

The Twelfth Conference for Young Scientists in Ceramics

Call for Abstracts



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Young Ceramic Researcher Network



Faculty of Technology, University of Novi Sad

October 18-21, 2017.
Novi Sad, Serbia

Scope of the Meeting

The main goals of this traditional Meeting are the promotion of the work by young researchers and closer international contacts among students from different universities and institutes, through exchange of knowledge, ideas and experiences in the field of ceramics. The main authors of all presented papers will be students (primarily focused on masters, Ph.D. and young postdoctoral students but there is no limitation on categories and age of the participants).

International Scientific Committee

<i>Carmen Baudin</i>	Instituto de Cerámica y Vidrio-CSIC, Madrid, Spain
<i>Francis Cambier</i>	Belgian Ceramic Research Center, Mons Belgium
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<i>Karel Maca</i>	Brno University of Technology, Czech Republic
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<i>Marija Milanović</i>	University of Novi Sad, Serbia
<i>Liliana Mitoseriu</i>	University A "I.I. Cusa", Romania
<i>Rodrigo Moreno</i>	Instituto de Cerámica y Vidrio-CSIC, Madrid, Spain
<i>Zbigniew Pedzich</i>	AGH - University of Science and Technology, Krakow, Poland
<i>Mitar Perusic</i>	University of East Sarajevo, Bosnia & Herzegovina
<i>Lucian Pintilie</i>	National Institute of Materials Physics, Bucharest, Romania
<i>Pavol Šajgalik</i>	Institute of Inorganic Chemistry Academy of Sciences, Slovakia
<i>Alexandro Simoes</i>	Universidade Estadual Paulista UNESP, Brazil
<i>Vladimir V. Srdić</i>	University of Novi Sad, Serbia
<i>Biljana Stojanović</i>	University of Belgrade, Serbia
<i>Paula Vilarinho</i>	University of Aveiro, Portugal
<i>Markus Winterer</i>	University of Duisburg-Essen, Germany
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<i>Jelena Vukmirović</i>	University of Novi Sad, Serbia

Secretary

Ivan Stijepović

Dept. Materials Engineering, Faculty of Technology, University of Novi Sad

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General Information

Location

- ◆ Novi Sad - Vojvodina - Serbia

Deadlines

- ◆ May 10, 2017. Submission of Abstract

Topics

- ◆ Advanced ceramics
- ◆ Traditional ceramics
- ◆ Ceramics composites

Presentation

- ◆ All presentations will be oral
- ◆ Papers should be presented by students
- ◆ Beside experimental, results and discussion, presentation should consists of theoretical background, as well as good introduction to the specific subject
- ◆ Authors are provided with 15 minutes for presentation of results and discussion

Invited talks

- ◆ Well recognized experts are invited to give lectures/tutorials in different topics on synthesis, processing, characterization and application of ceramics materials

Language

- ◆ The official language of the Meeting is English

Abstract

- ◆ Title: short, informative, centered (Times New Roman 14, Bold)
- ◆ Authors: first name, last name (Times New Roman 14)
- ◆ Addresses of all authors (Times New Roman 12)
- ◆ Abstract (maximum one A4 page) should be typed in Times New Roman font with a font size of 12 pts. Top, bottom, left and right margins should be 3.5 cm.

Publications

- ◆ Programme and Book of Abstract
- ◆ Full papers will be published (after positive recension) in journal - *Processing and Application of Ceramics* <http://www.tf.uns.ac.rs/publikacije/PAC>

Conference Fee

- ◆ **No Conference fee**

Registration

- ◆ On-line registration form is available on our web-site:
<http://www.tf.uns.ac.rs/sm>

Accommodation

- ◆ Student accommodation (limited number of rooms, please reserve them in advance – contact person Ivan Stijepovic sm@tf.uns.ac.rs)
- ◆ Hotels (list is available on our web-site).

The 12th Conference for Young Scientists in Ceramics

Oral Presentations

Preliminary List of Participants (10th April, 2017)

Advanced Ceramics

1. D. Haidu, D. Párkányi, R.I. Moldovan, D. Antal, C. Savii, L. Kurunczi
Institute of Chemistry Timișoara of the Romanian Academy, Timișoara, Romania
NAA, a valuable analytic method for elemental characterization for medicinal crop plants
2. D. Nicheva^{1,2}, V. Boev¹, B. Abrashev¹, P. Petkov², T. Petkova¹
¹*Institute of Electrochemistry and Energy Systems, BAS, Acad. Sofia, Bulgaria*
²*University of Chemical Technology and Metallurgy, Sofia, Bulgaria*
Effect of the synthesis method on the catalytic activity of NiCo₂O₄
3. A. Sarkar^{1,3}, R. Djenadic^{2,3}, H. Hahn^{2,3}
¹*Institute of Nanotechnology, Karlsruhe Institute of Technology, Leopoldshafen, Germany*
²*Helmholtz Institute Ulm, Germany.*
³*Joint Research Laboratory Nanomaterials – Technische Universität Darmstadt & Karlsruhe Institute of Technology, Darmstadt, Germany*
Multicomponent equiatomic rare earth oxides
4. V. Nečina¹, T. Uhlířová¹, P. Diblíková², W. Pabst¹
¹*Department of Glass and Ceramics, University of Chemistry and Technology, Prague, Czech Republic*
²*Department of Organic Technology, University of Chemistry and Technology, Prague, Czech Republic*
Preparation of spinel ceramics by electric-current assisted sintering (ECAS) with special regard to carbon contamination and its characterization
5. V.K. Veerapandiyan¹, V. Buscaglia², S.C. Tidrow³, M. Deluca¹
¹*Materials Center Leoben Forschung GmbH, Leoben, Austria*
²*CNR-ICMATE, Genova, Italy*
³*Kazuo Inamori School of Engineering, Alfred University, USA*
Compositional tuning of B-site barium titanate solid solutions
6. A. Simoes, N. Azana, P. Shieh, T. Mazon
Center for Information Technology Renato Archer (CTI), Campinas, SP, Brazil
Study of triboelectric devices based on ZnO nanorods and PDMS:GO composites for energy harvesting application
7. I. Lewandowska, A. Mielewczyk-Gryń
Department of Solid State Physics, Faculty of Applied Physics and Mathematics, Gdańsk

University of Technology, Gdańsk, Poland

Influence of cationic ordering on (Ln,Ba)Co₃ perovskite properties

8. J Zaffran, M.C. Torker
Technion of Haifa, Israel
Designing efficient catalysts for solar water splitting: Metallic doping of NiOOH material
9. L. Navarro López, P. Carpio, A. Borrell, V. Carnicer, E. Sanchez, R. Moreno, M. D. Salvador
Materials Technological Institute - Polytechnic University of Valencia, Valencia, Spain
Self-sealing mechanisms for thermal barrier coatings
10. T. Mutuk, S. Avcioglu, S. Cevik, M. Gurbuz
Ondokuz Mayıs University, Faculty of Engineering, Department of Materials Science and Engineering, Samsun. Turkey
Effects of sintering temperature and soaking time on formation of lanthanum molybdate
11. M. Parfenova, V.I. Lutsyk, A.E. Zelenaya, E.S. Bimbaev
Institute of Physical Materials Science, Siberian Branch of the Russian Academy of Sciences, Ulan-Ude, Russian Federation
3D Computer Model and Crystallization Paths for System FeO-SiO₂-Fe₂O₃
12. K. Król-Morkisz, K. Pielichowska
AGH University of Science and Technology, Cracow, Poland
Hydroxyapatite-based thermal stabilizers for acetal resins
13. S. Ivanchenko, S. O. Umerova, D. I. Baranovsky, A. V. Ragulya
Institute for Problems in Materials Science NASU, Kyiv, Ukraine
Obtaining BaTiO₃ ceramics tapes with thickness less than 500 nm by tape casting method from previously cooled suspension
14. K. Kornaus, A. Gubernat, K. Wojciechowski, R. Lach
AGH University of Science and Technology, Faculty of Materials Science and Ceramics, Cracow, Poland
Synthesis of tialite activated and stabilized by various oxides
15. N. Ilic¹, R.C. Amoresi², S.M. Zanetti², V. Spasojevic³, G. Ferreira Teixeira², J. Bobic¹, M.A. Zaghete², B. Stojanovic¹
¹*Institute for Multidisciplinary Research, Belgrade, Serbia*
²*Chemistry Institute of Araraquara - UNESP, Araraquara, SP, Brazil*
³*Institute of Nuclear Sciences "Vinča", Belgrade, Serbia*
BiFeO₃ thin films: influence of doping on structure and properties
16. P. Svera, C. Ianasi, O. Verdes, M. Suba, A. Andelescu, D. Ursu, M. Miclău
¹*National Institute for Research and Development in Electrochemistry and Condensed Matter, Timisoara, Timis, Romania*
²*University Politehnica Timisoara, Timisoara, Romania*

³*Institute of Chemistry Timisoara of Romanian Academy, Timișoara, Romania*
Precursor influence on photocatalytic performance of Cd_xE_{1-x}S compounds (E=Zn, Co)

17. P. Stastny, M. Trunec
Central European Institute of Technology, Brno University of Technology, Brno, Czech Republic
Preparation of biocompatible and bioresorbable fibrous structures
18. J. Gnyla
AGH University of Science and Technology, Faculty of Materials Science and Ceramics, Cracow, Poland
Suspensions based on SiC powders showing the dilatancy effect
19. A. Dobrádi
University of Pannonia, Veszprem, Hungary
Structure and properties of bioactive glass ceramics manufactured from bovine bone
20. T. Uhlířová, W. Pabst
Department of Glass and Ceramics, University of Chemistry and Technology, Prague, Czech Republic
Numerical calculation of effective elastic and thermal properties of open-cell model foams based on computer-generated digital microstructures
21. L. Rakoczy, A. Zielińska-Lipiec, L. Tuz, K. Pańcikiewicz
AGH University of Science and Technology, Faculty of Materials Science and Ceramics, Cracow, Poland
Investigation of yttria-stabilized zirconia coating
22. A.-M. Putz, L. Almásy, G.P. Kopitsa, T.V. Khamova, R. Barabas, M. Rigo, M. Mirica, B. Țăranu, A. Bóta, A. Wacha, Q. Tian, C. Savii
Institute of Chemistry Timisoara of the Romanian Academy, Timisoara, Romania
Ketoprofen loading capacity and the release profile in mesoporous silica prepared from mixed precursors
23. O.-A. Condurache¹, V. Preutu¹, C. Costa², L. Curecheriu¹, L. Mitoseriu¹, V. Buscaglia²
¹Dielectrics, Ferroelectrics & Multiferroics Group, Faculty of Physics, "Al. I. Cuza" University of Iasi 700506, Romania
²Institute for Condensed Matter Chemistry & Technologies for Energy ICMATE-CNR, Genoa, Italy
Dielectric and structural characterization of ferroelectric-relaxor crossover in Eu_{0.01}Ba_{0.99}Ti_{1-0.0025-y}Zr_yO₃ ceramics
24. C. Ianasi, A.-M. Putz, R. Nicola, M. Piciorus, C. Savii
Institute of Chemistry Timisoara of Romanian Academy, Timisoara, Romania
Superparamagnetic nanocomposites obtained by using different concentration of iron III acetylacetonate in SiO₂-PVA inorganic - organic hybrid system
25. K. Brylewska, M. Król, T. Bajda, W. Mozgawa
AGH University of Science and Technology, Faculty of Materials Science and Ceramics, Cracow,

Poland

Sorption properties of zeolite materials

26. K. Dzierzgowski, A. Mielewczyk-Gryń, M. Gazda
Faculty of Applied Physics and Mathematics, Gdańsk University of Technology, Gdańsk, Poland
Structure and conductivity of rare earth doped lanthanum niobate
27. L. Gil Flores, M. Dolores Salvador, A. Borrell
Universitat Politècnica de València, Valencia, Spain
TZP based-ceramic composites sintered by microwave technology for biomedical applications
28. S. Thirumalai
University of Cambridge, United Kingdom
29. P. Winiarz, A. Mielewczyk-Gryń, S. Wachowski, M. Gazda
Faculty of Applied Physics and Mathematics, Gdańsk University of Technology, Gdańsk, Poland
Selected properties of titanium doped yttrium niobate
30. S. Avcioglu, S. Kurama
Ondokuz Mayıs University, Faculty of Engineering, Department of Materials Science and Engineering, Samsun, Turkey
Relationship between composition and optical properties of SPS-ed α -SiAlON ceramics
31. P. Rożek, M. Król, W. Mozgawa
AGH University of Science and Technology, Faculty of Materials Science and Ceramics, Cracow, Poland
New porous geopolymer-based materials for potential sorption application
32. M. Piciorus, C. Ianasi, P. Sfirloaga, A.-M. Putz, C. Savii
Institute of Chemistry Timisoara of the Romanian Academy, Timisoara, Romania
Sonocatalyzed sol-gel derived nanoporous silica evaluated mainly by morpho-textural properties
33. A. Ghafarinazari
Genk, Belgium
Silicon nanostructure for bioimaging and drugdelivery
34. M. Yazici
Ondokuz Mayıs University, Samsun, Turkey
Development of corrosion resistance and biocompatibility on Mg-Sr alloys by plasma electrolytic oxidation
35. D. Kozień, M. Bućko
AGH University of Science and Technology, Faculty of Materials Science and Ceramics, Cracow, Poland
Synthesis the nanopowders of B₄C with different precursors

36. D.A. Lagunas Chavarría, M. Guadalupe Navarro Rojero, M. Dolores Salvador, A. Borrell
Centro de Tecnología Avanzada, CIATEQ A.C., Queretaro, Mexico
Universitat Politècnica de València, Valencia, Spain
KNN-based materials sintered via microwave heating technology: From synthesis to sintering
37. C. Avcioglu, B. Ozkal
Istanbul Technical University, Metallurgical & Materials Engineering of Department, Istanbul, Turkey
The effect of transition metal oxides on anatase rutile phase transformation of titan dioxide
38. R. Jadach
AGH University of Science and Technology, Cracow, Poland
Structural and optical characterization of modified germanate glass system
39. J. Nieroda, A. Rybak, G. Kmita, M. Sitarz
AGH University of Science and Technology, Faculty of Materials Science and Ceramics, Department of Silicate Chemistry and Macromolecular Compounds, Cracow, Poland
Preliminary investigation of amorphous metal surface for application in the power industry
40. E. Cichoń, A. Ślósarczyk, A. Zima, J. Czechowska
AGH University of Science and Technology, Faculty of Materials Science and Ceramics, Cracow, Poland
New calcium phosphate cements
41. B. Łagowska, M. Szumera
Akademia Górniczo-Hutnicza im. S. Staszica, Cracow, Poland
Glass formation and structure characterization of $\text{SiO}_2\text{-P}_2\text{O}_5\text{-K}_2\text{O-MgO-CaO-B}_2\text{O}_3$ glass
42. O. Kovalenko, A.V. Ragulya
Frantsevich Institute for Problems of Materials Sciences NANU, Kyiv, Ukraine
Synthesis of Ca,Zr-doped BaTiO_3 nanopowder with co-precipitation method
43. K. Wojciechowski, Ł. Łańcucki, R. Lach, K. Kornaus, M.M. Bućko
AGH University of Science and Technology, Faculty of Materials Science and Ceramics, Cracow, Poland
Sintering and preparation powders of yttrium iron garnet
44. D. Baranovskyi, A.V. Ragulya
Frantsevich Institute for Problems of Materials Science, Kyiv, Ukraine
Evolution of the porous structure of ceramic based on BaTiO_3 at different sintering rates
45. L. Pejchalová, D. Salamon, J. Roleček
CEITEC - Central European Institute of Technology, Brno University of Technology, Brno, Czech Republic
Shaping of bioceramic hydroxyapatite scaffolds on micro level

46. K. Pasiut, Janusz Partyka
AGH University of Science and Technology, Cracow, Poland
The influence of addition of the zirconium oxide on some technological parameters of the raw porcelain glaze
47. H. Mutuk
Ondokuz Mayıs University, Faculty of Arts and Sciences, Department of Physics, Atakum, Samsun. Turkey
A TRIZ (Theory of inventive problem solving) application to ceramics

Ceramic composites

48. S. Deb, N. Mitra
IIT Kharagpur, Kharagpur, India
Cementitious composite material: A new approach for the alternative to conventional concrete
49. V. Marak¹, H. Tan², D. Drdlik², D. Salamon¹
¹*Faculty of Mechanical Engineering, Brno University of Technology, Brno, Czech Republic*
²*CEITEC BUT, Brno University of Technology, Brno, Czech Republic*
Preparation of laminated ceramics via slip-casting method followed by SPS95bojane95
50. B.A. Vessalli¹, C. Zito², T. Perfecto², D. Volanti², T. Mazon¹
¹*Center of Information Technology Renato Archer, CTI, Campinas, Brazil*
²*LabMatSus - Laboratory of Materials for Sustainability, IBILCE, UNESP –Univ. Estadual Paulista, Brazil*
ZnO nanorods/graphene oxide sheets prepared by chemical bath deposition for volatile organic compounds detection
51. M.P. Nikolić¹, S. Stanojević-Nikolić¹, V.V. Srdić²
¹*Department of Chemistry and Chemical Engineering, Faculty of Agronomy, Čačak, University of Kragujevac, Serbia*
²*Department of Materials Engineering, Faculty of Technology, University of Novi Sad, Serbia*
Synthesis of SiO₂/CoFe₂O₄ multifunctional three-layered core-shell particles for invertase immobilization
52. T. Boteva¹, P. Petkov¹, T. Petkova²
¹*Physics Department, TFT Lab, University of Chemical Technology & Metallurgy, Sofia, Bulgaria*
²*Institute of Electrochemistry and Energy Systems, Bulgaria Academy of Sciences, Sofia, Bulgaria*
Diamond electrodes for electrochemical applications
53. E. Jindrova, J. Nemckovsky, K. Castkova
Central European Institute of Technology, Brno University of Technology, Czech Republic
Preparation of biocompatible and bioresorbable fibrous structures

54. G. Ferreira Teixeira¹, A.S. Dzunuzovic², G.M.M.M Lustosa¹, R.Ap.C. Amoresi¹, M.M. Vijatovic Petrovic², M.Ap. Zaghete¹, B.D.Stojanovic²
¹São Paulo State University (UNESP), Institute of Chemistry, Araraquara, Brazil
²Institute for Multidisciplinary Research, Belgrade University, Serbia
Structural and photoluminescence properties of the (Ni,Zn) Fe₂O₄-BaTiO₃ multiferroic composite nanopowders
55. P. Pęczkowski, P. Zachariasz, J. Grabski
Institute of Ceramics and Building Materials, Department of Ceramic Technology, Warsaw, Poland
Institute of Electron Technology, Department of Microelectronics, Warsaw, Poland
Characterization of the superconductor-multiferroic type materials based on YBa₂Cu₃O_{7-x} / YMnO₃
56. A. Dzunuzovic¹, J. Bobic¹, M. Vijatović Petrović¹, N. Ilic¹, M. Ivanov², D. Makovec³, B.D.Stojanovic¹
¹Institute for Multidisciplinary Research, Belgrade University, Belgrade, Serbia
²Faculty of Physics, Vilnius University, Lithuania
³Institute "Jozef Stefan", Ljubljana, Slovenia
Properties of PbZr_{0.52}Ti_{0.48}O₃ - NiZnFe₂O₄, CoFe₂O₄ multiferroic composites obtained by auto – combustion synthesis
57. A. Boros
University of Pannonia, Veszprem, Hungary
Synthesis of inorganic polymers from various raw materials
58. T. Lainović¹, Ş. Tãlu², S. Stach³, M. Vilotić⁴, L. Blažić¹
¹University of Novi Sad, Faculty of Medicine, School of Dentistry, Novi Sad, Serbia
²Technical University of Cluj-Napoca, Faculty of Mechanical Engineering, Department of AET, Discipline of Descriptive Geometry and Engineering Graphics, Cluj-Napoca, Romania
³University of Silesia, Faculty of Computer Science and Materials Science, Institute of Informatics, Department of Biomedical Computer Systems, Sosnowiec, Poland
⁴University of Novi Sad, Faculty of Technical Sciences, Department for Production Engineering, Novi Sad, Serbia
Analysis of the multifractal intrinsic nature of dental nanocomposites' surface
59. J. Huebner
AGH University of Science and Technology (AGH UST), Faculty of Materials Science and Ceramics, Cracow, Poland
Laser clad Inconel 625 - WC composite for turbine blade applications
60. Ł. Paula Maria, A. Miazga, K. Konopka
Warsaw University of Technology, Faculty of Materials Science and Engineering, Warsaw, Poland
Characterization of zirconia grains in ZrO₂ - Ti composites

61. S. Dmitrović¹, V. Spasojević¹, G. Branković², G. Constantinides³, B. Matović¹

¹"Vinča" Institute of Nuclear Sciences, Belgrade, Serbia

²Institute for Multidisciplinary Research, Belgrade, Serbia

³Cyprus University of Technology, Lemesos, Cyprus

Synthesis and characterization of spider silk-maghemite composite

62. S. Umerova, A. Ragulya

Frantsevich Institute for Problems of Materials Science of National Academy of Sciences of Ukraine, Kyiv, Ukraine

Rheological aspects of formation thin (1 μm) smooth (Ra = 20 – 25 nm) films of nanocrystalline BaTiO₃ by screen-printing method

63. A. Wrzos

Uniwersytet Jagielloński, Cracow, Poland

Biocomponents

64. P. Zachariasz, P. Pęczkowski, J. Grabski

Institute of Ceramics and Building Materials, Department of Ceramic Technology, Warsaw, Poland

Institute of Electron Technology, Department of Microelectronics, Cracow, Poland

Warsaw University of Technology, Department of Physics, Warsaw, Poland

Characterization of the superconductor-multiferroic type materials based on YBa₂Cu₃O_{7-x} / YMnO₃

Traditional ceramics

65. K. Związek¹, J. Szczerba², K. Stec¹

¹*Institute of Ceramic and Building Materials, Refractory Materials Division in Gliwice, Poland*

²*AGH University of Science and Technology, Faculty of Materials Science and Ceramics, Department of Ceramics and Refractories, Cracow, Poland*

Investigation into influence of binding regulators on thermomechanical properties of cement free castables

66. N. Busatlic¹, M. Perusic², I. Busatlic¹

¹*Faculty of Metallurgy and Materials, University of Zenica, Bosnia and Herzegovina*

²*Faculty of Technology Zvornik, University of East Sarajevo, Zvornik, Bosnia and Herzegovina*

The testing of influence of metakaolin on the mechanical properties of phosphate bonded refractory materials

67. A. Gerle¹, J. Piotrowski², J. Podworny¹

¹*Institute of Ceramics and Building Materials, Refractory Materials Division in Gliwice, Poland*

²*Faculty of Chemistry, Department of Inorganic, Analytical Chemistry and Electrochemistry, Silesian University of Technology, Gliwice, Poland*

Kinetics of topochemical reaction of magnesia spinels: Mg(Cr_{0,5}Fe_{0,5})₂O₄, Mg(Al_{0,5}Cr_{0,5})₂O₄, Mg(Al_{0,5}Fe_{0,5})₂O₄ solid solutions with sulphur oxides

68. A. Kovács
University of Pannonia, Veszprem, Hungary
Synthesis of kaolinite nanoscrolls using solution/stirring and solvothermal methods
69. R. Kusiorowski
Institute of Ceramics and Building Materials, Gliwice, Poland
MgO-ZrO₂ ceramics based on recycled magnesia-carbon bricks
70. N. Kunduracı, İ.N. Gamze Simsek, E. Kocaman
Department of Metallurgical and Materials Engineering, Bulent Ecevit University, Zonguldak, Turkey
Effect of chamotte amount and particle size on thermal expansion behaviour of ceramic sanitaryware products
71. A. Wajda, M. Sitarz
AGH University of Science and Technology, Cracow, Poland
Structure, bioactivity and thermal properties of melt-derived SiO₂-CaO-Ga₂O₃ glasses
72. H. Hullár
University of Pannonia, Veszprem, Hungary
Production of slag based alkali-activated cement foams
73. P. Taźbierski
Institute of Ceramics and Building Materials, Department of Ceramic Technology, Warsaw, Poland
Study of the mullite synthesis by ceramic method
74. İ.N.G. Şimşek, Nazım Kunduracı, Engin Kocaman
Metallurgical and Materials Engineering Department, Engineering Faculty, Bulent Ecevit University, Zonguldak, Turkey
Effect of chamotte amount and particle size on thermal expansion behavior of ceramic sanitaryware products
75. I. Balczár
University of Pannonia, Veszprem, Hungary
Manufacture of alkali activated cements using air-cooled slag
76. M. Leśniak, J. Partyka, M. Sitarz
AGH University of Science and Technology, Faculty of Materials Science and Ceramics, Cracow, Poland
Characterization of zinc-containing raw glazes: correlations between composition, structure and properties