SCIENTIFIC PROGRAM

ECTP 2026

23rd European Conference on Thermophysical Properties

June 21–24, 2026, France

Version of May 13, 2026

Monday 22 June					
08:00 - 10:00	Conference registration				
08:30	**OPENING CEREMONY -** in the Auditorium				
08:45 - 09:30	**PLENARY LECTURE -** in the Auditorium **Martin TRUSLER: *" Made to Measure: High-Precision Measurements of the Speed of Sound in Fluids "***				
	Room 1.07	**Room 1.09**	**Room 2.08**	**Room 3.01**	**Room 3.08**
09:40 - 10:40	**Transport Properties.** Viscosity Modelling	**Advanced Experimental Techniques.** Viscosity Measurements	**Advanced Experimental Techniques.** VLE and Speed of Sound	**Advanced Materials Design and Characterisation.** Radiative Cooling (I)	**Thermophysical Properties** of Organic Hydrogen Carriers
	Chaired by Y. Coulier	***Chaired by M. Riva***	***Chaired by D. Vega-Maza***	***Chaired by A. Muscio***	***Chaired by O. Herbinet***
09:40	*Influence of the Conformal State Point and Binary Interaction Parameters on ECS Viscosity Predictions for Asymmetric Mixtures* Sabozin F., Thol M.	*Evaluation of Line-Broadening Effects for an Accurate Determination of Viscosity and Interfacial Tension by Surface Light Scattering* Martinez-Gonzalez P., Knorr J., Koller T., Fröba A. P.	*Automated Vapor-Liquid Equilibrium Measurements with Raman Spectroscopy* Busch C., Flake C., Kasterke M., Koß H.-J., Bardow A.	*EKHI: an open database of thermal radiative data* Gabirondo-López J., Sainz-Menchón M., Tolosa-Lecea I., González de Arrieta I., Echániz T., López-Ferreño I., Urcelay-Olabarria I., Fuente R., López G. A., Arredondo I., Igartua J. M.	*Experimental Investigation of Liquid Density and PC-SAFT Equation of State for Liquid Organic Hydrogen Carrier (LOHC) H_0-NEC/H_{12}-NEC* Yang Y., Zhou T., Yang J., Meng X., Wu J.
10:00	*Effective Thermophysical Constants of Thousands of Fluids. II: Lennard-Jones and residual entropy scaling parameters for viscosity* Xiaoxian Y.	*Measurement of gaseous viscosity in thermodynamic equilibrium state: Based on acoustic method* Tan Y., Peng X., Yang Z., Zhang K., Duan Y.	*Non-Ideal Polarization Mixing for VLE Measurements with Microwave Resonators* Tenardi L., Hoshina T., Sellner G., Richter M., Stanwix P., May E.	*Predictive numerical modeling of radiative cooling under real atmospheric conditions* Moreno-Sanabria L., Martín-González M., Manzano C. V.	*Fick Diffusivity, Thermal Diffusivity, Thermal Conductivity, Density, and Mixture Composition of the Liquid Organic Hydrogen Carrier System Based on gamma-Butyrolactone and 1,4-Butanediol* Blabus H., Mombeini D., Rausch M., Klein T., Koller T., Kankanamge C., Geißelbrecht M., Wasserscheid P., Fröba A. P.
10:20	*A prediction of viscosity for helium-methane binary system based on entropy scaling of viscosity* Yang Y., Sun J., Yang X., Huang Y.	*Modernization of an Oscillating Cup Viscometer* Lourenço M. J., Chainho J., Costa I., Rodrigues P., Abreu M., Nieto de Castro C.	*Selection of Scattering Geometry in Brillouin Speed of Sound Measurement* Li W., He M., Zhang Y.	*Development and Thermophysical Characterization of Particle-Based Coatings for Passive Daytime Radiative Cooling* Manara J., Stark T., Arduini M., Göbel A., Brütting M., Vidi S., Popp J., Narymany Shandy A., Zipf M., Hartmann J., Ebert H.-P.	*Viscosity, Interfacial Tension, and Hydrogen Solubility for the Liquid Organic Hydrogen Carrier System Based on gamma-Butyrolactone and 1,4-Butanediol* Sun Y., Blabus H., Rausch M., Koller T., Geißelbrecht M., Wasserscheid P., Fröba A. P.
10:40 - 11:00	**Coffee break with Sponsors session**				

	Room 1.07	Room 1.09	Room 2.08	Room 3.01	Room 3.08
11:00 - 12:30	**Thermodynamic Modelling for Sustainable Processes.** Thermodynamic Cycles and Working Fluids.	**Transport Properties.** Theory and Modelling	**Thermodynamic Properties.** Density Measurements	**Advanced Materials Design and Characterisation.** Multi-Scale Modelling	**Thermophysical Properties** of H_2 and H_2-Containing Mixtures (I)
	Chaired by Y. Coulier	***Chaired by G. Galliero***	***Chaired by C. Nieto de Castro***	***Chaired by A. Chapoy***	***Chaired by A. P. Fröba***
11:00	**KEYNOTE LECTURE** *The Law of Diminishing Returns: Why Thermodynamics is (and isn't) the Key to Decarbonizing Industrial Heat* **Bardow A.**	**KEYNOTE LECTURE** *Towards a fundamental theory for transport properties of complex molecules* **Wilhelmsen Ø.**, Jervell V. G., Løken J. S., Hammer M.	**KEYNOTE LECTURE** *Gravimetric density measurements: gold standard or yesterday's news?* **Richter M.**	**KEYNOTE LECTURE** *Thermodynamic models across multiple scales to design materials for net zero and the energy transition* Ismaeel H., Ricci E., Fabiani T., Papchenko K., Atiq O., Giacinti M., **De Angelis M. G.**	**KEYNOTE LECTURE** *Exploring the properties, behaviour, and challenges of cryogenic hydrogen* **Stanwix P.**, Sellner G., Tenardi L., Barwood M., Dhakal S., Johns M., May E., Luther F., Richter M., Bond E., Trusler M. J. P.
11:30	*The Power of Reversible Chemical Reactions in Working Fluids for Thermodynamic Cycles* Barakat A., Lasala S., Sesmat A.	*Aqueous Hydroxide and Hydronium Diffusion-coefficients and Lifetimes Revealed by the Differences Between Experimental and Simulated Electrical Conductivity* Lagerweij V.J., Moultos O.A., Vlugt T. J. H.	*Dew-Point Density Measurements of Gas Mixtures with Low Uncertainty* Bernardini L., McLinden M., Richter M.	*Accelerating Sustainable Materials Discovery with Artificial Intelligence* Abranches D. O.	*Experimental Investigation of Hydrogen-Brine Interfacial Tension: Influence of Salinity, Cation Species, and pH* Ai L., Trusler M. J. P
11:50	*Thermodynamic modelling of reactive working fluids for thermodynamic cycle applications* Joliat J., Vlugt T. J. H., Lasala S.	*Extending revised Enskog theory to liquid-like densities: Understanding collisional transfer of momentum and energy* Jervell V.G., Wilhelmsen Ø.	*Liquid Density of R1132(E) Measured by a Vibrating-Tube Densimeter* Yamauchi H., Nishiyama T., Akasaka R., Gao L.	*Assessing the heat transfer performance of an LTES tank with PCM encapsulated in tubes: Scale-up insights* Vallese L., Menegazzo D., Barison S., Agresti F., Scattolini M., De Carli M., Bobbo S., Fedele L.	*Density and isobaric heat capacity measurements for hydrogen-gas mixtures* Cassiède M., Stenby E., Yan W.
12:10	*A Graph-Neural-Network-Enhanced Crossover PR Equation of State for High-Precision Prediction of Working Fluid Thermodynamic Properties* Ren K., He M., Zhang Y.	*Viscosity, thermal conductivity and self-diffusion coefficient of the Lennard-Jones spline fluid: Evaluation of theories for a short-ranged potential* Løken J., Jervell V., Hammer M., Hafskjold B., Trinh T., Wilhelmsen Ø.	*Novel Measurement Protocol for LNG Density at Cryogenic Conditions Using a Vibrating-Tube Densimeter* Lin G., Bernardini L., Trusler M. J. P., Richter M.	*Comparative Study of CAMD and Graph Diffusion-Based Approaches for Organometallic Molecular Design* Hur J., Ryu B.C., Hwang S. Y., Kang J. W.	*Experimental Validation of the Revised Dielectric Model for Hydrogen at Cryogenic Conditions* Sellner G., Incerti L., Tenardi L., May E., Stanwix P.
12:30 - 14:00	**Lunch**				

14:00 - 15:25	Room 1.07	Room 1.09	Room 2.08	Room 3.01	Room 3.08
	Thermodynamic Properties. Data-Driven Modelling	**Transport Properties.** Thermal Diffusivity Measurements	**Thermophysical Properties** of Liquid Metals	**Advanced Materials Design and Characterisation.** Separation Processes	**Thermophysical Properties** of Refrigerants (I)
	Chaired by D. Meimaroglou	***Chaired by B. Hay***	***Chaired by O. Herbinet***	***Chaired by F. Llovell***	***Chaired by D. Vega-Maza***
14:00	**INVITED LECTURE** *Unlocking molecular equations of state for process design with large-scale parametrization and data-driven extrapolation* **Rehner P.,** Hemprich C., Bauer G., Gross J., Bardow A.	**INVITED LECTURE** *Definitions and preferred symbols for mass diffusion coefficients in multicomponent fluid mixtures including electrolytes* **Klein T.**, Kankanamge C., Koller T., Rausch M., Fröba A. P., Assael M., Wakeham W., Guevara-Carrion G., Vrabec J.	**INVITED LECTURE** *Experimental and numerical study of liquid metals viscosity. Gravity effects study and microgravity exploration* Le Mener M., Courtois E., Bourges C., Pierre T., **Courtois M.**	**INVITED LECTURE** *Capturing PFAS with cyclodextrin-based adsorbents* Sha B., Soodan A., Lompe K. M., Vlugt T. J. H., Barin G., Peristeras L., **Moultos O. A.**	**INVITED LECTURE** *Thermophysical properties for the development of next-generation refrigerants* **Rowane A. J.**, McLinden M. O.
14:25	*Machine Learning and Molecular Representations: Key Challenges in Data-Driven Thermodynamic Property Prediction* Prokopidou M., Herbinet O., Lasala S., Meimaroglou D.	*Fick Diffusion Coefficients in Blowing-Agent-Loaded Polymer Melts by Dynamic Light Scattering and Molecular Dynamics Simulation* Schmidt P., Kankanamge C., Klose J., Jander J., Vergadou N., Economou I., Klein T., Fröba A. P.	*Electrical Conductivity of Iron Oxide Containing Oxide Melt* Shinohara S., Sumita T., Saito N.	*Engineering MOF-on-MOF@Ionic Liquid+ Composites for Enhanced CO_2,, Capture and Selectivity* Xu X., Huang S., Huang W., He M., Wang D., Liu X.	*Parametrization in PC-SAFT Framework for Accurately Describing Second-Order Derivative Properties of Hydrofluoroalkene (HFO) systems* Peng X., Tan Y., Yang Z., Duan Y.
14:45	*Symbolic Regression for Shared Expressions: A single Saturation Pressure Model for over 20 Substances* Frotscher O., Martinek V., Baumert M., Falloon P., May E., Herzog R., Richter M.	*A Machine Learning Approach to Predict the Self-Diffusivity of the Lennard-Jones Fluid* Gravanis G., Papadopoulou S., Voutetakis S., Diamantaras K., Tsimpanogiannis I. N.	*Measurement of the density of liquid metals in aerodynamic levitation at high pressure and high temperature* Boungou A., Bourgès C., Courtois E., Pierre T., Courtois M.	*Uio-66 Based Porous Ionic Liquids: A Synergistic Strategy for Dual Enhancement of CO_2 Solubility and Diffusion Coefficient* Huang S., Xu X., Huang W., Wu Z., Liu X., He M.	*Quantum Study for Global Warming Potentials of HFO-1243yc* Yokoo T., Kondo C., Sakuda E.
15:05	*Machine-Learning-Guided Measurement and Modeling of Thermodynamic Properties: Symbolic Regression, Optimal Experimental Design, and a New Setup for LLE Characterization* Baumert M., Frotscher O., Martinek V., Herzog R., Richter M.	*Physically Consistent Prediction of Diffusion Coefficients with Machine Learning* Wagner J., Specht T., Hasse H., Jirasek F.	*Fast surface tension measurement of liquid iron and 304L steel using an aerodynamic levitation apparatus and a new multi-bursts excitation* Mouyele D., Bourges C., Courtois E., Pierre T., Courtois M.	*Impact of Supecritical CO_2 on the Molecular Architecture of Recycled High-Density Polyethylene* Zimmermann J., Hirschberg V., Jaeger P., Fischlschweiger M.	*Extending the Vapor-Liquid Equilibrium Study of the Propane-Pentane System for Refrigeration: New Measurements at Low Temperatures* Tognoli M., Riva M., Toppi T.
15:25 - 16:00	***Coffee break with Sponsors Session and Poster Session***				

16:00 - 17:20	Room 1.07 **Thermodynamic Properties.** Theory and Data Driven Modelling ***Chaired by T. J. H. Vlugt***	Room 1.09 **Transport Properties.** Measurement and Modelling of Materials Emissivity ***Chaired by A. Bazyleva***	Room 2.08 **Advanced Experimental Techniques.** Transport Properties ***Chaired by D. Vega-Maza***	Room 3.01 **Advanced Materials Design and Characterisation.** Energy-Related Materials ***Chaired by L. Fedele***	Room 3.08 **Thermophysical Properties** of Complex Liquids (I) ***Chaired by J. Coutinho***
16:00	*A new thermodynamic function for binary mixtures: the co-molar volume* Olsen K. P., Hafskjold B., Lervik A., Hansen A.	*Emissivity Assessment of Sandblasted Surfaces: Decoupling Roughness and Surface Chemistry Effects* Towanou G., Nurit M., Geslain E., Pouvreau C., Bigerelle M., Le Goic G.	*Development of a Gas Viscosity Measurement System Using Helmholtz Acoustic Resonance* Nishihashi K., Kano Y.	*Inverse Method for Estimating the Thermal Properties of a Cylindrical Battery Cell* Aboulfalah H., Darmet N., Remy B., Elmaakoul A., Rabeh R., Blet N.	*Chemical stability of ionic liquids for high temperature MeOH synthesis at 513 K* Fabian J., Alcantara M., Sosa F., Coutinho J. A. P.
16:20	*A Stochastic Helmholtz Equation of State Mixture Model with Quantified Model Errors* Schnelting L., Raabe G., Römer U.	*Influence of the spectral emissivity of refractories on the energy performance of industrial furnaces: Measurement and Modeling* Augé A., Farges O., Vincent A., Leplay P., Rozenbaum O.	*Characterization of Semiconductor Process Gases using Acoustic Resonators* Al-Barghouti K., Fortin T., McLinden M.	*Multi-Objective Molecular design of Ionic Liquids on Small Dataset for High-Performance Lithium Metal Battery Electrolytes* Zhang Y., Liu X., He M.	*Detailed comparison between the Group Contribution models available in the literature for estimating the density of ionic liquids over a wide temperature and pressure range* de Medeiros Araújo P., Feitosa F. X., de Sant'Ana H.
16:40	*Thermodynamic Property Model Based on Physics-informed Neural Network (PINN) and Chaos Theory* Gao K., Wu G.	*Performance Assessment of a Selective-Emissivity Roof Coating for Industrial Buildings* Sciurti G., Magazzeni P., Muscio A.	*Efficient Detection of Temperature and Concentration Fluctuations via FFT-Segmented Autocorrelation Photon Correlation Spectroscopy* Chen Y., Li W., He M., Zhang Y.	*The Li_2CO_3–Na_2CO_3–K_2CO_3 Molten Eutectic. Challenges and Gaps in Thermophysical Property Data* Nunes V., Chainho J., Rodrigues P., Lourenço M. J., Nieto de Castro C.	*Influence of Different Gases and Molecular Catalysts on the Interfacial Tension and Viscosity of Ionic Liquids* Zhai Z., Hantal G., Khan S., Haumann M., Smith A. S., Koller T.
17:00	*Fundamental Reverse van der Waals Equation of State* Quiñones-Cisneros S., Wang J., Deiters U.	*Emissivity Characterisation of Engineering Materials and Thermographic Phosphors within ThermoSI* Adibekyan A., Mueller I., Monte C., Mendieta A., Bevilacqua L., Sutton G.	*European inter-laboratory comparison on thermal diffusivity measurements of high conductive materials by the laser flash method* Hay B., Beaumont O., Fleurence N., Wu J., Mildeova P., Akoshima M., Milošević N.	*Optical and Thermal Properties of n-Type Porous Silicon Fabricated by Short-Time Electrochemical Etching at Different HF Concentrations* Salazar Flores S., Rojas Trigos J., Nogal Luis U.	*Analysis of the Influence of the Cation Alkyl Chain on the Structure and Properties of Aqueous Mixtures of $[C_nmim][C(CN)_3]$ (n=2,4,6)* Almeida R. M., Van Horebeek E., Santos H., Constantino J., Lourenço M. J., Nieto de Castro C.
17:20 - 18:55	**POSTER PITCH session** - in the Auditorium				
19:30 - 22:00	**Dinner**				

Tuesday 23 June					
08:00 - 10:00	Conference registration				
08:30	**AWARDS ANOUNCEMENTS** – in the Auditorium *The **ECTP Lifetime Award**, the **NETZSCH Young Scientist Award** and the **ARED CEZAIRLIYAN Annual Best Paper Award***				
08:45 - 09:30	**PLENARY LECTURE -** in the Auditorium ***ECTP Lifetime Award Recipient***				
	Room 1.07	**Room 1.09**	**Room 2.08**	**Room 3.01**	**Room 3.08**
09:40-10:40	**Transport Properties.** High Thermal Conductivity Materials.	**Advanced Experimental Techniques.** Thermal Properties	**Advanced Experimental Techniques.** Micro- and Nano-Scale	**Advanced Materials Design and Characterisation.** Amorphous and Polymer-Based Materials.	**Thermophysical Properties** of High-Temperature Materials (I)
	Chaired by O. Herbinet	***Chaired by M. Riva***	***Chaired by M. Assael***	***Chaired by J. Joliat***	***Chaired by M. Courtois***
09:40	*Experimental Study on High thermal conductivity UV-curable resin by the Transient Hot-wire Method* Narita H., Taguchi Y.	*Optical Differential Scanning Calorimetry Setup for Modern Material Science at High Temperature* Zipf M., Shandy A. N., Manara J., Hemberger F., Vidi S., Hartmann J.	*Investigation of measurement conditions for reliable SThM thermal properties measurements on a nanostructured sample* Fleurence N., Douri S., Délvallée A., Morán-Meza J., Hameury J., Feltin N., Hay B.	*How the Thermodynamic Formation History Affects Glass Properties: Defining the Glass Transition Pressure* Corbisieri C.	*The joint direct pulse heating facilities - measurement of thermophysical properties of solid and liquid metals and alloys from RT to above 4000 K* Milošević N., Pottlacher G., Stepanić N.
10:00	*Study on Heat Flux Sensors Sensitivity under Various Conditions* Akoshima M.	*LNE initiatives in the development of traceable calorimetric measurements for operando battery cells* Razouk R., Hameury J., Hay B.	*Development of an Optofluidic Diffusion Sensor Using Light-induced Dielectrophoresis for Picoliter-scale Nanofluid Droplet* Kamata M., Taguchi Y.	*Upscaling the curing process for the production of large components* Strasser C., Moukhina E., Hartmann J.	*A Shadowgraph-Based Approach for Measuring Thermal Expansion of Ultra-High-Temperature Solids under Pulsed-Current Heating* Orikasa I., Watanabe H.
10:20	*Microfabrication of High-Thermal-Conductivity Composite Resins by Two-photon 3D Printing* Nomura Y., Taguchi Y.	*Measurement of Critical Temperature with Commercial Calorimeters: Resurrection of Unjustly Abandoned Technique* Štejfa V., Kocian Š., Arltová E., Fulem M., Růžička K.	*Infrared Thermography for Precise Microscale Temperature Measurements on NiTi wires used for actuators and elastocaloric devices* Javed M. A., Navarro de Sosa I., Maaß B., Zipplies D., Richter M.	*Impact of Tacticity on the Solid-Liquid Equilibrium of Polypropylene Solutions* Behrle M., Fischlschweiger M., Enders S.	*Determination of Effective Radiative and Optical Properties of a Heterogeneous Fibrous Material by Homogenization* Seyer L., Rozenbaum O., Daoût C., Rochais D.
10:40 - 11:00	**Coffee break with Sponsors Session and Poster Session (Poster Committee Assessment for the Best Poster Award)**				

	Room 1.07	Room 1.09	Room 2.08	Room 3.01	Room 3.08
11:00 - 12:30	**Thermodynamic Modelling for Sustainable Processes.** Multi-Scale Modelling	**Transport Property.** Mass Diffusion Measurement	**Thermophysical Properties** of Electrolyte Solutions	**Thermophysical Properties** of Hydrocarbon Mixtures	**Thermophysical Properties** of H_2 And H_2-Containing Mixtures (II)
	Chaired by I. Alkhatib	***Chaired by M. Trusler***	***Chaired by Ø. Wilhelmsen***	***Chaired by M. Richter***	***Chaired by P. Stanwix***
11:00	**KEYNOTE LECTURE** *Bridging Modeling Approaches for the predictive description of Thermophysical Properties in Decarbonisation Applications* Albà C.G., Alkhatib I. I. I., Eusébio T.M., Vega L. F., **Llovell F.**	**KEYNOTE LECTURE** *Measurement of diffusion coefficients in complex fluids, including molecular and particulate systems, by dynamic light scattering* Schmidt P., Klein T., Rausch M., **Fröba A.P.**	**KEYNOTE LECTURE** *Bridging Experiments, Simulations, and Data Science to Decode Salt Effects on the Solubility of Biomolecules* **Pinho S. P.**	**KEYNOTE LECTURE** *Shape-selectivity effects of zeolites on hydroisomerization of long-chain alkanes* **Vlugt T. J. H.**	**KEYNOTE LECTURE** *From Molecular Insights to Subsurface Energy: How Thermophysical Properties of Fluids Advance Hydrogen and Gas Storage* **Galliero G.**
11:30	*Assessment of the interfacial behavior of ethers-based systems using machine learning for practical industrial applications* Huenuvil-Pacheco I., Llovell F., Mejía A.	*Characterization of Particle Diffusion Under Confined Conditions by Using Dynamic Light Scattering (DLS)* Chittem P., Gálvez N., Malgaretti P., Harting J., Vogel N., Schmidt P., Fröba A. P.	*A Hybrid Model for Predicting Activities in Aqueous Electrolyte Solutions* Romero Z., Kohns M., Hasse H., Jirasek F.	*Thermophysical properties of sustainable liquid fuels* Ladu L. R. T., Trusler M. J. P.	*Transport Properties of Binary Gas Mixtures of H_2 with N_2, O_2, CO_2, H_2S, and H_2O from First Principles* Hellmann R., Bich E.
11:50	*Compressed liquid density measurements of acetic acid and carbon dioxide mixtures for reactive heat pump applications* Menegazzo D., Vallese L., Fedele L., Bobbo S., Joliat J., Lasala S.	*Measurements of self-diffusion coefficients for gaseous binary mixtures* Li M., Kobeissi S., May E. F., Johns M. L.	*Associative electrolyte PC-SAFT: Thermodynamic properties of aqueous, non-aqueous, and mixed solvent electrolyte solutions* Yang F., Hammer M., Wilhelmsen Ø.	*Investigation on the predictability of LKP and LKP-SJT binary interaction parameters for asymmetric n-alkane mixtures* Schneegans M., Sabozin F., Thol M., Breitkopf C., Jäger A.	*Physics-informed Neural Network for Thermodynamically Consistent Modelling of Carbon dioxide-Hydrogen Mixtures in Underground Storage Applications* Rostaminikoo E., Joonaki E., Khajenoori L., Asimakopoulou E., Nasriani H. R.
12:10	*Turbulent Reactive Phase Change via Reactive Vapor-Liquid Equilibrium Thermodynamics* Jafari S., Lasala S., Yao R., Duwig C.	*Influence of α-Helical Content on the Thermodiffusion of Apomyoglobin* Rudani B., Docter S., Schott-Verdugo S., Buitenhuis J., Stadler A., Gohlke H., Wiegand S.	*Diffusivities in Electrolyte Mixtures by Dynamic Light Scattering and Molecular Dynamics Simulations* Kankanamge C., Klein T., Fröba A. P.	*In pursuit of the high-pressure liquid-vapor and liquid-solid equilibria of asymmetric mixture* Medeiros H. D., Daridon J. L., Feitosa F., de Sant'Ana H.	*Measuring and modelling of dew points of water and hydrogen enriched natural gas* Sulberg C., Span R., Wolf M., Anderbruegge T.
12:30 - 14:00	**Lunch**				

14:00 - 14:45	**PLENARY LECTURE -** in the Auditorium **Gabriele SADOWSKI: *" 25 years of PC-SAFT - the journey towards modeling complex molecules "***				
	Room 1.07	**Room 1.09**	**Room 2.08**	**Room 3.01**	**Room 3.08**
14:55 - 16:20	**Thermophysical Properties** of Fluids For CCUS Applications (I)	**Transport Properties.** Mass Diffusion Measurements and Data-Driven Modelling	**Thermophysical Properties** of Complex Liquids (II)	**Advanced Materials Design and Characterisation.** Thermal Energy Storage	**Thermophysical Properties** of Refrigerants And Lubricant Oils (I)
	Chaired by M. Assael	***Chaired by P. Rehner***	***Chaired by R. V. Latcham***	***Chaired by Y. Coulier***	***Chaired by A. J. Rowane***
14:55	**INVITED LECTURE** *Thermophysical Properties of CCUS Fluids in the Vicinity of the Critical Point and Widom Line* **Chapoy A.**, Ahmadi P.	**INVITED LECTURE** *A technical guide on high temperature thermal diffusivity measurements by the laser flash method* **Hay B.,** Milošević N., Pavlásek P., Wu J.	**INVITED LECTURE** *Exploring the Solubility Behavior of Kraft Lignin on Alternative Solvents and their Aqueous Solutions* **Vilas-Boas S. M.**, Altoé F. S., Dias R. M., da Costa M. C.	**INVITED LECTURE** *Adapting Smart Materials for Efficient Thermal Energy Storage Systems* Vallese L., Menegazzo D., Bobbo S., Scattolini M., **Fedele L.**	**INVITED LECTURE** *An Assumption to Simplify the Modeling of Oil-Refrigerant Mixtures in Thermodynamic Cycles* **Leclercq N.,** Lemort V.
15:20	*Unveiling the Widom Region of Supercritical CO_2 through Non-Equilibrium Fluctuations* Fruton P., Imuetinyan H., Lisoir E., Giraudet C., Croccolo F.	*Refinement of the Extended Pulse Technique for the Measurement of the Thermal Diffusivity of Solids* Wakeham W., Gaal P., Withrow Z., Gaal D.	*Integrated COSMO-RS and soft-SAFT Modelling for the Pre-design of Deep Eutectic Solvents in Lignocellulosic Biomass Fractionation* Rodríguez-Reartes S. B., Llovell F.	*Thermodynamic, kinetic and structural characterization of Thermochemical Materials for Thermal Storage* Agresti F., Fanous K. M. H. G., Fasolin S., Armelao L., Barison S.	*Density and Speed of Sound Measurements of Asymmetric Oil-Refrigerant Mixtures* Klink S., McLinden M., Richter M.
15:40	*Impurity Effects on VLE and Prediction Assessment in a CO_2-Rich System for CCUS* Rocha J., Morales R., Marcelino Neto M.	*On the measurement of the in-plane thermal diffusivity: Data analysis in thin foils experiments* Bison P., Ferrarini G., Finesso L., Rossi S.	*Solvent extraction of levulinic acid from its aqueous solution: A Monte Carlo simulation study* Kapadiya P., Adhikari J.	*Rational Design of Deep Eutectic Electrolytes for Sustainable Energy Storage* Abranches D. O., Camilo G. L., Fileti E. E., Coutinho J. A. P.	*Gas-Solubility Measurements of Refrigerants in Refrigeration-Oil Surrogates Using Raman Spectroscopy* Luther F., Klein T., Fröba A. P., Richter M.
16:00	*Performance Analysis of Modified Apparatus for Liquid CO_2 Boil-off Study with Liquid Nitrogen* John I. J., Jiao F., Johns M., Stanwix P., May E., Al Ghafri S.	*Accurate In-Plane Thermal Diffusivity Characterization of Low-Diffusivity Materials by Flash Method* Shinoda Y., Gomez-Gomez A., Dilsch N., Stobitzer D., Beckstein F., Diez S.	*Solubility prediction and molecular modeling of pharmaceutical compounds and solvents with SAFT-gamma Mie* Bernet T., Paliwal S., Boroujeni S. N., Brown F., Adjiman C., Jackson G., Galindo A.	*Linking Structure and Transport Properties: A CALPHAD Framework for Multicomponent Ionic Melts* Zhang R., Kjellqvist L., Mao H., Naraghi R., Chen Q.	*Thermophysical Properties of Binary Mixtures of Refrigerants and Refrigeration-Oil Surrogates by Dynamic Light Scattering* Rausch M., Krug D., Richter M., Klein T., Fröba A. P.
16:20 - 17:00	**Coffee break with Sponsors Session and Poster Session (Poster Committee Assessment for the Best Poster Award)**				

17:00-18:20	Room 1.07 **Thermodynamic Properties** of CO_2-Based Mixtures ***Chaired by M. Riva***	Room 1.09 **Thermodynamic Modelling** of Pure Compounds ***Chaired by Y. Coulier***	Room 2.08 **Advanced Experimental Techniques.** H_2 Mixtures and LNG ***Chaired by W. Wakeham***	Room 3.01 **Thermophysical Properties** of Fluids For CCUS Applications (II) ***Chaired by A. Galindo***	Room 3.08 **Thermophysical Properties** of Refrigerants And Lubricant Oils (II) ***Chaired by Leclercq N.***
17:00	*High-Pressure Equilibrium and Transport Behaviour of CO_2 + Cyclohexanol + Toluene Ternary Mixtures* Imuetinyan H., Saric D., Bazile J. P., Giraudet C., Guevara-Carrion G., Daridon J. L., Vrabec J., Croccolo F.	*New Fundamental Equation of State for Triethylene glycol* Schöne J., Kollmer L., Span R., Lemmon E. W., Thol M.	*Design of a Cryogenic Thermal Conductivity Measurement System Using Transient Hot Wire (THW) Method* Kim D., Lee S., Kwon S.	*Density and Viscosity of MDEA Solutions Promoted by PZ or AMP for CO_2 Capture Applications* Pérez-Milian Y., Vega-Maza D., Trusler M.	*Thermophysical Properties of Paraffinic, Naphthenic, Polyalphaolefin and Ester Base Lubricants at High Pressures* Villamayor A., Guimarey M. J. G., Mariño F., Liñeira del Río J. M., Urquiola F., Urchegui R., Comuñas M. J. P., Fernández J.
17:20	*High-pressure phase behavior of the CO_2 + 2,6,10,14-tetramethylpentadecane system: experimental investigation* Bazile J.-P., Daridon J.-L., Vitu S.	*Two distinct 4-parameter cubic equations tailored to reference thermodynamic property formulation. Application to argon, propane, and water.* Hrubý J., Blahut A.	*Measurement of thermal conductivity and diffusivity at cryogenic temperatures* Monchau J.-P., Ibos L., Pierre T., Petit R.	*New VLE Data for CO_2-based Binary and Multicomponent Mixtures Relevant to CO_2 Transport for CCUS Applications* Signorini S., Di Bona D., Giudici F., Razmjoo N., Gatti M.	*Viscosity measurements for various pentaerythritol esters in the range of temperatures between 273.65 K and 373.15 K* Bobbo S., Rossi S., Menegazzo D., Vallese L., Heithorst B., Fedele L.
17:40	*Isothermal Vapor-Liquid Equilibrium of Binary CO_2 and C_3O_8 Containing Mixtures and Classical Cubic Models of Equation of State* Abdulagatov A., Khairutdinov K., Khabriev K., Kabirov K.	*Theoretical modeling of solid, liquid, and gas phases of water* Cerdeiriña C., Troncoso J.	*Modified vibrating-wire viscometer for measurements of gas mixtures containing hydrogen* Harten R., Meier K.	*Speed of Sound Measurements of Gaseous CO_2 + O_2 Mixtures Using a Spherical Resonator at Temperatures between (280 and 340) K and at Pressures up to 10 MPa* Razmjoo N., Bokel L., Betken B., Thol M., Gatti M., Span R.	*Simultaneous Measurement of Speed of Sound and Density for Refrigerant Mixtures Containing Hydrofluoroolefins* Kano Y., Nishihashi K., Kayukawa Y., Sato A.
18:00	*Thermophysical Property Calculation Model for CO_2-based Mixtures Using the Crossover Volume-Translation SRK Equation of State* Wang R., Wang E., Qing K., Yang Z., Duan Y.	*Measurements and modelling of pure solids for solubility predictions* Wu W., Barwood M., Falloon P., Xiao X., May E.	*Advanced Thermal Analysis Under Hydrogen Atmosphere: From Oxide Reduction to Zirconium Hydride Formation* Sergeev D., Rosenschon M., Rapp D., Hanss J.	*Thermophysical properties of CO_2 and brine: density and viscosity* Jayeola O., Cassiède M., Smith S., Yan W.	*High-Pressure VTD Employed on Accurate Measurement of Liquid Density of Hydrofluorethers and Other Reference Fluids* Vinš V., Prokopová O., Čenský M., Součková M., Blahut A.
18:30-00:00	♫ ♪ ♫ ***MUSICAL CHAMPAGNE COCKTAIL & GALA DINNER*** ♫ ♪ ♫				

Wednesday 24 June

08:30	**Next ECTP Announcement** & **Best ECTP Poster Award** – in the Auditorium				
08:45 - 09:30	**PLENARY LECTURE -** in the Auditorium **Eric F. MAY: *" Role of Cryogenic H_2, CO_2 and CH_4 in Decarbonised Energy Systems: Challenges and Opportunities "***				
09:40 - 11:10	**Room 1.07** **Thermodynamic Modelling for Sustainable Processes.** CCUS Applications. ***Chaired by O. Moultos***	**Room 1.09** **YSA Keynote &** **Thermodynamic Modelling** of Hydrogen ***Chaired by E. May***	**Room 2.08** **Thermophysical Properties** of Complex Liquids (III) ***Chaired by Y. Coulier***	**Room 3.01** **Thermophysical Properties.** Databases and Reference Data ***Chaired by M. Richter***	**Room 3.08** **Thermophysical Properties** of H_2 And H_2-Containing Mixtures (III) ***Chaired by M. Assael***
9:40	**KEYNOTE LECTURE** *Advancing CO_2 Capture Through Molecular Modelling and Transfer-Learning Surrogates* **Galindo A.**	**KEYNOTE LECTURE** **NETZSCH Young Scientist Award recipient**	**INVITED LECTURE** *Using sulfate and sulfonate compounds to show hydrotropy as the missing link between salts and surfactants* Cordova I. W., Abranches D. O., Pinho S. P., Ferreira O., **Coutinho J. A. P.**	**INVITED LECTURE** *Thermophysical property data in the AI age* **Bazyleva A.**	**INVITED LECTURE** *Speed-of-Sound and Raman Spectroscopy of Hydrogen Spin-Isomer Mixtures* **Latcham R. V.**, Hauser M., Trusler M. J. P.
10:10	*Evaluation of Equations of State for Predicting Solid CO_2 Formation in CCS and Natural Gas Applications* Maltby T. W., Aasen A., Hammer M., Wilhelmsen Ø.	*Cryogenic Thermophysical Properties of Hydrogen from Molecular Dynamics with a Feynman–Hibbs–Corrected Mie Potential* Ferra-Maury T., Harrison S., Sahadevan V., Rhead A., Chew J., Herdes C.	*Predicting the Solubilization of Hydrophobic Solutes in Aqueous Surfactant Systems* Völkel M., Sadowski G.	*A Practical Guide to the Uncertainty Evaluation of Thermophysical Properties* Bernardini L., McLinden M., Yang X., Richter M.	*Design of a Low-Temperature Cryostat System and Acoustic Resonator for Precise Speed-of-Sound Measurements in H_2 and Other Light Gases* Hauser M., Latcham R. V., Trusler M. J. P.
10:30	*Experiments and Modeling of Thermophysical and Electrical Properties in CO_2-Rich Mixtures* Tiuman E., Longo J., Trento E., Marozo F., Kabacznik D., Simão C., Santos E., Silva M., Morales R., Marcelino Neto M.	*Development of New Fundamental Equations of State for Hydrogen* Nguyen T. T. G., Lemmon E. W., Thol M., Span R.	*Physical origin of the non-monotonic behavior of the Soret coefficient in salt solutions* Rudani B., Briels W., Wiegand S.	*Korea Thermophysical Properties Databank (KDB): Integrated Platform for Critically Evaluated Thermophysical Data and Property Estimation* Hwang S. Y., Ryu B. C., Rhee J. E., Kang J. W.	*A microwave-resonant cavity for liquid hydrogen boil-off studies* Barwood M., Tenardi L., Stanwix P., May E.
10:50	*Vapor-Liquid Interfacial Properties of CO_2 Mixtures for Sequestration Applications: Molecular Simulations, Classical Density Functional Theory, and Equations of State* Raju D., Skartlien R., Ramdin M., Vlugt T. J. H.	*Calculation of Thermodynamic Properties of Hydrogen by Path Integral Monte Carlo Simulations Using Ab Initio Potentials* Marienhagen P., Garberoglio G., Hellmann R., Meier K.	*Experimental determination of enthalpy of mixing, heat capacity and density for CO_2 + γ-valerolactone system* Hajlaoui A., Coulier Y., Pazoki F., Hevia F., Lozano-Martín D.	*Collection and Evaluation of Properties for the development of Korean Thermophysical Properties Databank (KDB)* Ryu B. C., Kim C. G., Kang J. W.	*Freeze-out Measurements of Impurities in Hydrogen with a Microwave Resonant Cavity* Bond E., Barwood M., Wu W., Dunn J., Tenardi L., May E., Stanwix P.
11:10 - 11:30	**Coffee break with Sponsors Session**				

11:30-13:00	Room 1.07	Room 1.09	Room 2.08	Room 3.01	Room 3.08
	Thermodynamic modelling of hydrocarbon-based fluids	**Transport properties.** Thermal conductivity measurement (I)	**Thermodynamic properties** of phase and chemical equilibria	**Advanced materials design and characterisation.** Nuclear applications	**Thermophysical properties** of refrigerants (II)
	Chaired by D. Vega-Maza	***Chaired by O. Herbinet***	***Chaired by M. Riva***	***Chaired by A. Barakat***	***Chaired by S. Bobbo***
	INVITED LECTURE	**INVITED LECTURE**	**INVITED LECTURE**	**INVITED LECTURE**	**INVITED LECTURE**
11:30	*Application of CP-PC-SAFT with universal k_{12} value for simultaneous prediction of VLE, LLE and critical loci in systems of gases and aliphatic hydrocarbons with substituted aromatic and heterocyclic compounds* **Polishuk I.**	*Thermal conductivity of multi-component mixtures for natural gas* **Wu J.,** Li X.	*Algorithms for chemical and phase equilibrium calculations* **Yan W.**	*Solidification Reaction Processes in Molten Stainless Steel Containing Boron Carbide (B_4C)* **Fukuyama H.,** Higashi H., Adachi M., Ohtsuka M., Yamano H.	*On the intersection of Thermodynamics and Machine Learning for Designing Sustainable Refrigerant Blends* **Alkhatib I. I. I.,** AlAli S., Vega L. F.
11:55	*Vapor-Liquid-Liquid Equilibria and Their Related Interfacial Properties for Ternary Aqueous Mixtures* Ulloa A., Cartes M., Alonso G., Mejía A.	*Thermal Conductivity Measurement: A Comprehensive Review from a Manufacturer's Perspective* Marx H. W.	*A Robust Algorithm for Generating Pressure-Temperature Phase Diagrams with Solid-Liquid Vapor Equilibrium* Yang X., Richter M.	*Thermal Properties Characterization of U_3Si_2/Al Composite Fuels: Multiscale Experimental and Modeling Approaches* Bordes O., Klosek V., Doualle T., Iltis X., Martin F., Reymond M., Sanchez A., Vernière A.	*Molecular Simulation-Guided Design of Eco-friendly and Safe Refrigerant Blend* Akula D., Kumar T. S., Choudhary N.
12:15	*Interfacial Tension in Multiphase Systems Consisting of an n-Alkane or/and a 1-Alcohol with Carbon Dioxide Using Equilibrium Molecular Dynamics Simulations and Surface Light Scattering* Sanchouli N., Zhai Z., Fröba A. P., Koller T. M.	*Measurement of thermal conductivity of R-454A and R-454B mixtures using transient hot wire method* Hoimontee T. I., Morshed M., Saber M. T., Tuhin A. R., Matsunaga T., Tarafdar D., Miyara A.	*Inconsistencies in Entropy for the Reaction of Ammonium Carbamate (NH_2COONH_4) to CO_2 and NH_3 Determined by Equilibrium Measurements and Calorimetry* Woodfield B. F., Tolley H. D.	*Experimental and numerical study of mesostructural effects on the effective thermal conductivity of granular media* Esmiol D., Vanson J. M., Bernachy-Barbe F., Rigollet F., Ehret N., Gardarein J. L.	*Thermodynamic Evaluation of Cubic Equations of State for Solid-Fluid Equilibrium Predictions in Deep-Cryogenic Mixtures* Zhao Y., Wang X., Zhao Y., Gong M.
12:35		*Thermal Conductivity of $[C_4mim][N(CN)_2]$ and $[C_6mim][N(CN)_2]$ Mixtures with H_2O. Understanding Structural Effects.* Nieto de Castro C., Almeida R. M., Santos H., Lourenço M. J.		*Density, surface tension and viscosity of uranium melts at high temperatures: towards a new database for corium properties* Delacroix J., Bitard H., Molina D., Journeau C., Piluso P., Bonev P., Le Tellier R., Tourneix A.	*Density measurements on mixtures relevant for hydrogen liquefaction processes* Sellin J., Kruse L., Span R.
13:00-14:00	**Lunch**				

14:00-15:20	Room 1.07	Room 1.09	Room 2.08	Room 3.01	Room 3.08
	Thermophysical Properties of Hydrates	**Transport Properties.** Thermal Conductivity Measurement (II)	**Advanced Experimental Techniques.** Thermal Imaging	**Advanced Materials Design and Characterisation.** Radiative Cooling (II)	**Thermophysical Properties** of High-Temperature Materials (II)
	Chaired by D. Meimaroglou	***Chaired by L. Bernardini***	***Chaired by M. Riva***	***Chaired by D. Menegazzo***	***Chaired by J. Joliat***
14:00	*Molecular insights into the growth/dissociation of CO_2/CH_4 mixed hydrate: Effects of temperature, addition of NaCl, and CO_2* Moorjani B., Chatterjee S., Adhikari J., Hait S.	*Investigating Thermal Conductivity Anisotropy in Wurtzite Semiconductors: AlN, GaN, ZNO, ZnS* Feulner S., Xu K., Wagner M. R., Graczykowski B., Linseis V., Reparaz J. S.	*Coaxial 2D Imaging Method for Thermophysical Properties Using Lock-in Thermography* Umeda S., Fujita R., Nagano H.	*Cool White: passive radiative cooling technologies for Africa* Schumacher J., Rosemeyer T., Adibekyan A., Diergardt T., Peter A., Kleinbub M., Herzog H., Monte C.	*Interfacial reaction and reprecipitation mechanism between CaO-MgO-Al_2O_3-SiO_2 melts and thermal barrier coatings* Hayashi M., Sano G., Tsukamoto K., Endo R., Watanabe T., Susa M.
14:20	*Predicting the Melting Point of THF Hydrate Using Metropolis Monte Carlo Simulations* Kapadiya P., Moorjani B., Adhikari J.	*New Data on the Heat Capacity, Thermal Conductivity and Viscosity of the Li_2CO_3–Na_2CO_3–K_2CO_3 Molten Eutectic* Nieto de Castro C., Lourenço M. J., Chainho J., Gil M., Nunes V., Rodrigues P., Costa I., Serra J.	*In-Situ Detection of Subsurface Defects in PBF-LB/M using High-Speed Infrared Thermography* Höfflin D., Sauer C., Hartmann J.	*Impact of Low-Emissivity Paints and Films on Radiative Heat Transfer, Thermal Comfort, and Energy Demand: Experimental Characterization and Numerical Simulations* Sciurti G., Morselli N., Puglia M., Muscio A.	*Thermophysical Properties of High-Performance Carbon Insulation for Space Applications* Ebert H.-P., Wiener M., Manara J.
14:40	*Study of CO_2 solubility in hydrate inhibitor systems: Ethylene Glycol + Methanol* Costa M., Medeiros H. D., Feitosa F. X.	*On The Effect Of Heater Heat Capacity On Thermal Conductivity Components Estimation Of Composite Materials When Using The Plane Source Method* D'Alessandro G., Pacheco C.	*Noncontact Measurement of Interfacial Thermal Resistance in Three-Layer Laminates Using Lock-in Thermography* Tanaka K., Fujita R., Nagano H.	*All-day Passive Radiative Cooling Performance of Porous Materials: Anodic Aluminium Oxide and Cellulose-derivative Networks* Manzano C. V., Díaz-Lobo A., Martin-Gonzalez M.	*Optical properties of Cr_2O_3 as a foundation for radiative transfer modeling in chromia-forming alloys* Tolosa-Lecea I., Gabirondo-López J., Sainz-Menchón M., González de Arrieta I., Igartua J. M.
15:00	*Condensate Effects on Gas Hydrate Equilibrium and Nucleation Behaviour* Li C., Sakurai S., Norris B., May E.	*Thermal Conductivity Prediction Model Based on Hidden Scale Invariance* Wang X., Zhao Y., Gong M.	*Anisotropic Approximation to Layered Samples with the Transient Plane Source* Landry D. M., Robson K. F.	*Radiative Cooling Performance of Nanostructured PMMA inside Anodic Aluminium Oxide* Iglesias-Elcano A., Moreno Sanabria L., Schneider M., Worgull M., *Martin-Gonzalez M., Manzano C. V.*	
15:30 – 16:30	**Farewell coffee and ECTP 2026 ending**				

POSTER PRESENTATIONS

Poster hanging:

- Sunday, June 21st, 15:00 - 17:00
- Monday, June 22nd, 08:00 - 09:00 | 12:30 – 14:00
- Tuesday, June 23rd, 08:00 - 09:00

You may install your poster on the panel corresponding to your Poster ID.

Poster exhibition sessions:

- Monday, June 22nd, 15:25 – 16:00
- Tuesday, June 23rd, 10:40 - 11:00 (*Poster Committee Assessment for the Best Poster Award*)
- Tuesday, June 23rd, 16:20 - 17:00 (*Poster Committee Assessment for the Best Poster Award)*

Poster pitch session:

- Monday, June 22nd, 17:25 – 18:55

Poster pitch presentations must comply with the guidelines available on the website and must be sent by e-mail to Julien Joliat (julien.joliat@univ-lorraine.fr) **no later than Saturday, June 20, at 23:00.**

Poster removal:

- Wednesday, June 24rd, 08:00 – 09:00

For participants departing on Monday or Tuesday, please remove your poster at your convenience.

Posters with pitch on Monday June 22nd			
Poster ID	**Main speaker and co-authors**	**Title**	**Poster Pitch time**
1	Wang F., Sfarra S., Ibarra-Castanedo C., Liu Y., Maldague X.	Thermal Diffusivity Estimation in CFRP and GFRP: A Comprehensive MWIR–LWIR Comparative Study in Reflection and Transmission Pulsed Thermography	17:20 – 17:23
2	Strasser C., Hartmann J.	Thermal conductivity of an amine-based epoxy resin during curing	17:25 – 17:28
3	Sainz-Menchón M., González de Arrieta I., Cosson L., Rozenbaum O.	Emissivity of porous alumina membranes: phase transitions and spectral selectivity	17:30 – 17:33
4	Kang J., Nguyen V. P., Lee S. M., Kim D.	Platinum-ALD-Modified Graphene Aerogels for Ultralight Thermal Management	17:35 – 17:38
5	Rowley F., Qusty H., Trusler M. J. P	Understanding solubility limits of amino-acid salt solutions for post-combustion carbon capture	17:40 – 17:43
6	Gupta S., Jander J., Ratka M., Bonten C., Klein T., Schmidt P., Fröba A. P.	Fick Diffusion Coefficients and Solubilities in Blowing-Agent-Loaded Polypropylene Melts	17:45 – 17:48
7	Senadeera K., Kankanamge C., Klein T., Fröba A. P.	Diffusivities in Ternary Electrolyte Mixtures	17:50 – 17:53
8	Rhee J. E., Ryu B. C., Hwang S. Y., Kang J. W.	A Sigma-Profile Prediction Method based on Graph Convolution Network Extended to Silicon-containing Compounds	17:55 – 17:58
9	Knöbel E., Thol M., Vinš V., Štejfa V., Jäger A.	Investigation of the performance of the LKP-SJT EOS by replacing the base fluids for modeling HFE300, Novec649, CO_2 and their mixture	18:00 – 18:03
10	Součková M., Čenský M., Prokopová O., Blahut A., Hrubý J., Vinš V.	Surface Tension of Binary Aqueous Mixtures with Salts Including the Supercooled Metastable Region	18:05 – 18:08
11	Shandy A. N., Hemberger F., Vidi S., Zipf M., Manara J., Hartmann J.	Convolution and FFT Modeling for new LFA application fields	18:10 – 18:13
12	Rosemeyer T., Adibekyan A., Gieseler J., Fehse D., Häfner R., Monte C.	Emissivity measurements at PTB: development of a new spherical enclosure	18:15 – 18:18
13	Nishiyama T., Yamauchi H., Akasaka R., Gao L.	Measurements of the Liquid-Phase Speed of Sound for R1132(E) at Temperatures from 10 to 80 °C and Pressures up to 10 MPa	18:20 – 18:23
14	Kondou C., Nishifuji T.	Influence of Interfacial Enrichment on the Prediction of Surface Tension for Fluid Mixtures: A Molecular Dynamic Simulation Study	18:25 – 18:28
15	Herrera J., Cartes M., Mejía A.	Thermophysical Properties Of Methyl Butirate+ Diethyl Carbonate Binary Mixture	18:30 – 18:33
16	Lin G., Bernardini L., Luther F., Trusler M., Richter M.	A Reference Standard Raman Spectrometer for the Determination of the Hydrogen Isomer Composition	18:35 – 18:38
17	Sprick M., Raabe G.	Force Field Development of Organometallic Compounds for Solvation Free Energy prediction	18:40 – 18:43
18	Medina-Cid B., Mejía A.	Prediction of liquid-liquid-liquid phase equilibrium	18:45 – 18:48
19	Bourgès C., Le Mener M., Berckmans W., Courtois E., Pierre T., Courtois M.	Carmélide: a new microgravity facility for measuring the viscosity of liquid metals at high temperatures	18:50 – 18:53

Posters		
Poster ID	**Main speaker and co-authors**	**Title**
20	Alcantara M., Coutinho J.	COSMO based machine learning for predicting long-term thermal stability of ionic liquids
21	Costa M., Medeiros H. D., Feitosa F.	Joule-Thomson coefficient from hydrate inhibitor systems: methanol + methane case
22	Lee S., Kim D., Lee S., Kang W., Kwon S.	Measurement of Isobaric Heat Capacity of Difluoromethane / Trifluoroiodomethane Binary Mixtures
23	Mombeini D., Blabus H., Chittem P., Schmidt P., Koller T., Rausch M., Adschiri T., Yoko A., Fröba A. P.	Effective Thermal Conductivity of Cyclohexane-Based Nanofluids Containing Cerium Dioxide Nanoparticles
24	Ji H., Wang S., Wan J., Yang J., Wu J., Meng X.	Liquid Viscosity Measurements for 3,3,3-Trifluoropropene (R1243zf) and its Binary Mixtures with 1,1,1,2-Tetrafluoroethane (R134a) at Pressures up to 40 MPa
25	Ji H., Zhou X., Wang S., Yang J., Wu J., Meng X.	Viscosity Measurements of Binary Hydrogen Gas Mixtures Containing Nitrogen and Carbon Dioxide at Temperatures from (243 to 573) K and Pressures up to 20 MPa
26	Vera W. T., Medeiros H. D., Feitosa F., de Sant'Ana H.	Revealing phase equilibria and the quadruple point in the CO_2 + o-terphenyl system under high-pressure and high-temperature conditions
27	Kapadiya P., Adhikari J.	Prediction of thermodynamic properties of m-cresol: Comparison of TraPPE-UA and OPLS-AA force fields
28	Kapadiya P., Adhikari J.	Prediction of Henry's law constants for CO_2 and CH_4 in Levulinic acid via different Monte Carlo approaches
29	Shuaib A., Adhikari J.	Molecular Insights into "Sugaring out" of Acetonitrile from Its Aqueous Solution via addition of n-alkanols
30	Hadjadj R., Joliat J., Vilas-Boas S., Herbinet O., Lasala S.	Thermochemical screening of reactive working fluids for energy conversion cycles
31	Santos J. P., Zelenovskii P., Figueiredo F., Abranches D. O.	Predicting and Understanding Peptide Aggregation using Stochastic Machine Learning
32	Štejfa V., Kocian Š., Fulem M., Růžička K.	The Contribution of Vapor Pressure Measurement to Unravelling of Polymorphic Behavior of Organic Compounds
33	Cassiède M., Stenby E., Yan W.	High-pressure pH measurements for assessing chalk reactivity under CO_2 storage conditions
34	Strasser C., Moukhina E., Hartmann J.	Degradation of an amine-based epoxy resin
35	Kim Y.-G.	Measurement of the melting-freezing transition temperature of palladium
36	Bond E., Arellano Y., Trusler J. P. M.	Properties of pure and impure carbon dioxide for application in CCS
37	Prokopová O., Čenský M., Blahut A., Vinš V.	Viscosity of Selected Reference Liquids and New Data for Hydrofluoroethers Measured with Rotational Viscometers
38	Blahut A., Prokopová O., Lukianov M., Vinš V., Hrubý J.	Water-glycerol - density measurements entering supercooled region

39	Khaddadi S., Herbinet O., Bounaceur R., Lasala S.	Generative and Predictive Approach for the Design of Energy Fluids Using Deep Learning
40	Fabian J., Alcantara M., Sosa F., Coutinho J.	Experimental long term thermal stability of ionic liquids with minimum TGA experiments
41	Zhu C., Feng C., Li C., Yang T.	Application of PC-SAFT EoS to DES systems with a Group Contribution Method
42	Velázquez I., Sastre R., Reyes M.	Calibration and perfromance assessment of equations of state for supercritical CO_2 mixtures applied to the NET Power cycle
43	Giner-Rajala Ó., López E. R., Amigo A., Fernández J.	Enhancing the electrical conductivity of electric vehicle transmission fluids with nanomaterials and ionic liquids
44	Pinilla-Monsalve L., Portha J. F., Lasala S.	Modeling Reactive Mixtures as Working Fluids for Power Cycles
45	Kebou M. K., Lasala S., Bounaceur R., Herbinet O.	Predictive approach to the thermodynamic properties of working fluids using machine learning models
46	Altoé F. S., Blanco G. G., Dias R. M., Vilas-Boas S. M., da Costa M. C.	Influence of γ-Valerolactone on the Flash Point of Fatty Acid Ethyl Ester Mixtures
47	Riaz M. U., Breitkopf C.	Theoretical investigation of thermo-mechanical properties of epoxidised natural rubber composites
48	Barwood M., Falloon P., May E.	Accurate Predictions of the Fugacity of Pure Molecular Solids
49	Falloon P., Zhu D., Norris B., May E.	Overview of the ThermoFAST Software Package
50	Bastias-Barra A., Gajardo-Parra, Canales, Pérez-Correa	Towards Equation-Oriented Parameter Estimation for the PC-SAFT Equation of State: Application to Polyphenolic Systems
51	Hou X., Li F., Xue J., Fan A., Zhang Y., Zhang F., Ma W., Zhang X.	Mechanism of Edge Hot-Spot Formation in GaN HEMTs: Multiphysics and Trap-State Modeling
52	Yang T., Zhu C., Shen J.	Thermophysical Properties of Normal Hydrogen Probed by Monte Carlo Simulation
53	Costa S. F. M., Guimarães M. D., Abranches D. O., Ferreira A. M., Coutinho J. A. P., Pinho S. P., Ferreira O., Martins M. A. R.	Machine learning-driven discovery of environmentally friendly solvents for polylactic acid recycling
54	Yoshida Y., Ryuichi S., Sakiyama T., Kumar S. S., Alem H., Meimaroglou D.	Thermally Reversible Networked Polydithiourethanes: Self-Healing and Recyclability via Dynamic Covalent and Hydrogen Bonding
55	Cambiaso A., Cruz Ruiz L. M., Velázquez Palencia I., Lasala S.	Thermodynamic Model assessment of LTHP working with Reactive Carboxylic Acids and development of Compression Units suitable to these specific fluids
56	Watanabe H.	Cross-Property and Cross-Method Consistency Validation of High-Temperature Thermophysical Properties of Refractory Metals by Multi-Stepwise Pulse Heating