

Scientific contributions - Oral presentations

GEFTA Science Award

Netzsch-GEFTA Award

TAlstruments Industrial Research Award

Awa1	Christoph Schick (Rostock) <i>Calorimetry on time scales from microseconds to days</i>
Awa2	Jaroslav Šesták (Prague, CZ) <i>Peculiarities of nano-structured systems: Thermodynamic (top-down) and quantum (bottom-up) issues</i>
Awa3	Leon Olde Damink (Herzogenrath) <i>Nerve guides - Thermal analysis as a key to successful product design</i>

Key lectures

KeyA1	Erhard Kemnitz (Berlin) <i>Fluorolytic Sol-Gel synthesis: A new approach towards nanoscopic metal fluorides</i>
KeyA2	Jens Fischer (Basel, CH) <i>Thermal properties of dental ceramics strongly influence their clinical success</i>
KeyA3	Wolfgang Bensch (Kiel) <i>Thermal decomposition of thiomolybdate precursors for preparation of catalysts</i>
KeyA4	Krzysztof Pielichowski (Kraków, PL) <i>Application of thermal analysis for the design of novel inorganic-organic hybrid materials</i>
KeyB1	Dirk Walter (Gießen) <i>Toxicity of dust - Relevant parameters of health hazard</i>
KeyC1	Matthias Epple (Duisburg-Essen) <i>Applications of thermal analysis in biomaterials science and biomineralization</i>
KeyD1	Francis Stoessel (Basel, CH) <i>Application of calorimetry to the safety of industrial processes - From incidents to a mature science</i>
KeyD2	Gerhard Ziegmann (Clausthal-Zellerfeld) <i>Reaction kinetics of epoxide systems in composite materials</i>
KeyD3	S. Walter, S. Freitag, M. Tyrode (Mulhouse, F) <i>Thermal runaway prevention of high purity metals reacting with organic reagents</i>
KeyE1	J. Lerchner, T. Hartmann, A. Wolf, F. Mertens (Freiberg) <i>Towards high throughput chip calorimetry by use of segmented flow technology</i>

A Thermal analysis and calorimetry for the development of new materials

A1	K. Heide (Jena) <i>Mass-spectrometric EGA - an useful tool in material and geochemistry</i>
A2	J. Varga, M. Fischer, S. Wohlfahrt, M. Saraji-Bozorgzad, G. Matuschek, T. Denner, A. Reller, R. Zimmermann (München-Neuherberg) <i>Investigation of Sulfur Allotropes with Thermal Analysis - Single Photon Ionization Mass Spectrometry</i>
A3	A. A. Efimova, L. Pfützner, G. Hubrig, P. Schmidt (Cottbus-Senftenberg) <i>Thermal behavior and thermal decomposition mechanism of some alkyl-imidazolium ionic liquids</i>
A4	U. Bentrup, F. Emmerling, C. Rautenberg (Rostock) <i>Thermal decomposition of Keggin-type ammonium bismuth phosphomolybdates</i>
A5	S. Yariy, I. Lapides (Jerusalem, IL) <i>Formation of charcoal-montmorillonite complexes during the thermal analysis of organo-montmorillonites, their structures and stabilities</i>
A6	T. Engel, S. Schäfer, J. Moritz, G. Kickelbick (Saarbrücken) <i>Thermal analysis methods as a tool in the study of surface-functionalized inorganic nanoparticles</i>
A7	T. Gestrich, M. Herrmann, A. Kaiser, R. Neher (Dresden) <i>Thermal analysis of ceramic materials at high temperatures</i>
A8	J. I. Salazar Gómez, H. Lohmann, B. Krüger, B. Zeidler-Fandrich, I. Meyer, S. Reil, M. Jakuttis, A. Hornung (Oberhausen) <i>Thermal characterization of hydration-dehydration behavior of MgO composites as candidates for high-temperature waste heat storage</i>
A9	P. Tabero, E. Pawlowska (Szczecin, PL) <i>Reactivity of T-Nb₂O₅ or H-Nb₂O₅ towards Li₂CO₃</i>
A10	J. I. Salazar Gómez, B. Krüger, B. Zeidler-Fandrich, S. Bruzzano (Oberhausen) <i>Thermally responsive Diels-Alder materials as potential heat storage systems for the protection of electronic devices</i>

B Raw materials, environment, and sustainable development

B1	E. Smidt, J. Tintner, S. Klemm (Wien, A) <i>Aging of historical charcoals in the environment</i>
B2	C. Ortmann (Eschborn) <i>Investigation of contaminated soils</i>
B3	N. O. Gorodylova, V. Kosinová, P. Bělina, P. Šulcová (Pardubice, CZ) <i>Study on complex chromium zirconium phosphates for application as inorganic colourants</i>
B4	J. Rauch (Braunschweig) <i>Isoperibol gas calorimeter with a stirred water bath - uncertainty contributions of temperature inhomogeneities</i>

C Bioinorganics, biological and pharmaceutical systems

C1	Géza Regdon (Szeged, H) <i>Importance of thermal analysis in pharmaceutical technology</i>
C2	A. Ferencz, T. Fekecs, M. Mehdi, I. Zapf, D. Lőrinczy (Pécs, H) <i>DSC as a diagnostic tool in the medical applications</i>
C3	E. Marti, E. Kaisersberger (Basel, CH, Marktleuthen) <i>Prediction, crystallization and stability of polymorphs: Influenced by the entropy differences of their solid states</i>
C4	F. Könczöl, D. Lőrinczy (Pécs, H) <i>Examination of the cyclophosphamide induced polyneuropathy on Guinea pig sciatic nerve and gastrocnemius muscle with differential scanning calorimetry</i>

E Instrumentation, Theory

E1	P. Šimon, T. Dubaj, Z. Cibulková (Bratislava, SK) <i>Reasonable application of isoconversional methods</i>
E2	A. Brandenburg, E. Wappler, R. Moos, J. Kita (Bayreuth) <i>Development and optimization of a novel miniaturized ceramic differential scanning calorimeter</i>
E3	E. Moukhina (Selb) <i>Direct Fourier analysis in modulated thermogravimetry</i>
E4	E. Dümichen, U. Braun, H. Sturm, R. Senz (Berlin) <i>A new method for analyzing the decomposition gases of polymers by thermogravimetric solid-phase extraction thermal desorption gas chromatography mass spectrometry (TGA-SPE/TDS-GC-MS)</i>
E5	M. A. Bohn (Pfinztal) <i>Modelling of DMA loss factor of elastomer binders for composite materials to separate binder fractions with different molecular mobility to assess their changes on external impacts</i>
E6	E. Zhuravlev, J. W. P. Schmelzer, A. S. Abyzov, V. M. Fokin, R. Androsch, Ch. Schick (Rostock) <i>Two-stage crystallization of poly(ϵ-caprolactone) studied by Fast Scanning Calorimetry</i>
E7	E. Moukhina, A. Schindler (Selb) <i>Automatic evaluation and identification of DSC curves</i>
E8	J. E. K. Schawe, E. Hempel (Schwerzenbach, CH) <i>Influence of processing conditions on polymer crystallization measured by fast scanning DSC</i>
E9	M. Feist, M. Ahrens, A. Siwek, Th. Braun, E. Kemnitz (Berlin) <i>Silane-modified aluminium chlorofluoride - Various ways of qualitative evaluation of PulseTA measurements</i>
E10	P. van Ekeren, H. Berden, W. de Klerk, G. van den Mooter, Th. Pijpers, G. van den Poel (Therm. Anal. Working Group of the NL) <i>Quantitatively measuring the resolutions of a DSC using n-hexatriacontane</i>

Poster contributions
(Alphabetically ordered by the first author)

P1	R. Arhelger, B. Brückel, M. Roth, D. Walter (Giessen) <i>Safety and health in the workplace - Verification of flour dust</i>
P2	K. Bajer, U. Braun (Berlin) <i>The memory effect in polyolefinic products: A tool for confirming the steam-sterilization process?</i>
P3	Christian Blocks, Robert Heinemann, Peer Schmidt (Senftenberg) <i>Vapor phase equilibria in the system Zn/P/O</i>
P4	A. Blonska-Tabero, E. Filipek, A. Galera (Szczecin, PL) <i>Preliminary study on a new solid solution $Co_{2-x}Mg_xFeV_3O_{11}$: synthesis, thermal stability and IR spectra</i>
P5	M. Bosacka, E. Filipek (Szczecin, PL) <i>The synthesis and thermal stability of $In_3Cu_2VO_9$</i>
P6	A. Brandenburg, E. Wappler, J. Kita, R. Moos (Bayreuth) <i>Influence of the temperature distribution on the thermal resolution of a miniaturized ceramic differential scanning calorimeter</i>
P7	G. Buntebarth, A. Péntek, A. Weller (Clausthal-Zellerfeld) <i>Thermal and humidity-dependent expansion of rocks</i>
P8	G. Dąbrowska (Szczecin, PL) <i>Phase relation in the $ZnSb_2O_6$-$ZnTa_2O_6$ system</i>
P9	M. Dreifke, D. I. Fried, M. Fröba (Hamburg) <i>Designing enzyme cascades for cofactor regeneration</i>
P10	E. Durand, B. Guillaume, A. Demourgues, A. Tressaud (Bordeaux, F) <i>When thermal analysis leads to fundamental information in chemistry: the case of fluorinated materials</i>
P11	T. Gestrich, J. Meinel, A. Michaelis (Dresden) <i>Processes during oxidative stabilisation of PAN-based carbon fibres</i>
P12	W. Hohenauer, D. Lager (Wien, A) <i>Thermophysical properties of un-charred cork</i>
P13	M. Jablonski, S. Tylutka (Szczecin, PL) <i>The influence of the initial concentration of sulphuric acid on thermal effect of the reaction with titanium raw materials</i>
P14	M. Jablonski, S. Tylutka (Szczecin, PL) <i>Thermokinetics parameters for determination of risk of thermal explosion in the reaction of sulfuric acid with titanium raw materials</i>
P15	D. Klimm (Berlin) <i>Thermal analysis for crystal growth beyond 2000°C: Case studies</i>

P16	C. Lavenn, N. Guillou, G. Ledoux, R. Chiriac, A. Fateeva, <u>B. Jouguet</u> , A. Demessence (Lyon, F) <i>In-depth study of the solid-state crystallization of a luminescent gold-thiolate coordination polymer</i>
P17	<u>J. Lerchner</u> , T. Hartmann, A. Wolf, F. Mertens (Freiberg) <i>Chip calorimetry of aggregated biological samples in segmented flow</i>
P18	<u>C. Meyer</u> , R. Schadrack, R. Müller (Berlin) <i>Calibration of a push rod dilatometer</i>
P19	B. Mietner (Hamburg) <i>Melting and freezing of water in ordered, nanoporous host structures with different surface polarities</i>
P20	<u>P. Myśliński</u> , Ł. Szparaga, P. Kamasa, A. Gilewicz, J. Ratajski (Koszalin, PL) <i>Application of dilatometry with modulated temperature for thermo-mechanical analysis of antiwear coating/substrate systems</i>
P21	<u>A. Paczesna</u> , E. Filipek, A. Gontarek (Szczecin, PL) <i>DTA-TG and XRD studies of the Ni₂InVO₆-CuO system</i>
P22	A. Pająk, <u>S. Żaczek</u> , P. Rybiński, G. Janowska (Łódź, PL) <i>Flammability and thermal stability of elastomeric composites containing aluminium or magnesium hydroxide and phthalocyanine derivatives</i>
P23	<u>M. Piz</u> , G. Dąbrowska, E. Filipek (Szczecin, PL) <i>High-temperature reactions in the ternary VO₂-Nb₂O₅(Ta₂O₅)-Fe₂O₃ systems</i>
P24	<u>S. Reinsch</u> , R. Müller, J. Deubener, H. Behrens <i>DMTA study of hydrated soda-lime-silicate glasses</i>
P25	<u>U. Sazama</u> , K. Peikert, M. Fröba (Hamburg) <i>Thermally induced phase transition behaviour of three new fluorinated metal-organic frameworks</i>
P26	R. Stößer, <u>M. Feist</u> , C. Willgeroth, F. Emmerling, M. Menzel, H. Reuther (Berlin, Dresden) <i>The "quiet" Goldschmidt reaction $2 Al + \alpha\text{-Fe}_2\text{O}_3 \rightarrow 2 Fe + \alpha\text{-Al}_2\text{O}_3$</i>
P27	<u>P. Šulcová</u> (Pardubice, CZ) <i>Activities of the Czech Group for Thermal Analysis</i>
P28	<u>P. Šulcová</u> , K. Těšitelová (Pardubice, CZ) <i>Study of mixed oxide pigments based on Bi-Ce-Nb</i>
P29	P. Tabero, A. Frackowiak (Szczecin, PL) <i>Formation of the Al₈V₁₀W₁₆O₈₅ by the solution method</i>
P30	J. Tintner, <u>E. Smidt</u> (Wien, A) <i>Description and interpretation of organic matter in soils and waste by means of thermal analysis</i>
P31	<u>E. Tomaszewicz</u> , E. Filipek (Szczecin, PL) <i>Phase equilibria and thermal stability of CuMo_(1-x)W_xO₄ and CuW_(1-y)Mo_yO₄ in the CuMoO₄-CuWO₄ system</i>

P32	<u>A. Vogel</u> , S. Platz, T. P. Vu, F. Kern, U. Menzel, R. Gadow (Stuttgart) <i>Thermal behaviour of powdered activated carbon and sewage substances after the separation by a combined electrocoagulation and electroflotation process</i>
P33	<u>S. Wrabetz</u> , T.C.R. Rocha, D. Teschner, A. Knop-Gericke, G. Vilé, J. Pérez-Ramirez, R. Schlögl (Berlin, Zürich, CH, Guará, BR) <i>Active sites characterisation using adsorption microcalorimetry at reaction temperature</i>

Late-nominated poster contributions

P34	<u>V. Siozios</u> , St. Neuenfeld, W. Kunze (Eschborn, Darmstadt) <i>Sample mass and heating rate influence on the DSC resolution of n-Hexatriacontane</i>
P35	Cl. Flügel, E. Kemnitz (Berlin) <i>Nano composites based on nano magnesium fluoride and the perfluoropolymer THV</i>
P36	<u>A. Tarasov</u> , J. Schumann, S. Kühl, M. Behrens (Berlin) <i>Thermal analysis as a guide for preparation of supported Cu-catalysts</i>