

DETAILED PROGRAM

Sunday, June 26th

2:00-7:00	REGISTRATION
5:00-7:00	WELCOMING COCKTAIL HOTEL LE MONTAGNAIS

Monday, June 27th

8:30-9:30	CONFERENCE OPENING
TRANSIENT MEASUREMENT METHODS 1 ROOM RÉSERVE-CENTRE	
9:30-9:50	An Inverse Method for Experimental Determination of Temperature Dependent Thermal Conductivities and Specific Heat of Orthotropic Materials - Philippe Reulet and Gillian Leplat
9:50-10:10	Express Methods for Determination of Thermophysical Properties of Different Types of Materials within a Temperature Range of -150 to +1800°C – E. Litovsky, V. Issouпов, S. Horodetsky and J. I. Kleiman
10:10-10:30	Quantitative Evaluation on Effect of Black Coating for Laser Flash Measurement Megumi Akoshima, Masami Neda and Tetsuya Baba
10:30-10:50	COFFEE BREAK
TRANSIENT MEASUREMENT METHODS 2	
10:50-11:10	Advances in the use of Laser-Flash Techniques for Thermal Diffusivity Measurements at Very High Temperatures by the use of a High Speed Infrared Camera – L. Vlahovic, R. Konings, A. Küst and A. Dockendorf
11:10-11:30	Progress of Ultra Fast Laser Flash Method to Measure Thermophysical Properties of Thin Films Tetsuya Baba
11:30-11:50	Measurement Uncertainty Analysis for the Thermal Conductivity Test Method Using a Heat Flow Meter Apparatus Sam Yuan
12:00-1:15	LUNCH
1:30-2:30	LUCKS AWARD LECTURE <i>Thermophysical and Optical Properties from Room Temperature to 5000 °C</i> BORIS WILTHAN
MATERIAL PROPERTIES 1	
2:30-2:50	Measuring Thermal Diffusivity of Mechanical and Optical Grades of Polycrystalline Diamond using an AC Laser Calorimetry Method Toby D. Rule, Wei Cai, Hsin Wang
2:50-3:10	Prediction of the Thermal Conductivity of Ionic Liquids Based on Measurements with a Guarded Parallel Plate Instrument Michael Heinrich Rausch, Kamil Krzeminski, Alfred Leipertz, Daniel Assenbaum, Peter Wasserscheid and Andreas Paul Fröba
3:10-3:30	Thermophysical Properties of Pyrex 7740 Glass over the Temperature Range of -180°C to 450°C Robert C. Campbell, Ilir A. Beta and Michael G. Manuelian
3:30-3:50	COFFEE BREAK
MATERIAL PROPERTIES 2	
3:50-4:10	Measurement of the Thermal Conductivity of Bovine Serum Albumin Proteins Byoung Kyoo Park, Namwoo Yi, Jaesung Park and Dongsik Kim
4:10-4:30	Measuring the Thermal Conductivity of Dielectric Thin-Films with the Ultra-Fast-Transient-Hot-Strip Technique B.E. Belkerk, M.A. Soussou, M. Carette, M. A. Djouadi and Y. Scudeller
4:30-4:50	Dependance of Liquid Thermal Conductivity Giovanni Latini and Marco Sotte
4:50-5:10	Photothermal Investigations of Thermal Properties of Carbon Nanotubes based Composites P. Hus, M. Depriester, F. Roussel and A. Hadj Sahraoui
6:30-10:00	EVENING FREE / BOARD MEETING

Tuesday, June 28th

PLENARY SESSION 1	
8h30-9h30	<i>Transient Determination of Thermal Conductivity and Volumetric Heat Capacity Using Parameter Estimation Techniques</i> JAMES V. BECK
TRANSIENT MEASUREMENT METHODS 3 ROOM RÉSERVE-CENTRE	
9:30-9:50	Accuracy Analysis of the Transient Hot Ball Method for Measuring Thermophysical Properties L. Kubičár, U. Hammerschmidt, D. Fidriková, P. Dieška and V. Vretenár
9:50-10:10	Modified Slug Calorimeter Method for Testing High Temperature Insulations M.-A. Thermitus
10:10-10:30 COFFEE BREAK	
THERMAL EXPANSION	
10:30-10:50	Comparative Measurements of Thermal Expansion Coefficient for Concrete Anton Trnik, Igor Medved, Jan Ondruska and Robert Cerny
10:50-11:10	Finite Element Analysis of Thermal Properties of Composites Containing Negative Thermal Expansion Materials Carl P. Romao, Michael B. Jakubinek, Catherine A. Whitman and Mary Anne White
11:10-11:30	Dilatometric Method for the Determination of Internal Stresses in Metals and Alloys N.A. Minina, V. A. Ermishkin and I. I. Novikov
11:30-11:50	Synthesis and Investigation of Mixed Molybdate Compounds as Low Positive and Low Negative Thermal Expansion Materials Kimberly J. Miller, Mary Anne Whitea, Bojan A. Marinkovicb and Monica Ari
12:00-1:15 LUNCH	
PLENARY SESSION 2	
1:30-2:30	<i>Metrology of Heat Flux Density</i> TETSUYA BABA
STEADY-STATE MEASUREMENT METHODS	
2:30-2:50	Initial Measurement Results of the NIST 500 mm Guarded-Hot-Plate Apparatus under Automated Temperature and Pressure Control Robert R. Zarr and William C. Thomas
2:50-3:10	New Guarded Hot Plate Facility for Temperatures up to 1000 °C and Pressures from 10 ⁻⁸ to 10 ⁻² bar Kh. Raed and U. Gross
3:10-3:30	Metrological Traceability for Guarded-Hot-Plate Apparatus Robert R. Zarr
3:30-4:00 COFFEE BREAK	
WORKSHOP	
4:00-5:30	Application of Inverse Methods In Heat Transfer Introductory lecture : <i>Determination of Surface Heat Fluxes from Transient Interior Temperature Measurements</i> JAMES V. BECK
5:00-6:00 EXHIBITS / POSTER SESSION 1 ROOM TOTEM	
6:30-10:00 SOCIAL EVENT AT "LA VOIE MALTÉE" – MICROBREWERY AND PUB OF SAGUENAY	

Wednesday, June 29th

PLENARY SESSION 3	
8:30-9:30	<i>Testing Thermal Insulating Materials at the National Institute of Standards and Technology: A Historical Perspective from 1901 to 2011</i> ROBERT R. ZARR
MATERIAL PROPERTIES 3 ROOM RÉSERVE-CENTRE	
9:30-9:50	Numerical and Experimental Thermal Analysis of PCM-Enhanced Insulations and Board Products Jan Košny, Bryan Urban, David Yarbrough and E. Kossecka
9:50-10:10	Thermo-mechanical Characterization of the Ramming Paste used in an Aluminium Electrolysis Cell S. Tremblay, L. St-Georges and L. I. Kiss
10:10-10:30 COFFEE BREAK	
MATERIAL APPLICATION	
10:30-10:50	Thermal Conductivity of Metal Powders During Sintering Under Technological Relevant Heating Rates W. Hohenauer, D. Lager and I. UI Mohsin
10:50-11:10	Thermal Conductivity Enhancement of Cu-Ni-Si Alloys by Titanium Addition and Thermomechanical Treatment Kwangjun Euh and Seung Zeon Han
11:10-11:30	Thermal Model of Area and Edge Losses for Vacuum Insulation Panels using Tensile Supports and a Stainless Steel Foil Exterior Alan Feinerman, Tatjana Dankovic and David Yarbrough
11:30-11:50	Sol-Gel Deposited Highly Transparent Electrically Conductive and Infrared Reflective Metaloxide Thin Films to Improve Thermal Comfort and to Reduce Thermal Emittance - Matthias Rydzek, Reidinger Matthias, Mariacarla Arduini-Schuster and Jochen Manara
12:00-1:15 LUNCH	
PLENARY SESSION 4	
1:30-2:30	<i>How to Measure Thermal Conductivity with a Thermometer</i> U. HAMMERSCHMIDT, L. VOELKEL AND M. ABID
TRANSIENT MEASUREMENT METHODS 4	
2:30-2:50	Thermal Diffusivity and Conductivity with a Dilatometer Ernest G. Wolff
2:50-3:10	Comparison between Peltier Element Driven AC Calorimetry and Adiabatic Scanning Calorimetry Jan Leys, Christ Glorieux and Jan Thoen
3:10-3:30	Application of Laser-Flash Method to Porous Media – Problems and Challenges – Kh. Raed and U. Gross
3:30-3:50 COFFEE BREAK	
TRANSIENT MEASUREMENT METHODS 5	
3:50-4:10	Application of the Modified Transient Plane Source Technique in Testing the Thermal Conductivity of Concrete Adam Harris and Dina Kuvandykova
4:10-4:30	Development of a Dynamic Test Protocol for Thermal Property Measurements Using the Heat Flow Meter Apparatus Stephen E. Smith, Therese K. Stovall, Kenneth Childs
4:30-4:50	Enhancement of the Thermal Conductivity of Phase Change Materials for Thermal Energy Storage for Concentrating Solar Power M. L. Olsen, S. Phok, D. S. Ginley and P. A. Parilla
4:30-5:30 EXHIBITS / POSTER SESSION 2 ROOM TOTEM	
6:00-10:00 BANQUET : DRINKS AND HORS D'OEUVRES ON THE "MARJOLAINE" CRUISE SHIP	

Thursday, June 30th

PLENARY SESSION 5	
<i>Thermodynamic Modeling of the Al-NaF-AlF₃-CaF₂-Al₂O₃ System for Alumina Reduction Cells</i>	
PATRICE CHARTRAND	
MODELLING	
ROOM RÉSERVE-CENTRE	
8:30-9:30	
9:30-9:50	Modeling of Thermal Conductivity of Moist Materials Piotr Furmanski, Tomasz Wisniewski and Piotr Lapka
9:50-10:10	Effect of Knudsen Number on Effective Thermal Conductivity of Two-Phase Materials K. S. Reddy and Vikram Singh
10:10-10:30 COFFEE BREAK	
GENERAL	
10:30-10:50	An "In Silico Method" to Predict the Thermal Conductivity in Insulating Crystals Aimen E. Gheribi and Patrice Chartrand
10:50-11:10	Lattice Thermal Properties of Disordered Alloys: A Theoretical Approach Rajiv Kumar Chouhan, Aftab Alam and Abhijit Mookerjee
11:10-11:30	Thermal Degradation Behavior of a Novel Nanocomposite based on Glycerol Diglycidyl Ether / 3,3-Dimethylglutaric Anhydride / Nano-Al ₂ O ₃ - Abbas Ali Rostami, Abdollah Omrani and Fatemeh Ravari
11:30-11:50	Heat Transfer by Convection and Radiation under High Temperature Gradients Anton Trnik, Igor Medved, Jozef Kovac, Eva Vejmelkova and Robert Cerny
12:00-1:15 LUNCH	
1:30-3:00 LABORATORY VISITS	
UNIVERSITÉ DU QUÉBEC À CHICOUTIMI	
3:30-5:00 CLOSING COCKTAIL AND AWARDS CEREMONY AT "THE PULPERIE"	

List of poster presentations

POSTER SESSION 1 – Tuesday , 5:00-6:00 / POSTER SESSION 2 – Wednesday, 4:30-5:30	
1	A New Transient Method to Measure Thermal Conductivity of Asphalt Adam Harris and Dina Kuvandykova
2	Gas Pressure and Temperature Impact on the Thermal Conductivity of Materials for Satellites, Spacecraft, and Protective Structures of Surface-landed and Re-entry Space Vehicles - E. Litovsky, V. Issouпов, S. Horodetsky and J. I. Kleiman
3	Influence of Transformer Oil Decay Products on its Thermal Conductivity L. Loïselle, I. Fofana and D. Hume
4	Measurement of the temperature dependence of thermal conductivity of thermally-treated wood Sándor Poncsák, László Kiss, Duygu Kocaefe and Dominique Delisle
5	Simultaneous Identification of Temperature Dependent Thermophysical Properties from Transient Temperature History by Genetic Algorithm Balázs Czél and Gyula Gróf
6	Temperature Conductivity of Hydrazine Hydrate at the Concentration of Nano-Catalic Ti ₂ O ₃ M.A. Zariپova, N. Minina, H.A. Zoirov, S.A. Tagoev, T.R. Tilloeva, M. M. Safarov and A. F. Toshov
7	Thermal conductivity of salt mixtures Rémi St-Pierre, László I. Kiss, Patrice Chartrand, Alexandre Perron and Sándor Poncsák
8	Thermophysical Study by DSC of Several α - and β -Amino Acids María Victoria Roux, Rafael Notario, Marta Segura, James S. Chickos, Ramón Guzmán-Mejía and Eusebio Juaristi