Tentative program of INCOME 2017

Time	Sunday, 3 rd September 2017			
16:00 - 21:00	Registration			
19:00 – 21:00	Welcome Drink			

Time	Monday, 4 th September 2017			
08:30 - 08:55	Opening Remarks			
08:55 - 09:20	I-01 Two important periods in the history of mechanochemistry L. Takacs			
09:20 - 09:45	I-02 A quest for mechanisms of mechanically activated transformations F. Delogu			
09:45 – 10:10	I-03 Modeling mechanochemical reaction mechanisms W. T. Tysoe			
10:10 - 10:30	Coffee Break			
10:30 – 10:45	O-01 Mechanochemical preparation of ultra disperse powders of Si, Ge, Cu, Ag N. Z. Lyakhov, T. F. Grigoreva, E. N. Gorina, T. A. Udalova, S. V. Vosmerikov, E. T. Devyatkina, I. A. Vorsina, E. A. Pavlov			
10:45 – 11:00	O-02 Mechanically induced self-sustaining reactions (MSR) in the LiNH2-xAlCl3 system			
11:00 – 11:15	G. Mulas, L. Pisano, S. Enzo, L. Fernández Albanesi, F. C. Gennari, S. Garroni O-03 Chalcogenide quaternary nanocrystals for solar cells: mechanochemical synthesis and properties of kesterite Cu2ZnSnS4			
11:15 – 11:30	P. Baláž, M. Baláž, M. Hegeduš, M. Fabián, M. Achimovičová, E. Dutková, M. Kaňuchová, J. Briančin, M. Tešinský O-04 Gas-solid reactions induced by mechanochemical activation M. Falderboff, F. Sabiáh, S. Januarder, D. Falvert, H. Sabravar			
11:30 – 11:45	M. Felderhoff, F. Schüth, S. Immohr, R. Eckert, H. Schreyer O-05 Advances in surface functionalization of silicon nanoparticles formed by reactive high energy ball milling (RHEBM)			
11:45 – 12:00	B. S. Mitchell, M. J. Fink O-06 Mechanocatalytic preferential CO oxidation R. Eckert, M. Felderhoff, F. Schüth			

12:00 – 14:00	Lunch Break
14:00 - 14:25	I-04 Nanocrystalline and nanoglassy ceramics by mechanical treatment – Effect on ion dynamics
	P. Heitjans
14:25 - 14:50	I-05 How does mechanical stressing rationalize solid-state synthesis of functional complex oxide nanoparticles?
	M. Senna
14:50 – 15:15	I-06 Mechanochemical synthesis, structure and characterization of fluorine-containing alkaline earth metal compounds
	G. Scholz
15:15 – 15:40	I-07 Structure and ion dynamics in mechanosynthesized fluorides
	M. Wilkening
15:40 – 16:00	Coffee Break
16:00 – 16:15	O-07 IF at first you don't succeed: fabricating low-defect materials by high-energy ball milling
	A. Düvel, L. Morgan, C. V. Chandran, P. Heitjans, D. C. Sayle
16:15 – 16:30	O-08 Mechanochemical/thermal preparation of Li ₄ Ti ₅ O ₁₂ . Structural and electrochemical properties
	M. Fabián, M. Žukalová, L. Kavan, E. Tóthová, V. Šepelák, M. Senna
16:30 – 16:45	O-09 Mechanochemical synthesis of solid solutions of $M_xPb_{1-x}F_2$ (M = Ca, Sr, Ba)
	M. Heise, G. Scholz, E. Kemnitz
16:45 – 17:00	O-10 Au supported catalysts for CO-oxidation by in-situ ball milling: Influences of synthesis conditions on support and catalytic
	activity
	H. Schreyer, M. Felderhoff, F. Schüth
17:00 – 17:15	O-11 New approach using a dry coating process for solid-supported catalyst synthesis: effects of support properties and operation
	conditions
	X. Liu, N. Fatah
17:15 – 18:15	Poster Session I

Time	Tuesday, 5 th September 2017					
08:00-08:25	I-08 TBA					
	T. Friščić					
08:25 - 08:50	I-09 New insights in formation pathways: in situ investigations of mechanochemical reactions E. Emmerling, H. Kulla, S. Haferkamp, E. Eischer, M. Wilke					
	F. Emmerling, H. Kulla, S. Haferkamp, F. Fischer, M. Wilke					
08:50 - 09:15	I-10 May the mechanical force be with you: The case of peptides and organometallics					
	<u>F. Lamaty</u>					
09:15 - 09:40	I-11 Transformation of pharmaceuticals induced by milling					
	M. Descamps, JF. Willart, E. Dudognon					
09:40 - 10:05	I-12 Composites of drugs with inorganic and organic excipients obtained by the mechanochemical methods					
	T. P. Shakhtshneider					
10:05 – 10:30	Coffee Break					
	Conference Photo					
10:30 – 10:45	O-12 In situ monitoring as tools to study mechanochemical reactions					
10.45	I. Halasz, K. Užarević, S. Lukin, T. Friščić					
10:45 – 11:00	O-13 Transformations of dexamethasone drug induced by mechanical milling					
44.00.44.4	P. F. M. Oliveira, JF. Willart, J. Siepmann, F. Siepmann, M. Descamps					
11:00 – 11:15	O-14 From molecules to biohybrid nanomaterials by ball-milling M. Lupacchini, A. Mascitti, L. Tonucci, N. d'Alessandro, C. Charnay, <u>E. Colacino</u>					
11.15 11.20						
11:15 – 11:30	O-15 Quantitative in situ monitoring of mechanochemical selectivity in pharmaceutical cocrystal polymorphs S. Lukin, T. Stolar, M. Tireli, M. V. Blanco, D. Babić, T. Friščić, K. Užarević, I. Halasz					
11:30 – 11:45						
11:30 - 11:45	O-16 2D correlation spectroscopy in step-by-step study of deformation-induced conversions and transformations of molecular					
	crystals D. S. Rybin, G. N. Konygin, V. E. Porsev, D. R. Sharafutdinova, I. P. Arsentyeva, V. V. Boldyrev					
11:45 – 12:00	O-17 Mechanoradicals, anions and cations as precursors in chemical reactions and production of composite materials					
11.45 12.00	B. Baytekin, Ö. Bayrak, T. Bedük					
12:00 – 14:00	Lunch Break					
14:00 - 14:25	I-13 Recent progress in mechanochemical organic reactions					
	L. Li, HG. Li, H. Xu, GW. Wang					
14:25 – 14:50	I-14 Mechanochemical multicomponent transformations and mechanoenzymatic reactions by ball-milling					
	J. G. Hernández					
14:50 – 15:15	I-15 Mechanochemistry, an easy technique to boost the synthesis of new luminescent coordination polymers					
	L. Maini					
15:15 – 15:40	I-16 Mechanochemistry – from curiosity to commercialisation					
	S. L. James					

15:40 – 16:00	Coffee Break				
16:00 - 16:15	O-18 Synthesis by twin screw extrusion (TSE)				
	D. E. Crawford, S. L. James, C. Miskimmin, A. Albadmin, G. Walker				
16:15 – 16:30	O-19 Main group mechanochemical synthesis				
	F. Garcia				
16:30 - 16:45	O-20 Mechanochemical synthesis of highly-ordered microporous zirconium-based metal-organic frameworks				
	K. Užarević, A. Fidelli, A. J. Howarth, O. K. Farha, T. Friščić				
16:45 – 17:00	O-21 Mechanosynthesis of functional metal-organic frameworks based on acylhydrazone and dicarboxylate linkers				
	D. Matoga, K. Roztocki, M. Szufla, D. Jędrzejowski, M. Lupa, M. Hodorowicz, I. Senkovska, S. Kaskel				
17:00 – 17:15	O-22 Mechanochemistry and protein self-assembly - a promising combination				
	N. Solin				
17:15 – 17:30	O-23 Solvation and surface effects on polymorph stabilities at the nanoscale				
	A. M. Belenguer, G. I. Lampronti, A. J. Cruz-Cabeza, C. A. Hunter, J. K. M. Sanders				
17:30 – 17:45	O-24 Effective and selective reduction of α , β -unsaturated carbonyl compounds to the corresponding alcohol under milling				
	conditions				
	A. Barranco, M. Felderhoff, F. Schüth				
17:45 – 18:10	I-17 Do we always know, what we do not know? Challenges of mechanochemistry				
	E. V. Boldyreva				
18:10 – 19:10	Poster Session II				
19.10 –	Meeting of the International Advisory Committee of INCOME				

Time	Wednesday, 6 th September 2017							
08:30 - 08:55	I-18 Scenarios and possible mechanisms of structural-phase transformations in alloys at intensive plastic deformation							
	A. Ye. Yermakov, Yu. N. Gornostyrev, I. K. Razumov							
08:55 - 09:20	I-19 Stability and grain size softening in mechanically milled nanostructured Al-base complex intermetallics N. K. Mukhopadhyay							
	N. K. Mukhopadhyay I 20 Sports plagma sintering of machanically milled powders; gaining adventages from a combination of two non equilibrium							
09:20 - 09:45	I-20 Spark plasma sintering of mechanically milled powders: gaining advantages from a combination of two non-equilibrium							
	powder processing techniques D. V. Dudina, M. A. Korchagin, B. B. Bokhonov, V. I. Mali, A. G. Anisimov							
00.45.40.40								
09:45 – 10:10	I-21 "Week bonding" oxygen atoms in transition metal oxides formed by mechanical activation							
	A. N. Streletskii, O. S. Morozova, M. V. Sivak							
10:10 – 10:30	Coffee Break							
10:30 - 10:45	O-25 Mechanochemical redox reactions as non-conventional pathway in the synthesis of nanostructured alloys							
	V. F. Ruiz-Ruiz, I. Zumeta-Dubé, R. González-Olvera, I. Betancourt, R. Díaz-Pardo, D. Díaz, N. Farfán, J. Arellano-Jiménez, M. José-							
	Yacamán							
10:45 – 11:00	O-26 Nanocrystalline alloy of molybdenum with sodium produced by mechanical alloying							
	B. Bergk, U. Mühle, I. Povstugar, N. Koutná, D. Holec, H. Clemens, B. Kieback							
11:00 – 11:15	O-27 Early stages of mechanical alloying of Al-Cu and Al-Cu-Fe powder mixtures in a high-energy ball mill							
	S. F. Tikhov, D. V. Dudina, O. I. Lomovsky, V. A. Sadykov							
11:15 – 11:30	O-28 Microstructure, porosity and wear resistance of new Ti-10Ta-8Mo (wt.%) biomedical alloy prepared by high-energy ball							
	milling and annealed processes							
11 20 11 45	G. Dercz, I. Matuła, M. Zubko, J. Maszybrocka, M. Boruszewska							
11:30 – 11:45	O-29 Mössbauer study of the kinetics of mechanical amorphization in Fe ₇₀ Zr ₃₀							
11.45 12.00	A. F. Manchón-Gordón, J. J. Ipus, <u>J. S. Blázquez</u> , C. F. Conde, A. Conde							
11:45 – 12:00	O-30 Mechanochemically-driven amorphization in overstoichiometric arsenic sulfides							
	O. Shpotyuk, Z. Bujňáková, P. Baláž, P. Demchenko, Ya. Shpotyuk, J. Cebulski							
12:00 – 14:00	Lunch Break							
14:00 - 14:25	I-22 Plasma assisted absorption and reversible desorption of hydrogen gas in Zr, Ti, V powders using electric discharge assisted							
	mechanical milling method							
	A. Calka, A. M. Aksenczuk							
14:25 – 14:50								
	K. Chattopadhyay, C. S. Tiwari, K. Malaviya, H. Prabha							
14:50 – 15:15	I-24 Odyssey in mechanical activation of solids – SMILE and beyond							
	R. Kumar							
15:15 – 15:40	I-25 Mechanosynthesis of nanocrystals and nanocomposites							
	F. Kh. Urakaev, M. M. Burkitbayev, B. M. Uralbekov, I. A. Massalimov							

15:40 – 16:00	Coffee Break				
16:00 – 16:15	O-31 Mechanochemistry – an effective method for producing complex BiFeO3-based high-temperature piezoelectric materials				
	M. Makarovič, A. Benčan Golob, B. Malič, T. Rojac				
16:15 – 16:30	O-32 The synthesis of niobium silicides by a mechanochemical process				
	D. Ovalı, D. Ağaoğulları, M. L. Öveçoğlu				
16:30 - 16:45	O-33 Mechanochemical synthesis of mohite (Cu ₂ SnS ₃)				
	M. Baláž, M. Rajňák, N. Daneu, E. Dutková, M. Hegedűs, M. Fabián, M. Achimovičová, M. Tešinský, P. Baláž				
16:45 – 17:00	O-34 Mechanochemical synthesize of nanocrystalline soft magnetic ferrite in order to investigate structural, magnetic, dielectric				
	and electrical characteristics				
	A. Hajalilou				
17:00 – 17:15	O-35 Mechanical activation of zeolite and its influence on the nanostructure				
	K. Bohács, F. Kristály, Z. Dallos, G. Mucsi				
17:15 – 17:30	O-36 Mechanochemical synthesis and silica encapsulation of iron boride nanoparticles				
S. Mertdinc, D. Ağaoğulları, M. L. Öveçoğlu					
19:00 – 22:00	Conference Dinner				
12.00 22.00	Comercine Dimici				

Time	Thursday, 7 th September 2017						
09:00 - 09:25	I-26 Synthesis of Ag ₂ O via mechanical decomposition of Ag ₇ O ₈ NO ₃						
	P. Billik						
09:25 - 09:50	I-27 c-LLZO – towards single phase compound by mechanochemical processes						
	D. Oleszak, P. Billik, M. Pawlyta						
09:50 – 10:15							
	A. F. Fuentes, P. Rodríguez-Salazar, O. Burciaga-Díaz						
10:15 – 10:30	Coffee Break						
10:30 - 10:45	O-37 Effect of particle density on powder mixing in a rotating drum for hydrogen generation						
	J. Kano, S. Ishihara, M. Yamamoto						
10:45 - 11:00	O-38 Thermal and mechanical properties of fluorinated ethylene and polyphenylene sulfide based composites obtained by high						
	energy ball milling						
	V. V. Tcherdyntsev, L. K. Olifirov, S. D. Kaloshkin, M. Yu. Zadorozhnyy, V. D. Danilov						
11:00 – 11:15	O-39 Mechanical alloying and electric current assisted sintering adopt for metal matrix composite materials processing						
	A. Miklaszewski						
11:15 – 11:30	O-40 Magneto-abrasive mechanosynthesised composites						
	T. F. Grigoreva, S. A. Kovaleva, V. I. Zhornik, N. S. Khomich, T. Yu. Kiseleva, E. T. Devyatkina, S. V. Vosmerikov, S. A. Petrova, P. A.						
11.50 11.5	Vityaz, N. Z. Lyakhov						
11:30 – 11:45	O-41 X-ray and Mössbauer study of solid-state reactions in heat treated nanocrystalline Fe-Cr alloys, obtained by mechanical						
	alloying						
11.45 12.00	V. E. Porsey, A. L. Ulyanov						
11:45 – 12:00	O-42 Mechanocomposites in the system UPTFE + silicate						
	I. A. Vorsina, T. F. Grigoreva, T. A. Udalova, E. T. Devyatkina, S. V. Vosmerikov, N. Z. Lyakhov						
12:00 – 14:00	Lunch Break						
14:00 - 14:15	O-43 Acid leaching performance of mechanically activated pyrophyllite ore for Al ₂ O ₃ extraction						
	M. Erdemoğlu, M. Birinci, T. Uysal, E. Porgalı, T. S. Barry						
14:15 – 14:30	O-44 Synthesis and characterization of Al–Cu–Fe quasicrystal reinforced AA 6082 Al matrix composite by mechanical milling						
	Y. Shadangi, K. Chattopadhyay, J. Basu, R. Manna, N. K. Mukhopadhyay						
14:30 – 14:45	O-45 A novel route to synthesize micro-laminated TiAl matrix composite sheets with high performance						
	X. Cui, L. Geng, G. Fan, J. Zhang, T. Zhang						
14:45 – 15:00							
	M. Achimovičová, E. Dutková, E. Tóthová, Z. Bujňáková, J. Briančin						

15:00 – 15:15	O-47 Mechanochemistry immobilization of organic and inorganic pollutants into dioctahedral and trioctahedral smectites: a				
	suitable technology for soil remediation				
	V. Ancona, P. Di Leo, M. D. R. Pizzigallo				
15:15 – 15:30	O-48 Mechanochemical methods in the production of high purity gases				
	V. L. Kozhevnikov, A. O. Ivanov, B. Verbitsky, <u>K. Chuntonov</u>				
15:30 - 16:00	Discussion / Concluding Remarks				

Poster Sessions

Poster Session I		Poster Session II		
	17:15 – 18:15; Monday, 4 th September 2017	18:10 – 19:10; Tuesday, 5 th September 2017		
P-I-01	The effect of Sn as the process control agent on the fabrication and	P-II-01	Mechanochemical synthesis of aluminium metal-organic frameworks	
	structural properties of new Ti-Ta-Mo-Sn biomedical alloy		S. Lavery, J. Casaban, S. James	
	synthesized by high energy ball milling			
	G. Dercz, I. Matuła, M. Zubko			
P-I-02	Alloying behavior and mechanical properties of AlCoCrFeNiMn high	P-II-02	BaF-benzenedicarboxylate: mechanochemical synthesis of a new	
	entropy alloy (HEA) processed by mechanical alloying and microwave		representative of coordination polymers without organofluorine	
	sintering		linkers	
	V. Shivam, N. K. Mukhopadhyay		S. Breitfeld, G. Scholz, F. Emmerling, E. Kemnitz	
P-I-03	Effect of Co content on phase structure and hydrogenation properties	P-II-03		
	of La-Mg-Ni alloys		mechanochemical co-crystallisation	
	M. Balcerzak, M. Nowak, M. Jurczyk	0.1	I. A. Tumanov, A. A. L. Michalchuk, A. A. Politov, E. V. Boldyreva	
P-I-04	In-situ Raman spectroscopic monitoring of ball milling preparations	P-II-04	In situ monitoring and mechanism of the mechanochemical	
	of amidoboranes		Knoevenagel reaction	
	N. Biliškov, I. Halasz, K. Užarević, J. Grbović Novaković, I. Milanović,		M. Tireli, S. Lukin, T. Stolar, M. di Michieli, I. Halasz, K. Užarević	
D 7 0 7	S. Lukin, S. Milošević, A. Borgschulte, E. Callini	D 77 0 7		
P-I-05	Characterization of phases in the V ₂ O ₅ –Yb ₂ O ₃ system obtained by	P-II-05	Mechanochemical protease-catalyzed peptide and amide bond	
	high-energy ball milling and high-temperature treatment		formation	
	M. Piz, P. Dulian, E. Filipek, K. Wieczorek-Ciurowa, P. Kochmanski		K. J. Ardila-Fierro, D. Crawford, S. L. James, C. Bolm, J. G. Hernández	
P-I-06	Dielectric behaviour of (Ba _{1-x} Sr _x)(Ti _{1-x} Sn _x)O ₃ ceramics obtained by a	P-II-06	Mechanochemical synthesis of colossal dielectric permittivity	
	mechanochemical syntheses		electroceramics for capacitors applications	
	W. Bak, P. Dulian, B. Garbarz-Glos, C. Kajtoch, W. Żukowski		P. Dulian, W. Bak, B. Grabarz-Glos, M. Piz, W. Żukowski	
P-I-07	The mechanochemical synthesis for the preparation of advanced	P-II-07		
	ceramics based on barium titanate		final dielectric properties of (Ba,Ca)TiO ₃ ceramics	
	B. Garbarz-Glos, P. Dulian, W. Bąk, H. Noga		K. Feliksik, L. Kozielski, I. Szafraniak-Wiza, D. Radoszewska, M.	
			Adamczyk-Habrajska	
P-I-08	Production of nanocomposition colloidal systems for cosmetic	P-II-08	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
	application		obtained from mechanically activated powders	
	N. N. Mofa, Z. A. Mansurov, <u>A. M. Kaliyeva</u> , T. V. Chernoglazova, B. S.		I. Szafraniak-Wiza, <u>D. Radoszewska</u> , J. Dzik, D. Bochenek, M.	
	Sadykov		Adamczyk-Habrajska	
P-I-09	Effect of diluting agent on the synthesis of silver iodide nanoparticles	P-II-09	v	
	during co-milling		route	
	B. B. Tatykayev, Zh. S. Shalabayev, S. B. Tugelbay, B. M. Uralbekov, M.		M. H. Enayati	
	M. Burkitbayev, F. Kh. Urakaev			

P-I-10	Mechanochemical synthesis of LiFeGe ₂ O ₆ and LiFeTi ₂ O ₆ E. Tóthová, R. Witte, K. L. Da Silva, A. Zorkovská, M. Senna, H. Hahn, P. Heitjans, V. Šepelák	P-II-10	Mechanochemical synthesis of sulfur nanoparticles via reaction of sodium thiosulfate with crystalline acids Zh. S. Shalabayev, B. B. Tatykaev, B. M. Uralbekov, M. M. Burkitbayev, F. Kh. Urakaev
P-I-11	Influence of transition metals on quasicrystalline phase formation in Al-Cu-Fe mechanically alloyed powder	P-II-11	Characterization of sintering process of high-energy milled Cu-TiB ₂ materials
D. I. 10	M. Mitka, A. Goral, L. Litynska-Dobrzynska	D. H. 10	H. Debecka, M. Hebda, J. Kazior
P-I-12	Determination of the activation energy of Re ₂ C by high-energy ball	P-II-12	Mechanochemical treatment of micrometric aluminium with organic
	milling		modifiers for solid-propellant rockets
	A. Martínez-García, M. G. Granados-Fitch, M. Avalos-Borja, B. Winkler,		B. S. Sadykov, N. N. Mofa, L. Galfetti, Z. A. Mansurov
P-I-13	A. K. Navarro-Mtz., E. A. Juarez-Arellano High-energy ball milling pre-treatment of complex organic substrate	D II 12	Machanachamical aunthoriz of and based meanatic coulou for Ac(V)
P-1-13	for culture media	P-II-13	Mechanochemical synthesis of coal based magnetic carbon for As(V) and Cd(II) removal
	A. K. Navarro-Mtz., M. Urzua-Valenzuela, R. Martínez-García, M.		A. Zubrik, M. Matik, M. Lovás, Z. Danková, S. Hredzák, V. Šepelák
	Kakazey, E. A. Juarez-Arellano		11. Zaorik, W. Watik, W. Lovas, Z. Dankova, S. Hiedzak, V. Sepelak
P-I-14	Characterization of nanostructured materials using TEM and SEM	P-II-14	The influence of microwave heating on crushability and grindability of
	microscopy		selected raw materials
	P. Snopiński, T. Tański		I. Znamenáčková, M. Lovás, S. Hredzák, S. Dolinská
P-I-15	Mechanochemical plant-mediated synthesis of silver nanoparticles	P-II-15	Mechanical alloying of beta titanium alloys in presence of magnesium
	and their biological activity		G. Adamek
	M. Baláž, Z. Bujňáková, N. Daneu, E. Dutková, <u>Ľ. Balážová</u> , M. Vargová,		
	A. Salayová, Z. Bedlovičová, Ľ. Tkáčiková		
P-I-16	Photocatalytic properties of N-doped ZnO prepared by	P-II-16	Stability of magnetite based nanoparticles dispersed in different types
	mechanochemical synthesis		of polymers using ultra-fine milling approach
	N. G. Kostova, M. Fabian, E. Dutkova, Y. Karakirova, A. Eliyas		Z. Bujňáková, E. Dutková, E. Tóthová, J. Briančin, Z. Cherkezova-
			Zheleva, J. Kováč
P-I-17	Physical properties of the lead-free BaFe _{1/2} Nb _{1/2} O ₃ ceramics obtained	P-II-17	Nanocrystalline matrix NiAl-B composites produced by consolidation
	from mechanochemically synthesized powders		of mechanically alloyed powders
D I 10	D. Bochenek, P. Niemiec, M. Adamczyk-Habrajska, I. Szafraniak-Wiza	D II 10	M. Krasnowski, S. Gierlotka, T. Kulik
P-I-18	Residual stress analysis and assessment of mechanical properties of dissimilar material welded joint between Alloy 617 and 12Cr steel	P-II-18	Mechanochemical synthesis of low-fluorine doped aluminium hydroxide fluorides
	H. Waqar Ahmad, J. H. Lee, J. Ho Hwang, D. H. Bae		V. Scalise, G. Scholz, E. Kemnitz
P-I-19	Structural studies on CuCr ₂ S ₄ nanospinels obtained by mechanical	P_II_10	X-ray powder diffraction usefulness in mechanical activation and
1-1-17	alloying	1-11-17	alloying, looking beyond crystallinity
	M. Karolus, J. Panek, E. Maciążek		F. Kristály, G. Mucsi
P-I-20	Defect structure of mechanically activated MoO ₃ and the chemical	P-II-20	Influence of ball milling on the structure and catalytic properties of
	activity of Al/MoO ₃ nanothermite		SrFe ₁₂ O ₁₉ hexaferrite
	· · · · · · · · · · · · · · · · · · ·		== = _r
	M. V. Sivak, A. N. Streletskii, I. V. Kolbanev		K. V. Koleva, N. I. Velinov, I. G. Genova, T. S. Tsoncheva

P-I-21	Synthesis of Cr ₃ C ₂ by a combination of mechanical alloying and annealing S. E. Aghili, M. S. Esfahani	P-II-21	Structural, magnetic and optical properties of mechanochemically synthesized CuFeS ₂ nanoparticles <u>E. Dutková</u> , Z. Bujňáková, I. Škorvánek, M. J. Sayagués, A. Zorkovská, J. Kováč, J. Kováč, Jr., P. Baláž
P-I-22	Mineralogical transformations after mechanical activation of a lateritic nickel ore H. Basturkcu, N. Acarkan	P-II-22	Mechanical alloying of NbC and Si in stirred media mill A. Al-Azzawi, P. Baumli,F. Kristály, Á. Rácz, G. Mucsi
P-I-23	Synthesis of CuAlO ₂ delafossite from mechanically activated CuO and polyaluminium chloride D. Nýblová	P-II-23	Soft magnetic Fe based alloys produced by mechanical alloying A. Carrillo, L. Escoda, J. Saurina, <u>J. J. Suñol</u>
P-I-24	Thermal plasma spheroidization of high-nitrogen austenitic stainless steel powder alloys synthesized by mechanical alloying N. G. Razumov, A. A. Popovich	P-II-24	Microstructure and mechanical properties of AZ61 magnesium alloy after EX-ECAP O. Hilšer, S. Rusz, L. Krejčí, F. Špalek, J. Džugan, T. Tański
P-I-25	Structural, microstructural and thermal characterization of Fedoped ZnO powder nanostructures prepared by mechanical alloying O. Salah, B. Rachid, A. Safia, J. J. Suñol, M. Ibrir, M. Bououdina	P-II-25	Structural characterization, microwave properties and corrosion behavior of Fe-Si alloy prepared by wet ball milling K. Yazovskikh, A. A. Shakov, S. F. Lomayeva, G. N. Konygin, O. M. Nemtsova, A. O. Shiryaev, D. A. Petrov, K. N. Rozanov
P-I-26	Mechanically alloyed aluminium powder consolidated by ERS E. S. Caballero, F. Ternero, R. Astacio, F. G. Cuevas, J. M. Montes, J. Cintas	P-II-26	Synthesis and electrochemical properties of composites based on conductive polymers with mechanically activated graphite particles N. V. Lyalina, A. V. Syugaev, A. N. Maratkanova, K. Yazovskikh
P-I-27	Production of compacts from Fe-Si powders amorphized by MA and consolidation by ERS-MF F. Ternero, E. S. Caballero, R. Astacio, F. G. Cuevas, J. Cintas, J. M. Montes	P-II-27	Effect of mechanochemical milling on the FSDP-related XRD correlations in overstoichiometric As-Se glassy alloys Ya. Shpotyuk, J. Cebulski, P. Demchenko, Z. Bujňáková, P. Baláž, O. Shpotyuk
P-I-28	Effect of particle size on the optical properties of ZnO nanopowders fabricated by wet milling T. Şimşek, A. Ceylan, G. Ş. Aşkın, Ş. Özcan	P-II-28	1 7
P-I-29	Tuning the magnetic properties of cobalt-ferrite nanostructures by changing the inversion parameter and crystallite size with milling M. B. Kaynar, Ş. Özcan	P-II-29	Fabrication of Cu-graphite metal matrix composites B. Lasio, R. Orrù, G. Cao, M. Cabibbo, F. Delogu
P-I-30	Mechanosynthesis of multisubstituted hydroxyapatite nanopowders <u>B. Nasiri-Tabrizi</u> , R. Ebrahimi-Kahrizsangi, A. Fakharzadeh, W. J. Basirun	P-II-30	In situ measurement of luminescence emitted by coumarin 1 in ball drop experiments C. Ricci, R. Corpino, A. Porcheddu, G. Ligios, F. Delogu
P-I-31	Cation exchange capacity of mechanically activated glauconite – fundamental aspects and relevance R. Singla, T. C. Alex, R. Kumar	P-II-31	Propagation modes of self-sustaining reactions activated by mechanical processing A. Cincotti, G. Pia, L. Takacs, F. Delogu
P-I-32	Mechanochemical preparation of titanium and hafnium carbides T. F. Grigoreva, B. P. Tolochko, A. I. Ancharov, S. V. Vosmerikov, E. T. Devyatkina, T. A. Udalova, E. A. Pavlov, N. Z. Lyakhov	P-II-32	

P-I-33	Effect of samarium on Fe ₂ O ₃ on magnetization using high energy milling P. Vera-Serna, F. N. Tenorio-González, M. Kusý, J. A. Juanico- Loran, F. Sánchez-de-Jesús, M. Silva-Fragoso	P-II-33	Thermodynamically stable nanostructured metal alloys by mechanical alloying: The ICARUS project The ICARUS consortium
P-I-34	Macro-segregation Mechanism and Control for the Low Pressure Die Casting of ZL205A Aluminum Alloy S. Wu	P-II-34	Recycling of critical metals: An innovative application of mechanochemistry V. Loy, K. Binnemans, T. Van Gerven
P-I-35	Microstructure and mechanical properties of the SiC/Zr4 joints brazed using the TiZrNiCu filler alloy J. Zhang, Q. Qi	P-II-35	Mechanical properties of hydrogels and automated system "KERN-DP" A. P. Onanko, S. A. Vyzhva, Y. A. Onanko, N. P. Kulish, V. V. Kuryluk, A. V. Shabatura, R. V. Homenko, A. N. Onischenko
P-I-36	GRADE 1 titanium microstructure and properties investigation after Cr ₃ C ₂ powder alloying using high power diode laser M. Wiśniowski, T. Tański, D. Janicki	P-II-36	Soot combustion efficiency using Fe, Cu, and Co impregnated on kaolin based ZSM-5 for diesel soot oxidation D. O. Obada, M. Dauda, F. O. Anafi, A. S. Ahmed, O. A. Ajayi, D. Dodoo-Arhin, A. Y. Atta
P-I-37	Surface analysis of PET bottles by XPS method M. Kanuchova, L. Kozakova, T. Bakalar, J. Skvarla	P-II-37	Low-cost catalytic control of indoor PM emissions from solid fuel combustion M. Peter, D. M Kulla, N. O. Ominsanya, A. Y. Atta, D. O. Obada, S. Umaru
P-I-38	Wear resistant ALD/PVD hybrid coatings deposited on sintered tool substrate M. Staszuk, D. Pakuła, G. Chladek	P-II-38	Development of asbestos free lining material from mahogany and doum palm J. Makama, D. S. Yawas, A. I. Obi, M. U. Obot, D. O. Obada
P-I-39	Photovoltaic response of bulk heterojunctions based on nanopowders of kesterite and n-type semiconductors O. P. Dimitriev, D. O. Grynko, A. M. Fedoryak, T. P. Doroshenko, M. Kratzer, C. Teichert, Yu. V. Noskov, N. A. Ogurtsov, A. A. Pud, <u>P. Balaz</u> , M. Balaz, M. Tesinsky, M. Hegedus	P-II-39	
P-I-40	Investigation of mechanical properties in dissimilar welding of shape memory alloys M. H. Sadati, F. Haftani		

- I Invited lecture
- O Oral presentation
- P Poster presentation