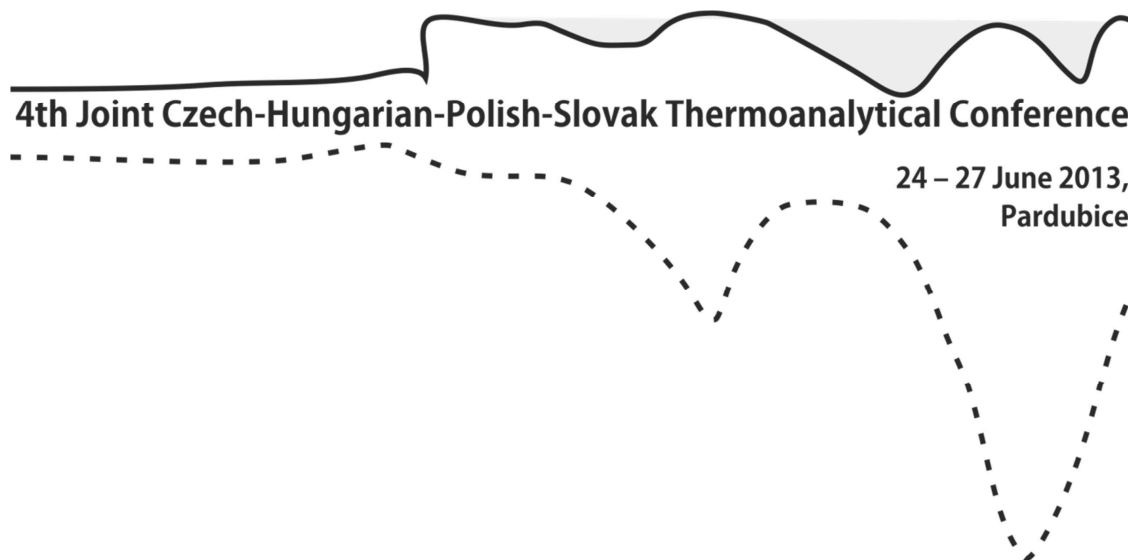


4th Joint Czech-Hungarian-Polish-Slovak Thermoanalytical Conference



PROGRAMME

24.6.-27.6.2013
Pardubice, Czech Republic

University of Pardubice
Faculty of Chemical Technology

Czech Group for Thermal Analysis
at Czech Chemical Society

SCIENTIFIC COMMITTEE

Denés Lőrinczy, *Hungary*

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Barbara Małecka, *Poland*

Barbara Pacewska, *Poland*

Peter Šimon, *Slovak Republic*

Petra Šulcová, *Czech Republic*

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Chairwoman: Petra Šulcová, *University of Pardubice, Czech Republic*

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SPONSORS

NETZSCH



CONFERENCE TIMETABLE

Monday, 24th June, 2013

14:00 – 17:00	Registration	<i>Central foyer of the building HA</i>
17:00 – 17:30	Opening ceremony	<i>Lecture room C1 HA</i>
17:30 – 19:00	Invited lectures	<i>Lecture room C1 HA</i>
19:00	Opening of a photographic exhibition “KYOTO 2012”	
19:00 – 22:00	Welcome reception	<i>Central foyer of the building HA</i>

Tuesday, 25th June, 2013

8:45 – 10:15	Lectures and discussion	<i>Lecture room C1 HA</i>
10:15 – 10:35	Coffee break	<i>Central foyer of the building HA</i>
10:35 – 12:40	Lectures and discussion	<i>Lecture room C1 HA</i>
12:40 – 14:00	Lunch	<i>Labská Hotel Management School</i>
14:00 – 16:30	Lectures and discussion	<i>Lecture room C1 HA</i>
16:30	Coffee break	<i>Central foyer of the building HA</i>
16:30 – 18:00	Poster section	<i>Central foyer of the building HA</i>
18:00 – 19:00	Conference dinner	<i>Labská Hotel Management School</i>
19:00 – 20:30	General Assembly of Czech Group for Thermal Analysis	

Wednesday, 26th June, 2013

8:45 – 10:15	Lectures and discussion	<i>Lecture room C1 HA</i>
10:15 – 10:35	Coffee break	<i>Central foyer of the building HA</i>
10:35 – 12:40	Lectures and discussion	<i>Lecture room C1 HA</i>
12:40 – 14:00	Lunch	<i>Labská Hotel Management School</i>
15:00 – 17:30	Sightseeing walking tour of old town and castle	
17:30 – 21:00	Conference banquet in Knightly Halls of Pardubice castle	

Thursday, 27th June, 2013

8:45 – 10:15	Lectures and discussion	<i>Lecture room C1 HA</i>
10:15 – 10:35	Coffee break	<i>Central foyer of the building HA</i>
10:35 – 12:30	Lectures and discussion	<i>Lecture room C1 HA</i>
12:30 – 13:00	Closing ceremony	<i>Lecture room C1 HA</i>
13:00 – 14:00	Lunch	<i>Labská Hotel Management School</i>

GENERAL INFORMATION

The 4th Joint Czech-Hungarian-Polish-Slovak Thermoanalytical Conference will take place in the Faculty of Chemical Technology of the University of Pardubice (Studentská 573, Pardubice).

Participants of the conference can benefit WIFI connection in central foyer of the building HA.

General Assembly of Czech Group for Thermal Analysis will be held in lecture room C2 in the building HA on Tuesday 25th June 2013 (19:00).

Start of sightseeing walking tour of old town and castle begins at 15:00 in front of the theatre (26th June 2013).

PRESENTATIONS

Speakers are kindly asked to test their presentation in the lecture room at the break before the lecture at the latest.

Plenary lectures: 40 min.

Oral presentations: 25 min.

Posters should be hung on Monday, 24th June and take down on Thursday, 27th June. During poster session on Tuesday, 25th (16:30-18:00) authors should be present for discussion at the posters.

The exhibition of photos by Pavel and Jaroslav Šesták: KYOTO 2012 will be in existence for the duration of the conference.

PUBLICATION OF PAPERS

Selected contributions, as full papers, will be published in a Special Issue of the Journal of Thermal Analysis and Calorimetry. The papers should be submitted exclusively through the Editorial Manager system, so please follow the instructions at <http://www.editorialmanager.com/jtac/>. It is essential to type in the "Comments" window that this paper belongs to the 4th joint Czech-Hungarian-Polish-Slovak conferences. The papers will be refereed by independent experts.

*Deadline for submitting papers for this Special Issue of the Journal of Thermal Analysis and Calorimetry is **1.10.2013**.*

CONFERENCE BUREAU

Conference Bureau will be operation at the central foyer of the building HA.

Monday, 24 th June, 2013	14:00 – 17:00
Tuesday, 25 th June, 2013	09:00 – 13:00
Wednesday, 26 th June, 2013	09:00 – 11:00
Thursday, 27 th June, 2013	09:00 – 11:00

17:00 – 17:30	Opening ceremony		
Chairman: MÁLEK J.			
17:30 – 18:15	IL-1	KOGA N.	Phenomenology and physico–geometrical kinetics of thermal decomposition of solids
18:15 – 19:00	IL-2	MAŁECKI A.	Underestimated problem–statistical analysis of the results of measurements in thermal analysis
19:00	Opening of a photographic exhibition “KYOTO 2012”		
19:00 – 22:00	Welcome reception		

Chairman: MAŁECKI A.			
8:45 – 9:25	PL-2	PACEWSKA B.	Some aspects of the use of thermal analysis and calorimetry in the studies of binding materials
9:25 – 9:50	L-10	<u>WILIŃSKA I.</u> , PACEWSKA B.	Influence of spent aluminosilicate catalyst on hydration of fly ash – cement paste
9:50 – 10:15	L-6	<u>PALOU M.</u> , KOZÁNKOVÁ J., KULIFFAYOVÁ M., WASSERBAUER J.	Influence of hydrothermal curing upon the hydration of oil-well cement
10:15 – 10:35 Coffee break			
Chairman: MAŁECKA B.			
10:35 – 11:00	L-2	<u>DRÁBIK M.</u> , GÁLIKOVÁ L., SCHOLTZOVÁ E., ŠPYRKOVÁ E.	Thermoanalytical events and enthalpies of hydrated cements and calcium-silicate-aluminate hydrates
11:00 – 11:25	L-7	<u>PILAREK B.</u> , KAPAŁA J.	TbCl ₃ -LaCl ₃ phase diagram
11:25 – 11:50	L-9	<u>SALAMON B.</u> , KAPAŁA J.	Refinement of phase diagrams LnBr ₃ -MBr (Ln = Ce, Pr and M = K, Rb, Cs) by using solution calorimetry
11:50 – 12:15	L-8	<u>PROKŠOVÁ Š.</u> , ZEMAN P., KOHOUT J., MAREŠ P., ČERSTVÝ R., VLČEK J.	Effect of Si and N on oxidation resistance of magnetron sputtered Zr-Si-B-C-N films
12:15 – 12:40	L-1	PETKOVA V., SHOPSKA M., KOSTOVA B., KADINOV G., BALÁŽ M., <u>BALÁŽ P.</u>	Effect of high-energy milling on the phase composition and thermal decomposition of chicken eggshells
12:40 – 14:00 Lunch			
Chairman: PACEWSKA B.			
14:00 – 14:25	L-14	<u>MOREAU S.</u> , ANDRE R.	Latest applications using SETARAM thermal analysers and calorimeters
14:25 – 14:50	L-5	<u>MAŁECKA B.</u>	The kinetics of FeC ₂ O ₄ decomposition in inert atmosphere at nonisothermal conditions
14:50 – 15:15	L-4	CHOVANEC J., CHROMČÍKOVÁ M., <u>LIŠKA M.</u>	Thermodynamic model and viscosity of Ge-S glasses
15:15 – 15:40	L-3	<u>GORODYLOVA N.</u> , DOHNALOVÁ Ž., KOŠTÁL P., ŠULCOVÁ P.	Thermal behavior of ceramic glazes: Effect of particle size distribution

15:40 – 16:05	L-22	<u>RENNER H.</u> , <u>RÄDEL H.</u> , <u>STETKA M.:</u>	Investigation of hydrogen storage and solid fuels gasification with pressure simultaneous TG-DSC/DTA
16:05 – 16:30	L-13	<u>HOLBA P.</u>	Equilibrium background of gradual transitions and Ehrenfest equations in binary system
16:30	Coffee break		
16:30 – 18:00	Poster session		
18:00 – 19:00	Dinner		
19:00 – 20:30	General Assembly of Czech Group for Thermal Analysis		

Chairman: ŠIMON P.			
8:45 – 9:25	PL-1	FERENCZ A., FEKECS T., ZAPF I., MOEZZI M., <u>LÓRINCZY D.</u>	DSC analysis of blood plasma on patients with skin and breast cancer, and psoriasis
9:25 – 9:50	L-19	<u>KUČERÍK J.</u> , MOUVENCHERY Y. K., SCHWARZ J., JÄGER A., BERTMER M., SCHAUMANN G.E.	Physicochemical processes in sapric histosol and their environmental relevance
9:50 – 10:15	L-21	<u>ORTMANN CH.</u>	Microcalorimetry: Applications in life science and pharmacy
10:15 – 10:35	Coffee break		
Chairman: LÓRINCZY D.			
10:35 – 11:00	L-23	<u>ŠTEFELOVÁ J.</u> , SLOVÁK V.	Reproducibility of cellulose-based cryogels preparation characterized by TG-MS
11:00 – 11:25	L-25	<u>VESELÁ P.</u> , SLOVÁK V.	TG-MS pyrolysis study of organic xerogels based on condensation of different aromatic monomers with formaldehyde
11:25 – 11:50	L-26	<u>PEŘINKA N.</u> , DRŽKOVÁ M., HAJNÁ M., JAŠÚREK B., ŠULCOVÁ P., SYROVÝ T., KAPLANOVÁ M., STEJSKAL J.	Thermal analysis of polyaniline poly(N-vinylpyrrolidone)-stabilized dispersions
11:50 – 12:15	L-24	FUKUMOTO T., THOMAS P., <u>ŠIMON P.</u> , STUART B.	Estimation of the curing rate of acrylamide used as a consolidant in heritage sandstone conservation
12:15 – 12:40	L-12	<u>FÜGLEIN E.</u> , SCHINDLER A.	Direct coupling of Simultaneous Thermal Analysis and Fourier-Transform-Infrared Spectroscopy (STA-FTIR)
12:40 – 14:15	Lunch		
15:00 – 17:30	Sightseeing walking tour of old town and castle		
17:30 – 21:00	Conference banquette		

Chairman: THOMAS P.			
8:45 – 9:25	PL-3	ŠIMON P., THOMAS P., DUBAJ T., CIBULKOVÁ Z., PELLER A.	Strangeness of the integral isoconversional methods
9:25 – 9:50	L-16	<u>DUBAJ T.</u> , ŠIMON P.	DSC study of thermooxidation of cold-pressed virgin sunflower oil
9:50 – 10:15	L-11	<u>ROTARU A.</u> , MORRISON F.D.	Relaxor properties of tetragonal tungsten bronzes and the reproducibility of dielectric data with thermal processing and temperature dependent measurements
10:15 – 10:35	Coffee break		
Chairman: MÁLEK J.			
10:35 – 11:00	L-18	<u>ILLEKOVÁ E.</u> , MACOVÁ E., MAJERNÍK V., MAŤKO I., ŠAUŠA O.	Anomalous thermal expansion of thin cetane layer solidified at the walls of nanopores of confining silica gel
11:00 – 11:25	L-20	<u>BOUSSADI A.</u> , <u>LOUNICI M.S.</u> , TARABET L., LOUBAR K., TAZEROUT M.	Engine performances and emissions using mixtures of natural gas and hydrogen: A critical review
11:25 – 11:50	L-17	<u>CHIKH BELHADJ A.</u> , DAHMANI A.O., MAHMOUD R., BERKANI S.	Phase equilibria in the ternary system eicosane + dibenzofuran + biphenyl
11:50 – 12:15	L-27	<u>HAFSAOUI S. L.</u> , ZITOUNI S, HAMIDI A., TCHARKHTCHI A.	Study and modeling of coalescence of polyamide PA66 and polymer blend PP/PP-g-MAH/PA66 RGF in the case of rotational moulding
12:15 – 12:30	L-15	<u>ROTARU A.</u>	2nd Central and Eastern European Conference on Thermal Analysis and Calorimetry (CEEC-TAC2)
12:30 – 13:00	Closing ceremony		
13:00 – 14:00	Lunch		

POSTER SECTION

SECTION: INORGANIC CHEMISTRY

PO-1	<u>ADOLFOVÁ L.</u> , <u>DOHNALOVÁ Ž.</u> , <u>ŠULCOVÁ P.</u> , <u>MATUŠKOVÁ M.</u>	Ceramic pigments based on doped strontium stannates
PO-2	<u>BARTÁK J.</u> , <u>KOŠTÁL B.</u> , <u>MÁLEK J.</u> , <u>SEGAWA H.</u>	Crystal growth kinetics in Se-Te amorphous materials
PO-3	<u>BĚLINA P.</u> , <u>MACHALÍKOVÁ V.</u> , <u>ŠULCOVÁ P.</u>	Thermal stability of d-electron metals and rare earth metals tungstate pigments determined by TG/DTA and heat microscopy
PO-4	BOSACKA M.	Study on phase relation in the $M_2V_2O_7$ - $InVO_4$ (M = Zn, Mg) systems
PO-5	<u>ČERNOŠKOVÁ E.</u> , <u>HOLUBOVÁ J.</u> , <u>ČERNOŠEK Z.</u>	DSC and Raman study of stoichiometric As-Sb-S glasses
PO-6	<u>DOHNALOVÁ Ž.</u> , <u>GORODYLOVA N.</u> , <u>ŠULCOVÁ P.</u>	Study of ceramic pigments based on cobalt doped Y_2O_3 - Al_2O_3 system
PO-7	<u>FILIPEK E.</u> , <u>BŁOŃSKA-TABERO A.</u> , <u>PACZEŚNA A.</u>	Reactivity of components of the V_2O_5 -SrO system
PO-8	<u>VASKOVÁ Z.</u> , <u>ŠPYRKOVÁ E.</u> , <u>KUBÍKOVÁ B.</u> , <u>GURIŠOVÁ V.</u> , <u>BOČA M.</u>	DTA-TG investigation of K_2ZrF_6
PO-9	<u>HOLUBOVÁ J.</u> , <u>ČERNOŠEK Z.</u> , <u>ČERNOŠKOVÁ E.</u> , <u>CHROMČÍKOVÁ M.</u> , <u>LIŠKA M.</u>	Thermal properties and structure of $(As_2S_3)_{100-x}(Sb_4S_4)_x$ glassy system
PO-10	<u>HONCOVÁ P.</u> , <u>PILNÝ P.</u> , <u>SVOBODA R.</u> , <u>KOŠTÁL P.</u> , <u>BARTÁK J.</u> , <u>MÁLEK J.</u>	Analysis of crystallization in Sb_2Se_{98} glass
PO-11	<u>CHOJNACKA I.</u> , <u>RYCERZ L.</u> , <u>GAUNE-ESCARD M.</u>	Phase diagram and electrical conductivity of the $DyBr_3$ -NaBr binary system
PO-12	<u>YOSHIKAWA M.</u> , <u>YAMADA S.</u> , <u>KOGA N.</u>	Phenomenological interpretation for multi-step thermal decomposition of silver carbonate
PO-13	<u>KOSTOVA B.</u> , <u>PETKOVA V.</u>	Solid-phase reaction of high energy ball milling composites of natural apatite and waste ammonium sulphate
PO-14	<u>KOUDELKOVÁ E.</u> , <u>BULÁNEK R.</u> , <u>SVOBODA R.</u>	Understanding of phase change of water in the confined space of nanopores of SBA-15 silica using thermoanalytical methods
PO-15	<u>BIEDUNKIEWICZ A.</u> , <u>KRAWCZYK M.</u> , <u>GABRIEL-PÓŁROLNICZAK U.</u> , <u>FIGIEL P.</u>	Analysis of thermal decomposition of $(NH_4)_6Mo_7O_{24} \cdot 4H_2O$ in argon
PO-16	<u>LUŇÁKOVÁ P.</u> , <u>TROJAN M.</u> , <u>TROJAN J.</u>	Thermal analysis of pigment type $BaSn_{1-x}Tb_xO_3$

PO-17	<u>LUXOVÁ J., TROJAN M., TROJAN J., ZVONKOVÁ M.</u>	Study of thermal behaviour and stability of Co-doped malayaite pigments
PO-18	<u>RODIĆ M.V., VOJINOVIĆ-JEŠIĆ L., ŽIVKOVIĆ-RADOVANOVIĆ V., VUČKOVIĆ G., LEOVAC V.M., HOLLÓ B., MÉSZÁROS SZÉCSÉNYI K.</u>	Thermal analysis and microbiological activity of cobalt complexes with thiosemicarbazide-based ligand
PO-19	<u>PACEWSKA B., NOWACKA M.</u>	Studies on conversion of calcium aluminate hydrates by thermal analysis method
PO-20	<u>DONKOVA B., PETKOVA V.</u>	Comparison between thermal behaviour of γ - $MnC_2O_4 \cdot 2H_2O$ in oxidative and inert media
PO-21	<u>PILAŘ R., SVOBODA L., HONCOVÁ P., KOŠTÁL P.</u>	Heat capacity and thermodynamic properties of antimony tritelluride
PO-22	<u>PODZEMNÁ V., BARTÁK J., MÁLEK J.</u>	GeS_2 crystal growth kinetics in Ge-Sb-S thin film and bulk glasses
PO-23	<u>PRNOVÁ A., KLEMENT R., BODIŠOVÁ K., GALUSEK D., MIGÁT M., BRUNEEL E., VAN DRIESSCHE I</u>	Study of thermal behaviour of yttrium-aluminate glasses by DSC and high temperature XRD analysis
PO-24	<u>SÁDOVSKÁ G., ORAVOVÁ L., HONCOVÁ P.</u>	Thermal behaviour of calcium nitrate tetrahydrate and magnesium nitrate hexahydrate
PO-25	<u>SHÁNĚLOVÁ J., PILNÝ P.</u>	The crystal growth rate and DSC crystallization in glassy As_2Se_3
PO-26	<u>TĚSITELOVÁ K., STRÁNSKÁ L., ŠULCOVÁ P.</u>	Synthesis and study of compounds based on $Bi_2Ce_2O_7$
PO-27	<u>PULIŠOVÁ P., MÁŠA B., MICHALKOVÁ E., VEČERNÍKOVÁ E., MAŘÍKOVÁ M., BEZDIČKA P., MURAFÁ N., ŠUBRT J.</u>	Thermal behaviour of natural and synthetic iron precipitates from mine drainage
PO-28	<u>TROJAN M., TROJAN J., MOŠNER P., LUXOVÁ J., ZVONKOVÁ M., LUŇÁKOVÁ P.</u>	Synthesis of binary Al^{III} - Fe^{III} metaphosphates by thermal decomposition of polyphosphate glasses
PO-29	<u>VALLOVÁ S., SEIDLEROVÁ J.</u>	Pyrolysis of grinding sludges in the presence of waste organic materials: Their characterization and optimization of this process
PO-30	<u>VEČEŘA J., ŠEDOVÁ I., MIKULÁŠEK P., ŠULCOVÁ P.</u>	Thermal analysis of reaction mixtures for synthesis of rutile pigments $Ti_{1-3x}Cr_xNb_{2x}O_2$
PO-31	<u>ZEMENOVÁ P., KLOUŽKOVÁ A., KOHOUTKOVÁ M., KRÁL R.</u>	Investigation of the first and second dehydroxylation of kaolinite
PO-32	<u>KLOUŽKOVÁ A., KOHOUTKOVÁ M., ZEMENOVÁ P.</u>	Characterisation of a prehistorical ceramic object – moon-shaped idol, by means of thermal analysis
PO-33	<u>ZVONKOVÁ M., LUXOVÁ J., TROJAN J., TROJAN M.</u>	Thermal stability of $CaSnSiO_5$

SECTION: METODOLOGY

PO-34	<u>SVOBODA R.</u> , MÁLEK J.	As the original Kissinger equation obsolete today?
PO-35	ŠESTÁK J.	New books on thermophysical research of glassy and nano-crystalline materials in the Springer series 'hot topics of thermal analysis'
PO-36	<u>ŠULCOVÁ P.</u> , MÁLEK J.	Activities of Czech group for thermal analysis

SECTION: ORGANIC CHEMISTRY, BIOCHEMISTRY, POLYMERS, EXPLOSIVE

PO-37	<u>BALGOVÁ Z.</u> , PALOU M.	Thermal characterisation of polyvinylalcohol/hydroxyapatite composite
PO-38	BYCZYŃSKI Ł.	Thermal degradation kinetics of polyurethane – siloxane semi-interpenetrating polymer network
PO-39	GROCHOWICZ M.	Investigation of the thermal behavior of 4VP-TRIM microspheres
PO-40	<u>KHIARI K.</u> , MAHMOUD R.	Solid-liquid phase equilibria of binary mixtures containing 1-octadecanol in solution with n-alkanes
PO-41	MOEZZI M. FERENCZ A., <u>LÓRINCZY D.</u>	Differential Scanning Calorimetry (DSC) analysis of human blood plasma following different therapy in patients with psoriasis
PO-42	SILLINGER T., <u>LÓRINCZY D.</u> , KOC SIS B., KERESKAY L., NÖTE L.G., WIEGAND N.:	Differential Scanning Calorimetric measurement of cartilage destruction caused by gram – negative septic arthritis
PO-43	TARASIUK B., <u>OSYPIUK-TOMASIK J.</u> , MACIEJEWSKA M.:	The influence of monomers on the thermal and mechanical properties of photo-curable urethane-methacrylates
PO-44	<u>PILAŘ R.</u> , PACHMÁN J., MATYÁŠ R., HONCOVÁ P., KOŠTÁL P.	Heat capacity of selected explosive materials
PO-45	BABIŃSKI P., <u>PLIS A.</u>	Thermogravimetric and kinetic study of biomass oxycombustion process
PO-46	<u>ROGULSKA M.</u> , KULTYS A., NOWAK J., PUSZKA A.	TGA-FTIR study of the thermal decomposition of new thermoplastic poly(thiourethane-urethane)elastomers
PO-47	WESOŁOWSKI M., LEYK E., <u>SZYŃKARUK P.</u>	DSC and IR as supplementary techniques for identification of magnesium salts in medicinal products and dietary supplements
PO-48	<u>ŠELEŠOVSKÝ J.</u> , PACHMÁN J., HONCOVÁ P.	Thermal decomposition of several improvised explosives
PO-49	<u>TARABET L.</u> , LOUNICI M.S., LOUBAR K., KHIARI K., TAZEROUT M.	Combustion characteristics of biodiesel/natural gas in dual fuel diesel engine
PO-50	<u>WESOŁOWSKI M.</u> , ROJEK B.	Compatibility studies between piroxicam and selected excipients using pattern recognition methods
PO-51	WORZAKOWSKA M.	Synthesis, characterization and thermal properties of new flavor compounds