

TIMETABLE - HSP1 - MORNING

Wednesday, 06.09.2017

morning

09:00 - 09:45	Plenary Lecture 1: <i>Andreas Mandelis</i>
	PHOTOTHERMAL COHERENCE TOMOGRAPHY: PRINCIPLES AND APPLICATIONS OF A NEW THERMOPHYSICS-BASED THREE-DIMENSIONAL IMAGING METHODOLOGY
	Chair: W. Wakeham
09:45 - 10:05	<i>Coffee</i>
	Oral Session 5: <i>Transport Phenomena</i>
	Chair: A. Fröba, V. Shevtsova
10:05 - 10:25	VISCOSITY MEASUREMENTS OF PURE N ₂ , CO ₂ AND THEIR MIXTURES OVER WIDE DENSITY AND TEMPERATURE RANGES
	K. Humberg, M. Richter, J. P. M. Trusler, R. Span
10:25 - 10:45	MEASUREMENT OF THERMODIFFUSION IN CAB/STYRENE/ 2-BUTANONE BY SORET FORCED RAYLEIGH SCATTERING
	H. Matsuura, Y. Nagasaka
10:45 - 11:05	LIQUID VISCOSITY AND SURFACE TENSION OF FISCHER-TROPSCH SYSTEMS USING SURFACE LIGHT SCATTERING (SLS)
	T. Klein, T. M. Koller, C. Giraudet, J. Chen, A. Kalantar, G. P. van der Laan, M. H. Rausch, and A. P. Fröba
11:05 - 11:25	DEPENDENCE OF THE FICK DIFFUSION COEFFICIENTS OF TERNARY BENZENE-ACETONE-ALCOHOL MIXTURES ON THE NUMBER OF METHYLENE GROUPS IN THE ALCOHOL
	V. Shevtsova, Y. Gaponenko, T. Janzen, G. Guevara-Carrion, J. Vrabec
11:25 - 11:45	THERMAL PROPERTIES OF INORGANIC PCM SYSTEMS: THERMODYNAMIC MODELING AND EXPERIMENTAL METHODS
	MartinWels, Anastasia Efimova, Peer Schmidt
11:45 - 12:05	VISCOSITY AND DENSITY MEASUREMENTS ON COMPRESSED LIQUID <i>n</i> -TETRADECANE
	T. V. M. Santos, H. M. N. T. Avelino, F. J. P. Caetano, J. M. N. A. Fareleira
12:05 - 12:25	DIFFUSION OF HYDROCARBONS IN CO ₂ AT HIGH PRESSURE
	S. Ancherbak, J. C. Legros, A. Mialdun, V. Shevtsova
12:25 - 12:45	MEASUREMENTS OF MASS DIFFUSION APPROACHING CRITICAL POINT
	A. Mialdun, S. Zhang, M. He, V. Shevtsova

TIMETABLE - HS P2

Wednesday, 06.09.2017

morning

Oral Session 5: Emittance, Emissivity	
Chair: J. Hartmann, K. Boboridis	
10:05 - 10:25	<p>RADIATION RATIO THERMOMETRY ON MIXED BLACK-NONBLACK TARGETS</p> <p>K. Boboridis, A. Quaini, S. Gossé, T. Alpettaz</p>
10:25 - 10:45	<p>HIGH TEMPERATURE TEST-RIG FOR EMISSIVITY AND NON-CONTACT TEMPERATURE MEASUREMENTS</p> <p>J. Manara, T. Stark, M. Zipf, M. Arduini, H.-P. Ebert, J. Hartmann</p>
10:45 - 11:05	<p>SPECTRAL AND HEMISPHERICAL EMISSIVITY IN NEW AIR-RESISTANT SELECTIVE ABSORBERS</p> <p>T. Echániz1, I. González de Arrieta, R. Fuente, H. C. Barshilia, G. A. López, M. J. Tello</p>
11:05 - 11:25	<p>DEVELOPMENT OF A SAMPLE HOLDER FOR THE EMISSIVITY MEASUREMENT OF SEMITRANSSPARENT MATERIALS</p> <p>J. Gieseler, C. Monte, A. Adibekyan, R. Kersting, J. Hollandt</p>
11: 25 - 11:45	<p>DIRECTIONAL ROADWAY EMISSIVITY MEASUREMENT FOR ROAD SURFACE TEMPERATURE MEASUREMENT</p> <p>N. Lalanne, M. Marchetti, L. Ibos, J. P. Monchau, B. Saintot</p>
11:45 - 12:05	<p>EMISSIVITY ESTIMATION IN BUILDING APPLICATIONS</p> <p>R. Derbal, A. Sempey, T. Wu-Vogt, Y. Yang, D. Charles</p>
12:05 - 12:25	<p>A FACILITY FOR HIGH TEMPERATURE EMITTANCE WITH EMPHASIS ON SELECTIVE LASER MELTING</p> <p>S. Grantham, L. M. Hanssen, S. N. Mekhontsev, C. Zarobila</p>
12:25 - 12:45	<p>NEW FACILITY FOR THE MEASUREMENT OF THE HIGH TEMPERATURE SPECTRAL EMISSIVITY AT NIM</p> <p>Dong Wei, Pan Yijie, Yuan Zundong, Lin Hong</p>
12:45 - 13:05	<p>A NEW EMISSIVITY MEASUREMENT PREDICTION ROUTE FOR COAL DEPOSIT SYSTEM</p> <p>YZ Chai, HT Yu, W Dong, JH Wang, YY Duan, Z Yang</p>

TIMETABLE - HS BE01

Wednesday, 06.09.2017

morning

Oral Session 5: Instrumentation and Measuring Techniques III

Chair: S. Vidi, D. Urban

10:05 - 10:25	INFLUENCE OF DIFFERENT LEVITATION TECHNIQUES ON THE "OSCILLATING DROP" MEASUREMENT METHOD
	G. Lohöfer
10:25 - 10:45	APPLICATION OF DUAL-WAVELENGTH REFLECTANCE-RATIO METHOD TO HIGHTEMPERATURE METALS
	Yuma Kurokawa, Hidekazu Kobatake, Hiroyuki Fukuyama, Yoshiro Yamada, Naohiko Sasajima and Yu Yamagichi
10:45 - 11:05	RECENT DEVELOPMENTS IN THE DYNAMIC EMISSIVITY MEASUREMENT ABOVE 1000 K
	D. Urban, K. Anhalt, D. R. Taubert
11:05 - 11:25	CALVET CALORIMETER CALIBRATION AND HEAT CAPACITY MEASUREMENT FROM -180 °C TO 190 °C
	Daeho Kim, Suyong Kwon, and Joohyun Lee
11:25 - 11:45	ACCURATE AND HIGH-RESOLUTION MEASUREMENTS OF THE SPECIFIC HEAT CAPACITY AND ENTHALPY BY PELTIER-ELEMENT-BASED ADIABATIC SCANNING CALORIMETRY (PASC)
	J. Thoen, J. Leys and C. Glorieux
11:45 - 12:05	VALIDATION AND PERFORMANCE CHECKS OF THE NPL SMALL GRADED HOT PLATE APPARATUS
	D. Moore, J. Wu, C. Stacey, A. Simpkin
12:05 - 12:25	INVESTIGATION OF THE THERMAL DIFFUSIVITY OF WATER AT FREEZING AND MELTING BY TEMPERATURE OSCILLATION
	A. J. Panas, Ł. Omen, R. Szczepaniak, W. Stryczniewicz
12:25 - 12:45	APPLICATION OF A COMMERCIAL DENSIMETER TO COMPARE SORPTION PHENOMENA ON POROUS AND NONPOROUS MEDIA
	X. Yang, M. A. Ben Souissi, R. Kleinrahm, M. O. McLinden, M. Richter
12:45 - 13:00	IMPROVEMENT OF MEASUREMENT SENSITIVITY OF OPTICAL HAND-HELD VISCOSITY SENSOR
	M. Eguchi, Y. Taguchi, and Y. Nagasaka

TIMETABLE - HS BMT

Wednesday, 06.09.2017

morning

Oral Session 5: **Nanomaterials**

Chair: L. W. Sprengel

10:05 - 10:25	HEAT CAPACITIES AND EXCESS ENTROPIES OF BULK AND NANO $\text{Fe}_3\text{O}_4\text{-Co}_3\text{O}_4$ AND $\text{Fe}_3\text{O}_4\text{-Mn}_3\text{O}_4$ SPINEL SOLID SOLUTIONS
	B. F. Woodfield, J. M. Schliesser, B. Huang, S. K. Sahu, and A. Navrotsky
10:25 - 10:45	ELECTRICAL, THERMAL AND SURFACE PROPERTIES OF HDPE/AG NANOCOMPOSITES
	Tuba Evgin, Zdenko Spitalsky, Igor Novak, Maria Omastová, Ismail Hakkı Tavman
10:45 - 11:05	THERMOPHYSICAL PROPERTIES OF POLYMER NANOCOMPOSITES REINFORCED WITH CONDUCTIVE FILLERS
	Ismail Tavman and Tuba Evgin
11:05 - 11:25	INFLUENCE OF NANOPARTICLES ON THE THERMOPHYSICAL PROPERTIES OF INORGANIC NITRATE SALTS FOR THERMAL ENERGY STORAGE APPLICATIONS
	Nithiyanantham Udayashankar, Yaroslav Grosu, Luis González Fernández, Abdessamad Faik
11:25 - 11:45	ENHANCEMENT OF THE RADIATIVE AND THE CONVECTIVE HEAT DISSIPATION PROPERTIES BY THE CARBON NANOTUBES
	Guang Zhang, Wei Yao
11:45 - 12:05	SURFACTANT-ASSISTED DISPERSION OF CARBON NANOTUBES IN EPOXY RESIN TO ENHANCE CARBON FIBRE REINFORCED POLYMER COMPOSITES PERFORMANCE
	Jessica Rocha, Marta Martins, Raquel Santos, Nuno Rocha

TIMETABLE - HS PHEG016

Wednesday, 06.09.2017
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Oral Session 5: **Engineering Applications**

Chair: L. Mitterhuber, R. Cerny

10:05 - 10:25	PROPERTY NEEDS FOR THE LOW-GWP REFRIGERANTS M. O. McLinden, F. Flohr
10:25 - 10:45	TEMPERATURE-DEPENDENT HEAT PATH ANALYSIS OF A LED MODULE L. Mitterhuber, S. Defregger, R. Hammer, J. Magnien, F. Schrank, S. Hörth, M. Hutter, E. Kraker
10:45 - 11:05	MILESTONE THERMODYNAMICS OF THE RENEWABLE FUELS AND HYDROGEN STORAGE S. P. Verevkin, A. A. Pimerzin
11:05 - 11:25	HEAT AND MOISTURE TRANSPORT AND STORAGE PARAMETERS OF BRICKS AFFECTED BY THE ENVIRONMENT M. C áchová, D. Konáková, E. Vejmelková, M. Keppert, V. Koci, and R. Cerny
11:25 - 11:45	EXPERIMENTAL MODEL DESIGN AND NUMERICAL VERIFICATION OF AERO-THERMAL STRUCTURAL INTERACTION Xiangren GENG, Lei LIU, Guangyue DAI, Lei ZENG, Yewei GUI
11:45 - 12:05	IMPACT OF COUPLING INDUCED STRUCTURAL DEFORMATION ON HYPERSONIC TRAJECTORY Yi Feng, Guangyue Dai, Shenshen Liu, Lei Zeng, Wei Tang, Yewei Gui
12:05 - 12:25	LIGHTWEIGHT DESIGN OF INTEGRATED THERMAL PROTECTION SYSTEM WITH NON-UNIFORM HEAT FLOW LOAD Yewei Gui, Dong Wei, Yanxia Du, Youan Shi