



## Monday, 11 May

8am **Registration**

8:45am **Opening of yCAM 2026**

Chaired by: Anna De Marzi and Dr. Johanna Mueller Elmau and Sarah Diener

9am **Applications I**

9am **Additive Manufacturing of Ceramics for Dental and Biomedical Applications – current status and future perspectives**

» [Dr. Franziska Schmidt](#)<sup>1</sup> (1. Department of Prosthodontics, Geriatric Dentistry and Craniomandibular Disorders, Charité-Universitätsmedizin Berlin, Berlin, Germany)

9:30am **Biomedical Breakthrough : Revolutionising Spinal Fusion Surgeries**

» [Mr. Charlie Clark](#)<sup>1</sup>, [Ms. Ameneh Sadeghpour](#)<sup>2</sup> (1. 3D Ceram, 2. Allegra Medical Technologies)

9:50am **In vitro model fabrication using VAT and DIW: optimization of rheology across additive manufacturing processes**

» [Dr. Mathilde Maillard](#)<sup>1</sup>, [Ms. Lina Machkour](#)<sup>1</sup>, [Mr. Harish Swaminathan](#)<sup>2</sup>, [Ms. Flora Navaux](#)<sup>1</sup>, [Prof. Nicolas Blanchemain](#)<sup>1</sup>, [Dr. Pauline Lecomte-Grosbras](#)<sup>3</sup>, [Dr. Antonia Ressler](#)<sup>2</sup> (1. University of Lille, INSERM, CHU Lille, U1008, F-59000 Lille, France, 2. Materials Science and Environmental Engineering, Faculty of Engineering and Natural Sciences, Tampere University (TAU), Korkeakoulunkatu 6, P.O. Box 589, Tampere, 33014, Pirkanmaa, Finland, 3. Univ. Lille, CNRS, Centrale Lille, UMR 9013 - LaMcube - F-59000, Lille, France)

10:10am **Coffee Break**

10:50am **Applications II**

10:50am

**Off-Earth Resource Utilisation: Harnessing Space Clays for Ceramic Processing and Additive Manufacturing**

» [Dr. David Karl](#)<sup>1</sup> (1. Technische Universität Berlin)

11:20am

**Effects of sintering temperature on density, mechanical properties and cell proliferation of hydroxyapatite scaffolds produced by vat photopolymerization**

» [Mr. Giorgio Goretti](#)<sup>1</sup>, [Ms. Sarah Larroudé](#)<sup>2</sup>, [Ms. Leire Viana](#)<sup>3</sup>, [Prof. Pasquale Vena](#)<sup>3</sup>, [Prof. Jonathan Massera](#)<sup>2</sup>, [Dr. Martin Schwentenwein](#)<sup>1</sup> (1. Lithoz GmbH, 2. Tampere University, 3. Politecnico di Milano)

11:40am

**Beyond planar electrolytes – opening up new dimensions in solid oxide cells through additive manufacturing**

» [Mr. Sayan Chattopadhyay](#)<sup>1</sup>, [Dr. Andreas Egger](#)<sup>1</sup>, [Mr. Arijit Jana](#)<sup>1</sup>, [Dr. Josef Schlacher](#)<sup>1</sup>, [Mr. Thomas Prochaska](#)<sup>2</sup>, [Dr. Martin Schwentenwein](#)<sup>2</sup>, [Prof. Raul Bermejo](#)<sup>1</sup>, [Prof. Edith Bucher](#)<sup>1</sup> (1. Montanuniversität Leoben, 2. Lithoz GmbH)

12pm

**Lunch**

1pm

**Vat Photopolymerization I**

1pm

**Photocurable Sol-Gel Formulation for the Fabrication of Silicon Carbide/Carbon Nanocomposite via Digital Light Processing**

» [Mr. Luca Avanzi](#)<sup>1</sup>, [Prof. Giorgia Franchin](#)<sup>1</sup>, [Dr. Sara Carturan](#)<sup>2</sup>, [Dr. Michele Ballan](#)<sup>3</sup>, [Dr. Stefano Corradetti](#)<sup>3</sup>, [Prof. Mattia Manzolaro](#)<sup>3</sup>, [Prof. Paolo Colombo](#)<sup>1</sup> (1. Department of Industrial Engineering, University of Padova, 2. Dipartimento di Fisica e Astronomia, University of Padova, 3. Istituto Nazionale di Fisica Nucleare - INFN LNL)

1:20pm

**Additive Manufacturing of AlN Ceramics for Thermal Management Applications**

» [Dr. Vahid Nekouie](#)<sup>1</sup>, [Ms. Maral Afshar](#)<sup>2</sup> (1. Sheffield Hallam University, 2. PhD researcher)



Continued from **Monday, 11 May**

1:40pm

**Additive Manufacturing of Bioceramics: Mg-Doped Biphasic Calcium Phosphates**

» [Mr. Vincent Gillet](#)<sup>1</sup>, Dr. Marie Lasgorceix<sup>2</sup>, Dr. Florian Jean<sup>2</sup>, Dr. Stéphane Hocquet<sup>3</sup>, Dr. Somers Nicolas<sup>4</sup>, Prof. Anne Leriche<sup>2</sup> (1. CERAMATHs, Université Polytechnique Hauts-de-France & BCRC - Belgian Ceramic Research Centre, 2. CERAMATHs, Université Polytechnique Hauts-de-France, 3. BCRC, Belgian Ceramic Research Centre, 4. University of Liège)

2pm

**High Resolution Digital Light Processing of Reactive Ceramic-Polymer Scaffolds**

» [Mr. Roberto Fagotto-Clavijo](#)<sup>1</sup>, Prof. MARIA PAU GINEBRA MOLINS<sup>2</sup>, Dr. Anna Díez-Escudero<sup>1</sup> (1. Biomaterials, Biomechanics and Tissue Engineering (BBT), 2. Polytechnic University of Catalonia)

2:20pm

**Towards Optimal Bone Regeneration: Scaled-Up Bioactive Glass Production for Additive Manufacturing of amorphous 3D parts by DLP**

» [Mr. Guillaume Marchal](#)<sup>1</sup>, Dr. Somers Nicolas<sup>1</sup>, Dr. Frederic Boschini<sup>1</sup>, Prof. Rudi Cloots<sup>1</sup> (1. University of Liège)

2:40pm

**Poster Session I + Coffee Break**

**Stereolithography-Printed TiO<sub>2</sub>-Resin Composites for Photocatalytic Degradation of Pharmaceuticals**

» [Ms. Paola Grobrenski](#)<sup>1</sup>, Mr. Karlo Cahun<sup>2</sup>, Dr. Lidija Čurković<sup>1</sup> (1. Faculty of Mechanical Engineering and Naval Architecture, University of Zagreb, 2. 3Dtech d.o.o., Zagreb)

**Vat photopolymerization of preceramic polysiloxanes towards SiOC ceramics with varying carbon content**

» [Ms. Angelina Pronina](#)<sup>1</sup>, Prof. Thomas Konegger<sup>1</sup> (1. TU Wien, Institute of Chemical Technologies and Analytics)

**Lithography-based Ceramic Additive Manufacturing of 2Y-TZP Zirconia Dental Ceramics**

» [Ms. Tjaša Okleščič](#)<sup>1</sup>, Ms. Anna Leibold<sup>2</sup>, Dr. Martin Schwentenwein<sup>2</sup>, Prof. Andraž Kocjan<sup>1</sup>, Prof. Peter Jevnikar<sup>3</sup> (1. Jožef Stefan Institute (JSI), Ljubljana, Slovenia, 2. Lithoz GmbH, 3. Faculty of Medicine, University of Ljubljana)

**Additive manufacturing of acid-activated gopolymer adsorbents for heavy metal adsorption**

» [Ms. Mariana Almeida](#)<sup>1</sup>, Dr. Nuno Gonçalves<sup>1</sup>, Dr. Rui Novais<sup>1</sup> (1. University of Aveiro)

**Biocompatible Ceramic-Polymer Composite Scaffolds Fabricated by DLP Using Natural Hydroxyapatite**

» [Ms. Liana Mkhitarjan](#)<sup>1</sup>, Ms. Lilit Baghdasaryan<sup>1</sup>, Ms. Viktoriya Rstakyan<sup>1</sup>, Prof. Miguel Angel Rodriguez Barbero<sup>2</sup> (1. A.B. Nalbandyan Institute of Chemical Physics, NAS RA, 2. Instituto de Cerámica y Vidrio)

**Multimaterial 3D printing of bioceramics**

» [Dr. Přemysl Štátný](#)<sup>1</sup>, Ms. Vendula Korábová<sup>2</sup>, Mrs. Eliška Šiška Virágová<sup>1</sup>, Prof. Aleš Hampl<sup>3</sup>, Dr. Leoš Benák<sup>3</sup>, Prof. Klára Částková<sup>4</sup> (1. CEITEC BUT, 2. Brno University of Technology, 3. Masaryk University, Department of Histology and Embryology, 4. Ceitec VUT)

**Lead-free piezoelectric parts: BaTiO<sub>3</sub> shaping through VAT photopolymerization and Laser Powder Bed Fusion**

» [Mrs. Margaud Rivière](#)<sup>1</sup>, Dr. Prescillia Lagarrigue<sup>1</sup>, Dr. David Grossin<sup>2</sup>, Dr. Sophie Guillemet-Fristch<sup>1</sup> (1. CIRIMAT, Univ. Toulouse, Toulouse INP, CNRS, 2. CIRIMAT, Toulouse INP, Université de Toulouse, CNRS, 4 Allée Emile Monso, 31030 Toulouse cedex 4 - France)

**Digital Light Processing of Zirconia-Based Ceramics with Tailored Porosity Gradients**

» [Mrs. Darya Farrokhnemoun](#)<sup>1</sup>, Prof. Jozef Vleugels<sup>1</sup>, Prof. Bart Van Meerbeek<sup>1</sup>, Prof. Annabel Braem<sup>1</sup> (1. KU Leuven)

**Vat photopolymerization of lunar regolith ceramic casting molds for hybrid fabrication of metal parts on the Moon**

» [Dr. Maxim Isachenkov](#)<sup>1</sup>, Mr. Masoud Sadeghi<sup>2</sup>, Dr. Antonio Mattia Grande<sup>1</sup> (1. Politecnico di Milano, 2. Kong)



Continued from Monday, 11 May

**Precision-optimized DLP 3D printing and mechanical performance of ultra-thin zirconia dental veneers**

» [Dr. Wuyuan Zhao](#)<sup>1</sup>, Prof. James Tsoi<sup>1</sup> (1. The University of Hong Kong)

**Fracture toughness and flexural strength of 3D-printed HA/Al<sub>2</sub>O<sub>3</sub> composites reinforced with 'plate-like' particles**

» [Ms. Eliska Siska Viragova](#)<sup>1</sup>, Dr. Přemysl Šťastný<sup>1</sup>, Dr. Zdenek Chlup<sup>2</sup>, Prof. Klára Částková<sup>3</sup> (1. CEITEC BUT, 2. IPM CAŠ, 3. Ceitec VUT)

**Merwinite Scaffolds with Tailored Architecture and Antibacterial Functionality Fabricated by Robocasting**

» [Ms. Gabriela Ionita](#)<sup>1</sup>, Dr. Cristina BUSUIOC<sup>1</sup>, Ms. Maria Eliza Puscasu<sup>1</sup> (1. Faculty of Chemical Engineering and Biotechnology, National University of Science and Technology Politehnica Bucharest, 1-7 Gh. Polizu Street, 011061, Bucharest, Romania)

**LSD-print of multicolored dental restorations by zirconia**

» [Ms. Janett Hilgenfeld](#)<sup>1</sup>, Dr. Andrea Zocca<sup>1</sup>, Dr. Thomas Mühler<sup>2</sup>, Ms. Julia Kubitz<sup>2</sup> (1. Bundesanstalt für Materialforschung und -prüfung, 2. QEP 3D)

**Direct Ink Writing of Ni $\gamma$ -Al<sub>2</sub>O<sub>3</sub> catalysts for CO<sub>2</sub> methanation**

» [Mr. SEYED ALI RAZAVI](#)<sup>1</sup>, Prof. GEMMA FARGAS RIBAS<sup>1</sup>, Ms. TANIA VILELLA<sup>1</sup>, Mrs. ISABEL SERRANO<sup>1</sup>, Dr. MIGUEL LAGUNA-BERCERO<sup>2</sup>, Prof. LUIS MIGUEL LLANES PITARCH<sup>1</sup>, Dr. DANIEL RODRIGUEZ<sup>1</sup>, Prof. MARIA PAU GINEBRA MOLINS<sup>1</sup>, Prof. JORDI LLORCA<sup>1</sup>, Dr. MIGUEL MORALES COMAS<sup>1</sup> (1. Polytechnic University of Catalonia, 2. Universidad de Zaragoza)

**Robocasting of Akermanite Based Scaffolds for Bone Tissue Grafting**

» [Mrs. Maria Eliza Puscasu](#)<sup>1</sup>, Mr. Alexandru-Marian IVAN<sup>2</sup>, Dr. Cristina BUSUIOC<sup>1</sup> (1. Faculty of Chemical Engineering and Biotechnology, National University of Science and Technology Politehnica Bucharest, 1-7 Gh. Polizu Street, 011061, Bucharest, Romania, 2. Faculty of Medical Engineering, National University of Science and Technology Politehnica Bucharest, 1-7 Gh. Polizu Street, 011061, Bucharest, Romania)

**ADDITIVE MANUFACTURING OF ZIRCONIA-BASED GYROID STRUCTURES BY VAT PHOTOPOLYMERIZATION**

» [Mr. Cristian Leonardo Franco Gallo](#)<sup>1</sup>, Ms. Lisbeth Cot I Vela<sup>1</sup>, Prof. GEMMA FARGAS RIBAS<sup>2</sup>, Dr. MIGUEL MORALES COMAS<sup>2</sup>, Prof. LUIS MIGUEL LLANES PITARCH<sup>2</sup> (1. Universitat Politècnica de Catalunya, 2. Polytechnic University of Catalonia)

**Vat photopolymerisation of porous bone scaffolds based on bioinert and bioactive ceramics**

» [Dr. Andrey Tikhonov](#)<sup>1</sup>, Mr. Elias Tefera<sup>1</sup>, Dr. Svyatoslav Chugunov<sup>1</sup> (1. Skolkovo Institute of Science and Technology)

**Direct Ink Written Carbon-Regulated SiOC Ceramic Architectures for X-Band Electromagnetic Absorption**

» [Dr. Heqiang Liu](#)<sup>1</sup> (1. Department of Industrial Engineering, University of Padova)

**Effect of talc as a sintering additive on the properties of hydroxyapatite-based composites for biomedical scaffolds**

» [Mr. Roman Fialka](#)<sup>1</sup>, Dr. Zuzana Varchulová Nováková<sup>2</sup>, Dr. Zdenek Chlup<sup>3</sup>, Dr. Ida Vašková<sup>4</sup>, Dr. Peter Veteska<sup>1</sup>, Dr. Ľuboš Danišovič<sup>2</sup>, Dr. Peter Peciar<sup>5</sup>, Dr. Ľuboš Bača<sup>1</sup>, Prof. Marián Janek<sup>1</sup> (1. Department of Inorganic Materials, Faculty of Chemical and Food Technology, Slovak University of Technology, 2. Institute of Medical Biology, Genetics and Clinical Genetic, Faculty of Medicine, Comenius University, 3. IPM CAS, 4. Department of Plastics, Rubber and Fibres, Faculty of Chemical and Food Technology, Slovak University of Technology, 5. Institute of Process Engineering, Faculty of Mechanical Engineering, Slovak University of Technology)

**Additive Manufacturing of Ceramic Biomimetic Bone Models for Surgical Training**

» [Ms. Julia Apel](#)<sup>1</sup>, Prof. Jan Werner<sup>1</sup> (1. Forschungsinstitut für Glas - Keramik GmbH)

**Ceramic additive manufacturing for advanced prosthetic dentistry: material performance and clinical translation**

» [Mr. Tadej Mirt](#)<sup>1</sup>, Prof. Andraž Kocjan<sup>2</sup>, Prof. Peter Jevnikar<sup>1</sup> (1. Faculty of Medicine, University of Ljubljana, 2. Jožef Stefan Institute, Ljubljana, Slovenia)



Continued from Monday, 11 May

#### **Flexural Strength of Milled and 3D-Printed Ceramic-Based and Composite Materials: Influence of Printing Orientation**

» [Ms. Jerneja Vonča](#)<sup>1</sup>, Dr. Tine Malgaj<sup>2</sup>, Dr. Elisabeth Prause<sup>3</sup>, Prof. Peter Jevnikar<sup>4</sup>, Prof. Andraž Kocjan<sup>5</sup>, Prof. Florian Beuer<sup>6</sup>, Dr. Franziska Schmidt<sup>7</sup> (1. Faculty of Medicine, University of Ljubljana, Slovenia, 2. Teaching assistant, Department of Prosthodontics, Faculty of Medicine, University of Ljubljana, Slovenia, 3. Assistant Professor, Department of Prosthodontics, Geriatric Dentistry and Craniomandibular Disorders, Charité-Universitätsmedizin Berlin, Berlin, Germany, 4. Faculty of Medicine, University of Ljubljana, 5. Jožef Stefan Institute, Ljubljana, Slovenia, 6. Professor, Department of Prosthodontics, Geriatric Dentistry and Craniomandibular Disorders, Charité-Universitätsmedizin Berlin, Berlin, Germany, 7. Department of Prosthodontics, Geriatric Dentistry and Craniomandibular Disorders, Charité-Universitätsmedizin Berlin, Berlin, Germany)

#### **Optimization of crystallographic texture in barium titanate ceramics prepared by combination of DLP 3D printing and templated grain growth**

» [Mr. Jan Pišťák](#)<sup>1</sup>, Dr. Přemysl Šťastný<sup>1</sup>, Prof. Klára Částková<sup>2</sup> (1. CEITEC – Central European Institute of Technology, Purkyňova 656/123, 612 00 Brno, CZE, 2. Ceitec VUT)

#### **Biomimetic Ceramic-Polymer Hybrids: Advancing Dental Materials through Vat Photopolymerization.**

» [Mr. Sergio Bayan](#)<sup>1</sup>, Dr. Claudia Isabel Paredes Sánchez<sup>2</sup>, Prof. Óscar Juan Borrero Lopez<sup>1</sup>, Prof. Pedro Miranda González<sup>1</sup> (1. Departamento de Ingeniería Mecánica, Energética y de los Materiales, Universidad de Extremadura, 2. Advanced Multifunctional Ceramics, Central European Institute of Technology BUT)

#### **Fabrication of Enamel-Inspired Composites by Polymer infiltration of SiOC Columnar Ceramic Structures Produced by DLP**

» [Mr. Sergio Moreno-Martínez](#)<sup>1</sup>, Prof. Antonia Pajares Vicente<sup>1</sup>, Prof. Pedro Miranda González<sup>1</sup> (1. Departamento de Ingeniería Mecánica, Energética y de los Materiales, Universidad de Extremadura)

#### **Influence of Surface Oxidation of SiC Powders on the Printability of Highly Filled Suspensions using DLP**

» [Mr. Tomaž Ivančič](#)<sup>1</sup>, Dr. Aljaž Ivekovič<sup>1</sup> (1. Jožef Stefan Institute, Ljubljana, Slovenia)

#### **Optimizing Burnout and Sintering in MSLA-Printed Phosphor-in-Glass: The Role of Glass Particle Size**

» [Mrs. Andrea Cibrinová](#)<sup>1</sup>, Mrs. Marzieh Ghadamyari<sup>1</sup>, Mrs. Anastasiia Novokhatska<sup>1</sup>, Dr. Mokhtar Mahmoud<sup>1</sup>, Mrs. Monika Michalkova<sup>2</sup> (1. FunGlass, Centre for functional and surface functionalised glass, Alexander Dubček University of Trenčín, Trenčín, Slovakia, 2. Vitrum Laugaricio – Joint Glass Centre of the IIC SAS, TnUAD, FChPT STU and RONA, a.s., Študentská 2, SK-911 50, Trenčín, Slovakia)

#### **Effects of Lunar environmental conditions on structural elements produced by Direct Ink Writing of regolith-based geopolymers**

» [Dr. Marco D'Agostini](#)<sup>1</sup>, Dr. Eva Santini<sup>2</sup>, Dr. Claudia Esposito<sup>3</sup>, Prof. Luca Valentini<sup>4</sup>, Prof. Giorgia Franchin<sup>1</sup> (1. Department of Industrial Engineering, University of Padova, 2. National Research Council - Institute of Condensed Matter Physics and Technologies for Energy (CNR-ICMATE), 3. Italian Space Agency (ASI), 4. Department of Geosciences, University of Padova)

#### **The impact of post-processing procedures on the color masking ability of 3D-printed hybrid ceramic material for definitive implant-supported restoration: An in vitro study**

» [Mr. Zhen Mao](#)<sup>1</sup>, Dr. Shengxin Weng<sup>1</sup>, Prof. Almira Ada Diken Turksayar<sup>2</sup>, Mrs. Jamila Yassine<sup>1</sup>, Mr. Robert Nacic<sup>1</sup>, Dr. Ievgeniia Topolnitskiy<sup>3</sup>, Prof. Florian Beuer<sup>4</sup>, Dr. Franziska Schmidt<sup>1</sup> (1. Department of Prosthodontics, Geriatric Dentistry and Craniomandibular Disorders, Charité-Universitätsmedizin Berlin, Berlin, Germany, 2. Department of Prosthodontics, Faculty of Dentistry, Biruni University, Istanbul, Turkey; Department of Oral and Maxillofacial Surgery, Faculty of Dentistry, Biruni University, 3. Federal Institute for Materials Research and Testing (BAM), 4. Professor, Department of Prosthodontics, Geriatric Dentistry and Craniomandibular Disorders, Charité-Universitätsmedizin Berlin, Berlin, Germany)

4pm

Vat Photopolymerization II



Continued from **Monday, 11 May**

4pm **Additive Manufacturing of Functionalized Multi-Material Scaffolds for Bone Regeneration**

» [Ms. Giulia Verlato](#)<sup>1</sup>, Mr. Vincent Gillet<sup>2</sup>, Dr. Somers Nicolas<sup>3</sup>, Dr. Hamada Elsayed<sup>1</sup>, Prof. Anne Leriche<sup>2</sup> (1. University of Padova, 2. CERAMATHs, Université Polytechnique Hauts-de-France, 3. University of Liège)

4:20pm **Additive manufacturing of electrified monolithic reactor for ammonia cracking**

» [Dr. Milan Vukšić](#)<sup>1</sup>, Prof. Thomas Konegger<sup>2</sup>, Prof. Sašo Gyergyek<sup>1</sup>, Prof. Andraž Kocjan<sup>3</sup>, Dr. Aljaž Iveković<sup>1</sup> (1. Jožef Stefan Institute, Ljubljana, Slovenia, 2. TU Wien, Institute of Chemical Technologies and Analytics, 3. Jožef Stefan Institute (JSI), Ljubljana, Slovenia)

4:40pm **Additive manufacturing of multifunctional micro-architected ZnO**

» [Mr. Peiren Wang](#)<sup>1</sup>, Prof. Eduardo Saiz<sup>1</sup> (1. Department of Materials, Imperial College London, Exhibition Rd, London SW7 2AZ, United Kingdom)

5pm **3D printing of the Hybrid Silicon Carbide/Carbon Fiber Nanocomposites using Digital Light processing**

» [Dr. SAJA Al-Ajrash](#)<sup>1</sup> (1. the insititute of catalan water research)

5:20pm **Enabling Rapid Debinding and Thick-Wall Fabrication in Ceramic VPP via Simple Slurry Formulation**

» [Mr. Jošt Oblak](#)<sup>1</sup>, Dr. Jakob König<sup>1</sup>, Prof. Matjaž Spreitzer<sup>1</sup> (1. Jozef Stefan Institute, Advanced Materials Department, Ljubljana)

6pm **Welcome Reception**

**Tuesday, 12 May**

9am **Material Extrusion I**

9am **Process Optimization of Multimaterial 3D Printing of Mullite-Based and Nickel composite filaments**

» [Dr. Jana Záchenská](#)<sup>1</sup>, Dr. Ľuboš Bača<sup>1</sup>, Dr. Peter Veteska<sup>1</sup>, Dr. Zora Hajdúchová<sup>1</sup>, Mrs. Martina Ferancová<sup>1</sup>, Prof. Marián Janek<sup>1</sup> (1. Department of Inorganic Materials, Faculty of Chemical and Food Technology, Slovak University of Technology)

9:20am **Investigation of Field-Assisted 3D Printing of La-Co Co-Doped Strontium Hexaferrite for Permanent Magnet Applications**

» [Mr. Uma Mahesh](#)<sup>1</sup>, Dr. Ranjan Kumar Singh<sup>2</sup>, Dr. Dibakar Das<sup>1</sup> (1. University of Hyderabad, 2. Defence Metallurgical Research Laboratory)

9:40am **Direct Ink Writing of Textured Barium Titanate: Process-Microstructure-Property Control**

» [Mr. Gaurav Vajpayee](#)<sup>1</sup>, Dr. Subhadip Bhandari<sup>2</sup>, Mr. Lucas Lemos Da Silva<sup>1</sup>, Prof. Giorgia Franchin<sup>2</sup>, Dr. Manuel Hinterstein<sup>1</sup> (1. Fraunhofer IWM, 2. Department of Industrial Engineering, University of Padova)

10am **Additive Manufacturing of Lithium Disilicate Glass-Ceramics for Dental Applications**

» [Mrs. Belkıs Güneş Kara](#)<sup>1</sup>, Prof. Kim Vanmeensel<sup>1</sup>, Prof. Bart Van Meerbeek<sup>1</sup>, Prof. Fei Zhang<sup>1</sup> (1. KU Leuven)

10:20am **Coffee Break**

10:50am **Material Extrusion II**

10:50am **Development of porcelain stoneware pastes incorporating sintered endogenous ceramic waste for robocasting applications on ceramic tiles industry**

» [Ms. Tulane Rodrigues da Silva](#)<sup>1</sup>, Ms. Ana Beatriz Alexandre<sup>1</sup>, Mr. João P. Boia<sup>2</sup>, Mx. Jorge Girão<sup>2</sup>, Prof. Paula M. Vilarinho<sup>1</sup> (1. Department of Materials and Ceramics Engineering, CICECO- Aveiro Institute of Materials, University of Aveiro, Portugal, 2. Revigrés Lda, Vale do Grou, Barrô-Águeda, Portugal)



Continued from **Tuesday, 12 May**

11:10am **Application of additive manufacturing for innovative UO<sub>2</sub> nuclear fuels**

» [Mr. Ivan Mestrallet](#)<sup>1</sup>, Mr. Olivier Fiquet<sup>1</sup>, Prof. Gweni Alonso-Aruffo<sup>2</sup>, Prof. Vincent Pateloup<sup>2</sup> (1. CEA CADARACHE, 2. CNRS, Université de Limoges, IRCER)

11:30am **Tailoring of printable bone filling cements for their reactive paste extrusion via robocasting**

» [Ms. Bertille Belleville](#)<sup>1</sup>, Dr. David Grossin<sup>2</sup>, Dr. Fabien Brouillet<sup>1</sup>, Prof. Christèle Combes<sup>2</sup> (1. CIRIMAT, Université de Toulouse, Toulouse INP, CNRS, 35 Chemin des Maraîchers, 31062 Toulouse cedex 9, 2. CIRIMAT, Toulouse INP, Université de Toulouse, CNRS, 4 Allée Emile Monso, 31030 Toulouse cedex 4 - France)

11:50am **Red mud as a functional additive in 3D-printed  $\gamma$ -Al<sub>2</sub>O<sub>3</sub>-based catalytic ceramics**

» [Mrs. Gemma Cruz Ortega](#)<sup>1</sup>, Dr. Adela Svobodova<sup>2</sup>, Mrs. ISABEL SERRANO<sup>1</sup>, Prof. JORDI LLORCA<sup>1</sup>, Dr. Joan Josep Roa Rovira<sup>3</sup> (1. Polytechnic University of Catalonia, 2. University of Barcelona, 3. GPA Innova)

11:50am **Lunch**

12:50pm **Technology**

12:50pm **3D volume morphology characterization of additive manufactured ceramic materials using advanced automated DualBeam technology**

» [Dr. Min Wu](#)<sup>1</sup> (1. Thermo Fisher Scientific)

1:10pm **Debinding strategies for FFF-printed BaTiO<sub>3</sub> composite filaments**

» [Dr. Peter Veteska](#)<sup>1</sup>, Dr. Michaela Benköová<sup>1</sup>, Dr. Zora Hajdúchová<sup>1</sup>, Dr. Ľuboš Bača<sup>1</sup>, Prof. Marián Janek<sup>1</sup> (1. Department of Inorganic Materials, Faculty of Chemical and Food Technology, Slovak University of Technology)

1:30pm

**Fast microwave treatment of zirconia parts printed by FDM**

» [Mr. Axel Krzyzaniak](#)<sup>1</sup>, Dr. Florian Jean<sup>1</sup>, Dr. Marie Lasgorceix<sup>1</sup>, Dr. Anthony Thuault<sup>1</sup>, Prof. Anne Leriche<sup>1</sup> (1. CERAMATHS, Université Polytechnique Hauts-de-France)

1:50pm

**Using Two-Photon Polymerization of Ceramics as a Template for Digital Workflow Integration**

» [Mr. Tom Rousseau](#)<sup>1</sup>, Dr. José Pizarro<sup>1</sup>, Prof. Uwe Wolfram<sup>2</sup>, Dr. Johanna Mueller Elmau<sup>1</sup> (1. Federal Institute for Materials Research and Testing (BAM), 2. Technische Universität Clausthal)

2:10pm

**Poster Session II + Coffee break**

**Study of the 3D printing of ferrite on mechanical properties**

» [Ms. Marine Brocheton](#)<sup>1</sup>, Dr. Karine Wittmann Teneze<sup>1</sup>, Dr. Denis Autissier<sup>1</sup> (1. CEA Le Ripault)

**Additive-Manufactured Porous Ceramic Structures for Passive Vapor Extraction in Micro-Apartments A Conceptual Application Study**

» [Ms. Csilla Csipkó](#)<sup>1</sup>, Dr. Mária Réka Antal<sup>1</sup>, Dr. Péter György Horváth<sup>1</sup>, Ms. Vivien Nagy<sup>1</sup> (1. University of Sopron)

**Two-Photon Polymerization of Ceramics: Micro-Scale Mechanical Properties**

» [Ms. Anna Linden](#)<sup>1</sup>, Dr. Birte Riechers<sup>1</sup>, Prof. Jens Günster<sup>1</sup>, Dr. Johanna Mueller Elmau<sup>1</sup> (1. Federal Institute for Materials Research and Testing (BAM))

**Comparative Study of Al<sub>2</sub>O<sub>3</sub> Ceramic Samples Fabricated Using Fiber Laser and CO<sub>2</sub> Laser Powder Bed Fusion**

» [Prof. Geethapriyan Thangamani](#)<sup>1</sup>, Prof. Alberta Aversa<sup>1</sup>, Prof. Elisa Padovano<sup>1</sup>, Prof. Rosa Taurino<sup>2</sup>, Prof. Federica Bondioli<sup>1</sup> (1. Department of Applied Science and Technology, Politecnico di Torino, Corso Duca Degli Abruzzi 24, 10129 Torino, Italy, 2. Department of Industrial Engineering, University of Florence, Via di Santa Marta 3, Firenze 50139, Italy)



Continued from **Tuesday, 12 May**

### **DIW of Fiber-Reinforced Geopolymers: Rheology Optimization and Mechanical Toughening Mechanisms**

» [Ms. Chuhui Qin](#)<sup>1</sup>, Dr. Xuhao Zhang<sup>2</sup>, Prof. Paolo Colombo<sup>1</sup> (1. Department of Industrial Engineering, University of Padova, 2. School of Civil Engineering, Weifang University of Science and Technology; School of Intelligent Civil and Ocean Engineering, Harbin Institute of Technology (Shenzhen))

### **Tailored frequency acoustic panels**

» [Dr. Lidija Korat](#)<sup>1</sup>, Dr. Rok Rudolf<sup>1</sup>, Dr. Uroš Bohinc<sup>1</sup> (1. Slovenian National Building and Civil Engineering Institute)

### **Integrating Synthesis and Additive Manufacturing in Polymer-Derived Bioglasses**

» [Ms. Linda Furlan](#)<sup>1</sup>, Dr. Hamada Elsayed<sup>2</sup>, Prof. Enrico Bernardo<sup>1</sup> (1. Department of Industrial Engineering, University of Padova, 2. University of Padova)

### **Extruder with peristaltic mechanism for printing fast-setting and reactive silicate materials**

» [Dr. Adam Boleslavský](#)<sup>1</sup>, Mr. Matyáš Machalla<sup>1</sup>, Dr. Jakub Mlotek<sup>1</sup> (1. VSB - Technical University of Ostrava)

### **Surface Modification of 3D-Printed Geopolymers via Dealumination for Methylene Blue Removal**

» [Ms. Ana Caetano](#)<sup>1</sup>, Dr. Nuno Gonçalves<sup>2</sup>, Dr. João Labrincha<sup>1</sup>, Dr. Rui Novais<sup>3</sup> (1. Department of Materials and Ceramics Engineering, CICECO- Aveiro Institute of Materials, University of Aveiro, Portugal, 2. Department of Chemistry, CICECO - Aveiro Institute of Materials, University of Aveiro, Portugal, 3. Department of Materials and Ceramics Engineering, CICECO - Aveiro Institute of Materials, University of Aveiro, Portugal)

### **Effects of Nozzle Cross-Section on Printed Track and Part Quality**

» [Mr. Matyáš Machalla](#)<sup>1</sup>, Dr. Adam Boleslavský<sup>1</sup> (1. VSB - Technical University of Ostrava)

### **Empowering Sustainability Through Green Additive Manufacturing Education "Edu-GArD3n"**

» [Dr. Hamada Elsayed](#)<sup>1</sup>, Dr. Edgar Benjamin Montufar Jimenez<sup>2</sup>, Prof. Roman PEREZ ANTONANZAS<sup>3</sup>, Prof. Oguzhan Gunduz<sup>4</sup> (1. Department of Industrial Engineering, University of Padova, 2. Central European Institute of Technology, Brno University of Technology, 3. Bioengineering Department, Universitat Internacional de Catalunya, 4. Center for Nanotechnology and Biomaterials Research, Marmara University)

### **Large-Scale Binder Jetting of Waste-Derived Geopolymers for Energy Storage and Fire-Resistant Construction**

» [Dr. Hamada Elsayed](#)<sup>1</sup>, Ms. Maryam Haerifar<sup>1</sup>, Dr. Filippo Gobbin<sup>1</sup>, Prof. Paolo Colombo<sup>1</sup> (1. Department of Industrial Engineering, University of Padova)

### **Additive manufacturing of ceramic matrix composites based on the fused filament fabrication**

» [Mr. Wolfgang Freudenberg](#)<sup>1</sup> (1. University of Bayreuth)

### **Minimizing the Surface Roughness of Additively Manufactured Alumina**

» [Mr. Bekir Gürkan Kaynak](#)<sup>1</sup>, Ms. İrem Sude Geven<sup>1</sup>, Prof. Simge Çınar Aygün<sup>1</sup> (1. Dept. of Metallurgical and Materials Engineering, Middle East Technical University (METU), 06800 Ankara, Türkiye)

### **Low-temperature additive manufacturing of filler-free polysiloxane-based feedstocks for polymer-derived ceramics**

» [Mr. Mussadig Shah](#)<sup>1</sup>, Mr. Tobias Edtmaier<sup>1</sup>, Mr. Felix Bauer<sup>2</sup>, Prof. Milan Krcalik<sup>2</sup>, Dr. Vaibhav Pandey<sup>3</sup>, Dr. Aljaž Ivekovič<sup>4</sup>, Prof. Thomas Konegger<sup>1</sup> (1. TU Wien, Institute of Chemical Technologies and Analytics, 2. Johannes Kepler University Linz, Institute of Polymer Science, 3. Jozef Stefan Institute, Department for Nanostructured Materials, Ljubljana, 4. Jožef Stefan Institute, Ljubljana, Slovenia)

### **Thermoplastic Material Jetting of Paraffin-wax-based Alumina Suspensions**

» [Ms. Pia Popovič](#)<sup>1</sup>, Prof. Andraž Kocjan<sup>2</sup>, Dr. Aljaž Ivekovič<sup>3</sup> (1. Jozef Stefan Institute, Department for Nanostructured Materials, Ljubljana, 2. Jožef Stefan Institute (JSI), Ljubljana, Slovenia, 3. Jožef Stefan Institute, Ljubljana, Slovenia)



Continued from **Tuesday, 12 May**

**Formulation and Characterization of Experimental Waste-Derived Pastes for 3D Printing Applications**

» [Ms. Marija Kovač<sup>1</sup>](#), Ms. Vesna Miljić<sup>1</sup>, Prof. Jovana Grahovac<sup>1</sup>, Dr. Ivana Danilov<sup>1</sup>, Dr. Bojan Miljević<sup>1</sup>, Prof. Snežana Vučetić<sup>1</sup> (1. Faculty of Technology Novi Sad)

**Rheological Behavior and Shape Retention of Alumina-Based Pastes for the Fabrication of Dense Components via Direct Ink Writing**

» [Mr. Thiago Wisley Barbosa de Farias<sup>1</sup>](#), Mr. Gabriel Hercules Navarro<sup>1</sup>, Prof. Italo Leite de Camargo<sup>2</sup>, Prof. Ana Paula Luz<sup>1</sup> (1. Universidade Federal de São Carlos, 2. Instituto Federal de São Paulo)

**Improving Density and Reproducibility of Alumina Ceramics Produced by Direct Ink Writing**

» [Ms. Irem Sude Geven<sup>1</sup>](#), Mr. Bekir Gürkan Kaynak<sup>1</sup>, Prof. Simge Çınar Aygün<sup>1</sup> (1. Dept. of Metallurgical and Materials Engineering, Middle East Technical University (METU), 06800 Ankara, Türkiye)

**Determining the curing behavior of ceramic suspensions for cost-effective Liquid Crystal Display-Stereolithography printing**

» [Mr. Tim Stötzel<sup>1</sup>](#), Mr. Jakob Schütz<sup>1</sup>, Mrs. Swantje Funk<sup>1</sup>, Dr. Tobias Fey<sup>1</sup> (1. Friedrich-Alexander-Universität Erlangen-Nürnberg)

**Analysis and optimization of slurry rheology and curing for DLP 3D printing of biphasic ceramics**

» [Ms. Albina Murashko<sup>1</sup>](#), Dr. Yaroslav Filippov<sup>1</sup>, Dr. Pavel Evdokimov<sup>1</sup>, Dr. Valery Putlyaev<sup>1</sup> (1. Lomonosov Moscow State University)

**Optimization of composition and processing conditions of zeolites/polylactide filaments**

» [Dr. Jakub Marchewka<sup>1</sup>](#), Prof. Maciej Sitarz<sup>1</sup> (1. Faculty of Material Science and Ceramics, AGH University of Krakow)

**Microwave-Assisted Production of High Entropy Oxide Powder Feedstocks for Ceramic Additive Manufacturing**

» [Mr. Daniel Perello<sup>1</sup>](#), Prof. Julian Walker<sup>1</sup>, Prof. Nuria Espallargas<sup>1</sup> (1. NTNU)

**Influence of Additive Manufacturing Technology on the Porous Architecture and CO<sub>2</sub>-Related Structural Properties of CaO-Functionalized Ceramic Monoliths**

» [Mr. Quico Viciano Yuste<sup>1</sup>](#), Mrs. Cristina Fabuel Bartual<sup>1</sup>, Dr. M<sup>a</sup> Pilar Gómez-Tena<sup>1</sup>, Dr. Eulalia Zumaquero Silvero<sup>1</sup> (1. ITC-AICE)

**Additive Manufacturing of Glass-Contact Refractories by Direct Ink Writing and Their Corrosion Behavior in Barium Crystallin Glass**

» [Mr. Sheeraz Khan<sup>1</sup>](#), Dr. Abel Ourgessa<sup>2</sup>, Dr. Ahmed Gamal Abd-El-satar<sup>2</sup>, Mr. Mohammed Boujida<sup>2</sup>, Dr. Mokhtar Mahmoud<sup>2</sup>, Dr. Jozef Kraxner<sup>2</sup> (1. Sheeraz Khan, 2. FunGlass, Centre for functional and surface functionalised glass, Alexander Dubček University of Trenčín, Trenčín, Slovakia)

**Optimizing Monetite and Brushite in Extrusion-Printed Hydrogels for Bone Tissue Engineering**

» [Ms. Andreea Trifan<sup>1</sup>](#), Dr. Cristina BUSUIOC<sup>1</sup>, Mr. Daniel-Doru Cristea<sup>2</sup>, Mr. Andrei Nedelcu<sup>3</sup>, Dr. Mihai Dragomir<sup>2</sup>, Dr. Eduard Liciu<sup>2</sup> (1. Faculty of Chemical Engineering and Biotechnology, National University of Science and Technology Politehnica Bucharest, 1-7 Gh. Polizu Street, 011061, Bucharest, Romania, 2. University of Medicine and Pharmacy Carol Davila of Bucharest, 3. Faculty of Medical Engineering, National University of Science and Technology Politehnica Bucharest, 1-7 Gh. Polizu Street, 011061, Bucharest, Romania)

**Reaction bonded technical ceramics via binder jet 3D printing**

» [Ms. Julia Bolten<sup>1</sup>](#), Dr. Clara Minas-Payamyar<sup>1</sup>, Dr. Philipp Gingter<sup>1</sup>, Dr. Lars Schnetter<sup>1</sup> (1. Schunk Ingenieurkeramik GmbH)

**Integration of X<sub>μ</sub>CT and Additive Manufacturing for the Restoration of Cultural Heritage Using Geopolymer Binders**

» [Ms. Ekaterina Sokolova<sup>1</sup>](#), Dr. Lucia Mancini<sup>1</sup>, Dr. Lidija Korat<sup>1</sup>, Mr. Maurizio Pietro Bellotto<sup>2</sup>, Mrs. Nina Žbona<sup>3</sup> (1. Slovenian National Building and Civil Engineering Institute, 2. Opigeo S.r.l., 3. Institute for the Protection of Cultural Heritage of Slovenia)

**Effect of particle morphology and ink rheology on printability in DIW**

» [Ms. Enrica Luzzi<sup>1</sup>](#), Ms. Martina Salzano de Luna<sup>1</sup>, Mr. Giovanni Filippone<sup>1</sup>, Mr. Domenico Caputo<sup>1</sup>, Prof. Paolo Aprea<sup>1</sup> (1. University of Naples Federico II)



Continued from **Tuesday, 12 May**

3:10pm **Material Jetting**

3:10pm **Ceramic additive manufacturing by micron sized droplet jetting of thermoplastic feedstocks**

» [Mrs. Ipeknaz Özden Moser](#)<sup>1</sup>, [Dr. Aljaž Iveković](#)<sup>2</sup>, [Prof. Andraž Kocjan](#)<sup>3</sup> (1. Department for Nanostructured Materials, Jožef Stefan Institute, Jamova 39, 1000 Ljubljana, Slovenia, 2. Jožef Stefan Institute, Ljubljana, Slovenia, 3. Jožef Stefan Institute (JSI), Ljubljana, Slovenia)

3:30pm **Binder jetting of calcium zirconate refractories using a water-based binder and functional additives – feedstock and process development**

» [Dr. Lisa Freitag](#)<sup>1</sup>, [Mr. Michael Isakhani Zakaria](#)<sup>2</sup>, [Mr. Jaakko Knuuttila](#)<sup>1</sup>, [Ms. Nonna Nurmi](#)<sup>1</sup>, [Prof. Erkki Levänen](#)<sup>1</sup> (1. Tampere University, 2. Häme University of Applied Sciences (HAMK))

3:50pm **Design of Spray-Dried Ceramic Granules for Binder Jetting and Interpenetrating Phase Composites**

» [Mr. Francesco Bertolini](#)<sup>1</sup>, [Dr. Marco Mariani](#)<sup>1</sup>, [Dr. Antonio Javier Sánchez-Herencia](#)<sup>2</sup>, [Dr. Begoña Ferrari](#)<sup>2</sup>, [Dr. Nora Lecis](#)<sup>1</sup> (1. Politecnico di Milano, 2. Instituto de Cerámica y Vidrio)

5pm **Ljubljana City Tour**

7pm **Gala Dinner**

**Wednesday, 13 May**

9am **ERC grants**

Chaired by: Anna De Marzi and Dr. Johanna Mueller Elmau and Sarah Diener

9am **My path to a successful ERC project application**

» [Dr. Dominik Kozjek](#)<sup>1</sup> (1. Jožef Stefan Institute, Ljubljana, Slovenia)

9:30am **ERC project and the mystery behind**

» [Dr. Matevz Dular](#)<sup>1</sup> (1. Jožef Stefan Institute, Ljubljana, Slovenia)

10am **Coffee Break**

10:30am **Analysis**

10:30am **Strength Testing, Fracture Statistics, and their Relevance for Defect Analysis**

» [Mr. Maximilian Staudacher](#)<sup>1</sup> (1. Montanuniversität Leoben)

11am **Mechanical characterization of 2-materials ceramic structures for bone regeneration produced through Vat-Photopolymerization**

» [Mrs. Martina Colombo](#)<sup>1</sup>, [Mr. Luca D'Andrea](#)<sup>1</sup>, [Dr. Serkan Nohut](#)<sup>2</sup>, [Dr. Martin Schwentenwein](#)<sup>2</sup>, [Prof. Pasquale Vena](#)<sup>1</sup> (1. Politecnico di Milano, 2. Lithoz GmbH)

11:20am **A Novel Specimen shape for Fracture Characterization of 3D-Printed Hydroxyapatite**

» [Ms. Leire Viana](#)<sup>1</sup>, [Mr. Luca D'Andrea](#)<sup>1</sup>, [Mr. Giorgio Goretti](#)<sup>2</sup>, [Dr. Martin Schwentenwein](#)<sup>2</sup>, [Prof. Pasquale Vena](#)<sup>1</sup> (1. Politecnico di Milano, 2. Lithoz GmbH)

11:40am **When Ceramics Flow: Science Behind Rheological Behavior and Stability of Zirconia Suspensions for Digital Light Processing**

» [Mr. Patrik Sokola](#)<sup>1</sup>, [Prof. Petr Ptáček](#)<sup>1</sup>, [Dr. Michal Kalina](#)<sup>1</sup> (1. Brno University of Technology)

12pm **YCN presentation**

12:15pm **Closing of yCAM 2026**