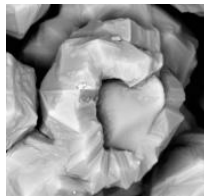


ic-cmtp4 CONFERENCE DETAILED PROGRAM

**The 4th International Conference on
Competitive Materials and Technology Processes**

Miskolc-Lillafüred, Hungary
October 3-7, 2014

CONFERENCE PROGRAM



ic-cmtp4

ic-cmtp4 CONFERENCE DETAILED PROGRAM

SESSIONS

SESSION 1: Advanced Materials for Bio- and Medical Applications

SESSION 2: Advanced Materials for Extreme Applications

SESSION 3: Advanced Nanomaterials with Predesigned Properties

SESSION 4: Biomaterials Derived Ceramics and Composites

SESSION 5: Glasses, Coatings and Related Materials

SESSION 6: Hetero-Modulus and Hybrid Materials

SESSION 7: Light-Weight Metals and Alloys

SESSION 8: Materials with Extreme Dynamic Strength for Safety and Security

SESSION 9: Membranes and Catalysts

SESSION 10: Minerals for Environmental and Medical Application

SESSION 11: Nanomaterials for Environment and Health

SESSION 12: Novel Synthesis and Processing Technology

SESSION 13: Phase Diagram as a Tool of Materials Science

SESSION 14: Polymer Derived Ceramics and Composites

SESSION 15: Processing and Properties and Application of Ceramics

SESSION 16: Testing and Characterization of Materials – Methods, Equipment and Errors

SESSION 17: Mechanical Properties and Processing Technology of Advanced Materials

is-ism1: The 1st International Symposium on Intelligent and Smart Materials

is-icm2: The 2nd International Symposium on Innovative Construction Materials

is-icbm2: The 2nd International Symposium on Innovative Carbon and Carbon Based Materials

ic-cmtp4 CONFERENCE DETAILED PROGRAM

October 3. Monday	HUNYADI JÁNOS HALL
14:00 – 14:15	CONFERENCE OPENING
14:15 – 16:05	PLENARY and KEYNOTE I.
16:05 – 16:30	POSTERS I. and Coffee Break
16:30 – 18:40	PLENARY and KEYNOTE II.
18:40 -19:20	WELCOME RECEPTION

October 4. Tuesday	HUNYADI JÁNOS HALL	BEATRIX HALL	RENEZANSZ HALL
8:30 – 10:40	PLENARY and KEYNOTE III..		
10:40 – 11:00	COFFEE BREAK		
11:00 – 13:00	SESSION 1.	SESSION 2 .	SESSION 5. SESSION 13.
12:30 – 14:00	LUNCH		
14:00 – 19:00	SOCIAL PROGRAM I. and Free Program (City Tour and Thermal Cave Bath)		

October 5. Wednesday	HUNYADI JÁNOS HALL	BEATRIX HALL	RENEZANSZ HALL
8:30 – 10:40	PLENARY and KEYNOTE IV..		
10:40 – 11:10	POSTERS SESSION II. and Coffee Break		
11:10 – 13:10	SESSION 16. SESSION 11.	SESSION 17.	SESSION 9. SESSION 12. SESSION 14.
13:00 – 14:00	LUNCH		
14:00 – 19:00	SOCIAL PROGRAM II. and Free Program (Castel Tour in Tokai Vine Region)		

ic-cmtp4 CONFERENCE DETAILED PROGRAM

October 6. Thursday	HUNYADI JÁNOS HALL	BEATRIX HALL	RENEZANSZ HALL
8:30 - 10:40	PLENARY AND KEYNOTE V.		
10:40 - 11:00	Coffee Break		
11:00 - 13:00	SESSION 15.	SESSION 3.	is-icbm2 SESSION 6. SESSION 3.
13:00 - 14:00	LUNCH		
14:00 - 15:10	PLENARY AND KEYNOTE VI.		
15:10 - 16:20	SHORT ORALS I.		
16:20 - 17:00	POSTERS III. and Coffee Break		
17:00 - 19:00	SESSION 1.	SESSION 15. is-icm2	is-ism1 SESSION 7.
19:30	ic-cmtp4 CONFERENCE DINNER		

October 7. Friday	HUNYADI JÁNOS HALL	BEATRIX HALL	RENEZANSZ HALL
8:30 - 9:30	PLENARY AND KEYNOTE VI.		
9:30-10:30	is-icm2		
10:30-11:00	POSTERS SESSION IV. and Coffee Break		
11:00 - 12:45	SHORT ORALS II.		
12:45	CONFERENCE CLOSING		

ic-cmtp4 CONFERENCE DETAILED PROGRAM– October 3. Monday

11:00 – 12:30 **ic-cmtp4 Conference Board Meeting (Renesanzs Hall)**
Prof. Dr. Laszlo A. GÖMZE, chair of **ic-cmtp4** Conference

OPENING AND PLENARY AND KEYNOTE LECTURES I. Chair: Prof. Dr. Sergei N. KULKOV, Tomsk State University (Russia)

14:00 – 14:05 **ic-cmtp4 Conference Opening**
Prof. Dr. Sergei N. KULKOV (Russia)

14:05 – 14:15 **Welcome Address**
Prof. Dr. Laszlo A. GÖMZE
chair of **ic-cmtp4** Conference (Hungary)

14:15 – 14:50 **PLENARY LECTURE – 1ST**
Mesoscopic model of two-phase composites damage under mechanical and thermal loadings
Prof. Dr. Tomasz SADOWSKI - Lublin University of Technology (Poland)

14:55 – 15:35 **PLENARY LECTURE – 2ND**
Gas adsorption induced joining for water vapor sealing of flexible device
Prof. Dr. Yasunori TAGA, Chubu University,(Japan)

15:35 – 16:05 **KEYNOTE LECTURE – 1ST**
Scientific basis for creation materials based on titanium and aluminum minerals
Prof. Dr. Olga KOTOVA – SC UB RAS Syktyvkar (Russia)

16:05 – 16:30 **POSTER SESSION I. and Coffee Break**
Chair: Prof. Dr. Shigeru.NAGASAVA,
Nagaoka University of Technology (Japan)

ic-cmtp4 CONFERENCE DETAILED PROGRAM– October 3. Monday

PLENARY NAD KEYNOTE LECTURES II.

Chair Prof. Dr. Tomasz **SADOWSKI** - Lublin University of Technology (Poland)

16:30 – 17:10

PLENARY LECTURE – 3RD

15 years of development in the research phase diagrams for thermoelectric materials. Application of the Calphad method

Prof. Dr. Jean-Claude **TEDENAC**, ITMO University (**Russia**) and University Montpellier 2 (**France**)

17:10 – 17:50

PLENARY LECTURE – 4TH

Multifunctional doped glasses for photonic and plasmonic applications

Prof. Dr. Nikolay **NIKONOROV**, ITMO University, (**Russia**)

17:50 – 18:20

KEYNOTE LECTURE – 2ND

Oxides with anomalous properties for obtaining a composite materials

Prof. Dr. Sergei **KULKOV**, Tomsk State University (**Russia**)

18:20 – 18:40

KEYNOTE LECTURE – 3RD

Studying hot tearing in Al-Zn alloys using in-situ XR diffracting solidification

Prof. Dr. Jean-Marie **DREZET**, Ecole Polytechnique Fédérale de Lausanne (**Switzerland**)

18:40-19:20

Welcome Reception

Prof. Dr. Laszlo A. **GÖMZE**

chair of **ic-cmtp4** Conference (**Hungary**)

ic-cmtp4 CONFERENCE DETAILED PROGRAM– October 3. Monday

POSTER SESSION I.

Chair: Prof. Dr. Shigeru NAGASAWA,
Nagaoka University of Technology (Japan)

1.	The glass transition temperature and infrared absorption spectra of TeO₂-Nb₂O₅-TiO₂ glasses A. El Adawy, Z. Wassel, R. El-Mallawany
2.	Modified SiO₂-based aerogels: the effect of the fluorinated substituent on the properties of materials Nataliya A. Sipyagina, Sergey A. Lermontov, Alena N. Malkova
3.	Synthesis and Ferroelectric Properties of KNbO₃ Thin Film Grown on a Pt/Ti/SiO₂/Si Substrate using the RF Magnetron Sputtering Method Sahn Nahm, Tae-Ho Lee, Dae-Hyeon Kim and Bo-Yun Kim
4.	Role of Zn²⁺ ion on the formation of reversible thermochromic polydiacetylene/zinc oxide nanocomposites Nisanart Traiphol, Amornsak Chanakul, Anothai Kamphan, Rakchart Traiphol
5.	Recovery of phosphoric acid from steel slag by ion-exchange resin (H-R) dissolution method Takeshi Toyama, Takafumi Sakuma
6.	Ceramic-like open-celled geopolymer foam as a porous substrate for water treatment catalyst Tomáš Kovářík, Tomáš Křenek, Michal Pola, David Rieger, Jaroslav Kadlec, Petr Franče
7.	The corrosion resistance of zinc coatings in the presence of boron-doped detonation nanodiamonds (DNA) Burkat G.K., Alexandrova G.S., Dolmatov V.Yu., Osmanova E.D., Myllymäki V. and Vehanen A.
8.	Paramagnetism features of the composite material obtained by the nanodiamond powder base Dolmatov V.Y., Nguyen Thi Thanh Binh, Lapchuk N.M., Myllymäki V, Vehanen A.
9.	Characterization of Ta-B-C nanostructured hard coatings Jiri Bursik, Ivo Kubena, Milan Svoboda, Vilma Bursikova, Pavel Soucek, Lukas Zabransky, Petr Vasina
10.	Electrospun Biocomposite Scaffolds Based on Polycaprolactone with Silicate-Containing Hydroxyapatite Svetlana Gorodzha, Maria A. Surmeneva and Roman A. Surmenev
11.	Fibrous Materials on Polyhydroxybutyrate and Ferric Iron (III)-Based Porphyrins Basis: Physical- Chemical and Antibacterial Properties Anna Zykova, Anatoly Olkhov, Anton Lobanov, Olga Staroverova, Polina Tyubaeva, Petr Pantyukhov, Anatoly Popov, Alexey Iordanskii
12.	Analysis of structure and dynamics of superfine polyhydroxybutyrate fibers for targeted drug delivery Anna Zykova, Anatoly Olkhov, Elena Kucherenko, Petr Pantyukhov, Svetlana Karpova, Alexey Iordanskii
13.	Metamaterial Absorber Based Multifunctional Sensor Application Amirullah M.Mamedov, Zafer Ozer
14.	Purification of phosphate Mineral of Southe-Eastern Constantiois deposit (Basin in Algeria) Souad Bentaalla-Kaced, Karima Deramchi, Taha Aifa, Abdelaziz Boutrid and Mohamed Amine Belghoul
15.	Electronic Structures, Optical and Magnetic Properties of Some Heusler Compounds for Spintronic Devices: ab initio calculations Amirullah M.Mamedov, Selami Palaz, Husnu Koc, Haci Ozisik, Engin Deligoz, Ekmel Ozbay
16.	Topological Insulators: Electronic Band Structure and Spectroscopy. Amirullah M.Mamedov, Selami Palaz, Husnu Koc, Ekmel Ozbay
17.	Thermophysical properties of ethylene glycol based yttrium aluminum garnet (Y₃Al₅O₁₂EG) nanofluids Gaweł Żyła

ic-cmtp4 CONFERENCE DETAILED PROGRAM– October 3. Monday

18.	Pulsed Nd:YAG Deposition of Nanostructured FeS_{1-x} Containing Metastable Phases Tomáš Křenek, Stefan Karatodorov, Valentin Mihailov, Jarmila Savková, Rostislav Medlín
19.	Control of the location and size of quantum dots nucleation using of a functional substrate inducing a lateral self-organization by a buried dislocation network Salah Madani, Ahmed Boussaha
20.	The effect of rejuvenation treatment on microstructure and mechanic properties of Ni-superalloy in gas turbine blade failures M. E. Djeghlal, O. Sifi, S. Djeraj

ic-cmtp4 CONFERENCE DETAILED PROGRAM – October 4. Tuesday

October 4. Tuesday	HUNYADI JÁNOS HALL	BEATRIX HALL	RENEZANSZ HALL
8:30 – 10:40	PLENARY and KEYNOTE III..		
10:40 – 11:00	COFFEE BREAK		
11:00 – 13:00	SESSION 1.	SESSION 2 .	SESSION 5. SESSION 13.
12:30 – 14:00	BUFFET LUNCH		
14:00 – 19:00	SOCIAL PROGRAM I. and Free Program (City Tour and Thermal Cave Bath)		

HUNYADI JANOS HALL	
<p align="center">PIENARY AND KEYNOTE LECTURES III. Chair: Prof. Dr. László A. GÖMZE, University of Miskolc (Hungary)</p>	
8:30 - 9:10	Formation of carbon matrices by pyrolysis of diphthalocyanines of metals: structure analysis by neutron and X-ray scattering Prof. Dr. Vasily LEBEDEV , Petersburg Nuclear Physics Institute (Russia)
9:10 - 9:40	Engineering estimation of mechanical properties and processing technology of paperboard as structural plies of visco-elastic, plastic materials Prof. Dr. Shigeru Nagasawa , Nagaoka University of Technology (Japan)
9:40 - 10:10	Multilayer BaTiO₃/NiFe₂O₄ thin films prepared by chemical solution deposition technique Vladimir V. SRDIC , Branimir Bajac, Adelina Inculescu. University of Novi Sad (Serbia)
10:10 - 10:40	Blood rheology Dr. Ursula WINDBERGER , Medical University Vienna (Austria)

10:40 - 11:00

COFFEE BREAK

HUNYADI JANOS HALL

ORAL PRESENTATIONS

SESSION 1: Advanced Materials for Bio- and Medical Applications

Chair: Prof. Dr. Aleksandr **URAKOV**,
Izhevsk State Medical Academy (Russia)

11:00 - 11:20	Nest-Like Barium Hexaferrite Microspheres With Hierarchical Porous Structure for Drug Delivery M. E. Contreras-García, S. Torres-Cadenas, A. Bravo-Patiño
11:20 - 11:40	Biodegradable Nanocomposites With Encapsulated Magnetic Nanoparticles For Controlled Drug Release Anna V. Bychkova, Valery E. Prusakov, Yuriy V. Maksimov, Regina Yu. Kosenko, Ekaterina L. Kucherenko, Alexey L. Iordanskii
11:40 - 12:00	Development and application of monocrystalline and nanostructural materials for medical X-ray sources M.L.Taubin, A.A. Pavlov, D.N. Chesnokov, A.A. Yaskolko
12:00 - 12:20	Combined Mechanical and Electrical Study of Polymers of Biological Origin Gabriella Zsoldos, Kalman Marossy, Kornel Szoda
12:20 - 12:40	Sodium Hypochlorite Influence on Detoxification System of Man Organism – Practical Application and Thermodynamic Analysis Alexander Slobodov, Olga Izotova, Andrey Uspensky, Mikhail Radin and Vladimir Sibirtsev
12:40 - 13:00	Pills violate the physico-chemical state of the stomach contents Aleksandr Urakov, Reshetnikov Alexey, Kopylov Maxim, Kasatkin Anton, Baimurzin Dmitry

13:00 - 14:00

LUNCH

14:00-19:00

SOCIAL PROGRAM I. and Free Program

BEATRIX HALL

ORAL PRESENTATIONS

SESSION 2: Advanced Materials for Extreme Applications

Chair: Prof. Dr. László A. GÖMZE,
University of Miskolc (**Hungary**)

11:00 - 11:20	Highly Resistant Inorganic Materials – Possibilities and Problems of Thermodynamic Research Alexander Slobodov, Alexander Uspensky, Stanislav Suvorov, Igor Panteleev, Alexander Sochagin, Dmitry Kremnev
11:20 - 11:40	Fish scale-cellular composite structure for impact protection: numerical and experimental proof-of-concepts Elliot Law, Yie Sue Chua, Sze Dai Pang and Ser Tong Quek
11:40 - 12:00	Band Structure and Optical Properties of Kesterite Type Compounds: first principal calculations Amirullah M.Mamedov, Selami Palaz, Huseyin Unver, Gokay Ugur, Ekmel Ozbay
12:00 - 12:20	Kinetic and thermodynamic and surface analysis studies on corrosion inhibition of steels by Cetyltrimethylammonium/KI mixture in 5 M HCl medium : The effect of silicon and phosphorus contents in steel Younes El Kacimi, Khaoula Alaoui, Mohcine Galai and Mohammed Ebn Touhami

13:00 - 14:00

LUNCH

14:00-19:00

SOCIAL PROGRAM I. and Free Program

RENEZANSZ HALL

ORAL PRESENTATIONS

**SESSION 5: Glasses, Coatings and Related Materials and
SESSION 13: Phase Diagram as a Tool of Materials Science**

**Chair: Prof. Dr. Nikolay NIKONOROV,
ITMO University (Russia)**

11:00 - 11:20	High Performance Ceramic Coatings as Friction Surfaces of Brake Rotors Septimiu Popa, Rainer Gadow
11:20 - 11:40	The influence of post-deposition annealing on the microstructure and properties of TiB_x/TiSi_yCz multilayer deposited by PLD method Agnieszka Twardowska, Agnieszka Kopia, Urszula Danuta Wdowik
11:40 - 12:00	Effect of colouring pigments on the microstructure of crystal glazes Andrea Simon, Mark Pavlicsak, Rober Géber, István Kocserha, Ferenc Kristály
12:00 - 12:20	Polypropylene Itaconate incorporated with [Cu₃(Btc)₂] MOF as functional coating material of CO₂ Adsorbent Atmanto Heru Wibowo, Witri Wahyu Lestari, Fitriana Jati Teteki, Yuni Krisyuningsih Krisnandi, Adhitasari Suratman
12:20 - 12:40	Design of Efficient Thermoelectric Materials via First Principles Calculations J.C. Tédénac, P. Jund, K. Niedziolka, P. Hermet

13:00 - 14:00

LUNCH

14:00-19:00

SOCIAL PROGRAM I. and Free Program

ic-cmtp4 CONFERENCE DETAILED PROGRAM – October 5. Wednesday

October 5. Wednesday	HUNYADI JÁNOS HALL	BEATRIX HALL	RENEZANSZ HALL
8:30 – 10:40	PLENARY and KEYNOTE IV..		
10:40 – 11:10	POSTERS SESSION II. and Coffee Break		
11:10 – 13:10	SESSION 16. SESSION 11.	SESSION 17.	SESSION 9. SESSION 12. SESSION 14.
13:00 – 14:00	LUNCH		
14:00 – 19:00	SOCIAL PROGRAM II. and Free Program (Castel Tour in Tokai Vine Region)		

HUNYADI JANOS HALL	
PIENARY AND KEYNOTE LECTURES IV. Chair: Prof. Dr. Yasunori TAGA, Chubu University (Japan)	
8:30 - 9:10	Novel Approaches of Silicon Carbide and Carbon Allotropes for Energy and Environmental Functions Dr. Mikael SYVÄJÄRVI, Valdas Jokubavicius, Xinyu Liu, Jianwu Sun, Linköping Univresity (Sveden)
9:10 - 9:40	Preparation of calcium carbonate/silicate compositionally graded hollow spherical particle by spray-drying Takeshi TOYAMA, Nihon University (Japan)
9:40 - 10:10	Radiation hardness of SiC power devices Joachim BOLLMANN, TU Bergakademia Freiberg (Germany)
10:10 - 10:40	Characterization of materials - uncertainty budgets in testing, measurement and analysis Uwe BECK, M. Weise, BAM (Germany)

10:40 - 11:10

POSTER SESSION II. and COFFEE BREAK

POSTER SESSION II. Chair: Prof. Dr. Rainer GADOW, University Stuttgart (Germany)	
1.	Nanosructured Organic Alkali-Soluble Silicate for Innovative Industrial and Construction Applications Figovsky O.L., Kudryavtsev P.G.
2.	Matrix-Isolated Smart Nanocomposite Materials - Alumina-Silicon Flocculants-Coagulants Figovsky O.L., Kudryavtsev N., Kudryavtsev P.
3.	Thermodynamic Parameters of Mixtures with Allowance for Phase Transition Components under Shock-wave Loading Sergey Kinelovskii and Konstantin Maevskii
4.	A novel computational homogenization method to design, mesh and evaluate the effective elastic response of multiphase composites Toufik Outtas, Abdennour Benhizia, Toufik Kanit
5.	Numerical Simulation of Mechanical Behaviour and Prediction of Effective Properties of Metal Matrix Composites with Consideration for Structural Evolution under Shock Wave Loading Valerii V. Karakulov, Igor Yu. Smolin and Sergei N. Kulkov
6.	Optical Properties of Polycrystalline Alumina and Ruby Fabricated by Pulsed Electric Current Sintering with Pre-Powder Treatments Hien Huu Nguyen, Makoto Nanko and Khanh Quoc Dang
7.	The effect of the addition ground olive stones on the physical and mechanical properties of clay bricks Chelouah Nasser, Arezki Samia, Tahakourt Abdelkader
8.	Properties of Oxide-Hydroxide Sintered Ceramics R.V.Levkov, S.N. Kulkov
9.	Micro-mechanical modeling of mechanical and electrical properties in homogenous piezoelectric ceramic by using boundary integral formulations Mojtaba Biglar, Feliks Stachowicz, Tomasz Trzepiecinski and Magdalena Gromada
10.	Transport Properties of Aliovalent Substitution Solid Solutions of the System (1-x)PbF₂-xYF₃-SnF₂ Vasily Lutsky, Yuliya Pogorenko, Roman Pshenychnyi, Anatoliy Omel'chuk
11.	Effects of post-discharge nitriding on structural and corrosion properties of 4140 low-alloy steel A. Medina, L. Béjar, C. Aguilar, M. Contreras
12.	A Study On The Development And Characterization of Antiviral Nanoparticles With Albumin M. V. Basaveswara Rao, S.S.Manikiran, N. Rama Rao, K.R.S.Sambasiva Rao,
13.	Calculation of the effective properties of composites with a transition layer Maria A. Anisimova, Igor Sevostianov, Anna G. Knyazeva
14.	Development of Dynamic Spallation Test for Oxide Scale with Fast Hard Ball Collision-Influences of Collision Material for Spallation of Oxide Scale Kazuki Takahashi, Ryo Ishikawa, Ken Yamashita, Makoto Nanko
15.	Mechanical properties of nonwoven geopolymer composites David Riegert, Jaroslav Kadlec, Michal Pola
16.	The influence of metakaolin substitution by blast-furnace slag in alkali-activated inorganic binders Jaroslav Kadlec, David Rieger, Tomáš Kovářík, Pavel Novotný, Petr Franče, Michal Pola

ic-cmtp4 CONFERENCE DETAILED PROGRAM – October 5. Wednesday

17.	Shear superplasticity behavior and microstructure evolution in MDFed fine-grained Sn-1Bi alloy Akbaripanah F., Moradi Y
18.	Researches of mechanical behavior of the bone microvolumes and porous ceramics under uniaxial compression Tatyana Kolmakova, Svetlana Buyakova, Sergey Kulkov

HUNYADI JANOS HALL

ORAL PRESENTATIONS

SESSION 16:

Testing and Characterization of Materials and Methods, Equipment and Errors, SESSION 11: Nanomaterials for Environment and Health

Chair: Dr. Uwe BECK,

BAM Federal Institute for Materials Research and Testing (Germany)

11:10 - 11:30	On specifics of rheological measurements for heavy highly-viscous oil Larissa Strelets
11:30 - 11:50	Efficiency Of Surface Treatments Between Dies And Forging Steels By Measuring Coefficient Of Friction Kazuya Horie, Yasuyuki Kawamoto, Makoto Nanko, Yoshihiro Kuwabara and Satoru Nishiwaki
11:50 - 12:10	Method development and validation for the quantitative application of mid-range infrared spectroscopy in GLP environment János Elek, Angéla Simon, János Török, Angéla Csontos, Csaba Ballai
12:10 - 12:30	Investigation of thermal properties of raw materials of asphalt mixtures Róbert Géber, Andrea Simon, István Kocserha
12:30 - 12:50	Characterization and Synthesis of Silica Nanoparticles-Crosslinked Hydrogels with Decorations of Aminopropyl Silane David Alfonso Patiño Ruiz, Adriana Patricia Herrera Barros, aria Teresa Acevedo Morantes
12:50 - 13:10	A Study On The Development And Evaluation Of Ritonavir - Albumin Nanospheres M.V. Basaveswara Rao, S.S.Manikiran, N.Rama Rao, K.R.S.Sambasiva Rao, N.L Prasanthi

13:00 - 14:00

LUNCH

14:00-19:00

SOCIAL PROGRAM II. and Free Program

BEATRIX HALL**ORAL PRESENTATIONS****SESSION 17: Mechanical Properties and Processing Technology of Advanced Materials****Chair: Prof. Dr. Shigeru NAGASAWA,
Nagaoka University of Technology (Japan)**

11:10 - 11:30	Laser Cutting of a Thick Glass Plate Yukio Miyashita, Yohei Kurabe, Kazuki Shibasaki and Yuichi Otsuka
11:30 - 11:50	Synthesis and characterization of Zirconia-Ytria nanoparticles in t' phase by sol-gel and spray drying. M.E. Contreras-García , G. M. Rodríguez-Torres, J. Zarate-Medina , J.C. Rubio- Ávalos
11:50 - 12:10	Analysis and prevention of liquid metal embrittlement occurring in resistance-spot-welded TWIP steel sheets Hyungsoo Lee, Seok Su Sohn, Sang-Heon Kim, Taejin Song, Nack J. Kim and Sunghak Lee
12:10 - 12:30	The Exchanges of Metal/Carbon Nanocomposites Electron Structures and Properties due to the p – Elements Intercalation V.I. Kodolov, I.N. Shabanova, V.V. Trineeva, A.A. Kopilova, R.V. Mustakimov, S.A. Pigalev and N.S. Terebova
12:30 - 12:50	Consolidation by Spark Plasma Sintering of PolyEtherEtherKetone J.-C. Sébilleau, S. Lemonnier, E. Barraud, M.-F. Vallat, A. Carradò, M. Nardin
12:50 - 13:10	Wedge cutting characteristics of copper foil stacked on adhesive tape Shigeru Nagasawa, Weerayut Jina, Susumu Hayashihara

13:00 - 14:00**LUNCH****14:00-19:00****SOCIAL PROGRAM II. and Free Program**

RENEZANSZ HALL

ORAL PRESENTATIONS

**SESSION 9: Membranes and Catalysts and
, SESSION 12: Novel Synthesis and Processing Technology and
SESSION 14: Polymer Derived Ceramics
Chair: Prof. Dr. Sergey KULKOV,
Tomsk State University (Russia)**

11:10 - 11:30	Design of nanocomposite active components and structured catalysts for steam/autothermal reforming of biofuels S. Pavlova, M. Arapova, V. Sadykov, T. Larina, V. Rogov, T. Krieger, T. Glazneva, K. Parkhomenko, A.-C. Roger, O. Smorygo
11:30 - 11:50	High Capacity MnOxZrO2 sorbent for elementary mercury capture: preparation, characterisation and comparison to other sorbents J Lakatos, C E Snape
11:50 - 12:10	Influence of Processing Time and Concentration in phosphoric acid treatment of Zinc Oxide Hiroaki Onoda, Yurie Sato
12:10 - 12:30	Effect of laser power and laser fluence on the size of TiO2 nanoparticles synthesized by pulsed laser ablation in deionized water Amandeep Singh, Jorma Vihinen, Erkka Frankberg, Leo Hyvärinen, Mari Honkanen, Erkki Levänen
12:30 - 12:50	Investigation on Interlaminar Strength of Thru Thickness Basalt Fiber Reinforced SiOC-Composites Patrick Weichand

13:00 - 14:00

LUNCH

14:00-19:00

SOCIAL PROGRAM II. and Free Program

ic-cmtp4 CONFERENCE DETAILED PROGRAM – October 6. Thursday

October 6. Thursday	HUNYADI JÁNOS HALL	BEATRIX HALL	RENEZSZANSZ HALL
8:30 – 10:40	PLENARY AND KEYNOTE V.		
10:40 – 11:00	Coffee Break		
11:00 – 13:00	SESSION 15.	SESSION 3.	is-icmb2 SESSION 6. SESSION 3.
13:00 – 14:00	LUNCH		
14:00 – 15:10	PLENARY AND KEYNOTE VI.		
15:10 – 16:20	SHORT ORALS I.		
16:20 – 17:00	POSTERS III. and Coffee Break		
17:00 – 19:00	SESSION 1.	SESSION 15. is-icm2	is-ism1 SESSION 7.
19:30	ic-cmtp4 CONFERENCE DINNER		

HUNYADI JANOS HALL

PLENARY AND KEYNOTE LECTURES V.

Chair: Prof. Dr. Jean-Claude **TEDENAC**,
University Montpellier 2 (**France**) and ITMO University (**Russia**)

8:30 - 8:50	Synthesis of [001]-Oriented PbTiO₃ Platelets by Topochemical Microcrystal Conversion Method using PbBi₄Ti₄O₁₅ Precursor Su-jin Park, Tae-gon Lee, Ho-jun Lee, Seong-hoon Jo, Sahn Nahm
8:50 - 9:30	Neutron Spectroscopy for Advanced Materials Characterisation and Development: A suite of high end tools for sophisticated analysis Dr. Anton P.J. STAMPFL , Australian Nuclear Scy. and Techn. Org, (Australia)
9:30 - 10:10	Concentration fields of the phase diagrams for the materials genome decoding Prof. Dr. Vasily LUTSYK , Institute of Physical Materials Science, SB RAS, (Russia)
10:10 - 10:40	Structure and function tuning of nanostructured oxides for advanced energy and environmental photocatalyst Prof. Dr. Tohru SEKINO , Tomoyo Goto, Sung Hun Cho and Soo Wahn Lee, Osaka University (Japan)

10:40 - 11:00

COFFEE BREAK

ic-cmtp4 CONFERENCE DETAILED PROGRAM – October 6. Thursday

HUNYADI JANOS HALL

ORALS PRESENTATIONS

SESSION 15: Processing, Properties and Applications of Ceramics

Chair: Dr. Nikolas TESSIER-DOYEN,
ENSCI-Université de Limoges(France)

11:00 - 11:20	Electrical Discharge Machining (EDM) of High Performance Ceramics Materials and Process Development for Wear Resistant Precision Tools with High Geometrical Complexity Rainer Gadow
11:20 - 11:40	[001]-Textured Pb(Zr_{1-x}Tix)O₃-Pb[(Zn_{1-y}Niy)_{1/3}Nb_{2/3}]O₃ Ceramics for Multilayer Actuators Tae-Gon Lee, Ho-Jun Lee, Dae-Hyeon Kim, Su-jin Park, Jong-Seong Park and Sahn Nahm
11:40 - 12:00	Cu-doped nanostructured ZnO coatings: Effect of Cu-doping on band gap energy and photocatalytic activity Saara Heinonen, Juha-Pekka Nikkanen, Leo Hyvärinen and Erkki Levänen
12:00 - 12:20	Low loss and Large Electrostrain in CuO-added (1-x)KNbO₃-xBaZrO₃ Lead-free Piezoelectric Ceramics Jongseong Park, Dae-Hyeon Kim, Tae-Gon Lee, Sung-Hoon Jo and Sahn Nahm
12:20 - 12:40	Evolution of A.C. conductivity of WET illitic clay during drying Štefan Csáki, Igor Štubňa, Viera Trnovcová, Ján Ondruška, Libor Vozár, Patrik Dobroň
12:40 - 13:00	Influence of the granulation processing on the compaction behavior and properties of alumina granules Nicolas Tessier-Doyen, Philippe Michaud, Pierre-Marie Geffroy and Cécile Pagnoux

13:00 - 14:00

LUNCH

HUNYADI JANOS HALL

PIENARY AND KEYNOTE LECTURES VI and Short Orals I.

Chair: Prof. Dr. Tohru SEKINO,
Osaka University(Japan)

14:00 - 14:40	Conventional Brick Clay "LENTI" a Challenge in Materials Science Prof. Dr. László A. GÖMZE, Ludmila N. Gömze, Tibor Bokányi, György Benedek, Dirk Vandermaelen and Hartmut Brem, University of Miskolc (Hungary)
14:40 - 15:10	Diversity Oriented Syntetic Strategies for the New Molecules Prof. Dr. Mandava V. Basaveswara RAO, Krishna University (India)

HUNYADI JANOS HALL	
SHORT ORALS I.	
Chair: Prof. Dr. Tohru SEKINO, Osaka University (Japan)	
15:10 - 15:15	The Influence of surface roughness on the biocompatibility and fatigue life of the titanium based materials Stepan Major, Pavel Cyrus and Marie Hubalovska
15:15 - 15:20	Modeling of carbon-carbon composites joining using solid-phase syntesis Kamila Aligozhina, Anna Knyazeva
15:20 - 15:25	Effect of mechanical treatment on properties of natural zeolites Aleksandr Buzimov, Sergey Kulkov, László A Gömze, István Kocserha and Róbert Géber
15:25 - 15:30	Multilayer Structures of Nano Ferrocene/Schiff Base Compound Embedded in Inorganic Matrix for Optical Limiting Devices I.C. Vasiliu, I. Ionita, A. Matei, M.Elisa, R. Iordanescu, A. Emandi
15:30 - 15:35	Studying the Process of Synthesis of Carbon Nanomaterials onto a Cement Binder Yury Tolchkov, Tatiana Panina, Zoya Mikhaleva, Alexey Tkachev
15:35 - 15:40	A hybrid surface modification method of copper mesh for enhancing thermal performance of ultra-thin heat pipes Wei-Kong Sheng, Hsin-Ting Lin, Chun-Hui Wu and Ping-Hei Chen
15:40 - 15:45	Porous Composite Materials ZrO₂(MgO)-MgO For Osteoimplantology A.S. Buyakov, S.N. Kulkov
15:45 - 15:50	Bromide photo-thermo-refractive glasses Victor Dubrovin, Alexander Ignatiev and Nikolay Nikonorov
15:50 - 15:55	Self-Healing of SiC/Y₂SiO₅ Hybrid Composites via Thermal Oxidation Huy Dinh Vu, Makoto Nanko
15:55 - 16:00	Inorganic composites with two phosphors in glass for higher lightening properties for white LEDs J.V. Tuzova, V.A. Aseev, Y.K. Fedorov, N.V. Nikonorov, A. I. Novogran
16:00 - 16:05	Structure and Mechanical Properties of Hot Pressed Hetero-Modulus Composites ‘Alumina-Zirconia - Titanium Carbide’ Grigoriev M.V., Kotelnikov N.L., Buyakova S.P., Kul’kov S.N
16:05 - 16:10	Studying The Modification of Construction Composites with Carbon Nanomaterials Tatiana Panina, Yury Tolshckow, Zoya Mikhaleva, Alexey Tkachev
16:10 - 16:15	omposites of aluminium alloy and magnesium alloy with graphite showing low thermal expansion and high specific thermal conductivity Valerio Oddone

16:20 - 17:00

POSTER SESSION III. and COFFEE BREAK

HUNYADI JANOS HALL

POSTER SESSION III.

Chair: Prof. Dr. Olga **KOTOVA**,
Institute of Geology Komi SC UB RAS (Russia)

1	Repeatability of Crack Healing on 5 vol% Ni/ Al₂O₃ Nanocomposites Akinori Dake and Makoto Nanko
2	Development and characterization of textile batteries Andrea Ehrmann, Marina Normann, Thomas Grethe, Anne Schwarz-Pfeiffer
3	Micromagnetic investigation of low-symmetry 3D particles Andrea Ehrmann, Tomasz Blachowicz
4	Synthesis of Fluozirconate Glass ZBNL with Partial or Complete Substitution of Samarium, Europium and Ytterbium Difluorides for Barium (Lanthanum) Fluorides Vasily Lutsyk, Alexander Ivanenko, Nataliya Kompanichenko, Anatoliy Omelchuk
5	Evaluation of the shrinkage and creep of medium strength self compacting concrete Claudia Jenny De La Cruz, Gonzalo Ramos and Wilson Alexander Hurtado
6	Computer Models of Bounding T-x-y Diagrams for Ceramic System TiO₂-ZrO₂-SiO₂-Al₂O₃ Vasily Lutsyk, Anna Zelenaya
7	Synthesis for Pr³⁺ doped CaTiO₃ Spherical Particle using Water-Soluble Ti Complex Tomomi Kosaka, Miho Mizunuma and Yuji Tanaka

HUNYADI JANOS HALL

ORALS PRESENTATIONS

**SESSION 1: Advanced Materials for Bio- and Medical Applications and
SESSION 11: Nanomaterials for Environment and Health**

**Chair: Prof. Dr. Erwan Rauwel,
Tallinn University of Technology(Estonia)**

17:00 - 17:20	Piezoresistive Carbon-based Hybrid Sensor for Body-Mounted Biomedical Applications Mark Melnykowycz, Michael Tschudin, and Frank Clemens
17:20 - 17:40	45S5 Bioglass porous scaffolds functionalized with Vitamin D and Collagen. M.E. Abad-Javier, M. Cajero-Juárez and M.E. Contreras-García
17:40 - 18:00	Surface treatment and corrosion behavior of austenitic stainless steel biomaterial Monika Oravcová, Peter Palček, Viera Zatkalíková, Tomasz Tański, Mariusz Król
18:00 - 18:20	Free radical oxidation approach to creation of stable protein coatings on magnetic nanoparticles for biomedical applications Anna V. Bychkova, Alexandra P. Chikunova, Tatiana A. Danilova, Pavel G. Pronkin, Vyacheslav M. Misin and Mark A. Rosenfeld
18:20 - 18:40	Stable metal nanoparticles study for biomedical and green houses applications Erwan Rauwel, Siim Küünal, Protima Rauwel, Lorena Gracia, Mithu Guha and David Wragg
18:40 - 19:00	Synthesis and crystallization of titanium dioxide in supercritical carbon dioxide Aaretti Kaleva, Saara Heinonen, Juha-Pekka Nikkanen, Erkki Levänen

20:00 -

ic-cmtp4 CONFERENCE DINNER

ic-cmtp4 CONFERENCE DETAILED PROGRAM – October 6. Thursday

BEATRIX HALL

ORAL PRESENTATIONS

SESSION 3: Advanced Nanomaterials with Predesigned Properties

Chair: Dr. Vilma BURSIKOVÁ,
Masaryk University (Czech Republic)

11:00 - 11:20	Fractal nature structure method in designing micro/nano-structure properties V V Mitić, Lj Kocić, V Paunović
11:20 - 11:40	Inorganic, organic and hybrid aerogels: the synthesis and properties Sergey A. Lermontov, Nataliya A. Sipyagina, Alena N. Malkova, Elena A. Straumal, Alexander Ye. Baranchikov and Vladimir K. Ivanov
11:40 - 12:00	Ytterbium-Erbium Doped Lead-Fluoride Nano-Glassceramics for Temperature Sensors V. A. Aseev, E.V. Kolobkova, J. V. Tuzova, K. S. Moskaleva, N.V. Nikonorov
12:00 - 12:20	The size and shape of particles and magnetic properties of composite films Leonid Kotov, Mikhail Lasek, Mikhail Dianov, Dmitri Bogachuk, Eugene Golubev, Yuri Kalinin, Aleksandr Sitnikov
12:20 - 12:40	Titania-Ceria Surfactant Assisted Sol-Gel Synthesis and Characterisation M. E. Contreras-García, M. Cajero-Juárez, A. Torres-Romero
12:40 - 13:00	Comparative Studies on Mechanical Properties and Microstructure of Boroncarbide Based Nanolaminate Coatings Vilma Buršíková, Jiří Buršík, Lukáš Zábranský, Pavel Souček, Saeed Mirzaei and Petr Vašina

13:00 - 14:00

LUNCH

BEATRIX HALL

ORAL PRESENTATIONS

is-icm2 - The 2nd International Symposium on Innovative Construction Materials

Chair: Prof. Dr. Daman PANESAR,
The University of Toronto (Canada)

17:00 - 17:20	Admixture Compatibility of Alternative Supplementary Cementitious Materials Ehsan Ghafari, Dimitri Feys
17:20 - 17:40	Development of spraying agent for reducing drying shrinkage of mortar Hiromi Fujiwara, Masanori Maruoka and Lingling Liu
17:40 - 18:00	Application of carbon FRP for fatigue strengthening of old steel structures Jan Vůjtěch, Pavel Ryjáček and Martin Vovesný
18:00 - 18:20	Ultra Lightweight Cement Composites for energy efficient buildings Min-Hong Zhang and Yunpeng Wu
18:20 - 18:40	The machining properties of electrical discharge machined surface of insulating material with added ultra sonic phenomena Yasushi Fukuzawa, Daiki Hanaoka, Shigeru Nagasawa
18:40 - 19:00	Self Consolidating Concrete: Consequences of Delayed Ettringite Formation and Freeze-Thaw Resistance on Concrete Properties and Performance Daman Panesar

20:00 -

ic-cmtp4 CONFERENCE DINNER

ic-cmtp4 CONFERENCE DETAILED PROGRAM – October 6. Thursday

RENEZANSZ HALL

ORAL PRESENTATIONS

is-icbm2 - **The 2nd International Symposium on Innovative Carbon and Carbon Based Materials,**
SESSION 6: Hetero-Modulus and Hybrid Materials and
SESSION 3: Advanced Nanomaterials with Predesigned Properties
Chair: Prof. Dr. Joachim **BOLLMANN,**
TU Bergakademie Freiberga (**Germany**)

11:00 - 11:20	3D Computer Model of Ti-C-V T-x-y Diagrams with Three-Phase Reaction Type Changing Vasily Lutsyk
11:20 - 11:40	Preparation of SiC-MgAl₂O₄-Y₃Al₅O₁₂-MWCNTs nanocomposites by spark plasma sintering Evgeny V. Zharikov, Vitaly V. Kapustin, Pavel P. Faikov, Alexander A. Barmin, Andrei V. Ivanov, Razhudin N. Rizakhanov
11:40 - 12:00	Raman spectroscopy in the ternary layered phases of Ti-Si-C system: from first principles to experiment Urszula Wdowik, Agnieszka Twardowska
12:00 - 12:20	Investigations on new carbon-based nanohybrids combining carbon nanotubes and metal oxide nanoparticles Protima Rauwel, Augustinas Galeckas, Martin Salumaa, Frédérique Ducroquet and Erwan Rauwel
12:20 - 12:40	Interesting behaviour of polymers contained multiwall carbon nanotubes Andrea Adamne Major
12:40 - 13:00	How Mesoscopic Physics Explains the Super small Quantities Action of Metal/Carbon Nanocomposites in Different Liquid Media V.V. Trineeva, V.I. Kodolov

13:00 - 14:00

LUNCH

ic-cmtp4 CONFERENCE DETAILED PROGRAM – October 6. Thursday

RENEZANSZ HALL

ORAL PRESENTATIONS

**is-ism1: The 1st International Symposium on Intelligent and Smart Materials
and**

SESSION 7: Light-Weight Metals and Alloys

**Chair: Prof. Dr. Rakchart TRAIIPHOL,
Mahidol University (Thailand)**

17:00 - 17:20	Self-Recovering Section of RPV Steel Radiation Embrittlement Kinetics as Indication of Material Smart Behavior Evgenii Krasikov
17:20 - 17:40	Importance of surface charge on solid-liquid interfaces in nano/microfluidic channels for membrane, sensor and energy conversion applications Pál Árki, Frederich Güth, Christine Hecker and Yvonne Joseph
17:40 - 18:00	Control over the photophysical properties of conjugated polymer nanoparticles: The effects of solvent and molecular weight Rakchart Traiphol, Ruttayapon Potai, Anothai Kamphan
18:00 - 18:20	One-step consolidation and precipitation hardening of nanostructured AA7020 powder by Spark Plasma Sintering Hippolyte Queudet, Julien Guyon, Jaafar Ghanbaja, Sébastien Lemonnier, Elodie Barraud, Nathalie Allain and Eric Gaffet
18:20 - 18:40	Development and optimisation by Spark Plasma Sintering (SPS) of the AZ91 magnesium alloy from a metastable as-atomised powder Mathieu Mondet, Elodie Barraud, Sébastien Lemonnier, Nathalie Allain and Thierry Grosdidier

20:00 -

ic-cmtp4 CONFERENCE DINNER

ic-cmtp4 CONFERENCE DETAILED PROGRAM – October 7. Friday

October 7. Friday	HUNYADI JÁNOS HALL	BEATRIX HALL	RENEZANSZ HALL
8:30 – 9:30	PLENARY AND KEYNOTE VI.		
9:30-10:30	is-icm2		
10:30-11:00	POSTERS SESSION IV. and Coffee Break		
11:00 – 12:45	SHORT ORALS II.		
12:45	CONFERENCE CLOSING		

HUNYADI JANOS HALL	
<p>PLENARY AND KEYNOTE LECTURES VI and is-icm2: The 2nd International Symposium on Innovative Construction Materials Chair: Prof. Dr. Tomasz SADOWSKI, Lublin University of Technology(Poland)</p>	
8:30 - 9:10	<p>Rheological principles of development hetero-modulus and hetero-viscous complex materials with extreme dynamic strength Prof. Dr. László A. GÖMZE and Ludmila N. Gömze, IGREX Engineering Service Ltd. (Hungary)</p>
9:10 - 9:30	<p>A non-contact optical measurement technology based on digital image correlation (DIC) Vladimir VESELKOV and Petr Gajdos, Brno University of Trchnology (Czech Republic)</p>
9:30 - 9:50	<p>Multi-functional building coating materials: An emerging approach to mitigate air pollution and reduce carbon footprint Liya E. Yu, Padmaja Krishnan, Min Hong Zhang</p>
9:50 - 10:10	<p>Numerical methods for estimating J-integral in models with regular rectangular meshes Bartosz Kozłowiec</p>
10:10 - 10:30	<p>Optimization of activator solution and heat treatment of ground lignite type fly ash geopolymers Zoltán Molnár, Roland Szabó, Ádám Rácz, János Lakatos, Ákos Debreczeni and Gábor Mucsi</p>

10:30 - 11:00

POSTER SESSION IV. and COFFEE BREAK

HUNYADI JANOS HALL

POSTER SESSION IV.

Chair: Prof. Dr. Sergey **KULKOV**,
Institute of Strength Physics and Material Sciences RAS (**Russia**)

1.	Bioactive glass ceramics from natural calcium phosphates A. Dobrádi, M. Enisz-Bódogh, K. Kovács
2.	Comparative Analysis of Inorganic Polymers Obtained by Raw Materials with Different Properties Adrienn Boros, Tamás Korim, Ida Balczár
3.	Manufacture of Industrial Waste Based Alkali Activated Cement Using Mechanochemical Activation Ida Balczár, Tamás Korim, Éva Makó
4.	Synthesis of kaolinite methanol intercalation complexes using cost-efficient homogenization and solvothermal methods András Kovács, Éva Makó
5.	Dual-responsive cross-linked prodrug nanogels by a click chemistry for triggered drug delivery system Yong Hun Kim, Uk Hyun Ban and Kwon Taek Lim
6.	Involving ceramics materials' fractal parameters into Curie-Weiss law V V Mitić, Lj Kocić, V Paunović
7	Development hightech ceramic composites based on Al₂O₃, SiO₂ and IG-017 additive Emese Kurovics, László A. Gömze, Sergei N. Kulkov

HUNYADI JANOS HALL

SHORT ORALS II.

Chair: Prof. Dr. Nikolay **NIKONOROV**,
ITMO University (**Russia**)

11:00 - 11:05	A study on the improvement of the strength of weld part by core pin drive injection molding method Yoshio Fukushima, Takashi Suda, Tetsushi Kaburagi, Atsushi Motegi, Tomohiro Hishida, Yasuhiko Murata
11:05 - 11:10	Establishment of identification method of the oxide scale spallation on collision test using a hard steel shot Ken Yamashita, Ryo Ishikawa, Kazuki Takahashi, Satoshi Oshima and Makoto Nanko
11:10 - 11:15	Changing Physical and Technological Properties of Difficult Land Reclamation Soils Under Licorice Kurvantaev R., Karimov A., Dadamuhamedova M.R.
11:15 - 11:20	The Study on Intermetallics Formation During Sintering of Al with ZrW₂O₈ V.S. Shadrin, S.N. Kulkov
11:20 - 11:25	Polymer Melt Viscosity Measuring by an Injection Machine GergelyTóth, Tamás Dugár
11:25 - 11:30	Numerical simulation of sintering the Ti powder layer taking into account properties change due to electron beam treatment Svetlana N. Sorokova and Anna G. Knyazeva

ic-cmtp4 CONFERENCE DETAILED PROGRAM – October 7. Friday

11:30 - 11:35	Ferrite-austenite duplex steel with 1.5 GPa strength and 50% ductility by transformation-induced plasticity of non-recrystallized austenite Seok Su Sohn, Hyejin Song, Min Chul Jo, Taejin Song, Hyoung Seop Kim, Sunghak Lee
11:35 - 11:40	Designing a New Mixed ZrO₂-Al₂O₃ Oxide Catalysts for Low Temperature Dehydration of Bio-ethanol Sofia Chuklina, Svetlana Maslenskova, Anna Pylinina, Ljudmila Podzorova, Alla Ily'icheva
11:40 - 11:45	Removal mechanism of arsenic by hydration of calcium aluminoferrite Kouhei Hano, Takeshi Toyama, Masaya Hirano
11:45 - 11:50	Preparation of silica microsphere particles by spray-drying method Toshiyuki Tanaka, Nobuyuki Nishimiya and Takeshi Toyama
11:50 - 11:55	Preparation of pierced hollow calcium carbonate particles by addition of seed crystals Takato Sekine, Takeshi Toyama and Hiroichi Tanaka
11:55 - 12:00	The composite reinforcement production in digital manufacturing: experimental validation of the heat transfer and cure modeling results Andrey Kutin, Ilya Kazakov, Aleksandr Krasnovskii
12:00 - 12:05	Research of Products of High Temperature Synthesis and Their Use for Initiation of Reaction with the High Power George Ksandopulo, Anna Baideldinova, Yuri Riabikin, Lyudmila Mukhina, Elena Ponomareva, Natalia Vasilieva
12:05 - 12:10	Influence of binding composition on the structure and properties of steel work-pieces obtained by injection molding Elena A. Darenskaia, Olga Yu. Vaulina, Yurii V. Myachin and Sergei N. Kulkov
12:10 - 12:15	Investigation of austenitic stainless steel properties obtained with the use of PIM-technologies Yuriy Myachin, Olga Vaulina, Elena Darenskaya, Svetlana Buyakova, Igor Turuntaev, Sergey Kulkov
12:15 - 12:20	Certification of specifications for PIM-product powder compositions (after mechanical activation) Inessa E. Vasilyeva, Olga Yu. Vaulina, Elena A. Darenskaia, Yurii V. Myachin, Sergei N. Kulkov
12:20 - 12:25	Influence of mechanical activation in powder composition 03X17H12B on product properties Olga Yu. Vaulina, Elena A. Darenskaia, Yurii V. Myachin, Inessa E. Vasilyeva, Sergei N. Kulkov
12:25 - 12:30	COMPOSITE BOROSILICATE - CONTAINERS FOR STORAGE OF RADIOACTIVE WASTE Mailybi K. Aldabergenov, Gulshat T. Balakaeva, Kairat Kenges Al-Farabi
12:30 - 12:35	Study of Zn₁-XMg_xO materials for UV diode laser application Abdallah Ouerdane
12:35 - 12:40	Plastic deformation effect of the corrosion resistance in case of austenitic stainless steel Tünde Kovács, Ferenc Haraszti

CONFERENCE CLOSING

Prof. Dr. Shigeru **NAGASAWA** (Japan), Prof. Dr. Sergei **KULKOV** (Russia) and
Prof. Dr. László A. **GÖMZE** (Hungary)

See you again in the **ic-cmtp5** in October 8-12, 2018