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Italian Ceramic Society
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XVI
ECerS
CONFERENCE

TORINO
16-20 JUNE
2019



XVI CONFERENCE AND EXHIBITION OF THE EUROPEAN CERAMIC SOCIETY



TUESDAY 18 JUNE
DAILY PROGRAMME

Room	3 Corte Interrata	7 Corte Interrata	10 Corte Interrata	2 Corte Interrata	1 Corte Interrata	T1 Pav. T	9 Corte Interrata	5 Corte Interrata	8 Corte Interrata	Castello del Valentino
08.30 10.30	S1	S1	S2	S3	S4	S5	S6	S7	S8	S9 A&D
10.30 11.00	Coffee break									
11.00 13.00	S1	S1	S2	S3	S4	S5	S6	S7	S8	S9 A&D
13.00 14.30					Lunch					
14.30 16.30	S1	S1	S2	S3	S4	S5	S6	S7	S8	S9 A&D
16.30 17.00	Coffee break									
17.00 18.00		S1	S2		S4	S5	S6	S7	S8	S9
18.00 19.00	POSTER SESSION - Pavilion T									

LEGENDA

- S1** Innovative processing and synthesis
- S2** HT Processes and Advanced Sintering
- S3** Modelling of ceramics together with IV Cermodel: "Modelling and simulation meet innovation in ceramics technology"
- S4** Advanced structural ceramics, composites and refractories
- S5** Ceramics and glasses for healthcare
- S6** Ceramics for energy conversion and storage
- S7** Functional Ceramics
- S8** Silicate Ceramics
- S9** Ceramics in Cultural Heritage and Art
- A&D** Art & Design in Ceramics

Programme updated to **Wednesday, 22 May, 2019**.
The current, finally updated programme will be available in the conference **APP ECerS 2019**.

S 01 - STEREOGRAPHY 1 - 08:30-10:30			
Chair: Andrea Zocca			
Time	Name	Title	ID Abs
08:30 09:00	Thierry Chartier <i>Invited Lecture</i>	STEREOGRAPHY: A TRUE MANUFACTURING PROCESS TO BUILD 3D FUNCTIONAL CERAMIC AND CERAMIC/METAL PARTS	744
09:00 09:15	Mario Borlaf	DEVELOPMENT OF UV-CURABLE ZrO ₂ SLURRIES FOR DIGITAL LIGHT PROCESSING	790
09:15 09:30	Justine Tarabeux	DEVELOPMENT OF A NUMERICAL SIMULATION MODEL FOR PREDICTING THE STIFFNESS OF CERAMIC PARTS PRODUCED BY STEREOGRAPHY	129
09:30 09:45	Johannes Homa	MECHANICAL CHARACTERIZATION AND ISOTROPY OF CERAMICS PRODUCED BY ADDITIVE MANUFACTURING	555
09:45 10:00	Chuchu Qian	COMPARISON OF MICROWAVE AND CONVENTIONAL SINTERING ON THE PROPERTIES AND MICROSTRUCTURE OF STEREOGRAPHY CERAMIC MANUFACTURED PARTS	265
10:00 10:15	Pablo Gonzalez	FORMULATION OF CERAMIC RESINS FOR STEREOGRAPHY-BASED ADDITIVE MANUFACTURING	604
10:15 10:30	Jonathan Raynaud	DEVELOPMENT OF 3D HIGH AND LOW TEMPERATURE CO-FIRED CERAMICS PARTS BY ADDITIVE MANUFACTURING	255

S 01 - STEREOGRAPHY 2 - 11:00-13:00			
Chair: Thierry Chartier			
Time	Name	Title	ID Abs
11:00 11:30	Martin Schwentenwein <i>Invited Lecture</i>	STATE OF THE ART IN LITHOGRAPHIC ADDITIVE MANUFACTURING OF CERAMICS	198
11:30 11:45	Jinxiang Sun	EFFECT OF SURFACE TREATMENT ON THE DISPERSION OF NANO ZIRCONIA PARTICLES IN NON-AQUEOUS SUSPENSIONS FOR STEREOGRAPHY	152
11:45 12:00	Dominique Hautcoeur	EFFECT OF SURFACE POLISHING ON THE MECHANICAL PROPERTIES OF CERAMIC PROCESSED BY STEREOGRAPHY	564
12:00 12:15	Ambra Paterlini	LITHOGRAPHY-BASED CERAMIC MANUFACTURING OF JOINT REPLACEMENTS: MICROSTRUCTURE AND SURFACE FINISHING ANALYSIS	299

S 01 - STEREOGRAPHY 2			
Time	Name	Title	ID Abs
12:15 12:30	Elena Xuriguera Martin	OPTIMIZATION PROCEDURE FOR CERAMIC ADDITIVE MANUFACTURING BASED ON DIGITAL LIGHT PROCESSING	39
12:30 12:45	Sébastien Vry	STEREOGRAPHY AND POLYMER-DERIVED CERAMICS, PRECURSORS OF Si(O)C	66
12:45 13:00	Kristina Nikiforova	PHASE FORMATION AND DISPERSITY OF 8Y2O3-9ZrO2 PRECURSORS (MOL.%), OBTAINED BY HYDROTHERMAL TREATMENT	331

S 01 - LASER PROCESSING - 14:30-16:30			
Chair: Martin Schwentenwein			
Time	Name	Title	ID Abs
14:30 15:00	Andrea Zocca <i>Invited Lecture</i>	ADDITIVE MANUFACTURING OF SILICON CARBIDE BY LSD-PRINT	6
15:00 15:15	Hyunhee Choi	FABRICATION OF CERAMIC CORE THROUGH 3D PRINTER AND CONVERTING PROCESS	731
15:15 15:30	Jörg Luchtenborg	ADDITIVE MANUFACTURING OF PORCELAIN AND ALUMINA BY LSD-PRINT	418
15:30 15:45	Tatevik Minasyan	MESOPOROUS FIBROUS SILICON NITRIDE BY CATALYTIC NITRIDATION OF SILICON AND SELECTIVE LASER MELTING	375
15:45 16:00	Sofiya Aydinyan	SELECTIVE LASER MELTING OF CERAMIC COMPOSITES	833
16:00 16:15	Yasunori Watanabe	MECHANICAL PROPERTIES OF COMPLEX ZnO STRUCTURES USING NANO-LEVEL 3D PRINTERS	57
16:15 16:30	Esther Galindo Batanero	CERAMIC ADDITIVE MANUFACTURING: A BIBLIOMETRIC ANALYSIS AND EXHAUSTIVE OUTLINE	627

S 01 - NOVEL POWDER SYNTHESIS 1 - 08:30-10:30			
Chair: Marco Faustini			
Time	Name	Title	ID Abs
08:30 08:45	Hiroya Abe	MAGNETITE MESOCRYSTALS SYNTHESIZED THROUGH REDUCTIVE HYDROLYSIS AND THEIR MAGNETORHEOLOGY	860
08:45 09:00	Derin Bilgin	THERMOCHROMIC MATERIAL: VANADIUM TITANIUM OXIDE	803
09:00 09:15	Kamil Koraus	THERMAL AND MECHANIC PROPERTIES OF ALUMINUM TITANATE OBTAINED BY MEANS OF HETEROGENEOUS NUCLEATION	481
09:15 09:30	Yi-hsin Lin	PRESENCE OF AMORPHOUS SILICA DURING SYNTHESIS OF CORDIERITE IN THE KAOLINITE-TALC-ALUMINA SYSTEM	432
09:30 09:45	Fu Su Yen	SIZE REDUCTION EFFECTS OF CRISTOBALITE AND α - Al_2O_3 POWDERS ON SYNTHESIZING MULLITE	32
09:45 10:00	Hugo Spiridigliozzi	EFFECT OF Ta_2O_5 ADDITION ON MICROSTRUCTURE AND OPTICAL PROPERTIES OF $MgAl_2O_4$ CERAMICS PREPARED BY REACTIVE AND NON REACTIVE SPARK PLASMA SINTERING	161
10:00 10:15	Yoshikazu Suzuki	REACTIVE SYNTHESIS, MICROSTRUCTURE, AND PORE-SIZE CONTROL OF OXIDE-BASED SPHERICAL POROUS GRANULES	146
10:15 10:30	Yuho Min	SELECTIVE CONTROL OF CRYSTAL STRUCTURES IN POTASSIUM SODIUM NIOBATE PARTICLES THROUGH A FACILE SOLUTION CHEMICAL SYNTHESIS	376

S 01 - NOVEL POWDER SYNTHESIS 2 - 11:00-13:00			
Chair: Fabrice Rossignol			
Time	Name	Title	ID Abs
11:00 11:15	Joaquim Vieira	MAGNETIC FIELD ASSISTED FILM DEPOSITION OF MULTI-FUNCTIONAL LAYERED DOUBLE HYDROXIDES SYNTHESIZED WITH HIGH-POWER SONICATION	81
11:15 11:30	Nicolas Somers	DEVELOPMENT OF SUBSTITUTED β -TCP FOR IMPROVED THERMAL STABILITY DURING MICROWAVE SINTERING	165
11:30 11:45	Pedro Jesús Navarrete Segado	IMPROVING HYDROXYAPATITE BIO-CERAMIC POWDER ABSORPTANCE AT Nd-YAG LASER WAVELENGTH BY ADDITION OF ABSORBING ADDITIVES	340
11:45 12:00	Wenjea Tseng	UREA-GLASS PREPARATION OF TiN/TiO_2 COMPOSITE NANOPARTICLES FOR ORGANIC DYE ADSORPTION AND PHOTOCATALYSIS	109

S 01 - NOVEL POWDER SYNTHESIS 2			
Time	Name	Title	ID Abs
12:00 12:15	Dawid Koziem	SYNTHESIS OF B_4C POWDERS FROM MONO- AND POLYSACCHARIDES	476
12:15 12:30	Shaowei Zhang	LOW TEMPERATURE MOLTEN SALT MEDIATED SYNTHESIS OF BORON-CONTAINING CERAMIC POWDERS	12
12:30 12:45	Aleksei Sedegov	SELFPROPAGATING HIGH TEMPERATURE SYNTHESIS AND STUDY OF HIGH-ENTROPY CERAMICS BASED ON THE CARBIDES OF REFRACTORY METALS	196
12:45 13:00	Masahiro Yoshimura	WHY SOFT PROCESSING (=LOW-ENERGY PRODUCTION) OF ADVANCED CERAMICS IS DIFFICULT BUT NECESSARY FOR SUSTAINABLE SOCIETY?	937

S 01 - NOVEL SHAPING METHODS 1 - 14:30-16:30			
Chair: Masahiro Yoshimura			
Time	Name	Title	ID Abs
14:30 15:00	Rodrigo Moreno <i>Invited Lecture</i>	MANUFACTURE OF SUPERCAPACITORS OF METAL TRANSITION OXIDES AND GRAPHENE BY ELECTROPHORETIC DEPOSITION	362
15:00 15:15	Tohru Suzuki	ALIGNMENT OF TUBAL PORES IN CERAMICS BY MAGNETIC-FIELD ASSISTED COLLOIDAL PROCESSING	147
15:15 15:30	Aitana Tamayo	STRUCTURAL AND ELECTROCHEMICAL CHARACTERIZATION OF COBALT-CONTAINING CARBONS DERIVED FROM CARBIDES THROUGH CHLORINE ETCHING	136
15:30 15:45	Guillermo Menendez	NOVEL STRATEGIES FOR BIOINSPIRED FREEZE-CAST GRAPHENE/CERAMIC COMPOSITES.	384
15:45 16:00	Ozan Karalti	STUDY OF THE RHEOLOGICAL PROPERTIES OF AQUEOUS BORON CARBIDE SLURRIES FOR HIGH PRESSURE SLIP CASTING	514
16:00 16:15	Motoyuki Iijima	NOVEL PHOTORESPONSIVE SLURRY SYSTEM DESIGNED BY TAILOR-MADE FUNCTIONAL DISPERSANTS FOR COMPLEX SHAPED AND RAPID DEWAXABLE GREEN COMPACTS	531
16:15 16:30	Romain Arbore	REALISATION OF SILICON CARBIDE PIECES BY ADDITIVE MANUFACTURING	836

S 01 - NOVEL SHAPING METHODS 2 - 17:00-18:00

Chair: Rodrigo Moreno

Time	Name	Title	ID Abs
17:00 17:15	Byung-Dong Hahn	NOVEL COATING TECHNIQUE FOR PREPARATION OF ALUMINUM NITRIDE THICK FILMS WITH EXCELLENT HEAT DISSIPATION PERFORMANCE	572
17:15 17:30	David Calatayud	MOLECULAR RECOGNITION AS THE KEY TO SUSTAINABLE PROCESSING OF ELECTRONIC NANOCOMPONENTS	765
17:30 17:45	Michal Gorbar	MULTI-COLOR GRADIENT CERAMICS PRODUCED BY AQUEOUS TAPE CASTING	601
17:45 18:00	Aghiles Hammas	PROCESSING OF CORDIERITE-MULLITE SUBSTRATES BY TAPE CASTING USING AN ALGERIAN KAOLINITIC CLAY	569

S 02 - UNCONVENTIONAL SINTERING 1 - 08:30-10:30

Chair: Jon Binner

Time	Name	Title	ID Abs
08:30 09:00	Jonathan Phillips <i>Invited Lecture</i>	INDUSTRIAL VIEW ON SINTERING TECHNOLOGIES OF THE FUTURE	955
09:00 09:15	Norberto Labrador	SINTERING OF ALUMINUM NITRIDE NANOPOWDERS SYNTHESIZED BY THERMAL PLASMA AND COMMERCIAL MICROPOWDERS	457
09:15 09:30	Douglas Gouvêa	SURFACE SEGREGATION OF Li_2O DURING FAST-FIRE SINTERING OF MAGNESIUM SPINEL NANOPOWDERS PREPARED BY PRECIPITATION IN ETHANOL	812
09:30 09:45	Bingyang Li	HIGH SINTERING EFFICIENCY OF ZrB_2 CERAMICS AT MEDIUM-TEMPERATURE USING POLYMER-DERIVED SiBCN AS A SINTERING AID	440
09:45 10:00	Lu Song	LASER SINTERING OF OXIDE CERAMICS: STATE TRANSFORMATION, REDUCTION, AND MORE EMBEDDED IN THE HETEROGENEOUS STRUCTURE	185
10:00 10:15	Satoshi Suehiro	REACTION SINTERING OF SILICON CARBIDE CERAMICS BY DIRECT LASER HEATING	153
10:15 10:30	Junichi Tatami	REAL-TIME AND 3-DIMENSIONAL OBSERVATION OF SINTERING BEHAVIOR OF ALUMINA GREEN BODY BY OPTICAL COHERENCE TOMOGRAPHY	127

S 02 - UNCONVENTIONAL SINTERING 2 - 11:00-13:00			
Chair: Sylvain Marinel			
Time	Name	Title	ID Abs
11:00 11:30	Richard Todd <i>Invited Lecture</i>	FLASH SINTERING OF SILICON CARBIDE	953
11:30 11:45	Rachman Chaim	KINETICS OF LIQUID-ASSISTED DENSIFICATION DURING FLASH SINTERING OF CERAMIC PARTICLES	745
11:45 12:00	Ricardo Serrazina	FLASH SINTERING OF LEAD FREE POTASSIUM SODIUM NIOBATE PIEZOELECTRICS	189
12:00 12:15	Mattia Biesuz	INVESTIGATION OF ELECTROCHEMICAL, OPTICAL AND THERMAL EFFECTS DURING FLASH SINTERING OF 8YSZ	806
12:15 12:30	Koji Morita	EFFECT OF DC CURRENT ON HIGH TEMPERATURE DEFORMATION OF ZIRCONIA CERAMICS	360
12:30 12:45	Vincenzo M. Sglavo	EFFECT OF ELECTRIC CURRENT DURING THE INITIAL SINTERING STAGES OF ZIRCONIA	188
12:45 13:00	Rolf Janssen	SYNTHESIS AND STABILITY OF INVERSE MULLITE AND ALMUNINA OPALS	527

S 02 - UNCONVENTIONAL SINTERING 3 - 14:30-16:30			
Chair: Vincenzo M. Sglavo			
Time	Name	Title	ID Abs
14:30 14:45	Moritz Kindelmann	INFLUENCE OF HYBRID HEATING AND TOOLING ON THE FIELD ASSISTED SINTERING OF LARGE SCALE OXIDE CERAMICS	494
14:45 15:00	Hua Tan	THE EFFECT OF PRESSURE APPLYING REGIME ON THE MICROSTRUCTURE AND MECHANICAL PROPERTIES OF NANO-ALUMINA DURING SPARK PLASMA SINTERING	133
15:00 15:15	Fei Zuo	COMBINED EFFECT OF CONDUCTIVE PHASE AND CURRENT PATTERN ON SPARK PLASMA SINTERING OF Si3N4-BASED CERAMIC COMPOSITE	4
15:15 15:30	Gamze Uysal Sapanci	MULTI-PHASE ARMOR PRODUCTION AND CHARACTERIZATION INVOLVING B ₄ C-SiC-TiC WITH SPS TECHNIQUE	95
15:30 15:45	Hatim Laadoua	FABRICATION OF ZRC / SiC COMPOSITES USING A PRECERAMIC POLYCARBOSILANE AND SPS SINTERING	458
15:45 16:00	Vedi Dupont	SPS SYNTHESIS OF DENSE AND TEXTURED Ti3AlC2 AND Ti2AlN MAX PHASES COMPACTS – INFLUENCE OF THE APPLIED THERMOMECHANICAL CYCLE ON THE PHASE PURITY AND ANISOTROPY OF THE RESULTING PRODUCTS	669

S 02 - UNCONVENTIONAL SINTERING 4 - 17:00-18:00			
Chair: Clive Randall			
Time	Name	Title	ID Abs
17:00 17:30	Jingzhe Pan <i>Invited Lecture</i>	MATERIAL MODELS FOR DIGITAL TWIN OF CERAMIC PROCESSING	307
17:30 17:45	Yangyiwei Yang	PHASE-FIELD MODELLING OF NON-ISOTHERMAL GRAIN COALESCENCE IN ADDITIVE MANUFACTURING	42

S 03 - MODELLING OF CERAMICS 4 - 08:30-10:30			
Chair: Willi Pabst			
Time	Name	Title	ID Abs
08:30 09:00	Marc Huger <i>Invited Lecture</i>	ADVANCED MEASUREMENTS FOR IN-SITU THERMO-MECHANICAL MONITORING OF LARGE SAMPLE UNDER THERMAL GRADIENT (ATHORNA)	538
09:00 09:15	Ines Ghorbel	NUMERICAL AND EXPERIMENTAL THERMAL ANALYSIS FOR DIRECT AND HYBRID MICROWAVE HEATING	618
09:15 09:30	Rafael Luiz Galvão De Oliveira Oliveira	THERMOMECHANICAL CHARACTERIZATION OF ALUMINA SPINEL BRICKS	320
09:30 09:45	Kevin Plucknett	UNDERSTANDING THE ELASTIC AND THERMAL RESPONSE IN TIC-BASED CERAMIC-METAL COMPOSITE SYSTEMS: FIRST-PRINCIPLES AND MECHANICAL STUDIES	278
09:45 10:00	Volatiana Razafindramanana	DEVELOPMENT OF AN ULTRA-HIGH-TEMPERATURE MATERIAL FOR SATELLITE PROPULSION: CORRELATION BETWEEN EXPERIMENTAL AND DENSITY FUNCTIONAL THEORY CALCULATIONS	254

S 03 - MODELLING OF CERAMICS 5 - 11:00-13:00			
Chair: Marc Huger			
Time	Name	Title	ID Abs
11:00 11:30	Willi Pabst <i>Invited Lecture</i>	EFFECTIVE PROPERTIES OF PARTIALLY SINTERED CERAMICS	312
11:30 11:45	Lidia Rossi Roccofort	STRONG METAL-SUPPORT INTERACTIONS BETWEEN METAL AND OXIDE NANOWIRE THIN FILMS	235
11:45 12:00	Lucas Teixeira	APPLICATION OF THE INTEGRATED DIGITAL IMAGE CORRELATION TECHNIQUE ASSOCIATED TO BRAZILIAN DISC TESTS TO IDENTIFY THE CREEP BEHAVIOR OF REFRACTORY MATERIALS	123
12:00 12:15	Arnaud Videcoq	HYDRODYNAMICS IN MESOSCOPIC SIMULATIONS OF CERAMIC SUSPENSIONS	82
12:15 12:30	Vincent Lasseur	A STUDY OF SANDBLASTING PROCESS BY NUMERICAL MODELING AND EXPERIMENTAL APPROACHES	450
12:30 13:00	Séverine Romero-Baivier <i>Invited Lecture</i>	THERMAL AND MECHANICAL MODELING OF CERAMIC REFRACTORIES	238

S 03 - MODELLING OF CERAMICS 6 - 14:30-16:30			
Chair: Francesco Baino			
Time	Name	Title	ID Abs
14:30 14:45	Wai-Yim Ching	FIRST-PRINCIPLES CALCULATION OF CRYSTALLINE PRECIPITATE PHASES M ₂₃ C ₆ (M = CR, W, MO, FE) IN NI-BASED SUPPER-ALLOYS	734
14:45 15:00	Yicun Huang	A MESOSCALE MODEL OF FACETED TITANIA FILM GROWTH	541
15:00 15:15	Pierre-François Mougard Camacho	RHEOLOGICAL STUDIES ON CERAMIC PASTES FOR NUCLEAR FUELS EXTRUSION SHAPING	357
15:15 15:30	Satoshi Tanaka	REAL STRUCTURES IN COLLOIDAL PROCESSING USING CONCENTRATED SLURRY	132
15:30 16:00	Susan Sinnott <i>Invited Lecture</i>	GROWTH AND PROPERTIES OF CONFINED METAL OXIDES	172
16:00 16:15	Mert Sengul	TOWARDS UNDERSTANDING THE SURFACE MECHANISM OF THE COLD SINTERING PROCESS: A COMBINED COMPUTATIONAL AND EXPERIMENTAL STUDY	944
16:15 16:30	Ghatu Subhash	COMPARISON OF MOLECULAR DYNAMIC SIMULATIONS OF SHOCK RESPONSE AND AMORPHIZATION OF BORON CARBIDE WITH EXPERIMENTAL DATA	154
16:30 16:45	Zhanna Yermekova	SIMULTANEOUSLY PROBABILISTIC AND DETERMINISTIC APPROACH (SPADA) FOR DESIGN OF EXPERIMENT: OPTIMIZATION OF THE SELF-PROPAGATING HIGH TEMPERATURE SYNTHESIS (SHS) PARAMETERS FOR THE SI-AL-N-O-C CERAMICS	31

S 04 - MICROSTRUCTURAL DESIGN AND PROCESSING OF OXIDES - 08:30-10:30			
Chair: Frank Kern			
Time	Name	Title	ID Abs
08:30 09:00	Antonio H. De Aza <i>Invited Lecture</i>	THE PHASE EQUILIBRIUM DIAGRAMS: A KEY TOOL FOR CERAMIC MATERIALS SCIENCE	696
09:00 09:15	Victor Fuertes De La Llave	ENHANCED WEAR RESISTANCE OF ENGINEERED GLASS-CERAMIC BY NANOSTRUCTURED SELF-LUBRICATION	638
09:15 09:30	Neslihan Basaran	THE MACHINABILITY STUDY OF BONE ASH CONTAINING CERAMIC BODY	820
09:30 09:45	William Fahrenholtz	THE EFFECT OF MECHANICAL ACTIVATION ON SYNTHESIS AND PROPERTIES OF MGAL2O4 CERAMICS	324
09:45 10:00	Lutz-Michael Berger	CONTROL OF ALUMINIUM TITANATE CONTENT IN CERAMICS OF THE Al_2O_3 - TiO_2 SYSTEM	717
10:00 10:15	Yuhong Chen	MULLITE PHASE FORMATION AND REACTION WITH TUNGSTEN TRIOXIDE AS CATALYZER	739
10:15 10:30	T. Zhao	SYNTHESIS OF CONTINUOUS HAFNIA MODIFIED ALUMINOSILICA FIBERS BY MELT-SPINNING AND PYROLYSIS PROCESS	437

S 04 - ALUMINA-BASED MATERIALS - 11:00-13:00			
Chair: Antonio H. De Aza			
Time	Name	Title	ID Abs
11:00 11:30	Frank Kern <i>Invited Lecture</i>	DEVELOPMENT OF ELECTRIC DISCHARGE MACHINABLE ZTA CERAMICS WITH ENHANCED MACHINABILITY AND MECHANICAL PROPERTIES	509
11:30 11:45	Jamaleldin Fadoul Mohammed Ibrahim	NEW ZEOLITE-ALUMINA COMPOSITE MATERIALS - DEVELOPMENT AND INVESTIGATION	532
11:45 12:00	Hassan Saad	A SIMPLE APPROACH TO BULK BIO-INSPIRED CERAMICS	230
12:00 12:15	Philipp Ninz	DOPED ALUMINA SUBSTRATES FOR LASER INDUCED SELECTIVE METALLIZATION	329
12:15 12:30	Maksim Boldin	THE EFFECT OF ADDITIVES DURING THE SPARK PLASMA SINTERING OF ALUMINA-BASED CERAMICS	794
12:30 12:45	Wen-Chiao Huang	THETA-ALPHA COMPOSITE POWDERS FOR LOWER TEMPERATURE VACUUM SINTERING OF HIGH TRANSLUCENT ALUMINA	543
12:45 13:00	Meng-ying Lee	AUTHIGENIC γ - Al_2O_3 FLAKE POWDERS FABRICATED USING THERMAL ASSISTED DELAMINATION OF BOEHMITE	445

S 04 - MAX PHASES - 14:30-16:30			
Chair: Frederic Monteverde			
Time	Name	Title	ID Abs
14:30 15:00	Yanchun Zhou <i>Invited Lecture</i>	DISCOVERY OF NEW MAB PHASE AND 2D NANOSHEETS MABENE IN Cr-Al-B SYSTEM	7
15:00 15:15	Matteo Griseri	MAX PHASES AND DERIVATIVE BINARY CARBIDES FOR ISOL TARGETRY	588
15:15 15:30	Apurv Dash	COMPRESSIVE CREEP OF SIC WHISKER AND SHORT SIC FIBRE/Ti3SiC2 MAX PHASE BASED COMPOSITES IN AIR	698
15:30 15:45	Tetiana Prikhna	HIGH TEMPERATURE STABILITY IN OXYGEN AND HYDROGEN ENVIRONMENTS AND WEAR RESISTANCE OF Ti,Nb-Al-C MAX PHASES-BASED BULK MATERIALS AND VACUUM-ARC DEPOSITED FILMS	270
15:45 16:00	Hassan Qarra	HEAVY ION IRRADIATION DAMAGE IN Zr_2AlC MAX PHASE	266
16:00 16:15	Olga Kurapova	MICROSTRUCTURE, ELECTRICAL CONDUCTIVITY AND OXYGEN SENSING PROPERTIES OF ZIRCONIA BASED SOLID ELECTROLYTED, OBTAINED USING FREEZE-DRYING	465
16:15 16:30	Yuchi Fan	ELECTRICALLY CONDUCTIVE AND MECHANICALLY STRONG GRAPHENE/MULLITE CERAMIC COMPOSITES FOR HIGH-PERFORMANCE ELECTROMAGNETIC INTERFERENCE SHIELDING	655

S 04 - CERMETS - 17:00-18:00			
Chair: Yanchun Zhou			
Time	Name	Title	ID Abs
17:00 17:15	Antonio Javier Sanchez-Herencia	WC/W ₂ C COMPOSITES FOR HIGH TEMPERATURE APPLICATIONS PROCESSED FROM W AND WC AQUEOUS SUSPENSIONS	213
17:15 17:30	Matej Kocen	TUNGSTEN CARBIDE - NICKEL CERMET AS AN ALTERNATIVE PLASMA-FACING MATERIAL FOR FUSION APPLICATION	486
17:30 17:45	Jan Huebner	INCONEL 625 - WC COMPOSITE SYSTEMS	539
17:45 18:00	Anze Abram	DIFFUSION OF CARBON IN TUNGSTEN-CARBON SYSTEM	858
18:00 18:15	Hanna Myalska	DEPOSITION OF CERMET COATINGS BY COLD SPRAYING AND ELECTROPLATING USED AS A REPLACEMENT OF HARD CHROME COATINGS	349

S 05 - UNCONVENTIONAL PROCESSES FOR SYNTHESIS OF 3-D CERAMICS 3 - 08:30-10:30

Chair: Hamada Elsayed, Valeria Cannillo

Time	Name	Title	ID Abs
08:30 09:00	Jens Günster <i>Invited Lecture</i>	IN VIVO EVALUATION OF 3-D PRINTED BIOACTIVE APATITE CONTAINING GLASS CERAMICS	577
09:00 09:15	Nathalie Annonay	ROBOCASTING OF HYDROXYAPATITE-BASED SCAFFOLDS WITH MULTI-SCALE POROSITY	839
09:15 09:30	Giorgia Montalbano	3D PRINTED SCAFFOLDS BASED ON HYBRID BIOACTIVE SYSTEMS FOR BONE TISSUE ENGINEERING APPLICATIONS	368
09:30 09:45	Ena Athenea Aguilar-Reyes	MICROSTRUCTURAL AND BIOLOGICAL CHARACTERIZATION OF HYBRID PLA/BIOGLASS 45S5 COMPOSITE SCAFFOLDS FOR BONE REPAIR	856
09:45 10:00	Sonia Fiorilli	HYBRID INJECTABLE PLATFORMS FOR THE IN SITU DELIVERY OF THERAPEUTIC IONS AND DRUGS FOR BONE REGENERATION	645
10:00 10:15	Maria Canillas	POLYMERIC CERAMIC COMPOSITES FOR THE TREATMENT OF RHEUMATOID ARTHRITIS	760
10:15 10:30	Gurdial Blugan	DEVELOPMENT OF POLYMER DERIVED SIOC CERAMICS AS AN IMPLANT BIOMATERIAL	798

S 05 - CALCIUM PHOSPHATES 1 - 11:00-13:00

Chair: Alessio Adamiano

Time	Name	Title	ID Abs
11:00 11:30	Christophe Drouet <i>Invited Lecture</i>	BIO-INSPIRED CALCIUM PHOSPHATE APATITES: BIOMEDICAL PROMISES BEYOND BONE REPAIR?	964
11:30 11:45	Bastien Le Gars Santoni	IMPORTANCE OF GRAIN ORIENTATIONS FOR THE CHEMICAL STABILITY OF BETA-TRICALCIUM PHOSPHATE CERAMICS	449
11:45 12:00	Yassine Maazouz	RELEVANCE OF BETA-TRICALCIUM PHOSPHATE IN VITRO BIOACTIVITY TO INTRINSIC OSTEOINDUCTION	414
12:00 12:15	Monica Montesi	TUNABLE NANOSYSTEMS FOR SMART DELIVERY OF BIOACTIVE MOLECULES DIRECTING CELL FATE	367
12:15 12:30	Joanna Konka	MATURATION OF BIOMIMETIC HYDROXYAPATITE IN CELL CULTURE MEDIUM	483
12:30 12:45	Tiphaine Bazin	COPPER DOPED-HYDROXYAPATITE: FROM POWDER SYNTHESIS TO BIOCOMPATIBLE CERAMICS	117
12:45 13:00	Yajie Gao	STRUCTURE AND PROPERTIES STUDY ON STRONTIUM AND FLUORINE-SUBSTITUTED HYDROXYAPATITE	624

S 05 - CALCIUM PHOSPHATES 2 - 14:30-16:30

Chair: Christophe Drouet, Maria-Pau Ginebra

Time	Name	Title	ID Abs
14:30 14:45	Florence Babonneau	ADVANCED SOLID STATE NUCLEAR MAGNETIC RESONANCE EXPERIMENTS FOR THE CHARACTERIZATION OF SUBSTITUTED HYDROXYAPATITES	830
14:45 15:00	Alessio Adamiano	Fe-DOPED CALCIUM PHOSPHATE NANOCOMPOSITES AS THERMO-SEEDS FOR THE HYPERTHERMIA TREATMENT OF CANCERS OF BONE AND BRAIN	857
15:00 15:15	Marta Laranjeira	MULTIFUNCTIONAL MAGNETIC CALCIUM PHOSPHATE AND SILICA BASED NANOCOMPOSITES FOR BREAST CANCER THERAPY	451
15:15 15:30	Gilyana Kazakova	RESORBABLE CERAMIC MATERIALS BASED ON CALCIUM MAGNESIUM PHOSPHATES FOR BONE REGENERATION	510
15:30 15:45	Antonia Ressler	STRONTIUM/CARBONATE CO-SUBSTITUTED TWO-PHASE SYSTEM OF HYDROXYAPATITE AND OCTACALCIUM PHOSPHATE DERIVED FROM CUTTLFISH BONE	250
15:45 16:00	Lorenzo Preti	MULTI-DOPED BIOMIMETIC APATITES WITH ENHANCED ANTIBACTERIAL AND OSTEOGENIC PROPERTIES	271

S 05 - CALCIUM PHOSPHATES 3 - 17:00-18:00

Chair: Maria Antonia Sainz, Angel Caballero

Time	Name	Title	ID Abs
17:00 17:30	Maria-Pau Ginebra <i>Invited Lecture</i>	IN VIVO AND IN VITRO DEGRADATION OF CALCIUM PHOSPHATES: EFFECT OF MULTISCALE POROSITY, TEXTURAL PROPERTIES AND COMPOSITION	615
17:30 17:45	Nikolai Orlov	SINTERING OF SODIUM AND POTASSIUM TCP BASED CERAMIC FOR BONE GRAFTING APPLICATION	318
17:45 18:00	Sophie Guillou	IMPACT OF THE CARBONATION REACTION ON THE HYDROXYAPATITE SINTERABILITY	581
18:00 18:15	Veronica Muller	DESIGN OF CALCIUM PHOSPHATE COATINGS FOR BIOMEDICAL APPLICATIONS USING THE ELECTROSTATIC SPRAY DEPOSITION TECHNIQUE.	353

S 06 - PHOTOVOLTAICS - 08:30-10:30			
Chair: Olivier Guillon			
Time	Name	Title	ID Abs
08:30 09:00	Joe Briscoe <i>Invited Lecture</i>	NANOSTRUCTURED OXIDE THIN FILMS FOR ENERGY HARVESTING	777
09:00 09:15	Jerry Wu	ENHANCING PHOTOCATALYTIC HYDROGEN EVOLUTION PERFORMANCE USING MoS ₂ /GRAPHENE HYBRIDS	45
09:15 09:30	Memnune Kardes	INFLUENCE OF SEED LAYER MODIFICATION WITH RGO AND ANNEALING CONDITIONS OF ZnO NANOROD ARRAYS ON MORPHOLOGICAL AND PHOTOCATALYTIC PROPERTIES	513
09:30 09:45	Endre Horvath	CLEANING WITH PHOTONS: NANOPOROUS, FLEXIBLE TITANIA FILTERS FOR SUSTAINABLE WATER STERILIZATION	551
09:45 10:00	Shahab Khameneh Asl	EFFECT OF PROCESS PARAMETERS ON THE MICROSTRUCTURE AND EFFICIENCY OF A TUBULAR ALUMINA CATALYST DOPED BY PLATINUM	505
10:00 10:15	Armin Feldhoff	TRIPLE-PHASE CERAMIC 2D NANOCOMPOSITE WITH ENHANCED THERMOELECTRIC POWER FACTOR AND ITS APPLICATION IN THERMOGENERATORS	652
10:15 10:30			

S 06 - SOEC - 11:00-13:00			
Chair: Young-Wook Kim			
Time	Name	Title	ID Abs
11:00 11:30	Mihails Kusnezoff <i>Invited Lecture</i>	PERFORMANCE OF CERAMIC MATERIALS FOR FUEL CELL AND CO-ELECTROLYSIS OPERATION OF SOLID OXIDE CELLS	462
11:30 11:45	David Udomsilp	SOLID OXIDE ELECTROLYSIS CELLS - DEGRADATION PHENOMENA, ISSUES ADDRESSED AND FUTURE PROSPECTS	102
11:45 12:00	Ryszard Kluczewski	APPLICATION OF DIFFERENT MATERIALS FOR LAYERS OF ANODE SUPPORTED SOLID OXIDE FUEL CELLS PREPARED USING LARGE-SCALE CAPABLE PRODUCTION METHODS	489
12:00 12:15	Victor Zapata	DEVELOPMENT AND CHARACTERIZATION OF Co- AND Mo-DOPED SrFeO _{3-δ} PEROVSKITES FOR REVERSIBLE SOLID OXIDE CELLS	20

S 06 - SOEC			
Time	Name	Title	ID Abs
12:15 12:30	Ilaria Ritucci	LONG-TERM STABILITY OF GLASS-CERAMIC SEALANTS FOR SOLID OXIDE CELLS AT RELEVANT CONDITIONS.	245
12:30 12:45	Agnieszka Zurawska	CHARACTERISATION OF SOFC-DEDICATED GLASS-CERAMIC SEALS COMPOSED WITH THE USE OF RECYCLED MATERIALS	3
12:45 13:00	Stefano De La Pierre	TORSION TEST OF JOINED SOLID OXIDE FUEL CELL COMPONENTS AT ROOM AND HIGH TEMPERATURE	692

S 06 - SOFC/HIGH TEMPERATURE - 14:30-16:30			
Chair: Michael Cinibulk			
Time	Name	Title	ID Abs
14:30 14:45	Peyman Khajavi	ENHANCING THE MECHANICAL PROPERTIES AND AGING STABILITY OF ZIRCONIA BASED SOLID OXIDE FUEL AND ELECTROLYSIS CELLS SUPPORTS	507
14:45 15:00	Edward Sabolsky	EFFICIENT AND CONTROLLED NANO-CATALYST SOLID-OXIDE FUEL CELL ELECTRODE INFILTRATION ASSISTED WITH CATECHOL SURFACTANTS	226
15:00 15:15	Massimo Rosa	CONTINUOUS SYNTHESIS OF 2D HYDROXIDES FOR DIRECT PRINTING OF OER CATALYSTS	237
15:15 15:30	Ali Akbari-Fakhrabadi	IMPRESSION CREEP BEHAVIOR OF (La _{0.6} Sr _{0.4}) _{1-x} Co _{0.2} Fe _{0.8} O _{3-δ}	855
15:30 15:45	Manuel Grudenik	INVESTIGATING THE AGING EFFECTS OF FORSTERITE FOR SOLID OXIDE FUEL CELL APPLICATION	587
15:45 16:00	Daniel Kramer	ENHANCED CERAMIC PROCESSING SURROGATES FOR RADIOISOTOPE POWER SYSTEM (RPS) FUEL PELLETS BASED ON MIXED ALUMINA/CERIA COMPOSITIONS	475
16:00 16:15	Yuliya Bepalko	PREPARATION AND CHARACTERIZATION OF PROTON-CONDUCTING MATERIALS BASED ON LANTHANUM NIOBATES FOR HYDROGEN SEPARATION MEMBRANES	808

S 06 - HIGH TEMPERATURE - 17:00-18:00			
Chair: Michael Reece			
Time	Name	Title	ID Abs
17:00 17:30	Michael Cinibulk <i>Invited Lecture</i>	CONSTITUENT DEVELOPMENT FOR HIGHER-TEMPERATURE CAPABLE CERAMIC MATRIX COMPOSITES	726
17:30 17:45	Robert Vaßen	PERFORMANCE OF THERMAL BARRIER COATINGS PRODUCED WITH AXIAL SUSPENSION PLASMA SPRAYING	88
17:45 18:00	Etienne Sabarthes	ULTRALOW THERMAL CONDUCTIVITY OF $(La_{1-x}Pr_x)Mo_2O_9$ DENSE CERAMICS	227
18:15 18:30	Lucie Tabard	ADDITIVE MANUFACTURING OF ZIRCONIA SCAFFOLD FOR HEAT STORAGE APPLICATION	143
18:30 18:45	Robert Pullar	BIOMIMETIC 3-DOM CERIA ECOCERAMICS FROM SUSTAINABLE CORK TEMPLATES FOR SOLAR THERMOCHEMICAL CO_2 SPLITTING	267

S 07 - NON-LINEAR RESISTORS & MAGNETIC CERAMICS - 08:30-10:30			
Chairs: Jörg Töpfer, Hans-Joachim Kleebe			
Time	Name	Title	ID Abs
08:30 08:45	Vojislav Mitic	$BaTiO_3$ -CERAMICS ELECTRORESISTIVITY AND HAYWANG INTERGRANULAR CAPACITY FRACTALS MODEL	882
08:45 09:00	Yumeng Zheng	IMPROVEMENT IN ELECTRICAL DEGRADATION AND STABILITY OF ZINC OXIDE VARISTORS WITH BORON OXIDE ADDITIVES	8
09:00 09:15	Hans-Joachim Kleebe	DISLOCATION NETWORK AS MECHANISM FOR RETAINING BISMUTH AT (0001) INVERSION BOUNDARIES IN PIEZOTRONIC ZnO BICRYSTALS	894
09:15 09:30	Angelica Baldini	ENHANCED MAGNETIC PROPERTIES IN BULK CERAMIC NANOSTRUCTURED COBALT FERRITES	926
09:30 09:45	Jesus Guzman Minguez	IMPROVING STATE-OF-THE-ART STRONTIUM FERRITE MAGNETS: STRATEGIES TO OPTIMIZE MAGNETIC AND MICROSTRUCTURAL PROPERTIES	908
09:45 10:00	Petra Jenus	ANISOTROPIC FERRITE-BASED HYBRID MAGNETS CONSOLIDATED BY SPARK PLASMA SINTERING: TOWARDS RARE-EARTH-FREE MAGNETS FOR ENERGY STORAGE	899
10:00 10:15	Jörg Töpfer	M- AND W-TYPE HEXAGONAL FERRITES AS PERMANENT MAGNETS OR MICROWAVE MATERIALS	104
10:15 10:30	Niousha Varastegani	THE EFFECTS OF BISMUTH OXIDE DOPING ON ELECTRICAL PROPERTIES OF MAGNESIUM FERRITE SINTERED BODIES	865

S 07 - ACTIVE & PASSIVE TRANSPARENT CERAMICS 1 - 11:00-13:00

Chair: Dusan Galusek

Time	Name	Title	ID Abs
11:00 11:30	Rémy Boulesteix <i>Invited Lecture</i>	MANUFACTURING PROCESSES OF RARE-EARTH OXIDES TRANSPARENT CERAMICS FOR HIGH POWER LASER APPLICATIONS	786
11:30 11:45	Zoltan Lences	PREPARATION OF TRANSPARENT/TRANSLUCENT SPINEL-BASED PHOSPHORS	889
11:45 12:00	Lucas Viers	SINTERING OF HOLMIUM-DOPED LUTETIUM OXIDE BY SPARK PLASMA SINTERING FOR HIGH POWER LASERS AMPLIFICATION IN mid-IR	80
12:00 12:15	Anastasiia Vornovskikh	EVALUATION OF THE RESIDUAL POROSITY OF TRANSPARENT MATERIALS	68

S 07 - ACTIVE & PASSIVE TRANSPARENT CERAMICS 1			
Time	Name	Title	ID Abs
12:15 12:30	Vincenzo Buscaglia	THE INFLUENCE OF POLAR ORDER ON THE PHOTOLUMINESCENCE OF $\text{Eu:BaZr}_x\text{Ti}_{1-x}\text{O}_3$ CERAMICS	772
12:30 12:45	Jan Hostasa	FABRICATION AND LUMINESCENCE OF CE-DOPED GALLIUM GADOLINIUM ALUMINUM GARNET TRANSPARENT CERAMICS MADE BY TWO-STEP REACTION SINTERING	904

S 07 - ACTIVE & PASSIVE TRANSPARENT CERAMICS 2 - 14:30-16:30

Chair: Rémy Boulesteix

Time	Name	Title	ID Abs
14:30 14:45	Hui Lin	PREPARATION OF Ce^{3+} AND Eu^{2+} ACTIVATED CERAMIC PHOSPHORS BY PRESSURE-LESS SINTERING	887
14:45 15:00	Rocio Rojas Hernandez	$\text{SrAl}_2\text{O}_4\text{:Eu,Dy}$ -SCREEN-PRINTED LAYERS TO CREATE PHOSPHORESCENT 2D SHAPES	875
15:00 15:15	Sirous Khabbaz Abkenar	EFFECT OF BORON ON MICROSTRUCTURAL EVOLUTION DURING CRYSTALLIZATION OF LONG AFTERGLOW STRONTIUM ALUMINATE COMPOUNDS	896
15:15 15:30	Cleva Ow-Yang	ATOMIC RESOLUTION STEM IMAGING OF RARE-EARTH DOPANT NANOCLUSTERS IN LONG AFTERGLOW STRONTIUM ALUMINATE PHOSPHORS	881
15:30 15:45	Dusan Galusek	TRANSPARENT MAGNESIUM ALUMINATE SPINEL: EFFECT OF CRITICAL TEMPERATURE IN TWO-STAGE SPARK PLASMA SINTERING	626
15:45 16:00	Ha-Neul Kim	MICROSTRUCTURAL EVOLUTION AND RELEVANT MECHANICAL PROPERTIES OF TRANSPARENT AI-RICH MAGNESIUM ALUMINATES	500
16:00 16:15	Sebastian Von Helden	MECHANICAL PROPERTIES, WEAR RESISTANCE AND SURFACE DAMAGE OF GLASSES AND MgAl_2O_4 SPINEL CERAMIC AFTER ABRASION AND SCRATCH EXPOSURE	69
16:15 16:30	Lucjan Kozielski	ENHANCED ELECTROMECHANICAL RESPONSE IN RARE-EARTH-SUBSTITUTED $\text{Bi}_4\text{Ti}_3\text{O}_{12}$ - BiFeO_3 PIEZOELECTRIC CERAMICS	891

S 07 - ACTIVE & PASSIVE TRANSPARENT CERAMICS 3 - 17:00-18:00			
Chair: Luis Carlos			
Time	Name	Title	ID Abs
17:00 17:15	Stefanie Hildebrandt	FABRICATION OF THIN TRANSPARENT CERAMICS FROM THIN GREEN BODIES	924
17:15 17:30	Jan Werner	FABRICATION OF TRANSPARENT CERAMIC OPTICAL COMPONENTS (MICRO LENSES, MICRO PRISMS, FRESNEL ZONE PLATES) VIA LOW PRESSURE INJECTION MOLDING	861
17:30 17:45	Marian Janek	SPECTROSCOPIC AND TERAHERTZ RESPONSE OF $\text{Er}^{3+}/\text{Yb}^{3+}$ DOPED $\text{La}_2\text{Zr}_2\text{O}_7$ CERAMICS	901

S 08 - GLASSES AND GLAZES - 08:30-10:30			
Chair: Cristina Siligardi			
Time	Name	Title	ID Abs
08:30 09:00	Janusz Partyka <i>Invited Lecture</i>	THE IMPACT OF MOLAR RATION OF $\text{SiO}_2/\text{Al}_2\text{O}_3$ ON STRUCTURE AND TECHNOLOGICAL PROPERTIES OF LIME-ALKALINE GLAZES	301
09:00 09:30	Kevin Knowles <i>Invited Lecture</i>	MICROSTRUCTURAL ANALYSIS OF SALT-GLAZED POTTERY	487
09:30 09:45	Karolina Kaczmarczyk	THE EFFECT OF $\text{Na}_2\text{O}/\text{K}_2\text{O}$ MOLAR RATIO ON SELECTED PARAMETERS OF GLASS-CERAMIC GLAZES IN PRESENCE OF CaO AND MgO	520
09:45 10:00	Thomas Kronberg	PROPERTIES OF RAW GLAZES CONTAINING DOLOMITE AND WOLLASTONITE	470
10:00 10:15	Janusz Partyka	THE INFLUENCE OF THE AMOUNT OF ZIRCONIUM OXIDE ADDED, ON SELECTED THERMAL PARAMETERS OF GLAZES FROM THE $\text{SiO}_2\text{-Al}_2\text{O}_3\text{-CaO-MgO-Na}_2\text{O-K}_2\text{O}$ SYSTEM, WITH A VARIABLE MOLAR RATIO OF ALKALI OXIDES ($\text{Na}_2\text{O}/\text{K}_2\text{O}$)	300
10:15 10:30	Enrico Bernardo	WASTE-DERIVED GLASS-CERAMICS FIRED IN NITROGEN: STABILIZATION AND FUNCTIONALIZATION	811

S 08 - GEOPOLYMERS AND CEMENTS 1 - 11:00-13:00			
Chair: Giuseppina Roviello			
Time	Name	Title	ID Abs
11:00 11:30	Gregor Gluth <i>Invited Lecture</i>	ONE-PART ALKALI-ACTIVATED MATERIALS WITH HIGH SULFURIC ACID RESISTANCE	611
11:30 11:45	Yasemin Akyol	ACTIVATING SCHIST TYPE MATERIALS AS A CEMENT SUBSTITUTION	850
11:45 12:00	Julien Archez	MODIFICATION OF THE GEOPOLYMERS VISCOSITY AND MECHANICAL PROPERTIES	835
12:00 12:15	Ugo De Filippis	INFLUENCE OF ACTIVATOR RATIO ON THE HYDRATION PROCESS OF GROUNDED BLAST FURNACE SLAG	693
12:15 12:30	Isabella Lancellotti	POTENTIAL OF SEVERAL WASTES SUCH AS BLAST FURNACE AND LADLE SLAGS FOR THE FORMULATION OF ALKALI ACTIVATED COMPOSITIONS	452
12:30 12:45	Kaze Rodrigue Cyriaque	DEVELOPING ALTERNATIVE GEOMATERIALS USING LATERITES FROM CAMEROON: REACTIVITY AND MECHANICAL PROPERTIES	241
12:45 13:00	Svetlana Petlitckaia	DEVELOPMENT OF AN INNOVATE FIRE RESISTANT GEOPOLYMER BINDER	287

S 08 - GEOPOLYMERS AND CEMENTS 2 - 14:30-16:45			
Chair: Gregor Gluth			
Time	Name	Title	ID Abs
14:30 15:00	Giuseppina Roviello <i>Invited Lecture</i>	GEOPOLYMER BASED HYBRID MATERIALS: STATE OF THE ART AND PERSPECTIVES	234
15:00 15:15	Sitthisak Prasphan	COMPRESSIVE PROCESSING OF CLAY RESIDUE-BASED GEOPOLYMERS: INFLUENCE OF THE $\text{Na}_2\text{SiO}_3/\text{NaOH}$ RATIOS ON COMPRESSIVE STRENGTH AND MICROSTRUCTURE	273
15:15 15:30	Stefania Manzi	MODE-I FRACTURE TESTING OF ALKALI ACTIVATED MATERIALS	404
15:30 15:45	Pozhhan Mokhtari	LOW COST SUPPLEMENTARY CEMENTITIOUS MATERIALS FOR NEW GENERATION COMPOSITE CEMENT	371
15:45 16:00	Rui Novais	EXTREMELY LIGHT AND LOW THERMAL CONDUCTIVITY CORK-GEOPOLYMER COMPOSITES: A SUSTAINABLE MATERIAL TO ENHANCE BUILDINGS' ENERGY PERFORMANCE	327
16:00 16:15	Ilknur Kara	SILVER DOPED GEOPOLYMER AND ITS DISSOLUTION BEHAVIOUR	516
16:15 16:30	Katja Traven	IN SITU FOURIER-TRANSFORM INFRARED SPECTROSCOPY EVALUATION OF FLY ASH BASED ALKALI ACTIVATED MATERIALS WITH DIFFERENT TYPE AND AMOUNT OF PRECURSORS	113
16:30 16:45	Kurt Strecker	LOW-DENSITY GEOPOLYMER COMPOSITES THROUGH THE INCORPORATION OF EXPANDED POLYSTYRENE	156

S 09 - ARCHAEOLOGICAL CERAMICS AND GLASS 1 - 08:30-10:30			
Chair: Celestino Grifa			
Time	Name	Title	ID Abs
08:30 09:00	Lara Maritan <i>Invited Lecture</i>	ARCHAEO-CERAMIC 2.0: INVESTIGATING ANCIENT CERAMICS USING MODERN TECHNOLOGICAL APPROACHES	399
09:00 09:15	Elisa Sartori	THE GLAZED POTTERY "TIPO SARSINA": A PARTICULAR LATE-ROMAN POTTERY PRODUCTION	203
09:15 09:30	Yang Liu	RELEVANT RESEARCH ON THE CERAMIC CARGOES IN WANLI SHIPWRECK	426
09:30 09:45	Valentina Cannavò	NEW ATLAS OF PREHISTORIC CERAMIC FABRICS	759
09:45 10:00	Lucilla Fabrizi	THE RED SLIP WARE, A TECHNOLOGICAL FINGERPRINT ACROSS MEDITERRANEAN AREA	658
10:00 10:15	Letizia Ceccarelli	IMPERIAL AND LATE ANTIQUE CERAMIC PRODUCTION TECHNOLOGY AT MONTELABATE IN THE UPPER TIBER VALLEY	749

S 09 - ARCHAEOLOGICAL CERAMICS AND GLASS 2 - 11:00-13:00			
Chair: Luca Bochicchio			
Time	Name	Title	ID Abs
11:00 11:15	Alberto De Bonis	CERAMIC PRODUCTION IN THE PLAIN OF PAESTUM (ITALY): FIRST RESULTS OF AN INTERDISCIPLINARY PROJECT	694
11:15 11:30	Chiara Germinario	USING CERAMIC REPLICAS TO UNDERSTAND ANCIENT TECHNOLOGY: NEW INSIGHTS ON THE CERAMIC PRODUCTION OF VIA DEI SEPOLCRI WORKSHOP, POMPEII	619
11:30 11:45	Carla Del Vais	PUNIC BLACK GLAZED POTTERY FROM THARROS AND OLBIA (SARDINIA): LOCAL PRODUCTIONS AND IMPORTATIONS	688
11:45 12:00	Giulia Franceschin	OXIDATION STATE ANALYSIS AND PHASE DISTRIBUTION IN ANCIENT CHINESE CERAMICS USING FULL FIELD X-RAY ABSORPTION SPECTROSCOPY	644
12:00 12:15	Klaus G. Nickel	TOWARDS A FRACTURE MECHANICAL EVALUATION OF THE KNAPPING QUALITY OF STONE TOOL MATERIALS	936

S 09 - GLAZED CERAMIC OBJECTS AND GLAZED TILES - 14:30-16:30			
Chair: Klaus G. Nickel			
Time	Name	Title	ID Abs
14:30 15:00	Sabrina Gualtieri <i>Invited Lecture</i>	RECOVERY, RESTORATION AND CHARACTERIZATION OF A NUCLEUS OF PORCELAINS FROM THE GINORI MANUFACTURE IN DOCCIA, BELONGING TO MIC FAENZA	388
15:00 15:15	Elena Mercedes Perez-Monserrat	MULTIANALYTICAL STUDY OF GLAZED CERAMICS: TECHNOLOGICAL AND HERITAGE APPLICATIONS	291
15:15 15:30	Tugce Akkas	BLUE PRINT MONOGRAPHIC PROGRAMME: CHARACTERIZATION OF ANCIENT CHINESE CERAMICS	852
15:30 15:45	Burcu Kirmizi	A POTENTIAL METHOD OF GLAZED POTTERY DATING/AUTHENTICATION USING THE RAMAN SIGNATURE OF PROTONIC SPECIES	492
15:45 16:00	Gulsu Simsek	ON-SITE PORTABLE X-RAY FLUORESCENCE ANALYSIS OF IZNIK TILES AT EDIRNE AND IN THE EXCAVATION SITE OF IZNIK KILNS	177
16:00 16:15	Paola Calicchia	GLAZED CERAMIC TILES: LABORATORY TESTS USING CONTACTLESS VIBRO-ACOUSTIC DIAGNOSTIC TOOLS TO REVEAL GLAZE DELAMINATION DECAY PROCESSES	763

SYMPOSIUM 09 - 17:00-18:00			
Chair: Alberto de Bonis			
Time	Name	Title	ID Abs
17:00 17:15	Emmie Beauvoit	INDUSTRIAL PRODUCTION OF WHITE EARTHENWARE IN THE JOHNSTON-VIEILLARD MANUFACTORY (19 th CENTURY): RECIPES EVOLUTION AND PRODUCTION STRATEGIES	818
17:15 17:30	Maria Letizia Amadori	INTEGRATED ANALYTICAL TECHNIQUES ON POLYCHROME GLAZED TERRACOTTA FROM THE FRIEZE OF THE "SPEDALE DEL CEPPO" IN PISTOIA	845
17:30 17:45	Rosarosa Manca	AUTHENTICATION STUDY OF MAIOLICA FROM THE MUSEO NAZIONALE DEL BARGELLO, FLORENCE (ITALY): THE POSSIBLE CONTRIBUTION OF NON-INVASIVE ARCHAEOOMETRIC ANALYSES	406
17:45 18:00	Marika Mangosio	THE LITHOCERAMIC CLADDING OF THE MODERN MOVEMENT ARCHITECTURE IN ITALY: AN UNCERTAIN FUTURE	945



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