

Nineteenth Symposium on Thermophysical Properties

PROGRAM REVISIONS

As of: Tuesday, June 23, 2015

Program corrections and changes are shown below, as far as known to the organizers on June 23, 2015. Further changes *may* be distributed daily to each session room prior to the start of the first morning session, as well as posted on the conference website.

MONDAY

Photothermal and Photoacoustic Techniques 3 (p.19, 20)

Withdrawn; converted to poster [#143b]: Nondestructive Evaluation of the Thermoelastic Properties of Contact Lenses by Photothermal Deflection Technique, *Grigore Leahu, Roberto Li Voti*, Alessandro Maurizi, Concita Sibia, Nicola Pescosolido and Anna Maria Giusti*

Time change: Resolution Limits for Investigating Layered Structures with AFMIR as a Function of Depth, *Peter Burgholzer*, Bernhard Lendl, Georg Ramer, and Ferry Kienberger*
New time: 7:55 PM

Time change: Development of Measurement Technique of Thermal Contact Resistance at Bump Joint in Flip Chip Assembly Structure using Photothermal Reflectance Method in High Temperature Storage Test, *Hiroshi Yamamoto*, Minoru Kato, Yoshihiro Taguchi and Yuji Nagasaka*
New time: 8:15 PM

Time Change: Photoacoustic Monitoring of Water Transport Process in Calcareous Stones Coated with Exopolymers, *José Fernando May-Crespo, Benjamin Ortega-Morales, Patricia Quintana-Owen, Juan José Alvarado-Gil*, Pablo-Genaro Martínez-Torres, Juan C Camacho-Chab, and Gerardo González-García*
New time: 8:35 PM

TUESDAY

Fluid Property Measurements 4 (p. 24)

Chair change: this session will be chaired by *Keith Gillis* and *Arno Laesecke*

Fluid Property Measurements 6 (p.39,40)

Speaker change: The Measurement of Argon Viscosities by Two-Capillary Viscometry from 200 K to 650 K, *Jintao Zhang, Hong Lin, Jin Che, Kai Zhang and Xiaojuan Feng* will be presented by *Kai Zhang*

Withdrawn: Understanding Vibrating Wire Viscometry, *Torsten Luddecke* and Stephan Kabelac*

Time change: Towards TOTM as an Industrial Reference Fluid for Viscosity at High Temperatures and High Pressures, *João Diogo, Helena Avelino, Fernando Caetano, João Fareleira, and William Wakeham**
New time: 2:50 PM

WEDNESDAY

Fluid Property Measurements 7 (p. 48)

Withdrawn: The Measurement of Shear Dependent Viscosity of Simple Liquids, *Scott Bair**

Time change: Experimental Measurements of Dissociation Conditions for Water + CO₂ + Decane Mixture in Hydrate Formation, *Pedro Esquivel-Mora, Luis E. Juárez-Vergara, Luis A. Galicia-Luna**, *Jose J. Castro-Arellano and Alfredo Pimentel-Rodas*

New time: 9:15 AM

Time change: Interfacial Tensions of (CO₂ + H₂O + N₂ or Ar or H₂) at Temperatures of (298 to 473) K and Pressures up to 50 MPa, *Y. T. Florence Chow**, *Geoffrey C. Maitland and J.P. Martin Trusler*,

New time: 9:35 AM

Non-Equilibrium Thermodynamics 3 (p.50)

Title change: Monte Carlo Simulations of Two-Phase, Steady-State Flow in Porous Media, *Isha Savani**, *Morten Vassvik, Santanu Sinha, Alex Hansen, Signe Kjelstrup and Dick Bedeaux*, changed to Statistical Mechanics of Two-Phase, Steady-State Flow in Porous Media

Instrumentation and Measurement Techniques 1 (p. 56)

Time change: A Novel Method to Investigate the Dew Line and Sorption Effects of Binary Mixtures using a Modified Two-Sinker Densimeter, *Markus Richter** and *Mark O. McLinden*

New Time: 11:20 AM

Ionic Liquids 8 (p.57)

Withdrawn: Experimental Study of Methane Hydrate Equilibria in [EMIM]-NO₃ Aqueous Solutions, *Zhen Long**, *Xuebing Zhou, Deqing Liang and Dongliang Li*

Time change: New Class of Self-Buffering Ionic Liquid and Its Application for Separation of 1,3-Dioxolane from its Azeotropic Aqueous Solution, *Bhupender S. Gupta**, *Mei-Yueh Fang and Ming-Jer Lee*

New time: 11:20 AM

Thermophysical Methods for Biomaterials and Biosystems 2 (p.63)

Withdrawn; converted to poster [#143a]: Nondestructive Analysis of Phytochemicals Present in Typical Foods of the Mediterranean Diet by Photoacoustic Techniques, *Roberto Li Voti**, *Grigore Leahu, Alessandro Maurizi, Concita Sibilila and Anna Maria Giusti*,

Time change: Correlation of Avocado Oil Content with the Emissivity Measured from the Skin, *Pablo-Genaro Martínez-Torres**, *Carlos Villaseñor-Mora, Salomón-Eduardo Borjas-García and Gabriel Espinosa-Pérez*.

New time: 10:40 AM

Time change: Experimental and Theoretical Study of Thermodynamic Properties of Levoglucosan, *Eugene Paulechka**, *Gennady Kabo, Elena Stepurko, Olga Voitkevich, Andrey Blokhin and Sviataslau Kohut*,

New time: 11:00 AM

Time change: Photothermal and Chromatographic Monitoring of the Photodegradation of Vitamin C, *Michel Isidro**, *Olga Lidia Leños-Castañeda, Gabriel Marcelín, José Martín Yáñez-Limón, and Juan José Alvarado-Gil*, New time: 11:20 AM

WEDNESDAY, continued

Properties of Working Fluids including Refrigerants 1 (p. 71)

Withdrawn: Isothermal Vapor-Liquid Equilibrium of R161+DMETrEG within the Temperature Range of (293.15-353.15) K, *Zhangzhang Yang**, *Zanjun Gao*, *Wenjie Guan*, *Xiaohong Han* and *Guangming Chen*

Posters

p. 76. Withdrawn: Supercritical Pressure-Density-Temperature Measurements on CO₂-Ar Binary Mixture [#13], *Jianguo Yin **, *Guanjia Zhao* and *Suxia Ma*

p. 87 Withdrawn: Mueller Matrix of Specular Reflection by an Aluminum Grating Surface with Oxide Nano-Film [#91], *Jun Qiu**, *Dongfang Ran*, *Lin Hua Liu* and *Pei-feng Hsu*

p. 98 Withdrawn: PVT-Properties of Hydrocarbon- Water System [#45], *Veronika Mirskaya**, *Nabiyulla Ibayov* and *Denis Nazarevich*

p. 99 Speaker change: Tammann's Approach for Investigation of Nucleation Kinetics Applied to Fast Scanning Calorimetry of Polymers [#110], *Evgeny Zhuravlev*, *Jörn W. P. Schmelzer*, *Alexander S. Abyzov*, *René Androsch*, and *Christoph Schick*, will be presented by *Christoph Schick*

p. 104. Withdrawn: Generalized Similarity Laws and Remarkable Lines in Thermodynamics of Simple Fluids [#124], *Vladimir Vorob'ev** and *Evgenii Apfelbaum*

posters added

[#143a]: Nondestructive Analysis of Phytochemicals Present in Typical Foods of the Mediterranean Diet by Photoacoustic Techniques, *Roberto Li Voti**, *Grigore Leahu*, *Alessandro Maurizi*, *Concita Sibilila* and *Anna Maria Giusti*,

[#143b] Nondestructive Evaluation of the Thermoelastic Properties of Contact Lenses by Photothermal Deflection Technique, *Grigore Leahu*, *Roberto Li Voti**, *Alessandro Maurizi*, *Concita Sibilila*, *Nicola Pescosolido* and *Anna Maria Giusti*

[#143c]: Quantitative Thermophysical Property Imaging in Multi-Layered Industrial Solids Using Frequency-Domain (Lock-In) Thermography and the Thermal-Wave Radar: Multi-Parameter Measurement Reliability and Precision Studies, *Andreas Mandelis**, *Jordan Tolev*, *Konesh Sivagurunathan* and *Zichun Tang*

WEDNESDAY, continued

Instrumentation and Measurement Techniques 3 (p115)

This session will be held in honor of Art Kidnay (1934-2015)

Withdrawn: Four Pieces of a Four Piece Puzzle: The Composition Explicit Distillation Curve Method with the Addition of Liquid Composition, *Thomas J. Bruno and Megan Harries**

Time change: Small Volume Apparatus for Vapor Liquid Equilibrium Measurements, *Elisabeth Mansfield* and Stephanie L. Outcalt*

New time: 7:55 PM

Time change: A Study on the Energy Balance within a Bubble Column Evaporator, *Chao Fan*, Muhammad Shahid and Richard Pashley*

New time: 8:15 PM

THURSDAY

Instrumentation and Measurement Techniques 4 (p. 121)

Withdrawn: An Ultrafast Multiple-Wire Microchip to Measure the Thermal Conductivity and Thermal Diffusivity of Gases, *Ulf Hammerschmidt**

Time change: Development of Measurement Technique for Cross Diffusion Coefficient and Soret Coefficient in Ternary Fluid Mixtures using Soret Forced Rayleigh Scattering (Theory and Experiment using Two Probing Lasers of Different Wavelengths), *Hiroaki Matsuura* and Yuji Nagasaka*
New time: 9:15 AM

Time change: Development of Micro Optical Diffusion Sensor using Novel Interference Excitation Method, *Ichiro Fukada*, Yoshihiro Taguchi, and Yuji Nagasaka*,
New time: 9:35 AM

Optical and Thermal Radiative Properties 1 (p. 124)

Schedule change: **Thermal Radiative Properties of Refractory Ceramic Materials**, Qiang Cheng*, Peiyan Yang and Zhuomin Zhang will be presented on Friday June 26 at 9:35 AM in room DLC, and **Near-Field Thermodynamics and Energy Harvesting**, Ivan Latella, Agustin Pérez-Madrid, Luciano C. Lapas, and J. Miguel Rubi* will be presented on Thursday June 25 at 9:15 AM in DLC

Instrumentation and Measurement Techniques 6 (p. 138)

Speaker change: High Temperature Acoustic and Microwave Transducers for Primary Acoustic Thermometry, *Xiaojuan Feng*, Kai Zhang, Jintao Zhang, Hong Lin and Yuan-Yuan Duan* will be presented by *Kai Zhang*

Optical and Thermal Radiative Properties 3 (p.140)

Withdrawn: High Refractive Index Photonic Crystals for Simultaneous Enhancement and Redistribution of the Spectral and Directional Thermal Radiation, *Dong Liu*, Haitong Yu, Zhen Yang and Yuan-Yuan Duan*

FRIDAY

Optical and Thermal Radiative Properties 5 (p. 153)

Schedule change: **Thermal Radiative Properties of Refractory Ceramic Materials**, Qiang Cheng*, Peiyan Yang and Zhuomin Zhang will be presented on Friday June 26 at 9:35 AM in room DLC, and **Near-Field Thermodynamics and Energy Harvesting**, Ivan Latella, Agustin Pérez-Madrid, Luciano C. Lapas, and J. Miguel Rubi* will be presented on Thursday June 25 at 9:15 AM in DLC

Properties of Solids 2 (p. 155)

Speaker change: Traceable Calorimetric Measurements of Large Radioactive Waste Packages, *Refat Razouk, Bruno Hay, Stephane Plumeril, Patrick Sollet, Olivier Beaumont, Jacques Hameury, and Guillaume Failleau* will be presented by *Jacques Hameury*

Correlations and Engineering Equations of State 7 (p. 159)

Title change: Equations of State Based on an Excluded Volume Theory, *Gregory Martinez**, changed to An Excluded Volume Theory of Lattice Fluids Part II- Incorporating Specific Models of Attractive and Repulsive Interaction Energy

Wetting, Interfaces, and Membranes 8 (p. 164)

Author change: Seawater Desalination using Gas Hydrates, revised author list: *Muhammad Khan*, Hongfei Xu, Cor J. Peters, and Carolyn Koh*