#### **PROGRAM**

# Tuesday, June 17<sup>th</sup>

Time Schedule	ıle	
15.00 - 19.00		
18.30 - 19.30		

### Wednesday, June 18<sup>th</sup>

Time Schedule		
8.00 - 12.00	Registration	
8.45 - 9.10	Opening Ceremony	
9.15 - 9.35	Jean ROUQUEROL Calorimetry, from inspiration to recognition	
9.40 - 10.10	Welcome Coffee break, Instrument exhibition, Poster Session	
10.15 - 10.50	STK AWARD LECTURE  Anna SEELIG: Multidrug resistance- Insights with thermodynamics	
10.55 - 11.25	Hans-Joachim LUNK Chemistry of powder metallurgical production of tungsten for lighting and general application	
11.30 - 12.10	Poster Session – Instrument Exhibition	

WEDNESDAY	STREAM A : LIFE SCIENCE – PHARMA	STREAM B : CHEMICAL SAFETY
12.15 - 12.30	<b>Gabriela KLOCEK:</b> Melittin interaction with sulphated cell surface sugars	<b>Gilles RICHNER:</b> Fast online heat capacity determination with a new small-scale reaction calorimeter
12.40 - 13.50	LUNCH	
	STREAM A : LIFE SCIENCE – PHARMA	STREAM B : CHEMICAL SAFETY
14.00 - 14.25	<b>Danielle GIRON:</b> Challenging characterization and monitoring of polymorphs and pseudopolymorphs in pharmaceutical industry: latest developments	Nicolas SBIRRAZZUOLI: Isoconversional Kinetic Analysis of Thermally Stimulated Processes in Polymers
14.30 - 14.45	<b>Jacques LOUBENS:</b> A review of microcalorimetry applications in chemicals, pharmaceuticals and biological materials	<b>Françoise ROUQUEROL :</b> How should we rely on the Arrhenius' law in heterogeneous kinetics?
14.50 - 15.05	Karin GEHRICH: Thermal behaviour of some pharmaceutical excipients	<b>Gérard THOMAS</b> : Thermal analysis for studying powder ageing
15.10 - 15.25	<b>Jean-François WILLART:</b> Solid state transformations in pharmaceutical materials induced by milling	Francis STOESSEL: Full scale calorimetry a tool for process control
15.30 - 15.55	Janny DANDURAND: Molecular mobility of a collagen/peptides mixture	<b>Jacques WISS</b> : Calorimetry or spectroscopy for on-line monitoring of chemical processes?
16.00 - 16.15	<b>Nicolas DUJARDIN:</b> Solid state vitrification of glucose by mechanical milling	<b>Ena SMIDT :</b> Development of organic waste and incineration residues—monitoring by TG/MS and DSC
16.20 - 17.00	Coffee break, Instrume	ent exhibition, Poster Session
	THERMAL APPLICATIONS	
17.05 - 17.30	Bertrand RODUIT: Evaluating thermal aging, SADT and TMRad by advanced kinetics-based simulation approach	
17.35 - 18.00	Eric DANTRAS: Thermal and mechanical study of a biomimetic nanocomposites for bone substitution	Serge WALTER: Thermal measurements for non thermal applications
18.05 - 18.30	Break	
18.30 - 19.30	AFCAT, GEFTA and STK annual meetings	

## Thursday, June 19<sup>th</sup>

Time Schedule		
8.30 - 9.05	NETZSCH - GEFTA AWARD LECTURE: Erwin KAISERSBERGER: Application of thermal analysis for new materials and new technologies	
	STREAM A: COUPLING TECHNIQUES	STREAM B: THERMAL APPLICATIONS
9.10 - 9.35	Marek MACIEJEWSKI: Advantages of monitoring gas composition in thermoanalytical experiments	<b>Jean-Pierre GROLIER:</b> Effect of water content on glass transition and heat capacities of starch: the use of conventional DSC and temperature modulated DSC (TMDSC)
9.40 - 9.55	<b>Florian EIGENMANN :</b> Quantification of FTIR signals with pulse thermal analysis	Pierre REUSE: Downsizing the sample, not the quality
10.00 - 10.15	<b>Ekkehard FÜGLEIN :</b> Characterization of decomposition gases by means of coupling techniques such as TG-FTIR-MS	<b>Alice MIJA:</b> Application of stochastic modulated DSC (TOPEM®) to the glass transitions of lignin
10.20 - 10.35	Jan HANSS: An easy way to reduce oxygen in thermogravimetric analysers	Valentin VALTCHEV: Thermochemistry and zeolite nucleation
10.40 - 11.10	Coffee break, Instrument exhibition, Poster Session	
11.15 - 11.40	Ralf ZIMMERMANN: Photo-ionisation mass spectrometry for evolved gas analysis in thermogravimetry: Real-time detection of the organic signatures upon thermal treatment of polymers, bio mass fractions and crude oils	Peer SCHMIDT: The trace to ternary phosphide tellurides
11.45 - 12.00	<b>Dirk WALTER:</b> Characterization of carbon black, diesel exhaust and toner material by electron microscopy and thermal analysis	<b>John DUNCAN:</b> A novel plastics quality assurance testing device – identitiPol QA.
12.05 - 12.20	Stefan HOFFMANN: MS-TG-DTA under inert conditions	<b>Rudolf RIESEN</b> : Temperature modulated DSC: TOPEM <sup>®</sup> to identify thermal transitions
12.25 - 12.40	<b>Madeleine DJABOUROV :</b> Microcalorimetry and rheology of gelling systems	<b>Mohamed JEMAL:</b> Mechanisms of the attack of phosphates by acid solutions: a microcalorymetry application
12.45 - 13.50	LUNCH	

# Thursday, June 19<sup>th</sup>

14.00 - 14.20	<b>Michael FEIST:</b> Dynamic and stepwise isothermal heating runs for elucidating a decomposition mechanism; a TA-MS investigation of ammonium paratungstate tetrahydrate under non-reducing conditions.	Erwin MARTI: Reference substances and materials for the characterization and calibration of instruments in thermal analysis
14.25 - 14.40	Aline AUROUX: The use of coupling microcalorimetry to other techniques to study catalyst surfaces and catalytic processes.	<b>Rémi ANDRÉ :</b> Development of a new tool for the assessment of heat capacity at high temperatures based on Calvet principle
14.45 - 15.00	<b>Bernadette JOUGUET :</b> An in depth study of supported nanogold oxidation catalysts using adsorption calorimetry and thermal analysis techniques coupled with mass spectrometry	<b>Kai HASSDENTEUFEL:</b> Determination of the specific heat capacity of various inorganic materials up to 1600 °C
15.05 - 15.35	Coffee break, Instrument exhibition, Poster Session	
16.00 - 19.30	EXCURSION	
20.00 - 23.30	CONFERENCE DINNER	

# Friday, June 20<sup>th</sup>

Time Schedule			
8.30 - 9.05	Christelle LOPEZ: Coupling of time-resolved s	AWARD LECTURE: synchrotron X-ray diffraction and DSC to elucidate	
	the crystallisation properties and polymorphism of triglycerides in milk fat globules		
	STREAM A : FOOD	STREAM B: THERMAL APPLICATIONS	
9.10 - 9.25	<b>Alejandro MARABI:</b> New insights into the dissolution enthalpy and kinetics of food powders	<b>Gérard THOMAS :</b> Thermal reactivity of silica gel-magnesium stearate solid mixtures. Application to the modelling of interaction forces between materials	
9.30 - 9.45	<b>Reinhard SCHUBRING:</b> Crystallisation and melting behaviour of fish oil measured by DSC	<b>Saeda DIDAOUI-NEMOUCHI:</b> Correlation and prediction of volumetric and Thermal behavior of binary system of Thiophene with alkanes (C7-C12) from 288.15 to 313.15K	
9.50 - 10.10	Elisabeth VAN HECKE: Determination of thermal properties of food products below atmospheric pressure	<b>Sabine VALANGE:</b> Stabilization of Fe <sub>2</sub> O <sub>3</sub> nanoparticles into SBA-15 mesopores and on mesoporous alumina through thermal degradation of iron chelates: a new route yielding performant Fenton catalysts	
10.15 - 10.45	Coffee break, Instrument exhibition, Poster Session		
	THERMAL APPLICATIONS		
10.50 - 11.15	Emmerich WILHELM: A brief survey of some recent calorimetric results	Colette LACABANNE: Physical properties of hybrid ferroelectrics nanomaterials	
11.20 - 11.35	<b>Thierry CHOUCROUN:</b> Advanced DSC and STA tests using state-of -the -art instruments	Andreas WURM: Simultaneous calorimetric, dielectric and SAXS/WAXS experiments during polymer crystallization	
11.40 - 11.55	<b>Tim GESTRICH:</b> Characterisation of the influence of humidity on powdertechnological processes by means of thermal analysis	<b>Pierre REUSE :</b> On-line reaction calorimetry optimisation of safety parameters	
12.00 - 12.15			
12.20 - 12.45	CLOSING CEREMONY		
12.50 - 14.00	LUNCH BUFFET and Participants' Departure		