

## 9<sup>th</sup> International Workshop on Subsecond Thermophysics Workshop Schedule

Wednesday, 09/22/2010

<b>OPTICAL IMAGING / Chair: R. Hixson</b>	
08:30 – 09:05	<b>R. B. Dinwiddie</b> , H. Wang <i>Imaging heat</i>
09:05 – 09:30	<b>T. Tatarczyk</b> <i>High-speed imaging</i>
09:30 – 09:55	<b>E. Kaschnitz</b> , P. Hofer <i>Comparison between numerical simulations of high-speed (millisecond) measurements and fast IR - imaging</i>
<b>HIGH TEMPERATURE MEASUREMENT - PYROMETRIE / Chair: B. Wilthan</b>	
10:15 – 10:40	J. Hartmann, <b>K. Anhalt</b> , F. Edler <i>High-temperature fixed-points for improved temperature metrology above 1100°C</i>
10:40 – 11:05	<b>K. Boboridis</b> Application-driven radiation thermometer design
11:05 – 11:30	<b>A. Seifert</b> , A. W. Obst <i>Pyrometric temperature measurements in shock physics experiments</i>
11:30 – 11:55	F. De Bruycker, <b>D. Manara</b> , K. Boboridis, J.-C. Rifflet, F. Millot <i>UV and VIS pyrometry measurements of high-temperature melting points</i>
11:55 – 12:20	<b>K. Anhalt</b> , S.M. Sarge, R. Pagel, J. Hartmann, A. Schindler, T. Denner <i>Eutectic high-temperature fixed-points for DSC/DTA</i>
12:20 – 12:45	<b>D. Reichel</b> , W. Skorupa <i>Temperature measurement during ultra-short time annealing</i>
<b>NEW TECHNIQUES / Chair: M. Boivineau</b>	
14:00 – 14:25	V. Sarou-Kanian, J.-C. Rifflet, <b>F. Millot</b> <i>UV versus visible pyrometries of refractory oxides</i>
14:25 – 14:50	<b>S. Krenek</b> , K. Anhalt, A. Lindemann, J. Hollandt, J. Hartmann <i>Dynamic emissivity measurement: First results</i>
14:50 – 15:15	<b>C. Cozzo</b> , K. Ishizaki, J.-M. Catala-Civera, M. Stir, R. Nicula, S. Vaucher, M. Pouchon <i>Internal gelation of a cerium based gel solution by microwave heating</i>
15:15 – 15:40	<b>E. Ricci</b> , D. Giuranno, N. Sobczak <i>New procedure to measure the surface tension of high melting metals</i>
15:40 – 16:05	<b>U. Hammerschmidt</b> <i>Thermal penetration depth and penetration time in transient experiments</i>
<b>PHASE TRANSITIONS / Chair: H. Watanabe</b>	
16:25 – 16:50	<b>A. N. Emelyanov</b> , D. N. Nikolaev, A. A. Pyalling, V. Ya. Ternovoi <i>Study of the near-critical point states of liquid - vapor phase transition of metals under isentropic expansion of shock-wave compressed porous samples</i>
16:50 – 17:15	<b>A. D. Rakhel</b> <i>On the metal-nonmetal transition in fluid aluminum</i>
17:15 – 17:40	<b>I. Iosilevskiy</b> <i>Non-congruent phase transitions in high-temperature compounds</i>

Thursday, 09/23/2010

<b>LEVITATION I / Chair: F. Millot</b>	
08:30 – 09:05	<b>I. Egry</b> <i>Containerless processing for thermophysical property measurements of liquid metals: Review and outlook</i>
09:05 – 09:30	<b>R. K. Wunderlich</b> <i>Surface tension and viscosity of Raney-NiAl catalytic precursor alloys from microgravity experiments</i>

09:30 – 09:55	<b>S. Amore</b> , J. Brillo, R. Novakovic, I. Egry <i>Surface tension of liquid Cu-Ti alloys measured by EML technique</i>
<b>LEVITATION II / Chair: I. Egry</b>	
10:10 – 10:35	<b>L. Hennet</b> , A. Bytchkov, J. Drewitt, M. Leydier, J. Kozaily, S. Magazù, V. Cristiglio, S. Brassamin, D. Zanghi, H. E. Fischer, D. L. Price <i>Structural study of Calcium-Aluminosilicate melts during the glass transition</i>
10:35 – 11:00	<b>D. Grishchenko</b> , P. Piluso <i>Recent progress in the gas-film levitation as a method for thermophysical properties measurements</i>
11:00 – 11:25	<b>G. Lohöfer</b> , G. Pottlacher <i>Inductive measurement of thermophysical properties of electromagnetically levitated metallic melts</i>
<b>LASER TECHNIQUES / Chair: U. Hammerschmidt</b>	
11:30 – 11:55	<b>Y. W. Kim</b> , R. P. Cress <i>Physical mechanisms contributing to thermal history dependence of thermophysical properties of disordered metallic alloys</i>
11:55 – 12:20	<b>K. Boboridis</b> , F. de Bruycker, D. Manara, F. Chretien, M. Malki <i>Impact of the size-of-source effect in laser heating experiments</i>
<b>LASERFLASH / Chair: Y. Kim</b>	
14:00 – 14:25	<b>J. Blumm</b> , A. Lindemann <i>Thermophysical properties measurements at temperatures up to 2800°C using the flash technique</i>
14:25 – 14:50	<b>W. Hohenauer</b> , D. Lager, I. Ul Mohsin <i>Thermal diffusivity of powder materials during sintering process</i>
14:50 – 15:15	<b>P. Hofer</b> , E. Kaschnitz <i>Thermal diffusivity of the aluminum alloy Al-10Si-Mn-Mg (Silafont 36) in the solid and liquid states</i>

Friday, 09/24/2010

<b>PROPERTIES / Chair: C. Cagran</b>	
09:00 – 09:25	<b>H. Watanabe</b> <i>Thermophysical properties of high-density isotropic graphite and glass-like carbon at elevated temperatures</i>
09:25 – 09:50	<b>U. E. Klotz</b> , C. Cagran, S. Mehmood, G. Pottlacher <i>Thermophysical properties of platinum alloys</i>
09:50 – 10:15	<b>N. D. Milošević</b> , I. D. Aleksić <i>Thermophysical properties of solid-phase ruthenium in a wide temperature range</i>
<b>PULSE-HEATING I / Chair: K. Boboridis</b>	
10:35 – 11:00	<b>M. Boivineau</b> <i>Thermophysical properties of solid and liquid pure and alloyed Pu: A review</i>
11:00 – 11:25	<b>D. Varentsov</b> , A. Fedenev, A. Fertman, V. E. Fortov, A. A. Golubev, D. H. H. Hoffmann, A. Hug, B. Ionita, A. Kantsyrev, A. Khudomyasov, M. Kulish, J. Ling, N. Markov, <i>High energy density physics experiments with intense heavy ion beams at GSI and FAIR</i>
11:25 – 11:50	<b>A. Schmon</b> , H. Reschab, T. Hüpf, J. Rattenberger, G. Lohöfer, G. Pottlacher <i>Thermophysical characteristics of CuMnNi alloys in the temperature range from 400 to 2000 K</i>
11:50 – 12:15	<b>T. Hüpf</b> , G. Pottlacher <i>Thermal expansion of Ir, Pd, Pt, and V obtained within fast pulse-heating experiments</i>
12:15 – 12:40	<b>V.I. Yanchuk</b> , A.M.Knyazkov, S.D Kurbakov., A.I.Savvatimskiy, M.A. Sheindlin <i>Fast pulse heating application for investigation carbides' melting</i>
<b>PULSE-HEATING / Chair: E. Kaschnitz</b>	
14:00 – 14:25	<b>B. Wilthan</b> , G. Pottlacher <i>Ellipsometry on pulse heated liquid alloys: Normal spectral emittance at 684.5 nm, electrical resistivity and enthalpy</i>
14:25 – 14:50	<b>H. Reschab</b> , M. Hafok, M. Hausbauer, R. Tanzer, W. Schützenhöfer, W. Hohenauer, G. Pottlacher <i>Thermal diffusivities for a HS2-9-1-8 steel obtained with laserflash and calculated from Wiedemann-Franz law – a comparison</i>
14:50 – 15:15	<b>D. Nikolaev</b> , A. Fedenev, A. Fertman, A. Golubev, D.H.H. Hoffmann, A. Hug, B. Ionita, A. Kantsyrev, A. Khudomyasov, M. Kulish, J. Ling, N. Markov, V. Mintsev, A. Pyalling, N. Shilkin, V. Ternovoi, V. Turtikov, S. Udrea, A. Ulrich, D. Varentsov, K. Weyrich, D. Yuriev, Y. Zhao <i>Heavy-ion beam heated tantalum and tungsten near melting</i>
15:15 – 16:00	<b>R. S. Hixson</b> <i>A brief history of the Isobaric Expansion Experiment, and some interesting results</i>