature-dependence in thermosensitive copolymer-clay systems
	Odhiambo	Vincent O	HUNGARY	1033	Thermal properties of TiO_2 nanofibers synthesized by electrospinning using water soluble Ti-precursor
Nanomaterials, Ceramics II.					
Oral	**Bartyzel**	Agata	POLAND	654	Complexation abilities of multifunctional N, O-donor ligands toward d-Block metal ions – structural and thermal aspects
	Cristovao	Beata	POLAND	655	Heteronuclear CuII/ZnII complexes with N, O-donor ligands – synthesis, crystal structures and thermal properties
	Kourtidou	Dimitra	GREECE	576	Study of Thermal and Mechanical properties of Crosslinked Polyethylene/Expanded Graphene Nanocomposites
	Pielichowski	Krzysztof	POLAND	385	Modification of nanocrystalline cellulose toward fabrication of bio-based polyamide composites
	Psarras	Georgios C.	GREECE	855	Probing the multifunctional behaviour of barium zirconate/barium titanate/epoxy resin hybrid nanodielectrics CTRICS
Nanomaterials, Ceramics III.					
Invited	**Zaharescu**	Maria Magdalena	ROMANIA	612	Thermal behavior of gels obtained by microwave-assisted sol–gel method
Oral	**Bartak**	Jaroslav	CZECH REPUBLIC	1266	Crystal growth in chalogenide glasses – combination of direct and indirect experimental methods
	Tamura	Kazuhiro	JAPAN	507	High thermal conductive epoxy resin composite with titanium oxide nanoparticle modified by stearic acid and benzoic acid in supercritical carbon dioxide
	Tarani	Evangelia	GREECE	361	Review on modeling of mechanical properties and thermal conductivity of graphene nanoplatelets reinforced high-density polyethylene composites
	Vágvölgyi	Veronika	HUNGARY	1021	Influence of the modified iron content on the photocatalytic activity of kaolinite
	Yatsenko	Elena A.	RUSSIA	750	Peculiarities of foam glass synthesis from natural silica-containing raw materials
Nanomaterials, Ceramics IV.					
Oral	**Kavanová**	Mária	CZECH REPUBLIC	519	Application of thermal analyses (TG-DTA, DIL, TMA) to the study of glazes
	Prnova	Anna	SLOVAKIA	483	Study of thermal behaviour and photoluminiscence properties of Er and Nd doped by yttrium aluminate glasses

Type	Last Name	First Name	Country	Abstract ID	Abstract Title
Oral	**Świontek**	Szymon	POLAND	1147	The effect of LiF on the thermal stability and thermoluminescence properties of borosilicate glasses
	Zsirka	Balázs	HUNGARY	1042	Synthesis, characterisation and photocatalytic application of halloysite-based nano-hybrids
Pharmaceuticals, Fuels, Biofuels, Cultural Heritage I.					
Invited	**Mészáros-Szécsényi**	Katalin	SERBIA – HUNGARY	267	Thermal Analysis of Coordination Compounds with Biological Activity
Oral	**Cavalheiro**	Eder T G	BRAZIL	667	Thermal behavior of anti-inflamatory drug naproxen
	Dolega	Agnieszka	POLAND	172	Physical stability evaluation of carbamazepine
	Laszlo	Krisztina	HUNGARY	712	Drug-matrix interactions in probe molecule loaded responsive hydrogels and implications for drug delivery
	Legendre	Bernard	FRANCE	741	Study of the polymorphism of florfenicol by DSC and Calorimetry
	Sebestyén	Zoltán	HUNGARY	814	Characterization of historical leathers by thermal methods
Pharmaceuticals, Fuels, Biofuels, Cultural Heritage II.					
Invited	**Mothé**	Michelle G	BRAZIL	39	Kinetic of thermal decomposition of light and heavy crude oils by thermal analysis
Oral	**Čelan Korošin**	Nataša	SLOVENIA	243	The influence of pyrolytic conditions on physico-chemical properties of animal bone char
	Hmadeh	Mohamad	LEBANON	700	Metal-Organic Framework Catalysts for Efficient Liquid Biofuel Production
	Kasianenko	Ekaterina	RUSSIA	379	Thermal expansion of rib cartilage implants under Peltier cooling and laser heating
Pharmaceuticals, Fuels, Biofuels, Cultural Heritage III.					
Oral	**Ferencz**	Andrea	HUNGARY	463	Blood plasma survey signals after surgery
	Lőrinczy	Dénes	HUNGARY	190	Thermal analysis of synovial fluids in different stages/infections of osteoarthritis
	Schnitzler	Egon	BRAZIL	415	Thermal, structural and morphological characterisation of organic rice starch after physical treatment
	Verma	Ranjit K	INDIA	948	Thermal analysis in studies of ball milled turmeric and thermooxidation of mustard oil
	Zhou	Weibiao	SINGAPORE	1165	Maltodextrin stability: impacts of salt addition, molecular weight and molecular weight distribution on thermal characteristics
	Vlase	Titus	ROMANIA	180	TG-DTA and FT-IR analyses of various samples of mortars from Deva region
Polymers, Pyrolysis, Kinetics I.					
Oral	**Abatti**	Lisandra	BRAZIL	270	Thermal Properties of Rubber Compositions with Pecan Nutshell and Compatibilizing Agent to Retread Tires
	Faraguna	Fabio	CROATIA	718	Low temperature behaviour of methacrylate based pour point depressants

Type	Last Name	First Name	Country	Abstract ID	Abstract Title
Oral	**He**	Yucheng	CHINA	75	Flash DSC study on the Low-temperature crystal nucleation in the BLENDS OF poly(lactic acids)
	Hu	Wenbing	CHINA	79	Flash DSC Study on Polymer Crystallization Kinetics
	Hussain	Kaneez F.	KUWAIT	690	Multistep Thermal Degradation Kinetics: Pyrolysis of CaSO4-Complex Obtained by Antiscaling Effect of Maleic-Anhydride Polymer
	Sciazko	Marek	POLAND	1020	Kinetic modelling of coking coal fluidity development
Polymers, Pyrolysis, Kinetics II.					
Invited	**Van Assche**	Guy	BELGIUM	1270	Studying reversible reactions and chemorheological behaviour for the additive manufacturing of self-healing actuators
Oral	**Ito**	Masayuki	JAPAN	277	Fundamental aspect for the evaluation of activation energy of thermal degradation of fluorine containing elastomer by TGA
	López Beceiro	Jorge J.	SPAIN	928	Viscoelastic behavior of silicones with different crosslinking density
	Magar	Hussain Z.	INDIA	831	Corrosion Efficacy and Thermal Stability of Novel Carboxylic-Acid Copolymers in Oil Field Brackish Water
	Marosi	Gyorgy J.	HUNGARY	1089	Thermal and spectroscopic evaluation of the applicability of biopolymers for pharmaceutical and engineering purposes
	Schmitt	Carla C	BRAZIL	675	Thermal Analysis of Gelatin/Clay Nanocomposites Solid Polymer Electrolyte
Polymers, Pyrolysis, Kinetics III.					
Oral	**Budrugeac**	Petru	ROMANIA	235	Applicability of incremental isoconversional methods to determine of the dependence of activation energy on the conversion degree corresponding to heterogeneous processes performed under arb
	Jakab	Emma	HUNGARY	951	Thermal decomposition of biomass wastes derived from palm oil production
	Lisý	Anton	SLOVAKIA	1108	Influence of Pd/C, Ru/C and RuPd/C catalysts on lignin ANALYTICAL pyrolysis connected with GC/MS
	Tarrío-Saavedra	Javier	SPAIN	975	Thermal degradation of common feed thermoplastics for fused deposition modelling
Polymers, Pyrolysis, Kinetics IV.					
Oral	**Cheng**	Yi	CHINA	69	An intersection method for evaluating the activation temperature (Top) of a chemical reaction
	Huang	Youwang	CHINA	97	How to use properly the distributed activation energy model?
	Janković	Bojan Ž.	SERBIA	66	Study of oxy-combustion of plane tree (Platanus orientalis) seeds in O2/ARGON atmosphere including kinetic analysis by the Fraser-Suzuki deconvolution for overlaping complex reactions

Type	Last Name	First Name	Country	Abstract ID	Abstract Title
Oral	**Koga**	Nobuyoshi	JAPAN	937	Kinetic analysis of the thermally induced transformations of calcium hydroxide in different gaseous atmospheres
Polymers, Pyrolysis, Kinetics V.					
Invited	**Cavallo**	Dario	ITALY	882	Self-nucleation and heterogeneous nucleation of polypropylene micro-droplets inimmiscible blends
Oral	**Logvinenko**	Vladimir A.	RUSSIA	223	Thermal decomposition of clusters and coordination polymers: reaction chemism and kinetic stability
	Ragula	Udaya B.	INDIA	1077	Catalytic and Non-catalytic Pyrolysis of Nerium Oleander
	Rotaru	Andrei	ROMANIA	634	Thermal decomposition kinetics of some aromatic azomonoethers; Part V. Influence of introducing a methyl rest to the benzyloxy group of BOPPD liquid crystal
	Šimon	Peter	SLOVAKIA	888	Importance of induction periods in the prediction of material lifetimes
	Stankovic	Branislav S	SERBIA	369	Application of fractal kinetics on non-isothermal dehydration, dehydoroxylation, and degradation of fullerol
Polymers, Pyrolysis, Kinetics VI.					
Oral	**Bai**	Shulin	CHINA	64	Graphene filled polymer composites with enhanced thermal properties
	Moradi	Sasan	SPAIN	916	The effect of cross-linking agent and initiator on the thermal conductivity and cure kinetics of epoxy-boron nitride composites
	Várhegyi	Gábor	HUNGARY	426	Non-isothermal kinetics: Best fitting empirical models instead of model-free methods
	Wuzella	Günter	AUSTRIA	393	Isoconversional cure kinetics of a novel thermosetting resin based on linseed oil
Theory and instrumentation,Thermochemistry, Thermal hazard, Calorimetry I.					
Invited	**Šesták**	Jaroslav	CZECH REPUBLIC	1183	Do we know what the temperature is: from Newton's cooling law to a wider understanding of thermal analysis
Oral	**Drebushchak**	Valeri A.	RUSSIA	27	Simple and accurate analytical equation for the thermal expansion of solids
	Ghosh	Sajal	INDIA	352	Investigations of phase equilibria in LiCl-GdCl3 binary and LiCl-KCl-GdCl3 ternary systems by DTA and XRD
	Sedov	Igor	RUSSIA	885	Nanostructure and solvation properties of several protic ionic liquids
Theory and instrumentation,Thermochemistry, Thermal hazard, Calorimetry II.					
Oral	**Confalonieri**	Chiara	ITALY	982	Microstructural and thermal response evolution of metallic form-stable Phase Change Materials produced from ball-milled powders
	Dubaj	Tibor	SLOVAKIA	586	Isoconversional methods and kinetic parameters: A tool or a goal?
	Fiurasek	Petr	CANADA	147	McGill Chemistry Characterization (MC2) facility

Type	Last Name	First Name	Country	Abstract ID	Abstract Title
Oral	**Markham**	Sarah Kate	IRELAND	784	Polarisation changes during infrared thermography using silver halide poly-crystal-line infrared fiber bundle
	O'Mahony	Charlie	IRELAND	822	Computed thermal tomography and 3d ir thermography of buried defects: multiphysics modelling and experimental validation
	Rodríguez de Rivera	Pedro Jesús (PJ)	SPAIN	294	Human body thermal conductance determination using a calorimetric sensor with linear programming of thermostat temperature
Theory and instrumentation,Thermochemistry, Thermal hazard, Calorimetry III.					
Invited	**Xu**	Qiang	CHINA	346	Discuss of some flammability parameters derived from MCC Tests
Oral	**Liaw**	Horng-Jang	TAIWAN	91	Explosion Accident of DMPAT and its Thermal Hazards
	Schalnat	Joanna	BELGIUM	388	Experimental and numerical sensitivity study of sources of scatter in quantitative mechanical characterisation of (filled) polymers using DMA equipment
	Slough	Carlton G	UNITED STATES	154	Hyphenation of Thermogravimetric Analyzers with MS, FTIR and GC-MS
	Yermalayeu	Andrei	UNITED STATES	160	Combustion calorimetry: yesterday, today and tomorrow
	Liu	Yi	CHINA	445	Research on the thermal hazards of diphenyl methane-4,4'-diisocyanate (MDI)
Theory and instrumentation,Thermochemistry, Thermal hazard, Calorimetry IV.					
Oral	**Bsaibess**	Eliane	FRANCE	721	Investigation of the electrocaloric effect by pASC calorimetry
	Jendrze-jczyk-Handzlik	Dominika	POLAND	432	Thermodynamic properties of liquid Au-Ga, Ga-In and Au-Ga-In systems determined from calorimetric measurements
	Xie	Qiyuan	CHINA	46	Pyrolysis Characteristics of Materials for 220 kV Cable and Ignition Route Analyses
Theory and instrumentation,Thermochemistry, Thermal hazard, Calorimetry V.					
Oral	**Li**	Long	CHINA	819	Combustion Behaviour and Thermal Stability of TPU Composites Using Layered Yttrium Hydroxide and Graphene Oxide as Flame Retardant Materials
	Mailhé	Clément	FRANCE	717	Fast and low-cost calorimetry method based on infrared thermography for phase diagrams estimation
	Meschel	Susan V.	UNITED STATES	268	Thermochemical behavior of some 3d Transition metal-Antimony compounds by high temperature direct synthesis calorimetry
	Surendran Lathika	Aravind	INDIA	619	Thermo-kinetic studies on Azodicarbona-mide/Potassiun periodate Airbag gas generants
	Wardhono	Endarto	INDONESIA	1065	Differential scanning calorimetry as a thermoanalytical technique in observing the evolution dispersed droplets of concentrated W/O emulsion

Last Name	First Name	Country	Abstract ID	Abstract Title	Date	Time	TV No.
Bio sciences, including food, soil, textile, wood							
Bannach	**Gilbert**	BRAZIL	210	Glycerol-starch hydrogel synthetized by microwave to improve curcumin solubility in water	Tuesday, June 18	18:30–19:00	1
Bisinella	**Radla , Z.B.**	BRAZIL	771	Organic red rice starch: double physical modification	Tuesday, June 18	19:00–19:30	1
Bisinella	**Radla , Z.B.**	BRAZIL	412	Dual modification by phosphating and ball-milling in pinhão starch, a study of its thermal, structural and morphological properties	Tuesday, June 18	18:30–19:00	3
Čelan Korošin	**Nataša**	SLOVENIA	246	Study of the pyrolytic characteristics of meat and bone meal	Tuesday, June 18	18:30–19:00	4
Chrissafis	**Konstantinos**	GREECE	574	Effect of two types of initiators on the thermal properties of unsaturated polyester resins	Tuesday, June 18	18:30–19:00	5
Ferreira de Jesus	**Jany Hellen**	BRAZIL	780	Thermal behavior of some food antioxidants	Tuesday, June 18	18:30–19:00	6
Grzelczyk	**Joanna**	POLAND	259	Evaluation of antidiabetic effects of bioactive isolates from various coffee extracts through binding with PPAR-Y	Tuesday, June 18	19:00–19:30	6
Grzelczyk	**Joanna**	POLAND	217	Evaluation of affinity of isoflavones from fermented Chickpea & Red Clover sprouts to actin by isothermal titration calorimetry	Tuesday, June 18	18:30–19:00	8
Hnilička	**František**	CZECH REPUBLIC	54	Combustion calorimetry and its use in stress physiology of plants	Tuesday, June 18	18:30–19:00	9
Kawai	**Kiyoshi**	JAPAN	336	Freeze-concentrated glass-like transition temperature of carbohydrate-phosphate buffered saline systems	Tuesday, June 18	19:00–19:30	7
Kawai	**Kiyoshi**	JAPAN	324	Glass transition temperature of deep-fried food characterized by thermomechanical analysis	Tuesday, June 18	18:30–19:00	11
Lacerda	**Luiz Gustavo**	BRAZIL	384	Thermal, structural and mechanical properties of fiber reinforced biodegradable films using different methods of starch extraction	Tuesday, June 18	18:30–19:00	12
Lacerda	**Luiz Gustavo**	BRAZIL	378	Physicochemical properties of native and waxy maize starches under heat-moisture and organic acids treatments	Tuesday, June 18	19:00–19:30	3
Lőrinczy	**Dénes**	HUNGARY	195	Investigation of side effects in polyneuropathy by DSC caused by cyclophosphamide treatment	Tuesday, June 18	18:30–19:00	13
Michnik	**Anna**	POLAND	139	Changes in blood serum thermal behavior during sports training enriched with biological regeneration treatments	Tuesday, June 18	18:30–19:00	14
Romko	**Stephanie S**	BRAZIL	978	Effect of extraction methods in oxidative stability and antioxidant potential of araçá (Psidium cattleianum) seed oil	Tuesday, June 18	19:00–19:30	8

Last Name	First Name	Country	Abstract ID	Abstract Title	Date	Time	TV No.
Romko	**Stephanie S**	BRAZIL	541	Thermal characterization of atemoia oil obtained by different methods	Tuesday, June 18	18:30–19:00	16
Rotaru	**Andrei**	ROMANIA	637	Edible vegetable oil enriched with carotenoids extracted from the by-products of sea buckthorn (Hippophae rhamnoides ssp. sinensis). A study of some characteristic properties and the effect	Tuesday, June 18	18:30–19:00	17
Schnitzler	**Egon**	BRAZIL	366	Ultrasonic modification of purple cará starch (Colocasia esculenta b. Tini): morphological, pasting and thermal properties	Tuesday, June 18	18:30–19:00	18
Skoczowski	**Andrzej**	POLAND	1051	The parameters describing the heat flow from maize seeds depends on the amount and composition of microbiota	Tuesday, June 18	18:30–19:00	19
Stawoska	**Iwona**	POLAND	843	Application of Isothermal Calorimetry to assess the quality of humidly maize seeds treated with ozone and H_2O_2	Tuesday, June 18	18:30–19:00	20
Stawoska	**Iwona**	POLAND	840	Step by step monitoring of early stages of corn germination via Isothermal Calorimetry and FT-Raman spectroscopy	Wednesday, June 19	14:30–15:00	1
Tarani	**Evangelia**	GREECE	571	Study of novel bio-based unsaturated polyester resins based on succinic acid	Wednesday, June 19	15:00–15:30	1
Xie	**Kefeng**	CHINA	73	Dependence of starch gelatinization on heating rate	Wednesday, June 19	15:30–16:00	1
Calorimetry							
Giraldo	**Liliana**	COLOMBIA	670	Enthalphies of immersion in caffeine solutions of SBA-15 and amino functionalised SBA-15	Wednesday, June 19	15:00–15:30	2
Moreno	**Juan Carlos**	COLOMBIA	660	Heat of adsorption: A comparative study between the experimental determination and theoretical model using the system CH4-MOF´s	Wednesday, June 19	15:30–16:00	2
Nikiforova	**Galina E.**	RUSSIA	349	Calorimetric study of lutetium orthoniobate	Wednesday, June 19	14:30–15:00	3
Qian	**Yi**	CHINA	828	Preparation of Pillared Layered Antimony Hydroxide and Its Flame Retardancy in Thermoplastic Polyurethane	Wednesday, June 19	15:00–15:30	3
Cements, building materials							
Chaipanich	**Arnon**	THAILAND	1002	Thermogravimetric analysis and phase characterizations of Portland fly ash limestone cements	Wednesday, June 19	15:30–16:00	3
Chaipanich	**Arnon**	THAILAND	990	Microstructure and phase characterizations of fly ash cements by alkali activation	Wednesday, June 19	14:30–15:00	4

Last Name	First Name	Country	Abstract ID	Abstract Title	Date	Time	TV No.
Dragomirová	Janette	SLOVAKIA	1072	Optimization of cementitious composite for heavyweight concrete preparation using thermal analysis method	Wednesday, June 19	15:00–15:30	4
Kuzielová	Eva	SLOVAKIA	36	Phase transformations in blended G-oil well cements	Wednesday, June 19	15:30–16:00	4
Michel	Murillo	COLOMBIA	55	Fire resistance performance of concrete panels with PVC Stay-in-place formwork	Wednesday, June 19	14:30–15:00	5
Pacewska	Barbara	POLAND	1188	Investigations of selected aluminosilicates activity in white calcium aluminate cement hydration	Wednesday, June 19	15:00–15:30	5
Pagacz	Joanna Michalina	POLAND	772	Application of polymers in building and construction industry	Wednesday, June 19	15:30–16:00	5
Stoyanova	Vilma Petkova	BULGARIA	879	Thermal and structural investigations of cement-based mortars with marble waste fillers	Wednesday, June 19	14:30–15:00	6
Ceramics, glasses							
Bochenek	Dariusz	POLAND	732	Multi-component PZT ceramics obtained by mechanochemical activation and classical technology	Wednesday, June 19	15:00–15:30	6
Brandaleze	Elena	ARGENTINA	319	Thermal analysis techniques applied to study wear mechanisms of black refractories used in the steel continuous casting process	Wednesday, June 19	15:30–16:00	6
Catauro	Michelina	ITALY	595	Thermal behavior of zirconia/hydroxyapatite composites synthesized by sol–gel method	Wednesday, June 19	14:30–15:00	7
Cerc Korošec	Romana	SLOVENIA	408	Thermal behaviour of some glass and stone wools	Wednesday, June 19	15:00–15:30	7
Chromcikova	Maria	SLOVAKIA	585	Thermodynamic model and high-temperature raman spectra of BaO-B2O3 glassforming melts	Wednesday, June 19	15:30–16:00	7
Goj	Pawel	POLAND	420	Thermal proporties of iron polyphosphate glasses containing calcium	Wednesday, June 19	14:30–15:00	8
Goj	Pawel	POLAND	417	Thermal proporties of (100-x)(70P2O5-30Fe2O3)-xNa2O glasses	Wednesday, June 19	15:00–15:30	8
Hruska	Branislav	SLOVAKIA	558	Thermodynamic model and raman spectra of BaO-P2O5 glasses	Wednesday, June 19	15:30–16:00	8
Kharitonova	Elena	RUSSIA	193	Phase formation of Ln2Hf2O7 (Ln = Nd, Dy) using mechanical activation method. Carbon in hafnates	Wednesday, June 19	14:30–15:00	9
Kourtidou	Dimitra	GREECE	628	Magnesium Doped Calcium Silicate Nanobioceramics for Hard Tissue Regeneration	Wednesday, June 19	15:00–15:30	9

Last Name	First Name	Country	Abstract ID	Abstract Title	Date	Time	TV No.
Majerová	**Melinda**	SLOVAKIA	513	Crystallization kinetics of gehlenite glass microspheres	Wednesday, June 19	15:30–16:00	9
Niemiec	**Przemysław**	POLAND	738	Electrophysical properties of the multiferroic PFN-ferrite composites obtained by spark plasma sintering and classical technology	Wednesday, June 19	14:30–15:00	10
Shlyakhtina	**Anna**	RUSSIA	163	Crystallization of Ln2Ti2O7 (Ln = Gd, Lu) using co-precipitation method: carbon in pyrochlores	Wednesday, June 19	15:00–15:30	10
Tranquillo	**Elisabetta**	ITALY	510	Thermal analysis and biological properties of hybrids based silica synthesized via sol–gel	Wednesday, June 19	15:30–16:00	10
Yatsenko	**Elena A.**	RUSSIA	747	Synthesis of glasses for obtaining fusible protective coatings for steel products	Wednesday, June 19	14:30–15:00	11
Cultural heritage							
Kavanová	**Mária**	CZECH REPUBLIC	1261	Investigation of clay minerals in archaeological ceramics by thermal analyses (STA, DIL) and IR	Wednesday, June 19	15:00–15:30	11
Vlase	**Titus**	ROMANIA	180	TG-DTA and FT-IR analyses of various samples of mortars from Deva region	Wednesday, June 19	15:30–16:00	11
Energetic materials							
Alagha	**Mohamed Sobhi**	HUNGARY	1255	Mixing of solid refused fuel particles in a bubbling fluidized bed: experimental and numerical studies	Wednesday, June 19	14:30–15:00	12
Khiari	**Karim**	ALGERIA	1260	Isothermal decomposition and kinetic analysis of gun propellants during aging	Wednesday, June 19	15:00–15:30	12
Majlingova	**Andrea**	SLOVAKIA	88	Results of study focusing the thermal and chemical properties of selected short-rotation tree and energy crop species	Wednesday, June 19	15:30–16:00	12
Miyake	**Atsumi**	JAPAN	17	Analysis on condensed phase reaction of aqueous hydroxylammonium nitrate using thermal measurements and kinetics	Thursday, June 20	14:30–15:00	2
Shiota	**Kento**	JAPAN	1056	Analysis on condensed phase reaction of aqueous hydroxylammonium nitrate using thermal measurements and kinetics	Wednesday, June 19	15:00–15:30	13
Yang	**Jun**	CHINA	1093	Thermoanalytical studies in the influence of the fuel component on the thermal and catalytic decompositions of HAN based monopropellants	Wednesday, June 19	15:30–16:00	13
Energy conversion and storage							
Honcova	**Pavla**	CZECH REPUBLIC	1092	Nitrate hydrates for thermal energy storage	Wednesday, June 19	15:00–15:30	14
Kim	**Dong-Hoon**	SOUTH KOREA	1254	Effect of salt addition on methane emissions during storage of pig slurry and subsequent biogas production	Friday, June 21	15:30–16:00	1

Last Name	First Name	Country	Abstract ID	Abstract Title	Date	Time	TV No.
Maczka	**Magda**	POLAND	1011	Phase composition, structural, microstructural and electrical properties of sol–gel prepared MeOx (Me=V, W, Zn) – carbon composites and their possible applications	Wednesday, June 19	15:30–16:00	14
Pelovski	**Yoncho**	BULGARIA	1006	Applying of thermal methods for low-carbon practices for decentralized resource utilization	Wednesday, June 19	14:30–15:00	15
Vourlias	**George**	GREECE	496	A study on high temperature oxidation resistance of undoped and doped higher manganese silicide powders prepared by pack cementation	Wednesday, June 19	15:00–15:30	15
Wu	**Kezhong**	CHINA	117	Thermal Performances of n-Alkylammonium Tetrachlorocuprate Eutectoid Mixtures as Phase Change Materials	Wednesday, June 19	15:30–16:00	15
Xu	**Fen**	CHINA	103	Synthesis and thermal properties of starch/polyethylene glycol copolymers for thermal energy storage	Wednesday, June 19	14:30–15:00	16
Exergy, Experimental thermodynamics							
Cheng	**Yu-Chi**	TAIWAN	708	Prediction and assessment of multiple tubes of fireworks by thermokinetics model	Wednesday, June 19	15:00–15:30	16
Lin	**Kuei Hua**	TAIWAN	597	Differences of isothermal calorimetry and liquid culture of synchronous conditions for saccharomyces cerevisiae fermentation	Wednesday, June 19	15:30–16:00	16
Ragula	**Udaya B.**	INDIA	1080	Efficiency Improvement in Solar Cogeneration using Microchannel Heat Exchangers	Wednesday, June 19	14:30–15:00	17
Shu	**Chi-Min**	TAIWAN	402	Inhibiting effects of ionic liquids of different anions on coal spontaneous combustion of lignite	Wednesday, June 19	15:00–15:30	17
Shu	**Chi-Min**	TAIWAN	405	Thermal stability analysis of benzotriazole as an additive in lithium-ion batteries	Tuesday, June 18	18:30–19:00	7
Sifaoui	**Hocine**	ALGERIA	870	Extraction of O-cresol and acetonitrile from water using an ionic liquid	Friday, June 21	14:30–15:00	13
Zhang	**Jian-Jun**	CHINA	109	Construction of lanthanide complexes based on 2,6-dimethylbenzoic acid and 5,5′-dimethyl-2,2′-bipyridine: Supramolecular structures, thermodynamic properties and luminescence	Wednesday, June 19	15:00–15:30	18
Fuels, biofuels							
Janković	**Marija M.**	SERBIA	322	Experimental study of low-rank coals using simultaneous TG-DTA techniques under air conditions and radiation level characterization	Wednesday, June 19	15:30–16:00	18

Last Name	First Name	Country	Abstract ID	Abstract Title	Date	Time	TV No.
Xiao	**Yang**	CHINA	360	The effect of [bmim][bf4] on low-temperature oxidation thermal characteristics of coal under different oxygen concentrations	Wednesday, June 19	14:30–15:00	19
Xiao	**Yang**	CHINA	357	Impact of humidity and oxygen concentration on thermophysical properties of coal	Wednesday, June 19	15:00–15:30	19
Geosciences and minerals							
Abdulagatov	**Ilmutdin**	RUSSIA	249	Heat transfer mechanism in oil saturated rock materials at high temperatures	Wednesday, June 19	15:30–16:00	19
Angelopoulos	**Panagiotis M**	GREECE	1242	Non-isothermal decomposition kinetics of hydrated volcanic glass (pitchstone)	Wednesday, June 19	14:30–15:00	20
Ganeeva	**Yulia**	RUSSIA	169	Thermal characteristics of asphaltenes to evaluate evolutionary processes in the oil reservoir	Wednesday, June 19	15:00–15:30	20
Plevova	**Eva**	CZECH REPUBLIC	183	Thermal analysis and FTIR spectroscopy of syntetic clay mineral mixtures	Wednesday, June 19	15:30–16:00	20
Stoyanova	**Vilma Petkova**	BULGARIA	1015	Impact of high energy milled activation on the thermal properties of Bulgarian and Estonian natural apatites	Thursday, June 20	14:30–15:00	1
Tine'	**Maria Rosaria**	ITALY	1236	Thermoanalytical Investigation on Natural Clayey Materials, Sands and Volcanic Ashes	Thursday, June 20	15:00–15:30	1
Heat Trasnfer							
Shin	**Dong Ho**	SOUTH KOREA	1177	Heat exchanger using the corona wind for heat recovery from hot gas	Thursday, June 20	15:30–16:00	1
Inorganic materials							
Miyake	**Atsumi**	JAPAN	17	Analysis on condensed phase reaction of aqueous hydroxylammonium nitrate using thermal measurements and kinetics	Thursday, June 20	14:30–15:00	2
Benavidez	**Edgardo R**	ARGENTINA	201	Replacement of fluorine in mould powders: Influence on the crystallization kinetics	Thursday, June 20	15:00–15:30	2
Dohnalová	**Žaneta**	CZECH REPUBLIC	145	The effect of dopants on synthesis and thermal stability of $BiFeO_3$ pigments	Thursday, June 20	15:30–16:00	2
Flerov	**Igor N.**	RUSSIA	1215	Conventional and inverse barocaloric effects around triple points in ferroelastics (NH4)3NbOF6 and (NH4)3TiOF5	Thursday, June 20	14:30–15:00	3
Kaljuvee	**Tiit**	ESTONIA	765	CO_2 mineralization by burnt oil shale and cement bypass dust: effect of operating temperature and pre-treatment	Thursday, June 20	15:00–15:30	3
Nikiforova	**Galina E.**	RUSSIA	307	Synthesis and calorimetric study of lantanide orthotantalates	Thursday, June 20	15:30–16:00	3

Last Name	First Name	Country	Abstract ID	Abstract Title	Date	Time	TV No.
Smirnova	**Maria**	RUSSIA	211	Gel combustion synthesis of ferrite nanopowders	Thursday, June 20	14:30–15:00	4
Voronkova	**Valentina**	RUSSIA	198	Synthesis and properties of oxygen-conducting phases LixLa5-xMo3O16.5–yFx (x = 0–1.6)	Thursday, June 20	15:00–15:30	4
Žemlička	**Matúš**	SLOVAKIA	33	Preparation of analcime via hydrothermal treatment	Thursday, June 20	15:30–16:00	4
Zvereva	**Irina**	RUSSIA	1249	Thermal study of organic-inorganic layered perovskite-type Bi-containing titanate	Thursday, June 20	14:30–15:00	5
Kinetics and catalysis							
Alfonso	**Belen F**	SPAIN	534	Thermal behavior and kinetic analysis of intercalated phases of alpha-titanium phosphate	Thursday, June 20	15:00–15:30	5
Angelopoulos	**Panagiotis M**	GREECE	1246	Non-isothermal decomposition kinetics of hydrated volcanic glass (pitchstone)	Thursday, June 20	15:30–16:00	5
Huidobro	**Jose A**	SPAIN	543	Kinetic analysis of the thermal decomposition of cerium(iv) phosphates	Thursday, June 20	14:30–15:00	6
Janković	**Marija M.**	SERBIA	1128	Thermal degradation kinetics of newly synthesized arylazo pyridone dyes	Thursday, June 20	15:00–15:30	6
Koga	**Nobuyoshi**	JAPAN	943	Kinetic extraction of the thermal decomposition steps of pigment molecules from the multistep thermal decomposition of Maya blue pigments	Thursday, June 20	15:30–16:00	6
Kosmal	**Magda**	POLAND	1137	The influence of vitreous waste entropy on sintering process	Wednesday, June 19	14:30–15:00	2
Kuśnierz	**Anna A.**	POLAND	1140	Influence of agglomeration of the glass set on the melting of sodium-calcium-silicate glass with increased content of substitute raw materials.	Wednesday, June 19	15:30–16:00	11
Madlala	**Nkosinathi Emmanuel**	SOUTH AFRICA	1047	Thermo-gravimetric analysis of bagasse fractions (Fibre and pith) for solid fuel beneficiation in boilers, stoves, and open fires	Friday, June 21	15:00–15:30	20
Manić	**Nebojša G.**	SERBIA	555	Computational approaches for modeling biomass pyrolysis: slow pyrolysis process of apricot kernel shells controled by non-isothermal simultaneous thermal analysis (STA)	Thursday, June 20	14:30–15:00	7
Petrov	**Ivan Y.**	RUSSIA	1105	Thermal Transformations of Molybdenum (VI) and Vanadium (V) Oxo-Species on the Surface of Gamma-Alumina Supported Molybdena- and Vanadia-Based Catalysts	Thursday, June 20	15:00–15:30	7

Last Name	First Name	Country	Abstract ID	Abstract Title	Date	Time	TV No.
Trobajo	**Camino**	SPAIN	529	Thermal behaviour of aluminum-iron-vanadium phosphates precursors of beige ceramic pigments	Thursday, June 20	15:30–16:00	8
Yakubov	**Alexey**	RUSSIA	525	Influence of the adjacent layers on the crystallization kinetics of Ge2Sb2Te5 thin films	Thursday, June 20	14:30–15:00	8
Life sciences							
Ferencz	**Andrea**	HUNGARY	466	Telling signs of plasma DSC thermograms on patients with psoriasis	Wednesday, June 19	14:30–15:00	14
Predoana	**Luminita**	ROMANIA	471	Comparative study of the thermal behaviour of Sr-Cu-O gels obtained by sol–gel and microwave assisted sol–gel methods	Thursday, June 20	15:30–16:00	9
Skoczowski	**Andrzej**	POLAND	1054	Effects of temperature on lifespan of drosophila melanogaster from different genetic backgrounds: links between metabolic rate and longevity	Thursday, June 20	14:30–15:00	9
Trębacz	**Hanna**	POLAND	657	Evaluation of collagen in saphenous vein on the basis of kinetic parameters of its thermal denaturation	Thursday, June 20	15:00–15:30	9
Materials science							
Belyaev	**Sergey**	RUSSIA	549	Martensite stabilization effect and the transformation enthalpy in the deformed NiTi shape memory alloys	Thursday, June 20	15:30–16:00	10
Chrysafi	**Iouliana**	GREECE	648	Mechanical and thermal properties of reinforced PMMA resin for interim fixed prostheses with β-pyrophosphate	Thursday, June 20	14:30–15:00	10
Dohnalová	**Žaneta**	CZECH REPUBLIC	286	Preparation and thermal study of perovskite based on $SrSnO_3$ doped by Mn-cations	Thursday, June 20	15:00–15:30	10
Farah	**Shereen F Ahmed**	HUNGARY	1218	Thermal Analysis of Graphene Oxide Derivatives	Thursday, June 20	15:30–16:00	11
Hirai	**Manami**	JAPAN	228	Trial of partial Na substitution for Li site in Li_4SiO_4 and CO_2 absorption/desorption property of Li_3NaSiO_4 at various CO_2 partial pressures	Thursday, June 20	14:30–15:00	11
Konieczny	**Jarosław**	POLAND	1081	Thermal analysis of EN AW-AlCu4Mg1(A) alloy matrix composite reinforced with Al_2O_3 particles	Thursday, June 20	15:00–15:30	11
Król	**Mariusz**	POLAND	715	The phase transitions in selective laser melted 18 Ni (300 grade) maraging steel	Thursday, June 20	15:30–16:00	12
Krzemiński	**Łukasz**	POLAND	1225	Thermal analysis of porous biomorphic TiC/C composite materials	Thursday, June 20	14:30–15:00	12
Krzemiński	**Łukasz**	POLAND	552	Thermal analysis of porous biomorphic TiC/C composite materials	Thursday, June 20	15:00–15:30	12

Last Name	First Name	Country	Abstract ID	Abstract Title	Date	Time	TV No.
Kustiningsih	**Indar**	INDONESIA	1180	Photocatalytic Degradation of Organic Waste in Visible light using TiO_2 Nanotubes Array	Tuesday, June 18	18:30–19:00	2
Matko	**Igor**	SLOVAKIA	264	Study of different water/dimethylsulfoxide mixtures in confined state	Thursday, June 20	15:30–16:00	13
Moreno	**Juan Carlos**	COLOMBIA	31	Enthalpic characterization of activated carbons with different surface chemistry with organic solvents and water	Thursday, June 20	14:30–15:00	13
Nakamura	**Takahiko**	JAPAN	460	Dielectric anomaly of ionic liquid, (C8mim)BF4, observed on stepwise heating: equilibrium time dependence	Thursday, June 20	15:30–16:00	14
Predoana	**Luminita**	ROMANIA	1197	Thermal behaviour of the TiO_2 powders obtained by microwave-assisted sol–gel method	Thursday, June 20	15:00–15:30	13
Snopiński	**Przemysław**	POLAND	340	Hot deformation behaviour of a heat treated $AlMg_3$ alloy	Thursday, June 20	14:30–15:00	14
Stankovic	**Branislav S**	SERBIA	375	Investigation of phase state of water adsorbed on poly (acrylic acid) hydrogel	Thursday, June 20	15:00–15:30	14
Šulcová	**Petra**	CZECH REPUBLIC	283	Bi-doped $PrFeO_3$ prepared using mechanical activation	Thursday, June 20	15:30–16:00	15
Šulcová	**Petra**	CZECH REPUBLIC	280	Characterization of thermal behaviour of pure and doped hydroxyapatite	Thursday, June 20	14:30–15:00	15
Szaldot	**Diana**	POLAND	1237	The effect of prolonging sintering time on dielectric and electric properties of six-layered aurivillius compound $Bi7Fe_3tTi3O21$	Tuesday, June 18	19:00–19:30	5
Tamura	**Kazuhiro**	JAPAN	1158	Optimization of supercritical carbon dioxide dyeing for plastic buttons	Thursday, June 20	15:00–15:30	15
Vlase	**Titus**	ROMANIA	189	Advances in a new multicomponent crystal system: synthesis, structure, thermal and kinetic investigations and biological activity	Thursday, June 20	15:30–16:00	16
Watanabe	**Keisuke**	JAPAN	598	Thermal and relaxation behavior of the ice in bovine serum albumin solution	Thursday, June 20	14:30–15:00	16
Zemenová	**Petra**	CZECH REPUBLIC	580	Characterisation of thermal properties of Cs2HfCl6 crystal by DSC-TG and TMA analyses	Thursday, June 20	15:00–15:30	16
Zygmuntowicz	**Justyna**	POLAND	57	Characterization of Al_2O_3-Cu-Mo hybrid composite	Thursday, June 20	15:30–16:00	17

Last Name	First Name	Country	Abstract ID	Abstract Title	Date	Time	TV No.
Metals, alloys, intermetallics							
Brandaleze	**Elena**	ARGENTINA	688	Thermal Analysis Techniques applied to determine the continuous cooling curve of DP-590 Steel	Thursday, June 20	14:30–15:00	17
Choi	**Se-Weon**	SOUTH KOREA	126	Effect of precipitation on the thermal properties of aluminum-silicon foundry alloy	Thursday, June 20	15:00–15:30	17
Jendrzejczyk-Handzlik	**Dominika**	POLAND	429	DTA/DSC measurements in Ag-Au-Ga system	Thursday, June 20	15:30–16:00	18
Kim	**Young-Chan**	SOUTH KOREA	153	Investigation on interface formation and linear thermal expansion of Fe/Al bimetal by high pressure die cast bonding	Thursday, June 20	14:30–15:00	18
Kim	**Yong Won**	SOUTH KOREA	132	Effect of intermetallic compound layer on thermal diffusivity of cast-bonded Al-Cu bimetal.	Thursday, June 20	15:00–15:30	18
Kim	**Yu-Mi**	SOUTH KOREA	129	Increase of thermal diffusivity with heat treatment in Al-Si-Mg alloys	Thursday, June 20	15:30–16:00	19
Konieczny	**Jarosław**	POLAND	157	Structure, properties and phase transformation of CuNi2Si alloyed copper	Thursday, June 20	14:30–15:00	19
Labisz	**Krzysztof**	POLAND	96	Thermal analysis of Ag-Ni-Cr alloy for transportation usage after fibre laser alloying	Thursday, June 20	15:00–15:30	19
Shin	**Gwang Yong**	SOUTH KOREA	334	Study of High-temperature Mechanical Properties and Thermal Diffusivity of H13-Deposited Material Fabricated through DED Process	Thursday, June 20	15:30–16:00	20
Timelli	**Giulio**	ITALY	666	Modification of eutectic Mg2Si phase in AlMg5Si2Mn alloy by Sr addition	Thursday, June 20	14:30–15:00	20
Nanofluid							
Bai	**Guangyue**	CHINA	751	Rheological and thermodynamic behavior of gemini/UMP hydrogel systems and their interaction with α- chymotrypsin enzyme	Thursday, June 20	15:00–15:30	20
Kamel	**Mohammed Saad**	HUNGARY	255	Pool boiling of nanofluid using heat flux partitioning model: CFD investigation	Friday, June 21	14:30–15:00	1
Thong	**Ba Le**	HUNGARY	1095	Study of synthesis, stability and thermal properties of carbon sphere based nanofluids	Tuesday, June 18	19:00–19:30	10
Thong	**Ba Le**	HUNGARY	1110	Investigation of thermal conductivity, viscosity, and zeta potential of tungsten trioxide based nanofluids	Wednesday, June 19	14:30–15:00	13

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Nanomaterials and composites							
Abdullah	**Thamer Adnan**	HUNGARY	949	Synthesis and Catalytic Activity Studies of α-MNO2 Nanorods, Rutile and Its Composites Prepared by Hydrothermal Method	Friday, June 21	15:00–15:30	1
Arribas	**Carmen**	SPAIN	609	Influence of temperature and bn nanoparticles on uv, thermal and dark curing of a cycloaliphatic epoxy resin	Tuesday, June 18	19:00–19:30	2
Běhálek	**Luboš**	CZECH REPUBLIC	940	Thermal properties and non-isothermal crystallization kinetics of biocomposites based on polylactide, rice husks, and cellulose fibers	Friday, June 21	14:30–15:00	2
Boruvka	**Martin**	CZECH REPUBLIC	958	Thermomechanical properties, morphology and non-isothermal crystallization of solid and microcellular biocomposites based on stereocomplexed polylactide and cellulose nonocrystals	Friday, June 21	15:00–15:30	2
Chrissafis	**Konstantinos**	GREECE	577	Impact of nanocrystalline cellulose on the properties of LLDPE	Friday, June 21	15:30–16:00	2
Havláková	**Jana**	CZECH REPUBLIC	960	STA/MS Investigation of Functionalized Graphene-Based 2D Materials	Friday, June 21	14:30–15:00	3
Kim	**Hern**	SOUTH KOREA	253	Cost-effective and green fabrication of 1D hollowed CNF spinel $NiCo_2O_4$ nanocomposite via dual nozzle electrospinning method	Friday, June 21	15:00–15:30	3
Laszlo	**Krisztina**	HUNGARY	832	Role of water molecules in the decompostion of HKUST-1	Friday, June 21	15:30–16:00	3
Migas	**Damian**	POLAND	568	Evaluation of thermal properties of MMCP composites with silver alloy matrix	Friday, June 21	14:30–15:00	4
Moga	**Ligia**	ROMANIA	624	Investigations on the thermal conductivity of aerogel insulation blankets – hygrothermal analysis	Friday, June 21	15:00–15:30	4
Moradi	**Sasan**	SPAIN	922	The thermal conductivity of epoxy-boron nitride composites: effect of particle shape	Friday, June 21	15:30–16:00	4
Nicoara	**Mircea**	ROMANIA	979	Thermal transformations during fabrication by reactive sintering of Al-based hybrid composites	Friday, June 21	14:30–15:00	5
Nowicka	**Katarzyna**	POLAND	1122	The effect of phase change materials on thermal properties of polyurthanesaccharides modified with magnetite	Friday, June 21	15:00–15:30	5
Nowicka	**Katarzyna**	POLAND	1116	Thermal properties and degradation kinetics of polyoxymethylene/functionalized hydroxyapatite compsites	Friday, June 21	15:30–16:00	5

Last Name	First Name	Country	Abstract ID	Abstract Title	Date	Time	TV No.
Plevova	Eva	CZECH REPUBLIC	300	Thermal behaviour of organically modified vermiculites	Friday, June 21	14:30–15:00	6
Prolongo	Margarita G	SPAIN	594	Influence of stoichiometry and graphene addition in a dynamic epoxy network	Friday, June 21	15:00–15:30	6
Psarras	Georgios C.	GREECE	852	Boron nitride/epoxy resin nanocomposites: development, characterization and functionality	Friday, June 21	15:30–16:00	6
Vourlias	George	GREECE	486	Effect of graphene nanoplatelets loading on the thermal properties of crosslinked polyethylene/graphene nanocom-posites	Friday, June 21	14:30–15:00	7
Zhang	Huanzhi	CHINA	100	Preparation and thermal performance of PEG/GO composite phae change materials by electrospinning	Friday, June 21	15:00–15:30M	7
Organic materials							
Drebushchak	Tatiana N.	RUSSIA	273	Structural similarity and similarity in thermal properties of the polymorphs of tolbutamide and chlorpropamide	Friday, June 21	15:30–16:00	7
Madarász	János	HUNGARY	1113	Thermal elimination study on pore-templating surfactants	Friday, June 21	14:30–15:00	8
Mothé	Michelle G	BRAZIL	423	Thermal Properties of Residue Composites from Coffee Capsules with Sugarcane Bagasse Fibers	Friday, June 21	15:00–15:30	8
Pharmaceuticals							
Cavalheiro	Eder T G	BRAZIL	673	On the polymerphism of metoprolol free base	Friday, June 21	15:30–16:00	8
Ferreira de Jesus	Jany Hellen	BRAZIL	783	Thermal decomposition mechanism of doxycycline	Friday, June 21	14:30–15:00	9
Garbacz	Patrycja	POLAND	178	Thermal study of lorazepam-nicotinamide co-crystals	Friday, June 21	15:00–15:30	9
Ibrahim	Yousif	HUNGARY	913	Effect of Plasticizer Type/Quantity on the Thermal Behavior of Acetic Acid and Citric Acid-Based Chitosan Films	Friday, June 21	15:30–16:00	9
Laszlo	Krisztina	HUNGARY	1227	Thermal degradation of crab shell biomass	Friday, June 21	14:30–15:00	10
Madarász	János	HUNGARY	1009	Compositional study on key intermediate salt with high diastereomeric excess from resolution of tofisopam, by elemental, 1H-NMR spectroscopic, and evolved gas (TG-MS, TG-FTIR) analyses	Friday, June 21	15:00–15:30	10
Terekhova	Irina	RUSSIA	459	Encapsulation of antirheumatic drugs in cyclodextrin-based metal-organic framework	Friday, June 21	15:30–16:00	10
Wesolowski	Marek	POLAND	76	Lorazepam-nicotinamide co-crystals formation via mechanical grinding	Friday, June 21	14:30–15:00	11

Last Name	First Name	Country	Abstract ID	Abstract Title	Date	Time	TV No.
Polymers							
Bai	**Guangyue**	CHINA	232	Synthesis and micellization of nonionic dendritic polyglycerol amphiphiles	Friday, June 21	15:00–15:30	11
Labisz	**Krzysztof**	POLAND	556	DSC characterisation of polymers used for 3D printing constructions	Friday, June 21	15:30–16:00	11
López Beceiro	**Jorge J.**	SPAIN	955	Melting and crystallization rates of three common feed polymers for fused deposition modelling	Friday, June 21	14:30–15:00	12
Majlingova	**Andrea**	SLOVAKIA	1206	Retardant Treated and Untreated Upholstery PUR Foams Fire Hazard Assessment Based on the Thermal Analysis and Cone Calorimetry Results	Friday, June 21	15:00–15:30	12
Morancho Llena	**Jose Maria**	SPAIN	304	Enhancement of the thermal and mechanical properties of 3D-printing formulations using dual-curing	Friday, June 21	15:30–16:00	12
Morancho Llena	**Jose Maria**	SPAIN	301	Dual-curing of an epoxy resin with dicarboxylic acids	Friday, June 21	14:30–15:00	20
Motoc Luca	**Dana**	ROMANIA	120	Fire behaviour of a cyanate-ester/epoxy blend based carbon/flax and basalt/flax hybrid composites	Tuesday, June 18	19:00–19:30	4
O'Mahony	**Charlie**	IRELAND	894	Determination of Thermal and Thermomechanical Properties of Biodegradable PLA Blends For 3D Additive Manufacturing Process	Friday, June 21	15:00–15:30	13
Sedov	**Igor**	RUSSIA	1221	FSC study of crystallization of cross-linked polycaprolactone	Friday, June 21	15:30–16:00	13
Szlachta	**Monika**	POLAND	1186	Polyurethanes modified with covalently functionalized hydroxyapatite for application in bone tissue engineering	Thursday, June 20	15:30–16:00	7
Tarrío-Saavedra	**Javier**	SPAIN	972	Applications of statistical modeling for TTS principle based on the shifting of curve derivatives	Friday, June 21	14:30–15:00	14
Wang	**Youhao**	CHINA	82	Effect of hydrogen-bond density on the crystallization kinetics of polyamides investigated by Flash DSC measurement	Friday, June 21	15:00–15:30	14
Pyrolysis							
Khiari	**Karim**	ALGERIA	435	Thermal behavior and kinetic study on the pyrolysis of waste engine oil	Friday, June 21	15:30–16:00	14
Lu	**Yi-heng**	CHINA	364	Organotin, calcium-zinc and titanium composites as reinforcing agents and its effects on the thermal stability of polyvinyl chloride	Friday, June 21	14:30–15:00	15
Petrov	**Ivan Y.**	RUSSIA	1119	Transformations of Barzas Coal during Its Thermal Treatments in Carbon Dioxide and Hydrogen Media	Friday, June 21	15:00–15:30	15

Last Name	First Name	Country	Abstract ID	Abstract Title	Date	Time	TV No.
Theory and instrumentation							
Fiurasek	**Petr**	CANADA	150	McGill Chemistry Characterization (MC2) facility	Friday, June 21	15:30–16:00	15
Markham	**Sarah Kate**	IRELAND	787	Mir imaging bundles of ordered silver halide polycrystalline fibres	Friday, June 21	14:30–15:00	16
Rodríguez de Rivera	**Manuel (M)**	SPAIN	297	Modeling and simulation of the operation of a calorimetric sensor for medical application	Friday, June 21	15:00–15:30	16
Thermal hazards, lifetime prediction							
Belák	**Michal**	SLOVAKIA	1024	DSC study of gamma radiation and temperature ageing of polyethylene cable insulation	Friday, June 21	15:30–16:00	16
Choi	**Yirac**	SOUTH KOREA	175	Thermal Hazard Evaluation of Tert-butyl Monoperoxymaleate by Calorimetric Technique	Thursday, June 20	15:00–15:30	8
Cibulková	**Zuzana**	SLOVAKIA	372	DSC study of antioxidant activity of keratin hydrolysates in polyethylene glycol	Friday, June 21	14:30–15:00	17
Lin	**Kuei Hua**	TAIWAN	441	Evaluation of thermal reaction for aibn and ambn by 20-l-apparatus and calorimetry	Friday, June 21	15:00–15:30	17
Liu	**Yi**	CHINA	868	Thermal hazards of 1,1-Di-Tert-Butylperoxy-3,3,5-Trimethylcyclohexane with impurities	Friday, June 21	15:30–16:00	18
Miyake	**Atsumi**	JAPAN	846	Thermal hazard analysis of polymerizing substances	Friday, June 21	14:30–15:00	18
Vykydalova	**Anna**	SLOVAKIA	382	High-pressure DSC study of coriander oil oxidative stability	Friday, June 21	15:00–15:30	18
Thermochemistry							
Huang	**Youwang**	CHINA	910	Sulfation performance of calcium-based sorbent in the presence of CO_2	Friday, June 21	15:30–16:00	19
Jacimovic	**Zeljko**	MONTENEGRO	1164	Synthesis, physico-chemical and thermal characterization of coordination compounds of Cu(II) with a pyrazole type ligand	Friday, June 21	14:30–15:00	19
Ribeiro da Silva	**Ana Luísa**	PORTUGAL	1141	Energetic and structural studies on biomass degradation compounds	Friday, June 21	15:00–15:30	19
Smirnova	**Maria**	RUSSIA	262	The use of thermal analysis to study the formation of garnet ferrite (Y0.5Bi0.5)3(Fe0.5Ga0.5)5O12	Friday, June 21	15:30–16:00	20

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Danubius Hotel Helia

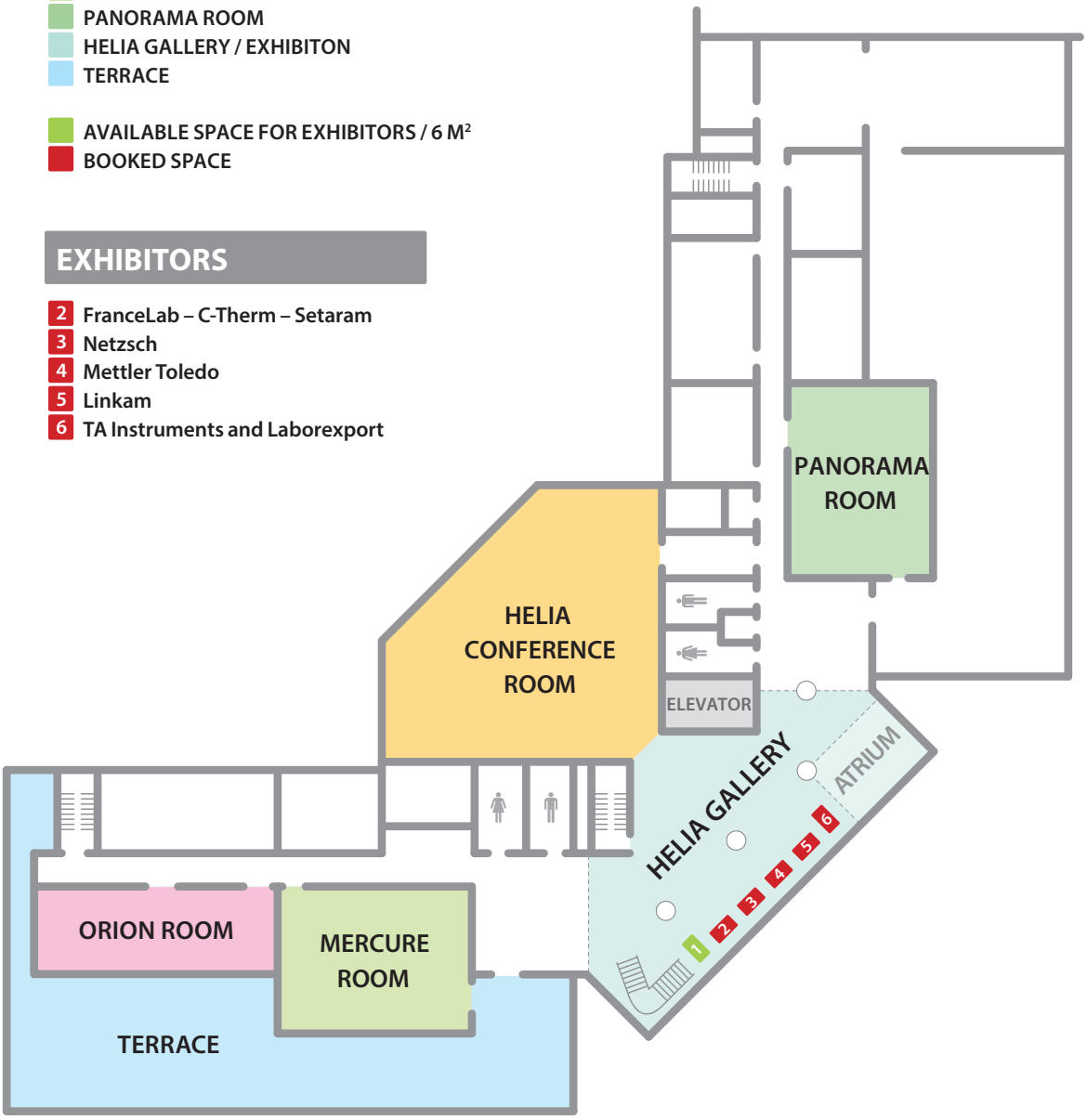
FLOOR PLAN OF THE VENUE

- HELIA CONFERENCE ROOM
- ORION ROOM
- MERCURE ROOM
- PANORAMA ROOM
- HELIA GALLERY / EXHIBITON
- TERRACE

- AVAILABLE SPACE FOR EXHIBITORS / 6 M²
- BOOKED SPACE

EXHIBITORS

2 FranceLab – C-Therm – Setaram
3 Netzsch
4 Mettler Toledo
5 Linkam
6 TA Instruments and Laborexport



Notes