

Topic: A - Functional Materials

	<p>Organic Materials for Advanced Electronics</p>				
A11-30	<p>Intercalation and Phase Separation in Co-Deposited thin Films of Rodlike Conjugated Molecules J.-O. Vogel (Sp), I. Salzmann, S. Duhr, J.P. Rabe, N. Koch, Humboldt-Universität, Berlin (Germany)</p>	A12-65	<p>Evaluation Lubricity and Wear Behavior of TiB/Ti Functionally Graded Material M.B. Rahaei, Materials and Energy Research Center, Tehran (Iran)</p>	A12-830	<p>Effect of Interstitial Impurities on Functional Properties of Platinum-Ggroup Metals N. Gorina (Sp), G.S. Burkhanov, Russian Academy of Science, Moscow (Russian Federation)</p>
A11-108	<p>Luminescent and Magnetic Ionic Liquid Crystals A.-V. Mudring (Sp), A. Getsis, Ruhr-University Bochum (Germany)</p>	A12-118	<p>Shape Memory Alloys for MEMS Components Made by Powder Metallurgy Processes V. Tsakiris (Sp), M. Lucaci, INCDIE ICPE-CA, Bucharest (Romania); R.L. Orban, Technical University of Cluj Napoca (Romania)</p>	<p>Nanostructured Materials: Science and Technology</p>	
A11-137	<p>Refractive Index Patterning of Flexible Waveguide Materials by Two-Photon Polymerization R. Inführ (Sp), N. Pucher, H.C. Lichtenegger, R. Liska, Vienna University of Technology (Austria); V. Schmidt, V. Satzinger, Joanneum Research, Weiz (Austria); J. Stampfl, Vienna University of Technology (Austria)</p>	A12-333	<p>Thin Films Based on Nanocrystalline TiO₂ for Transparent Electronics K. Sieradzka (Sp), J. Domaradzki, D. Kaczmarek, Wrocław University of Technology (Poland); S. Müller, D. Schmeißer, Brandenburg University of Technology, Cottbus (Germany)</p>	A14-24	<p>Self-Organization Phenomena in Polyurethane and Azo-Polymers G. Strat (Sp), Technical Gh. Asachi University, Iasi (Romania); M. Strat, S. Gurlui, Al. I. Cuza University, Iasi (Romania); I. Lihtetchi, Transilvania University, Brasov (Romania)</p>
A11-152	<p>Chemistry en Route to Linearly Extended, Polymeric Tetrathiafulvalenes H. Müller, European Synchrotron Radiation Facility, Grenoble (France)</p>	A12-497	<p>Characterization of Electroplated, Thick Permalloy Films S. Getlawi (Sp), Saarland University, Saarbrücken (Germany); M. Theis, S. Friedrich, University of Applied Sciences, Zweibrücken (Germany); A. Kobischka-Veneva, Saarland University, Saarbrücken (Germany) et al.</p>	A14-51	<p>Nanocomposites Polymer-Nanocarbon and Polymer-Nanoclays as Advanced Materials for Structural Application I. Dinca (Sp), National Institute for Aerospace Research "Elie Carafoli", Bucharest (Romania); Z. Vuluga, Institute of Chemical Research, Bucharest (Romania) et al.</p>
A11-518	<p>Modification of Metal-organic Interfaces in OLEDs Using self-assembling Monolayers of Electron Acceptor Molecules S. Harkema, Holst Centre, Eindhoven (Netherlands); S. Mennema (Sp), TNO Science & Industry, Eindhoven (Netherlands); R. Kicken, W. Stals, J. Sweelssen, R. Rieger, H. Schoo, Holst Centre, Eindhoven (Netherlands)</p>	A12-578	<p>The Electron-Stimulated Desorption from the Surface of Aluminium Oxide Ceramics I.N. Sergeev, V. Koumykov (Sp), Kabardino-Balkarian State University, Naltchik (Russian Federation); V.A. Sozaev, North-Caucasus Institute of Mining and Metallurgy, Vladikavkaz (Russian Federation)</p>	A14-101	<p>Nanostructures Multilayer Behavior at Quickly Thermal Shock V. Manoliu (Sp), A. Stefan, G. Ionescu, S. Gaman, I. Dinca, A. Stan, National Institute for Aerospace Research "Elie Carafoli", Bucharest (Romania)</p>
A11-666	<p>Theoretical, In-Depth Investigations of F4TCNQ, the Prototypical Organic Acceptor and the Thermally more Stable F2HCNQ on Ag(111) G. Rangger (Sp), O.T. Hofmann, Graz University of Technology (Austria); L. Romaner, University of Leoben (Austria); G. Heimel, R.-P. Blum, B. Bröker, N. Koch, Humboldt-Universität zu Berlin (Austria) et al.</p>	A12-659	<p>Investigation of Ultra Thin Barrier Films with In-Situ ARXPS L. Gerlich (Sp), Fraunhofer Center Nanoelectronic Technologies, Dresden (Germany); S. Ohsiek, C. Klein, E. Zschech, AMD Saxony LLC & Co. KG, Dresden (Germany); D. Schmeißer, Brandenburg University of Technology, Cottbus (Germany)</p>	A14-138	<p>Fabrication of Carbon Nanotube Reinforced Aluminium Alloy Composites by High Pressure Die Casting Q. Li (Sp), C.A. Rottmair, R.F. Singer, University of Erlangen-Nuremberg, Fürth (Germany)</p>
A11-668	<p>Investigation of Monolayers of Electron Donating Molecules on Coinage Metal Surfaces O.T. Hofmann (Sp), G.M. Rangger, L. Romaner, E. Zojer, Technical University of Graz (Austria)</p>	A12-706	<p>Development of Modern Copper Alloys with Flexible Properties for Electromechanical Connectors M. Keppeler (Sp), H.-A. Kuhn, A. Käuffer, F. Bubeck, Wieland-Werke AG, Ulm (Germany)</p>	A14-139	<p>Synthesis and Characterization of Carbon Nanotube/Magnesium Alloy Composites Well Dispersed by Using a Block Copolymer Q. Li (Sp), C.A. Rottmair, R.F. Singer, University of Erlangen-Nuremberg, Fürth (Germany)</p>
	<p>Inorganic Functional Materials</p>	A12-725	<p>Novel Thermo-Photoelectric Converter Based on Mn-Cr-Si, Si-Ge and InN Compounds Y. Gorjachev (Sp), V.Y. Malakhov, N.I. Siman, L.I. Fijalka, V.I. Dekhtjaruk, N. Rafal, Frantsevich Institute for Problems of Materials Science, Kiev (Ukraine)</p>	A14-195	<p>Growth and Physical Properties of Ordered Arrays of Nanowires of Complex Functional Oxides B. Ghosh Saha (Sp), A.K. Raychaudhuri, S.N. Bose National Centre for Basic Sciences, Kolkata (India)</p>
A12-50	<p>Thermal Expansion of Yttria Stabilized Zirconia R. Ochrombel, German Aerospace Center, Cologne (Germany)</p>	A12-792	<p>Al-Oxynitride Buffer Layer for High-k Dielectrics K. Henkel (Sp), Y. Burkov, K. Koravaev, D. Schmeißer, Brandenburg University of Technology, Cottbus (Germany)</p>	A14-260	<p>Metal-Carbon Nanocomposite: Structure and Magnetic Properties G. Karpacheva (Sp), K. Bagdasarova, L. Zemtsov, Russian Academy of Science, Moscow (Russian Federation); E. Dzidziguri, E. Sidorova, Moscow State Institute of Steel and Alloys (Russian Federation) et al.</p>

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A14-334	Nonlinear Optical Effects in Semiconductor Quantum Dots R. Hristu (Sp), S.G. Stanciu, G.A. Stanciu, University "Politehnica" of Bucharest (Romania)	A14-631	Fabrication of Localized Nanowires Arrays Used for Sensing Applications, by Combining Electrochemical Synthesis with Lithographic Techniques V.A. Antohe (Sp), A. Dutu, A. Vlad, M. Mátéfi-Tempfli, S. Yunus, L. Piraux, S. Mátéfi-Tempfli, Université Catholique de Louvain (Belgium)	A17-196	Protein Functionalization of Open Porous Calcium Phosphate Scaffolds B. Müller (Sp), K. Rezwan, University of Bremen (Germany)
A14-341	Diblock Copolymer Thin Films as Templates for Generation of Nanostructured Materials E. Bhoje Gowd (Sp), B. Nandan, M. Stamm, Leibniz Institute of Polymer Research Dresden (Germany); N. Bigall, A. Eychmüller, Technische Universität Dresden (Germany)	A14-663	Growth of Nanocrystalline Silicon Films Using PECVD Technique R. Bilas (Sp), Indian Institute of Technology, Kanpur, Nagar (India); S. Kumar, P.N. Dixit, National Physical Lab., New Delhi (India); S.C. Agarwal, D. Deval, Indian Institute of Technology, Kanpur, Nagar (India)	A17-209	X-Ray Structural Study of Surface Functionalized Polyethylene Imines B. Angelov (Sp), GKSS Research Centre, Geesthacht (Germany); U. Vainio, DESY, Hamburg (Germany); N. Pasquier, DWI an der RWTH Aachen e.V. und ITMC (Germany); R. Willumeit, GKSS Research Centre, Geesthacht (Germany)
A14-359	Characterization of Transparent and Nanocrystalline TiO₂:Nd Thin Films Prepared by Magnetron Sputtering D. Wojcieszak (Sp), D. Kaczmarek, J. Domaradzki, Wrocław University of Technology (Poland)	A14-696	Controlled Synthesis and Growth Mechanism Study of Tin Oxide Nanowire Arrays J. Pan (Sp), J. Altmayer, J. Wei, N. Donia, H. Shen, S. Mathur, Leibniz Institute of New Materials, Saarbrücken (Germany)	A17-335	Characterization of Biomaterials Using Synchrotron Radiation at DESY F. Beckmann (Sp), GKSS Research Centre, Geesthacht (Germany); F. Fierz, University of Basel (Switzerland); B. Leukers, S. Irsen, Caesar Research Center, Bonn (Germany); J. Herzen, GKSS Research Centre, Geesthacht (Germany) et al.
A14-387	Combination of HRTEM and EELS for Microstructure Characterisation of Ultra-hard BN-nanocomposites M. Motylenko (Sp), V. Klemm, D. Rafaia, M. Schwarz, T. Barsukova, E. Kroke, Technical University of Freiberg (Germany)	A14-715	TiO₂ Nanotubes for Dye-Sensitized Solar Cells D. Kim (Sp), J.M. Macak, R. Hahn, S.P. Albu, University of Erlangen-Nuremberg (Germany); T. Stergiopoulos, A.G. Kontos, Institute of Physical Chemistry, Athens (Greece); J. Kunze, University of Erlangen-Nuremberg (Germany) et al.	A17-410	New Approaches for Surface Modifications: Bio-Membrane Inspired Coatings R. Willumeit, GKSS Research Centre, Geesthacht (Germany)
A14-442	Central and Peripheral Chiral Tetrakis-Methane and Adamantane Core Structure for the Generation of Chiral Highly Porous Materials C. Schilling (Sp), O. Plietzsch, S. Bräse, University of Karlsruhe (Germany)	A14-716	TiO₂-Based Nanotubes: Strange Structure and Property Enhancement by Alloying Y.-C. Nah (Sp), A. Gicov, D. Kim, P. Schmuki, University of Erlangen-Nuremberg (Germany)	A17-464	Human Tooth Dentin Mineral Structural Characterization by Small Angle X-Ray Scattering A. Märten (Sp), P. Zaslansky, P. Fratzl, Max Planck Institute of Colloids and Interfaces, Golm (Germany)
A14-446	Design and Synthesis of Molecular Organic Frameworks Based on Fullerene Ligands C. Réthoré (Sp), P. Pierrat, S. Bräse, University of Karlsruhe (Germany)	A14-837	Preparation of Gd Nanowires on Faceted Sapphire Substrates and Their Properties W. Kreuzpaintner (Sp), D. Lott, A. Schreyer, GKSS Research Centre, Geesthacht (Germany); V. Neu, Institute for Solid State and Materials Research, Dresden (Germany)	A17-516	The Influence of Moisture Changes on Plant Cell Wall Mechanics Investigated by In-Situ Wide Angle X-Ray Diffraction Measurements S. Zabler (Sp), I. Burgert, K. Jungnickl, M. Rueggeberg, O. Paris, C. Li, S. Siegel, P. Fratzl, Max Planck Institute of Colloids and Interfaces, Golm (Germany)
A14-470	Study on Atomic Structure and Mechanical Properties of Nanolaminated Ti₃SiC₂ M.B. Rahaei, Materials and Energy Research Center, Tehran (Iran)		Biological and Bioinspired Materials	A17-849	Spider Silk Proteins - New Biopolymeric Materials for Medical Applications A. Lammel (Sp), TUM, München (Germany); M. Schwab, G. Winter, Ludwig Maximilians Universität, München (Germany); T. Scheibel, Universität of Bayreuth (Germany)
A14-551	Preparation of Platinum-Nanoparticles Using Microstructured Devices N. Steinfeldt (Sp), M. Sebek, M.M. Pohl, K. Jähnisch, Leibniz Institute for Catalysis e.V. at the University of Rostock, Berlin (Germany)	A17-100	Alteration of Bone Mechanics via Ionic Buffers M. Kerschnitzki (Sp), H.S. Gupta, P. Fratzl, Max Planck Institute of Colloids and Interfaces, Potsdam (Germany)	A17-864	Protein-based Fibrillar Biomaterials D. Keerl (Sp), T. Scheibel, University of Bayreuth (Germany)
A14-556	90Sr Adsorption on Nano-Size Particles of the HAP V.L. Karbivskyy (Sp), Y. Litovchenko, N. Kurgan, National Academy of Science of Ukraine, Kiev (Ukraine)	A17-144	Processing Technologies for New Nacre-Like Implant Materials B. Denkena, L. de Leon, A. Moral, A. Turger (Sp), Leibniz Universität Hannover, Garbsen (Germany)		Biomedical Materials
A14-624	Artificial Pinning Centers Using Ordered Nanoporous Alumina Templates X. Hallet (Sp), M. Mátéfi-Tempfli, S. Mátéfi-Tempfli, L. Piraux, Université Catholique de Louvain, Louvain-la-Neuve (Belgium); W. Vinckx, J. Vanacken, V.V. Moshchalkov, Katholieke Universiteit Leuven (Belgium)			A18-82	Oxidation of Nitinol wire during Fabrication of Medical Implants D. Vojtech, Institute of Chemical Technology of Prague (Czech Republic)

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A18-131	Influence of Mo, W and N on the Electrochemical Corrosion Behaviour of CoCr Alloys for Use as Restorative Materials in Dentistry C. Schille (Sp), V. Aleksandrova, E. Schweizer, J. Geis-Gerstorfer, University of Tübingen (Germany)	A18-744	Novel Injectable Bone Substitute Materials Based on In-Situ Hardening Polymer / Nano-Apatite Composites S. Berger, M. Schnabelrauch (Sp), INNOVENT e.V., Jena (Germany)	A19-697	Al/Si and Ca/Eu Short Range Order in Ca/Eu-Bicchulite, Studied by FTIR Spectroscopy N.-S. Rahmoun (Sp), Christian-Albrechts-University of Kiel (Germany); L. Peters, University of Durham (UK); K. Knorr, Bruker AXS, Karlsruhe (Germany); W. Depmeier, Christian-Albrechts-University of Kiel (Germany)
A18-297	Short Term Effects of Magnesium Alloy Elements on Human Cells F. Feyerabend (Sp), N. Hort, K.U. Kainer, R. Willumeit, GKSS Research Centre, Geesthacht (Germany)	A18-769	Biophysical Functionalities of Magnetron-Sputtered and Microwave Plasma Chemical Vapour (MWCVD) Deposited Hydrogenated Amorphous Carbon Thin Films F. Danneil (Sp), M. Stüber, H. Vasilichina, S. Ulrich, A. Welle, Forschungszentrum Karlsruhe GmbH, Eggenstein-Leopoldshafen (Germany)		Thin Films
A18-298	A Sintered Porous Ti-6Al-7Nb Alloy – Correlation between Powder Size Fraction, Porosity and Bone Cell Growth F. Feyerabend (Sp), A. Schuster, R. Willumeit, R. Gerling, W. Limberg, T. Ebel, GKSS Research Centre, Geesthacht (Germany)	A18-818	Biocompatibility of Surface-Modified Poly (L-lactide) for Tissue Engineering Applications S. Lee (Sp), Friedrich Schiller University Jena (Germany); Z.M. Liu, T. Groth, Martin Luther University, Halle (Germany)	A20-342	Mechanical and Chemical Properties of Pulsed Laser Deposited Calcium Phosphates S. Ciucă (Sp), University Politehnica of Bucharest (Romania); H. Pellefier, P. Denier, INSA, Strasbourg (France); G. Cosmeleata, B. Ghiban, F. Miculescu, University Politehnica of Bucharest (Romania) et al.
A18-304	Biocompatible Magnetic Nanoparticles for Treatment of Brain Cancer B. Mucha (Sp), A. Schuster, GKSS Research Centre, Geesthacht (Germany); L. Vekas, D. Bica, Centre for Fundamental and Advanced Technical Research Romanian Academy, Timisoara (Romania) et al.	A18-828	Ti-35Nb-5Ta-7Zr Alloy: Microstructure and Mechanical Properties V.M. Oliveira, A.L. Marcelo, I. Ferreira (Sp), State University of Campinas (Brazil)	A20-607	Plasma Process Using Pre-ionized Nitrogen S.-W. Kim (Sp), S. Yoo, Y.K. Cho, K.I. Moon, S.G. Kim, Korea Institute of Industrial Technology, Kyungido Ahsnansi (Korea, Republic); T.-G. Jhee, Hongik University, ChungNam (Korea, Republic)
A18-308	Medical Guidewire with Functionally Graded Properties Using Cu-Al-Mn-Based Superelastic Alloy Y. Sutou (Sp), T. Omori, R. Kainuma, Y. Yamauchi, K. Ishida, Tohoku University, Sendai (Japan)	A18-847	Preparation of Calcium-Phosphate Bone Substitutes by Use of 3D-Printed Moulds D. Pohle (Sp), M. Dressler, G. Berger, Federal Institute for Materials Research and Testing, Berlin (Germany)	A20-895	Polyaniline film for SPR sensor P. Obreja (Sp), D. Cristea, M. Kusko, A. Dinescu, C. Padaru, National Institute for Research and Development in Microtechnologies, Bucharest (Romania)
A18-379	Functionalization of Biointerfaces - Design and Monitoring of ECM Analogous Biointerfaces for Biomedical and Biophysical Applications K. Liefeth, Institut für Bioprozess- und Analysenmesstechnik e.V., Jena (Germany); M. Schnabelrauch (Sp), INNOVENT e.V., Jena (Germany); K.D. Jandt, Friedrich Schiller University Jena (Germany) et al.		Functional Microporous Materials		
A18-574	Properties of some Biomedical Materials Based on Ag3Sn Powders Produced by Mechanical Alloying D.G. Bota (Sp), T. Dobra, Technical University of Cluj-Napoca (Romania)	A19-328	Functional Impregnating Composition for Protection Microporous Material from Destruction D. Kolesnik, State Road Scientifically Research Institute, Kiev (Ukraine)		
A18-687	Use of Antimicrobial Copper Alloys in Hospital and Nursing Homes Hygiene K. Ockenfeld, L. Tikana (Sp), A. Klassert, Deutsches Kupferinstitut Berufsverband e.V., Düsseldorf (Germany)	A19-425	Use of Image Analysis in Sintered Metal Porous Media Characterization D. Trifunovic, M. Dimitrijevic, R. Jancic Heinemann (Sp), University of Belgrade, Beograd (Serbia)		
A18-704	Corrosion Resistance of Implant Alloy MP35N(35Co-35Ni-20Cr-10Mo) in the Corrosion Test ISO 10271 G. Hausch (Sp), Dentalex, Langenselbold (Germany); C. Schille, E. Schweizer, J. Geis-Gerstorfer, University of Tübingen (Germany)	A19-686	Topotactic Condensation of Layered C4A3H3 to Microporous C4A3 L. Peters (Sp), K. Knorr, Christian-Albrechts-University of Kiel (Germany); J.S.O. Evans, University of Durham (UK); A. Senyshyn, Technical University of Darmstadt (Germany) et al.		

Topic: B - Structural Materials

	High Temperature Metallic Materials				
B11-132	Nb3Al Granules and Compacts Microstructure Investigation A. Logacheva (Sp), A.V. Logunov, A.V. Logachev, JSC "Kompozit", Korolev (Russian Federation)	B12-421	Defect Structures Observed after Low Cycle Fatigue of a High-Strength TiAl Alloy F. Appel (Sp), M. Oehring, GKSS Research Centre, Geesthacht (Germany); T.K. Heckel, H.-J. Christ, University of Siegen (Germany)	B14-325	Effect of Process Parameters and Alloy Composition on Microstructure, Texture and Mechanical Properties of Rolled Magnesium Sheets K. Hantzsche (Sp), J. Bohlen, D. Letzig, GKSS Research Centre, Geesthacht (Germany); K.U. Kainer, J. Wendt, Hamburg University of Technology (Germany)
B11-231	Mechanical Properties of Molybdenum Alloys Subjected to Dilute Carbon Monoxide Gas Heating M. Nagae (Sp), N. Ise, H. Kuwahara, Research Institute for Applied Science, Kyoto (Japan)	B12-614	Isothermal Decomposition of Orthorhombic Alloy Ti - 26Nb - 22Al S. Demakov (Sp), A.A. Popov, O.A. Oleneva, A.G. Ilarionov, Ural State Technical University, Ekaterinburg (Russian Federation)	B14-549	Features Regarding Obtaining In-Situ Composite Al/TiAl3+Al2O3 by Powder Metallurgy I. Apostolescu (Sp), P. Moldovan, S. Bejan, G. Popescu, University Politehnica Bucharest (Romania)
B11-234	Mechanical Properties of Different Refractory Materials for Nuclear Fusion Applications M. Rieth (Sp), B. Daffener, Forschungszentrum Karlsruhe GmbH, Eggenstein-Leopoldshafen (Germany); A. Hoffmann, PLANSEE Metall GmbH, Reutte (Austria) et al.	B12-712	Axial-Torsional Thermo-Mechanical Fatigue of a Near-Gamma Titanium Aluminide Alloy S. Brookes (Sp), H.-J. Kühn, B. Skrotzki, H. Klingelhöffer, R. Sievert, Federal Institute for Materials Research and Testing, Berlin (Germany); J. Pfetzing, D. Peter, G. Eggeler, Ruhr-University Bochum (Germany)		Advanced Polymers and Composites
B11-366	Analysis and Development of the Technology of Iltropic Plates Manufacturing from Refractory Metals S. Burkin (Sp), A. Beketov, N. Obabkov, R. Iskhakov, Urals State Technical University, Ekaterinburg (Russian Federation)	B12-853	Mechanical and Microstructural Observations during Creep of Hot-extruded Ti-45Al-5Nb-0.2B-0.2C D. Peter (Sp), Ruhr-University Bochum (Germany); G.B. Viswanathan, The Ohio State University, Columbus, OH (USA); M.F.-X. Wagner, G. Eggeler, Ruhr-University Bochum (Germany)	B16-216	Influence of the Compatibilizer Amount on Nanoclay Dispersion on a Polypropylene Matrix D. Garcia Sanoguera (Sp), R. Balart, O. Fenollar, Polytechnic University of Valencia, Alcoy (Spain); J. Pascual, E. Fages, Textile Research Institute, Alcoy (Spain)
B11-568	The Polytherms of Wet Angles between Reactor Steels and Lead or Bismuth A. Kashezhev (Sp), M.K. Ponegev, Kabardino-Balkarian State University, Nalchik (Russian Federation); A.I. Hasanov, Russian Academy of Science, Grozny (Russian Federation) et al.		New Methods in Steel Design	B16-225	Use of Nanosilver Particles as Additive for Antibacterial Uses of Polypropylene Matrix D. Garcia Sanoguera (Sp), R. Balart, O. Fenollar, J. Pascual, Polytechnic University of Valencia, Alcoy (Spain); E. Fages, Textile Research Institute, Alcoy (Spain)
	Structural Intermetallics	B13-188	Valorisation by Recycling Pulverulent Secondary Materials Use in EAF Stellmaking M. Sohaci (Sp), C. Predescu, E. Matei, A. Nicolae, Politehnica University of Bucharest (Romania)	B16-241	Viscoelasticity of Poly (Ethylene Terephthalate) / High Density Polyethylene Agave Fiber Blends A.B. Morales-Cepeda (Sp), Instituto Tecnológico de Ciudad Madero, Tamaulipas (Mexico); C.F. Castro, J.L. Rivera Armenta, R.A. Cruz, A.M. Mendoza Miz, J.R. Perez, Instituto Tecnológico de Ciudad Madero, Tamaulipas (Mexico)
B12-83	Structure and High-Temperature Oxidation of TixAl-Ti5Si3 Eutectic Composites D. Vojtech, Institute of Chemical Technology of Prague (Czech Republic)	B13-210	Analysis of Rolled C45 Steel by Means of X-Ray Diffraction D. Simek (Sp), D. Rafaja, M. Motylenko, V. Klemm, G. Schreiber, A. Brethfeld, G. Lehmann, Technical University of Freiberg (Germany)	B16-261	Redox-Active Polymers of Phenothiazine for Biomolecules Detection G. Karpacheva (Sp), S.Z. Ozkan, A.V. Orlov, Russian Academy of Science, Moscow (Russian Federation); M.Y. Vagin, M.V. Lomonosov Moscow State University (Russian Federation)
B12-285	Transformation Kinetics of h-Al2Ti to r-Al2Ti and Dissolution of Al5Ti3 N. Engberding (Sp), M. Palm, F. Stein, Max-Planck-Institut für Eisenforschung GmbH, Düsseldorf (Germany); M. Heilmaier, H. Saage, D. Sturm, Otto-von-Guericke-University Magdeburg (Germany) et al.		Light Metals	B16-290	Investigation of the Mechanical Behaviour of Long Glass Fibre Reinforced Thermoplastics M. Grigo (Sp), K. Weidenmann, D. Löhe, University of Karlsruhe (Germany); M. Reif, S. Sanwald, Fraunhofer Institute for Chemical Technology, Pfalz (Germany)
B12-376	Production of Titanium-Aluminide Powder by Gas Atomisation and Its Processing by Metal Injection Moulding W. Limberg (Sp), T. Ebel, F.P. Schimansky, GKSS Research Centre, Geesthacht (Germany)	B14-1	Determination of the Bending Strength at Sheet Metal I. Mathy, Aalen University (Germany)		
		B14-99	Influence of RE Elements on Microstructure, Texture and Formability of rolled Magnesium Sheets J. Wendt (Sp), K.U. Kainer, Hamburg University of Technology (Germany); K. Hantzsche, J. Bohlen, D. Letzig, GKSS Research Centre, Geesthacht (Germany)		

Topic: B - Structural Materials

- B16-392** **Influence of Process Conditions in the Gelation Process in PVC Plastisols with Epoxidized Linseed Oil**
O. Fenollar, D. Garcia Sanoguera (Sp), R. Balart, L. Sánchez, Polytechnic University of Valencia, Alcoy (Alicante) (Spain)
- B16-393** **Mechanical Characterisation of a Novel Plastisol Based on Polyvinyl Chloride and Epoxidized Fatty Acids**
O. Fenollar, D. Garcia Sanoguera (Sp), R. Balart, L. Sánchez, Polytechnic University of Valencia, Alcoy (Alicante) (Spain)
- B16-489** **Struktur und Endeigenschaften dünnwandiger Spritzgussteile aus polylofin-basiertem Phasenwerkstoff**
A. Frick (Sp), M. Ruff, Aalen University (Germany)
- B16-509** **Cu-C Composites: Microstructure - Property Relationship**
J. Kováčik (Sp), S. Emmer, J. Bielek, Slovak Academy of Sciences, Bratislava (Slovak Republic)
- B16-520** **Nanostructures from Cellulose Derivatives and Polyacrylates**
A.B. Morales-Cepeda (Sp), Instituto Tecnológico de Ciudad Madero, Tamaulipas (Mexico); C.F. Castro, A. Mendoza-Martínez, Instituto Tecnológico de Ciudad Madero, Madero, Tamaulipas (Mexico) et al.
- B16-539** **Release of (S)-(+)-Ketoprofen through Hydrogels Based on Poly(Acrylic Acid) and Carboxymethyl Cellulose**
N.A. Purata-Pérez, R. Antonio-Cruz, Y. Chávez-Cinco, A.M. Mendoza-Mtz, Instituto Tecnológico de Ciudad Madero, Tampico (Mexico); C.F. Castro, A.B. Morales-Cepeda (Sp), Instituto Tecnológico de Ciudad Madero, Tamaulipas (Mexico)
- B16-589** **Synthesis and Characterization of Chitosan-Epichlorohydrin Hydrogel Films**
K. Yurdakoc (Sp), Y. Seki, Dokuz Eylul University, Buca-Izmir (Turkey)
- B16-682** **Plastic Deformation Molecular Mechanics of Polycapromide**
U. Gafurov, Institute of Nuclear Physics, Tashkent (Uzbekistan)
- B16-776** **Covalent Bonded MWNT-Cellulose Composite Film**
S. Yun, K.S. Kang, Inha University, Incheon (Korea, Republic); J.-H. Kim (Sp), Fraunhofer Center Nanoelectronic Technologies, Dresden (Germany); C. Yi, J. Kim, Inha University, Incheon (Korea, Republic)

Ultra Fine Grained and Nanomaterials

- B20-330** **The Results of Experiments Concerning the Characterization and Processing of Ferrous Waste with very Fine Granulation (0,1-0,4 im) Generated by the Pickling of Steel Sheets**
M. Hritac, G. Iorga (Sp), F. Zaman, Metallurgical Research Institute, Bucharest (Romania); P. Demi, Migral Ltd., Bucharest (Romania)
- B20-395** **Transport Properties of Compacted Al Doped ZnO Nanoparticles under Different Atmospheres**
S. Hartner (Sp), M. Ali, M. Winterer, H. Wiggers, University of Duisburg-Essen (Germany)

Topic: C - Processing

Materials Thermodynamics and Applications to Solidification and Solid State Transformation

- C11-839** **Aspects about the Kinetics Transformation of a Special Cast Iron**
I. Milosan, Transilvania University of Brasov (Romania)
- C11-850** **Directional Crystallization and Solidification of Metallic Materials**
F. Stefanescu (Sp), A. Mihai, G. Neagu, POLITHENICA University of Bucharest (Romania)

Melting and Casting

- C12-115** **Levitation Melting Combined with Mechanical Milling of LaNi₅-xM_x Hydrogen Storage Materials**
E. Enescu (Sp), M. Lucaci, V. Tsakiris, S. Hodorogea, N. Stancu, INCDIE ICPE-CA, Bucharest (Romania)
- C12-161** **The Influence of Small Alkali - Earth Metal Additions and of Electric Current on Phase Transformations in Contact of Tin and Bismuth or Lead**
V.A. Sozaev (Sp), North-Caucasian Institute of Mining and Metallurgy, Vladikavkaz (Russian Federation); N.V. Dalakova, B.I. Verkin, Ukrainian Academy of Sciences, Kharkov (Ukraine) et al.
- C12-595** **Microstructure and Properties Examination of Cast Cu-Zn-Ag-Sn Brazing Alloys**
J. Stobrawa (Sp), L.K. Ciura, L.J. Marchewka, W.S. Malec, B.E. Cwalek, Institute of Non-Ferrous Metals, Gliwice (Poland)
- C12-596** **Microstructure and Functional Properties of Cast Cu-Zn-P Alloys**
J. Stobrawa (Sp), L.K. Ciura, W.S. Malec, L.J. Marchewka, B.E. Cwalek, Institute of Non-Ferrous Metals, Gliwice (Poland)
- C12-597** **The Investigation into Microstructure and Properties of Cast AgCu₃Sn₂ Alloy**
W.S. Malec (Sp), J.P. Stobrawa, L.K. Ciura, L.J. Marchewka, B.E. Cwalek, Institute of Non-Ferrous Metals, Gliwice (Poland)
- C12-608** **Influence of Indium on Microstructure and Properties of Cast AgCuZn Alloys**
W.S. Malec (Sp), J. Stobrawa, L.J. Marchewka, L.K. Ciura, B.E. Cwalek, Institute of Non-Ferrous Metals, Gliwice (Poland)

Topic: C - Processing

	Joining		Powder Synthesis and Ceramic Processing		
C14-122	<p>Diffusion Bonding of the Cu-Fe Dissimilar Metallic Couple V. Tsakiris (Sp), M. Lucaci, S. Hadorogea, L. Leonat, INC DIE ICPE-CA, Bucharest (Romania)</p>	C15-43	<p>Effect of Lithium in the Increase of Threshold Field of Zinc Oxide-based Varistors M. Houabes (Sp), University of Annaba (Algeria); R. Metz, University of Claude Bernard Lyon1, Villeurbanne (France)</p>	C15-694	<p>Development of Ultra-High Temperature Stable Ceramics by Reactive Infiltration Processes R. Voigt (Sp), G. Motz, W. Krenkel, University Bayreuth (Germany)</p>
C14-247	<p>Effect of Zn and Ge Additions on the Abnormal Whisker Growth in RE-Doped Solder Joints T.-H. Chuang (Sp), C.C. Chi, H.J. Lin, National Taiwan University, Taipei (Taiwan)</p>	C15-80	<p>Low Temperature Sintered ZnTiO₃ Dielectric Ceramics with Temperature Coefficient of Dielectric Constant Near Zero M. Aliouat (Sp), University M.B Boumerdas (Algeria); A. Chaouchi, Université de Tizi-Ouzou Mouloud Mammeri (Algeria); S. Marinel, CNRS, Caen (France)</p>	C15-838	<p>Influence of Several Synthesis Parameters on Particle Size and Shape of ZnO Particles M. Peiró, I. Núñez, T. Stoyanova Lyubenova (Sp), J.B. Carda, University Jaume I, Castelló de la Plana (Spain); A. Testino, P. Nanni, Università di Genova (Italy); V. Buscaglia, Consiglio Nazionale di Ricerca, Genova (Italy)</p>
C14-270	<p>Residual Stress Analysis of Aluminium Welds with High Energy Synchrotron Radiation at the HARWI II Beamline T. Fischer (Sp), GKSS Research Centre, Hamburg (Germany); R.V. Martins, Joint Research Centre, Petten (The Netherlands); A. Schreyer, GKSS Research Centre, Hamburg (Germany)</p>	C15-114	<p>Hydrogen Storage Mg₇Ti₁₂Fe₁₂-xNi_x (x =4, 8) Materials Processed by Mechanical Alloying V. Tsakiris (Sp), M. Lucaci, L. Leonat, S. Hadorogea, INC DIE ICPE-CA, Bucharest (Romania); A. Biris, INCDTIM, Cluj Napoca (Romania); R.L. Orban, Technical University of Cluj Napoca (Romania)</p>		<p>Advanced Surface Engineering - Micro/Nano Structuring</p>
C14-381	<p>The Use of Power Ultrasound in Structural Adhesive Bonding J. Holtmannspötter (Sp), J. v. Czarniecki, Federal Office of Defense Technologie and Procurement, Erding (Germany)</p>	C15-283	<p>High-Purity Iron Hydroxide Powder Synthesis from a Raw Material via Selective Precipitation and Coagulation Y.-J. Suh (Sp), D.S. Kil, T.E. Oh, K.S. Chung, Korea Institute of Geoscience and Mineral Resources, Daejeon (Korea, Republic)</p>	C16-178	<p>Modeling and Fabrication of Periodic Arrays on Polymer Substrates by Laser Interference Patterning M. Cornejo (Sp), Leibniz Institute of Surface Modification, Leipzig (Germany); A.F. Lasagni, George W. Woodruff School of Mechanical Engineering, Atlanta (USA); F. Lasagni, Vienna University of Technology (Austria) et al.</p>
C14-382	<p>Study on Weld Metal Dilution Using the Composite Core Electrode I. Voiculescu (Sp), V. Geanta, University "Politehnica" Bucharest (Romania); H. Binchiciu, SC SUDOTIM AS SRL, Timisoara (Romania); R. Stefanioiu, University "Politehnica" Bucharest (Romania)</p>	C15-447	<p>Nickel Powder Influence on Atomization Process B. Ghiban (Sp), G. Cosmeleata, N. Ghiban, S. Ciucă, I. Carceanu, University Politehnica Bucharest (Romania)</p>	C16-203	<p>SiC Fibre Reinforced Copper as Heat Sink Material – A Comparison of SCS 6 and SCS 0 Fibres A. Brendel (Sp), V. Paffenholz, T. Köck, Max Planck Institute for Plasma Physics, Garching (Germany)</p>
C14-430	<p>A Comparison of the Microstructural Effects of Arc and Laser Brazing on High Strength Steel. A Comparison between the Processes M. Janssen (Sp), M. Hermans, M. Janssen, I.M. Richardson, Delft University of Technology (Netherlands)</p>	C15-448	<p>Coated Porous Silicon Nitride-Yb-Silicate Ceramics for High Temperature Applications M. Knoll (Sp), M. Willert-Porada, University of Bayreuth (Germany)</p>	C16-391	<p>Characterization of Worn Titanium-Silicon Cathodes Used for Cathodic Arc Evaporation J. Zhu (Sp), A. Eriksson, Linköping University, Linköping (Sweden); J. Sjolen, secotools, Vorgesta (Sweden); J. Rosén, M. Odén, Linköping University, Linköping (Sweden)</p>
C14-469	<p>Calculation of the Stress Distribution within Ceramic-Metal Brazements under Consideration of the Formed Intermetallic Compounds D. Bartout (Sp), Technische Universität Berlin (Germany); J. Wilden, Technical University of Berlin (Germany)</p>	C15-542	<p>Precursors for Materials with Electrical Properties I. Balan (Sp), T. Malaeru, ICPE-CA, Bucharest (Romania); I. Jitaru, L. Bancu, University "Politehnica" of Bucharest (Romania); C. Morari, J. Neamtu, G. Georgescu, ICPE-CA, Bucharest (Romania)</p>	C16-441	<p>Plasma Nitriding Temperature Influence on Surface Properties of Austenitic Stainless Steels S. Ciucă (Sp), G. Cosmeleata, B. Ghiban, M. Tarcolea, M.V. Suciu, R. Paunescu, I. Gherghescu, University Politehnica of Bucharest (Romania)</p>
C14-651	<p>Study on the Characteristics of Hard Facing Weld Using the Carbide Composite Core Wire I. Voiculescu (Sp), University "Politehnica" Bucharest (Romania); R. Iovanas, Transilvania University of Brasov (Romania); V. Geanta, University "Politehnica" Bucharest (Romania) et al.</p>	C15-679	<p>Synthesis of K₂NiF₄-Type Ceramic Pigments by Spray Pyrolysis T. Stoyanova Lyubenova (Sp), University Jaume I, Castelló de la Plana (Spain); M. Ocaña, Materials Science Institute of Seville (Spain); J. Carda, University Jaume I, Castellon de la Plana (Spain)</p>		

Topic: D - Characterisation and Modelling

	Mechanical Testing		Microstructural Characterisation		
D11-2	Examination of the Extrusion Process I. Mathy, Aalen University (Germany)	D12-34	An Investigation on the Diffusion Bonding Ability of wc-ni Ceramic-metal Composites A. Erol (Sp), A. Yönetken, M. Cakmakkaya, Afyon Kocatepe University, Afyonkarahisar (Turkey)	D12-587	A Nanofocus Endstation for the PETRA III Microfocus Beamline at HASYLAB C. Krywka, M. Müller (Sp), Christian-Albrechts-University of Kiel (Germany)
D11-20	Effect of Testing Conditions on Thermal Shock Resistance of Advanced Ceramics B. Rehmer (Sp), R. Pulz, S. Glaubitz, Federal Institute for Materials Research and Testing, Berlin (Germany)	D12-56	Characteristic Behavior of Nickel and Copper Ions during Transformation of Green Rust to Ferric Oxyhydroxides in Aqueous Solution K. Inoue (Sp), K. Shinoda, S. Suzuki, Tohoku University, Sendai (Japan); M. Saito, Niigata University (Japan); Y. Waseda, Tohoku University, Sendai (Japan)	D12-660	Grating Interferometers System Design at ANKA Light Source Z. Li (Sp), D. Pelliccia, M. Cholewa, Forschungszentrum Karlsruhe GmbH, Eggenstein-Leopoldshafen (Germany); T. Weitkamp, European Synchrotron Radiation Facility, Grenoble (Germany) et al.
D11-351	Determination of the Viscoelastic Properties of Hydrogels Based on Polyethylene Glycol Diacrylate (PEG-DA) J. Stampfl (Sp), T. Koch, S. Gaebler, S. Seidler, C. Heller, S. Baudis, R. Liska, R. Weidisch, Vienna University of Technology (Austria)	D12-193	Near Surface T-m Phase Transformation in 3Y-TZP During Grinding M.J. Anglada Gomila (Sp), Y. Gaillard, E. Jiménez-Piqué, J. Valle, Polytechnic University of Catalonia, Barcelona (Spain)	D12-665	Sub-micron Resolution CT For Failure Analysis and Process Development M. Feser, F. Diewer, J. Gelb, G. Hsu, A. Tkachuk, W. Yun, T. Beetz (Sp), Xradia Inc., Concord (USA)
D11-575	Wear Behaviour of some Materials for Self-Lubricating Bearing D. Bota (Sp), T. Dobra, Technical University of Cluj-Napoca (Romania)	D12-212	Effect of Ageing Conditions and Stress on Microstructure Evolution of CMSX 10 Nickel Base Superalloy O. Tassa, B. Giambi (Sp), Centro Sviluppo Material S.p.A., Rom (Italy); S. Sabbadini, G. Zanon, Avio S.p.A., Turin (Italy)	D12-685	Corrosion Behaviour of Some Devices for Osteosynthesis B. Ghiban (Sp), University Politehnica Bucharest (Romania); C. Bortun, Medicine and Pharmacy University Victor Babes Timisoara (Romania); S. Ciucă, N. Ghiban, I. Carceanu, University Politehnica Bucharest (Romania)
D11-669	Microstructure and Mechanical Properties of Ferritic Stainless Steels Containing High Aluminum and Low Chromium Contents S. Kobayashi (Sp), Y. Toi, T. Takasugi, Tohoku University, Osaka (Japan)	D12-222	Microstructure Characterisation of Cold Sprayed Titanium on Polycrystalline Al2O3 Substrates T. Schucknecht (Sp), Technical University of Freiberg (Germany); A. Paul, H. Berek, GfE Fremat GmbH, Freiberg (Germany)	D12-811	X-ray Diffraction Line Profile Analysis Applied to the Study of Defects in Tensiled Nanocrystalline Pd Alloys T. Ulyanenkova (Sp), R. Baumbusch, T. Filatova, University of Karlsruhe (Germany); S. Doyle, A. Castrup, P. Gruber, Forschungszentrum Karlsruhe GmbH (Germany); J. Markmann, Saarland University, Saarbrücken (Germany) et al.
D11-775	Influence of Rotating Bending Fatigue Test on the Mechanical Parameters of Standard Specimens K. Farhangdoost (Sp), E. Homaei, Ferdowsi University of Mashhad (Iran)	D12-420	Application of High Resolution 2D Rock-Core Scanning and 3D X-Ray Computed Tomography to Investigate Geological Features T. Szeder, M. Janz, F. Enzmann, J.-O. Schwarz (Sp), K. Rheingans, Johannes Gutenberg University Mainz (Germany); J. Goebbels, Federal Institute for Material Research and Testing, Berlin (Germany) et al.	D12-845	In-Situ Observation of Butterfly-Type Martensite in Fe-30mass%Ni Alloy during Tensile Test Using High-Resolution EBSD H. Sato (Sp), Nagoya Institute of Technology (Japan); S. Zaefferer, Max-Planck-Institut für Eisenforschung GmbH, Düsseldorf (Germany); Y. Watanabe, Nagoya Institute of Technology (Japan)
D11-804	Development of Hydrogen Permeation In-Situ Fracture Test Apparatus for Quantitative Measurement of Hydrogen Embrittlement Y. Matsumoto (Sp), Oita National College of Technology (Japan); H. Yukawa, Nagoya University (Japan); T. Nambu, Suzuka National College of Technology (Japan)	D12-488	The Bragg Magnifier: X-Ray Phase Contrast Imaging with Sub-Micrometer Resolution P. Madregger (Sp), D. Lübbert, P. Schäfer, R. Köhler, Humboldt Universität zu Berlin (Germany); T. Baumbach, Forschungszentrum Karlsruhe GmbH (Germany)		Materials Investigation with Beamlines
D11-863	Experimental Analysis of Localization Phenomena in NiTi Shape Memory Alloys using an Alternating Current Potential Drop Sensor A. Schäfer (Sp), J. Olbricht, Ruhr-University Bochum (Germany); J.L. Pelegriña, CONICET & Centro Atómico Bariloche, Bariloche (Argentina); M.F.-X. Wagner, G. Eggeler, Ruhr-University Bochum (Germany)	D12-528	Characterization of Microstructure and Microhardness of Cooper Joints with Sn63-Pb37, Sn62-Pb36-Ag2 and Sn42-Bi58 Alloys E. Grigoletto, I. Ferreira (Sp), State University of Campinas, Campinas, SP (Brazil); M.T. Biasoli, Research Center Renato Archer, Campinas (Brazil); M. Melo, S. Francisco University, Campinas (Brazil)	D13-481	Texture Analyses with Continuously Measured Pole Figures at the Neutron Materials Science Diffractometer STRESS-SPEC C. Randau (Sp), Technical University of Clausthal, Clausthal-Zellerfeld (Germany); U. Garbe, GKSS Research Centre, Geesthacht (Germany); S. Flemming, Hahn-Meitner-Institute, Berlin (Germany) et al.

Topic: D - Characterisation and Modelling

<p>Non-Destructive Testing</p> <p>D15-773 Non Destructive Evaluation of Hardness Depth by Ultrasonic Technique - Experiences and needed improvements E. Schneider (Sp), M. Stroh, Fraunhofer Institute for Non-Destructive Testing, Saarbrücken (Germany); Y. Lejeune, QNET Engineering GmbH, Saarbrücken (Germany)</p> <p>D15-840 NDT Characterisation of Materials Using Neutron Tomography and Radiography at Genra-3 P.K. Pranzas (Sp), H.-W. Schmitz, O. Metz, F. Beckmann, GKSS Research Centre, Geesthacht (Germany)</p>	<p>D16-354 Bulk and Defect Anharmonic Properties of Ferromagnetic BCC Fe Predicted by the Magnetic Potential S. Chiesa (Sp), P.M. Derlet, H. Van Swygenhoven, Paul Scherrer Institute, Villigen (Switzerland); S.L. Dudarev, EURATOM/UKAEA, Oxfordshire (UK)</p> <p>D16-361 Molecular Dynamics Simulations of the Sputtering of Beta-SiC by Ar A.-P. Prskalo (Sp), C. Kohler, S. Schmauder, University of Stuttgart (Germany); C. Ziebert, J. Ye, S. Ulrich, Forschungszentrum Karlsruhe GmbH (Germany)</p> <p>D16-362 Simulation of „Non-Rounded“ Profile Extrusion N. Ghiban (Sp), G. Chelu, N. Serban, A. Ghiban, University Politehnica of Bucharest (Romania)</p> <p>D16-652 Direct Evidence for the Key Role of Dislocation Mechanisms in Work Hardening of Single up to Nanostructured Crystals under Internal Friction, Fatigue and Shock Loadings V.P. Kisel, Russian Academy of Sciences, Chernogolovka (Russian Federation)</p>	<p>Heterogeneous Nucleation and Initial Microstructure Evolution</p> <p>D18-722 A Hybrid Model for Nucleation and Growth in Heterogenous Material Systems J.L. Lopes Rezende (Sp), J. Kundin, H. Emmerich, RWTH Aachen University (Germany)</p>
<p>Modelling and Simulation</p> <p>D16-14 The Crystallographic Model of Precipitation in Nickel-Titanium Maraging Steels V. Berezovskaya, Ural State Technical University, Ekaterinburg (Russian Federation)</p> <p>D16-141 Finite Element Analysis of Drawing Depth in Sheet Hydroforming of Tailor-Welded Blanks M. Qarakhani (Sp), J. Pashirehpour, A. Masomi, M.H. Parsa, University of Tehran (Iran)</p> <p>D16-171 Numerical Solution of Vibration Suppression as Not of Materials Machines J. Vondrich (Sp), R. Havlicek, Czech Technical University, Prague (Czech Republic)</p> <p>D16-177 Determination of Burgers Vectors from Atomistic Data J. Hua (Sp), A. Hartmaier, University of Erlangen-Nuremberg (Germany)</p> <p>D16-276 Convergence of Non-Linear Optical Calculations for Infinite Polymers P. Leiva Ronda (Sp), University of Erlangen-Nuremberg (Germany); A. Martinez, Fraunhofer Institute of Integrated Systems and Device Technology, Erlangen (Germany); P. Otto, University of Erlangen-Nuremberg (Germany)</p> <p>D16-287 Ab Initio Study of the Ternary Layered System Ti-Al-C P. Leiva Ronda (Sp), R. Janisch, A. Hartmaier, University of Erlangen-Nuremberg (Germany)</p>	<p>D16-782 Modeling the Conditions of Seam's Crystallization in Order to Prevent the Cracks Forming at Welding or Cutting in High Manganese Steels A. Berezovskiy, V. Berezovskaya (Sp), Ural State Technical University, Ekaterinburg (Russian Federation)</p> <p>D16-823 Finite Element Simulation of Weld Line Movement during Sheet Hydroforming of TWBs J. Pashirehpour (Sp), M. Qarakhani, A. Masomi, M.H. Parsa, University of Tehran (Iran)</p> <p>D16-916 A Quantum Mechanical Study of Dielectric Properties of Different Oxides L. Bounemer (Sp), EDF Research & Development, Moret sur Loing Cedex (France); M. Ferrero, University of Torino (Italy); M. Rérat, University of Pau (France); R. Orlando, Università del Piemonte Orientale, Alessandria (Italy) et al.</p> <p>Future Developments in X-ray and Neutron based Characterisation Methods</p> <p>D17-881 Material characterization and analysis in NDT applications with high resolution X-Ray techniques S. Burtzloff (Sp), M. Salamon, F. Nachtrab, V. Voland, N. Uhlmann, Fraunhofer EZRT, Fürth (Germany)</p>	<p>Miscellaneous</p> <p>0.0-252 Selective Sorption of Multi-Component Gas Mixtures in Ionic Liquids F. Dreisbach (Sp), Rubotherm GmbH, Bochum (Germany); M. Petermann, T. Fieback, J. Südmeyer, Ruhr-University Bochum (Germany)</p> <p>0.0-378 Strength Optimization of Cement with Limestone Filler Z. Guemmadi (Sp), University of Montouri, Constantine (Algeria); M. Resheidat, Jordan University of Science & Technology, Irbid (Jordan); H. Houari, University of Constantine (Algeria) et al.</p>