



Monday, 11 May

8am **Registration**
Jožef Stefan Institute

8:45am **Opening of yCAM 2026**
Jožef Stefan Institute
Chaired by: Anna De Marzi and Dr. Johanna Mueller Elmau and Sarah Diener

9am **Applications I**
Jožef Stefan Institute

9am
Additive Manufacturing of Ceramics for Dental and Biomedical Applications – current status and future perspectives
» [Dr. Franziska Schmidt](#)¹, Prof. Florian Beuer², Prof. Alexey Unkovskiy³
(1. Department of Prosthodontics, Geriatric Dentistry and Craniomandibular Disorders, Charité-Universitätsmedizin Berlin, Berlin, Germany, 2. Professor, Department of Prosthodontics, Geriatric Dentistry and Craniomandibular Disorders, Charité-Universitätsmedizin Berlin, Berlin, Germany, 3. Professor, Department of Prosthodontics, Geriatric and Craniomandibular Disorders, Charité-Universitätsmedizin Berlin, Berlin, Germany)

9:30am
Biomedical Breakthrough : Revolutionising Spinal Fusion Surgeries
» [Mr. Charlie Clark](#)¹, Ms. Ameneh Sadeghpour² (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](#)¹, Ms. Lina Machkour¹, Mr. Harish Swaminathan², Ms. Flora Navaux¹, Prof. Nicolas Blanchemain¹, Dr. Pauline Lecomte-Grosbras³, Dr. Antonia Ressler² (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**
Jožef Stefan Institute

10:50am **Applications II**
Jožef Stefan Institute

10:50am **Off-Earth Resource Utilisation: Harnessing Space Clays for Ceramic Processing and Additive Manufacturing**
» [Dr. David Karl](#)¹ (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](#)¹, Ms. Sarah Larroudé², Ms. Leire Viana³, Prof. Pasquale Vena³, Prof. Jonathan Massera², Dr. Martin Schwentenwein¹ (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](#)¹, Dr. Andreas Egger¹, Mr. Arijit Jana¹, Dr. Josef Schlacher¹, Mr. Thomas Prochaska², Dr. Martin Schwentenwein², Prof. Raul Bermejo¹, Prof. Edith Bucher¹ (1. Montanuniversität Leoben, 2. Lithoz GmbH)

12pm **Lunch**
Jožef Stefan Institute

1pm **Vat Photopolymerization I**
Jožef Stefan Institute



Continued from **Monday, 11 May**

- 1pm **Photocurable Sol-Gel Formulation for the Fabrication of Silicon Carbide/Carbon Nanocomposite via Digital Light Processing**
 » [Mr. Luca Avanzi](#)¹, Prof. Giorgia Franchin¹, Dr. Sara Carturan², Dr. Michele Ballan³, Dr. Stefano Corradetti³, Prof. Mattia Manzolaro³, Prof. Paolo Colombo¹ (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](#)¹, Ms. Maral Afshar² (1. Sheffield Hallam University, 2. PhD researcher)
- 1:40pm **Additive Manufacturing of Bioceramics: Mg-Doped Biphasic Calcium Phosphates**
 » [Mr. Vincent Gillet](#)¹, Dr. Marie Lasgorceix², Dr. Florian Jean², Dr. Stéphane Hocquet³, Dr. Somers Nicolas⁴, Prof. Anne Leriche² (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](#)¹, Prof. MARIA PAU GINEBRA MOLINS², Dr. Anna Diez-Escudero¹ (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](#)¹, Dr. Somers Nicolas¹, Dr. Frederic Boschini¹, Prof. Rudi Cloots¹ (1. University of Liège)
- 2:40pm **Poster Session I + Coffee Break**
Jožef Stefan Institute

Stereolithography-Printed TiO₂-Resin Composites for Photocatalytic Degradation of Pharmaceuticals

» [Ms. Paola Grobenski](#)¹, Mr. Karlo Cahun², Dr. Lidija Čurković¹ (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](#)¹, Prof. Thomas Konegger¹ (1. TU Wien, Institute of Chemical Technologies and Analytics)

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

» [Ms. Tjaša Okleščen](#)¹, Ms. Anna Leibold², Dr. Martin Schwentenwein², Prof. Andraž Kocjan¹, Prof. Peter Jevnikar³ (1. Jožef Stefan Institute (JSI), Ljubljana, Slovenia, 2. Lithoz GmbH, 3. Faculty of Medicine, University of Ljubljana)

Additive manufacturing of acid-activated geopolymer adsorbents for heavy metal adsorption

» [Ms. Mariana Almeida](#)¹, Dr. Nuno Gonçalves¹, Dr. Rui Novais¹ (1. University of Aveiro)

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

» [Ms. Liana Mkhitarjan](#)¹, Ms. Lilit Baghdasaryan¹, Ms. Viktorya Rstakyan¹, Prof. Miguel Angel Rodriguez Barbero² (1. A.B. Nalbandyan Institute of Chemical Physics, NAS RA, 2. Instituto de Cerámica y Vidrio)

Multimaterial 3D printing of bioceramics

» [Dr. Přemysl Štastný](#)¹, Ms. Vendula Korábová², Mrs. Eliška Šiška Virágová¹, Prof. Aleš Hampl³, Dr. Leoš Benák³, Prof. Klára Částková⁴ (1. CEITEC BUT, 2. Brno University of Technology, 3. Masaryk University, Department of Histology and Embryology, 4. Ceitec VUT)



Continued from Monday, 11 May

Lead-free piezoelectric parts: BaTiO₃ shaping through VAT photopolymerization and Laser Powder Bed Fusion

» [Mrs. Margaud Rivière](#)¹, Dr. Prescillia Lagarrigue¹, Dr. David Grossin², Dr. Sophie Guillemet-Fristch¹ (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](#)¹, Prof. Jozef Vleugels¹, Prof. Bart Van Meerbeek¹, Prof. Annabel Braem¹ (1. KU Leuven)

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

» [Dr. Maxim Isachenkov](#)¹, Mr. Masoud Sadeghi², Dr. Antonio Mattia Grande¹ (1. Politecnico di Milano, 2. Kong)

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

» [Dr. Wuyuan Zhao](#)¹, Prof. James Tsoi¹ (1. The University of Hong Kong)

Fracture toughness and flexural strength of 3D-printed HA/Al₂O₃ composites reinforced with 'plate-like' particles

» [Ms. Eliska Siska Viragova](#)¹, Dr. Přemysl Šťastný¹, Dr. Zdenek Chlup², Prof. Klára Částková³ (1. CEITEC BUT, 2. IPM CAŠ, 3. Ceitec VUT)

Merwinite Scaffolds with Tailored Architecture and Antibacterial Functionality Fabricated by Robocasting

» [Ms. Gabriela Ionita](#)¹, Dr. Cristina BUSUIOC¹, Ms. Maria Eliza Puscasu¹ (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](#)¹, Dr. Andrea Zocca¹, Dr. Thomas Mühler², Ms. Julia Kubitz² (1. Bundesanstalt für Materialforschung und -prüfung, 2. QEP 3D)

Direct Ink Writing of Ni/γ-Al₂O₃ catalysts for CO₂ methanation

» [Mr. SEYED ALI RAZAVI](#)¹, Prof. GEMMA FARGAS RIBAS¹, Ms. TANIA VILELLA¹, Mrs. ISABEL SERRANO¹, Dr. MIGUEL LAGUNA-BERCERO², Prof. LUIS MIGUEL LLANES PITARCH¹, Dr. DANIEL RODRIGUEZ¹, Prof. MARIA PAU GINEBRA MOLINS¹, Prof. JORDI LLORCA¹, Dr. MIGUEL MORALES COMAS¹ (1. Polytechnic University of Catalonia, 2. Universidad de Zaragoza)

Robocasting of Akermanite Based Scaffolds for Bone Tissue Grafting

» [Mrs. Maria Eliza Puscasu](#)¹, Mr. Alexandru-Marian IVAN², Dr. Cristina BUSUIOC¹ (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](#)¹, Ms. Lisbeth Cot I Vela¹, Prof. GEMMA FARGAS RIBAS², Dr. MIGUEL MORALES COMAS², Prof. LUIS MIGUEL LLANES PITARCH² (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](#)¹, Mr. Elias Tefera¹, Dr. Svyatoslav Chugunov¹ (1. Skolkovo Institute of Science and Technology)

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

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



Continued from **Monday, 11 May**

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

» [Mr. Roman Fialka](#)¹, Dr. Zuzana Varchulová Nováková², Dr. Zdenek Chlup³, Dr. Ida Vašková⁴, Dr. Peter Veteska¹, Dr. Ľuboš Danišovič², Dr. Peter Peciar⁵, Dr. Ľuboš Bača¹, Prof. Marián Janek¹ (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](#)¹, Prof. Jan Werner¹ (1. Forschungsinstitut für Glas - Keramik GmbH)

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

» [Mr. Tadej Mirt](#)¹, Prof. Andraž Kocjan², Prof. Peter Jevnikar¹ (1. Faculty of Medicine, University of Ljubljana, 2. Jožef Stefan Institute, Ljubljana, Slovenia)

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

» [Ms. Jerneja Vonča](#)¹, Dr. Tine Malgaj², Dr. Elisabeth Prause³, Prof. Peter Jevnikar⁴, Prof. Andraž Kocjan⁵, Prof. Florian Beuer⁶, Dr. Franziska Schmidt⁷ (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](#)¹, Dr. Přemysl Šťastný¹, Prof. Klára Částková² (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](#)¹, Dr. Claudia Isabel Paredes Sánchez², Prof. Óscar Juan Borrero Lopez¹, Prof. Pedro Miranda González¹ (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](#)¹, Prof. Antonia Pajares Vicente¹, Prof. Pedro Miranda González¹ (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](#)¹, Dr. Aljaž Iveković¹ (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](#)¹, Mrs. Marzieh Ghadamyari¹, Mrs. Anastasiia Novokhatska¹, Dr. Mokhtar Mahmoud¹, Mrs. Monika Michalkova² (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)



Continued from **Monday, 11 May**

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

» Dr. Marco D'Agostini¹, Dr. Eva Santini², Dr. Claudia Esposito³, Prof. Luca Valentini⁴, Prof. Giorgia Franchin¹ (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 Mao¹, Dr. Shengxin Weng¹, Prof. Almira Ada Diken Turksayar², Mrs. Jamila Yassine¹, Mr. Robert Nicic¹, Dr. Ievgeniia Topolniak³, Prof. Florian Beuer⁴, Dr. Franziska Schmidt¹ (1. Department of Prosthodontics, Geriatric Dentistry and Craniomandibular Disorders, Charité-Universitätsmedizin Berlin, Berlin, Germany, 2. Department of Prosthodontics, Faculty of Dentistry, Biruni University, İstanbul, 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)

Preparation of Hybrid Ceramic Implants Combining Additive Manufacturing and Direct Foaming

» Mrs. Pavlína Šárfy¹, Mrs. Eliška Šiška Virágová¹, Dr. Přemysl Šťastný², Prof. Klára Částková³ (1. CEITEC – Central European Institute of Technology, Purkyňova 656/123, 612 00 Brno, CZE, 2. CEITEC BUT, 3. Ceitec VUT)

Fabrication of bulk strontium titanate by laser powder bed fusion

» Ms. Rachel McNamara¹, Dr. Ji Ma¹ (1. University of Virginia)

Advancing silicon carbide additive manufacturing via laser powder bed fusion and polymer infiltration and pyrolysis: Towards high-performance, near-net shape ceramic components

» Mr. Waut Declercq¹, Prof. Jozef Vleugels¹, Prof. Brecht Van Hooreweder¹ (1. KU Leuven)

4pm

Vat Photopolymerization II

Jožef Stefan Institute

4pm

Additive Manufacturing of Functionalized Multi-Material Scaffolds for Bone Regeneration

» Ms. Giulia Verlato¹, Mr. Vincent Gillet², Dr. Somers Nicolas³, Dr. Hamada Elsayed¹, Prof. Anne Leriche² (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 Vukšić¹, Prof. Thomas Konegger², Prof. Sašo Gyergyek¹, Prof. Andraž Kocjan³, Dr. Aljaž Iveković¹ (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 Wang¹, Prof. Eduardo Saiz¹ (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-Ajrash¹ (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 Oblak¹, Dr. Jakob König¹, Prof. Matjaž Spreitzer¹ (1. Jozef Stefan Institute, Advanced Materials Department, Ljubljana)

6pm

Welcome Reception

Jožef Stefan Institute



Tuesday, 12 May

- 9am **Material Extrusion I**
Jožef Stefan Institute
- 9am **Process Optimization of Multimaterial 3D Printing of Mullite-Based and Nickel composite filaments**
» [Dr. Jana Záchenská](#)¹, Dr. Ľuboš Bača¹, Dr. Peter Veteska¹, Dr. Zora Hajdúchová¹, Mrs. Martina Ferancová¹, Prof. Marián Janek¹ (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](#)¹, Dr. Ranjan Kumar Singh², Dr. Dibakar Das¹ (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](#)¹, Dr. Subhadip Bhandari², Mr. Lucas Lemos Da Silva¹, Prof. Giorgia Franchin², Dr. Manuel Hinterstein¹ (1. Fraunhofer IWM, 2. Department of Industrial Engineering, University of Padova)
- 10am **Additive Manufacturing of Lithium Disilicate Glass-Ceramics for Dental Applications**
» [Mrs. Belkis Güneş Kara](#)¹, Prof. Kim Vanmeensel¹, Prof. Bart Van Meerbeek¹, Prof. Fei Zhang¹ (1. KU Leuven)
- 10:20am **Coffee Break**
Jožef Stefan Institute
- 10:50am **Material Extrusion II**
Jožef Stefan Institute

- 10:50am **Application of additive manufacturing for innovative UO₂ nuclear fuels**
» [Mr. Ivan Mestrallet](#)¹, Mr. Olivier Fiquet¹, Prof. Gweni Alonso-Aruffo², Prof. Vincent Pateloup² (1. CEA CADARACHE, 2. CNRS, Université de Limoges, IRCER)
- 11:10am **Tailoring of printable bone filling cements for their reactive paste extrusion via robocasting**
» [Ms. Bertille Belleville](#)¹, Dr. David Grossin², Dr. Fabien Brouillet¹, Prof. Christèle Combes² (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)
- 11:30am **Red mud as a functional additive in 3D-printed γ -Al₂O₃-based catalytic ceramics**
» [Mrs. Gemma Cruz Ortega](#)¹, Dr. Adela Svobodova², Mrs. ISABEL SERRANO¹, Prof. JORDI LLORCA¹, Dr. Joan Josep Roa Rovira³ (1. Polytechnic University of Catalonia, 2. University of Barcelona, 3. GPA Innova)
- 11:50am **Lunch**
Jožef Stefan Institute
- 12:50pm **Technology**
Jožef Stefan Institute
- 12:50pm **3D volume morphology characterization of additive manufactured ceramic materials using advanced automated DualBeam technology**
» [Dr. Min Wu](#)¹ (1. Thermo Fisher Scientific)
- 1:10pm **Debinding strategies for FFF-printed BaTiO₃ composite filaments**
» [Dr. Peter Veteska](#)¹, Dr. Michaela Benköová¹, Dr. Zora Hajdúchová¹, Dr. Ľuboš Bača¹, Prof. Marián Janek¹ (1. Department of Inorganic Materials, Faculty of Chemical and Food Technology, Slovak University of Technology)



Continued from **Tuesday, 12 May**

1:30pm **Fast microwave treatment of zirconia parts printed by FDM**
 » [Mr. Axel Krzyzaniak](#)¹, Dr. Florian Jean¹, Dr. Marie Lasgorceix¹, Dr. Anthony Thuault¹, Prof. Anne Leriche¹ (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](#)¹, Dr. José Pizarro¹, Prof. Uwe Wolfram², Dr. Johanna Mueller Elmau¹ (1. Federal Institute for Materials Research and Testing (BAM), 2. Technische Universität Clausthal)

2:10pm **Poster Session II + Coffee break**
Jožef Stefan Institute

Study of the 3D printing of ferrite on mechanical properties
 » [Ms. Marine Brocheton](#)¹, Dr. Karine Wittmann Teneze¹, Dr. Denis Autissier¹ (1. CEA Le Ripault)

Additive-Manufactured Porous Ceramic Structures for Passive Vapor Extraction in Micro-Apartments A Conceptual Application Study
 » [Ms. Csilla Csipkó](#)¹, Dr. Mária Réka Antal¹, Dr. Péter György Horváth¹, Ms. Vivien Nagy¹ (1. University of Sopron)

Two-Photon Polymerization of Ceramics: Micro-Scale Mechanical Properties
 » [Ms. Anna Linden](#)¹, Dr. Birte Riechers¹, Prof. Jens Günster¹, Dr. Johanna Mueller Elmau¹ (1. Federal Institute for Materials Research and Testing (BAM))

Comparative Study of Al₂O₃ Ceramic Samples Fabricated Using Fiber Laser and CO₂ Laser Powder Bed Fusion
 » [Prof. Geethapriyan Thangamani](#)¹, Prof. Alberta Aversa¹, Prof. Elisa Padovano¹, Prof. Rosa Taurino², Prof. Federica Bondioli¹ (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)

DIW of Fiber-Reinforced Geopolymers: Rheology Optimization and Mechanical Toughening Mechanisms
 » [Ms. Chuhui Qin](#)¹, Dr. Xuhao Zhang², Prof. Paolo Colombo¹ (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](#)¹, Dr. Rok Rudolf¹, Dr. Uroš Bohinc¹ (1. Slovenian National Building and Civil Engineering Institute)

Integrating Synthesis and Additive Manufacturing in Polymer-Derived Bioglasses

» [Ms. Linda Furlan](#)¹, Dr. Hamada Elsayed², Prof. Enrico Bernardo¹ (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](#)¹, Mr. Matyáš Machalla¹, Dr. Jakub Mlotek¹ (1. VSB - Technical University of Ostrava)

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

» [Ms. Ana Caetano](#)¹, Dr. Nuno Gonçalves², Dr. João Labrincha¹, Dr. Rui Novais³ (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](#)¹, Dr. Adam Boleslavský¹ (1. VSB - Technical University of Ostrava)



Continued from **Tuesday, 12 May**

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

» [Dr. Hamada Elsayed](#)¹, Dr. Edgar Benjamin Montufar Jimenez², Prof. Roman PEREZ ANTONANZAS³, Prof. Oguzhan Gunduz⁴ (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](#)¹, Ms. Maryam Haerifar¹, Dr. Filippo Gobbin¹, Prof. Paolo Colombo¹ (1. Department of Industrial Engineering, University of Padova)

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

» [Mr. Wolfgang Freudenberg](#)¹ (1. University of Bayreuth)

Minimizing the Surface Roughness of Additively Manufactured Alumina

» [Mr. Bekir Gürkan Kaynak](#)¹, Ms. İrem Sude Geven¹, Prof. Simge Çınar Aygün¹ (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. Mussadiq Shah](#)¹, Mr. Tobias Edtmaier¹, Mr. Felix Bauer², Prof. Milan Krcalik², Dr. Vaibhav Pandey³, Dr. Aljaž Ivekovič⁴, Prof. Thomas Konegger¹ (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](#)¹, Prof. Andraž Kocjan², Dr. Aljaž Ivekovič³ (1. Jozef Stefan Institute, Department for Nanostructured Materials, Ljubljana, 2. Jožef Stefan Institute (JSI), Ljubljana, Slovenia, 3. Jožef Stefan Institute, Ljubljana, Slovenia)

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

» [Ms. Marija Kovač](#)¹, Ms. Vesna Miljić¹, Prof. Jovana Grahovac¹, Dr. Ivana Danilov¹, Dr. Bojan Miljević¹, Prof. Snežana Vučetić¹ (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](#)¹, Mr. Gabriel Hercules Navarro¹, Prof. Italo Leite de Camargo², Prof. Ana Paula Luz¹ (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. İrem Sude Geven](#)¹, Mr. Bekir Gürkan Kaynak¹, Prof. Simge Çınar Aygün¹ (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](#)¹, Mr. Jakob Schütz¹, Mrs. Swantje Funk¹, Dr. Tobias Fey¹ (1. Friedrich-Alexander-Universität Erlangen-Nürnberg)

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

» [Ms. Albina Murashko](#)¹, Dr. Yaroslav Filippov¹, Dr. Pavel Evdokimov¹, Dr. Valery Putlyaev¹ (1. Lomonosov Moscow State University)

Optimization of composition and processing conditions of zeolites/poly lactide filaments

» [Dr. Jakub Marchewka](#)¹, Prof. Maciej Sitarz¹ (1. Faculty of Material Science and Ceramics, AGH University of Krakow)



Continued from **Tuesday, 12 May**

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

» [Mr. Daniel Perello](#)¹, Prof. Julian Walker¹, Prof. Nuria Espallargas¹ (1. NTNU)

Influence of Additive Manufacturing Technology on the Porous Architecture and CO₂-Related Structural Properties of CaO-Functionalized Ceramic Monoliths

» [Mr. Quico Viciano Yuste](#)¹, Mrs. Cristina Fabuel Bartual¹, Dr. M^a Pilar Gómez-Tena¹, Dr. Eulalia Zumaquero Silvero¹ (1. ITC-AICE)

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

» [Mr. Sheeraz Khan](#)¹, Dr. Abel Ourgessa², Dr. Ahmed Gamal Abd-Elsatar², Mr. Mohammed Boujida², Dr. Mokhtar Mahmoud², Dr. Jozef Kraxner² (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](#)¹, Dr. Cristina BUSUIOC¹, Mr. Daniel-Doru Cristea², Mr. Andrei Nedelcu³, Dr. Mihai Dragomir², Dr. Eduard Liciu² (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](#)¹, Dr. Clara Minas-Payamyar¹, Dr. Philipp Gingter¹, Dr. Lars Schnetter¹ (1. Schunk Ingenieurkeramik GmbH)

Integration of XpCT and Additive Manufacturing for the Restoration of Cultural Heritage Using Geopolymer Binders

» [Ms. Ekaterina Sokolova](#)¹, Dr. Lucia Mancini¹, Dr. Lidija Korat¹, Mr. Maurizio Pietro Bellotto², Mrs. Inna Žbona³ (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](#)¹, Ms. Martina Salzano de Luna¹, Mr. Giovanni Filippone¹, Mr. Domenico Caputo¹, Prof. Paolo Aprea¹ (1. University of Naples Federico II)

Bone grafts with tunable resorbability : multi-material additive manufacturing combining Digital Light Processing (DLP) and inorganic binders.

» [Dr. Somers Nicolas](#)¹, Ms. Yasaman Mazloum Jahromi², Mr. Guillaume Marchal¹, Mr. Vincent Gillet³, Mr. Yoann Matagne¹, Dr. Florian Jean³, Dr. Frederic Boschini¹, Prof. Rudi Cloots¹ (1. University of Liège, 2. Department of Industrial Engineering, University of Padova, 3. CERAMATHs, Université Polytechnique Hauts-de-France)

Expanding Silicon Carbide Additive Manufacturing through Slurry-based LPBF: Process Innovations and Material Benefits

» [Ms. Mira Sinée](#)¹, Mr. Yannis Kinds¹, Prof. Brecht Van Hooreweder¹ (1. KU Leuven)

Nano-Hydroxyapatite-Reinforced Ceramic Hybrid Scaffolds with hDPSCs for Bone Tissue Engineering

» [Prof. Ana Sousa](#)¹, Prof. Rui Alvites², Dr. Bruna Lopes³, Dr. Patrícia Sousa³, Dr. Alcía Moreira⁴, Mr. André Coelho³, Mrs. Alexandra Rema³, Mrs. Sara Biscaia⁵, Mrs. Rachel Cordeiro⁵, Mrs. Fátima Faria⁶, Dr. Gabriela Silva⁶, Prof. Irina Amorim⁷, Prof. José Santos⁸, Prof. Luís Atayde³, Prof. Nuno Alves⁹, Prof. Marco Domingos¹⁰, Prof. Ana Maurício³ (1. ICBAS; CECA-ICETA; AL4AnimalS; RISE-Health; FP-BHS, 2. ICBAS; CECA-ICETA; Al4AnimalS; CESPU, 3. ICBAS; CECA-ICETA; Al4AnimalS, 4. ICBAS; CECA; Al4AnimalS, 5. ICBAS; CDRSP, 6. ICBAS, 7. ICBAS; i3S; IPATIMUP, 8. REQUIMTE-LAQV, 9. CDRSP, 10. Department of Solids and Structures, School of Engineering, Faculty of Science and Engineering & Henry Royce Institute)



Continued from Tuesday, 12 May	
3:10pm	Material Jetting <i>Jožef Stefan Institute</i>
3:10pm	Ceramic additive manufacturing by micron sized droplet jetting of thermoplastic feedstocks » Mrs. Ipeknaz Özden Moser ¹ , Dr. Aljaž Ivekovič ² , Prof. Andraž Kocjan ³ (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 ¹ , Mr. Michael Isakhani Zakaria ² , Mr. Jaakko Knuuttila ¹ , Ms. Nonna Nurmi ¹ , Prof. Erkki Levänen ¹ (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 ¹ , Dr. Marco Mariani ¹ , Dr. Antonio Javier Sánchez-Herencia ² , Dr. Begoña Ferrari ² , Dr. Nora Lecis ¹ (1. Politecnico di Milano, 2. Instituto de Cerámica y Vidrio)
5pm	Ljubljana City Tour <i>Roman Wall</i>
7pm	Gala Dinner <i>Pivnica Union Pub</i>

Wednesday, 13 May	
9am	ERC grants <i>Jožef Stefan Institute</i> 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 ¹ (1. University of Ljubljana, Faculty of Mechanical Engineering, Ljubljana, Slovenia)
9:30am	ERC project and the mystery behind » Dr. Matevz Dular ¹ (1. University of Ljubljana, Faculty of Mechanical Engineering, Ljubljana, Slovenia)
10am	Coffee Break <i>Jožef Stefan Institute</i>
10:30am	Analysis <i>Jožef Stefan Institute</i>
10:30am	Strength Testing, Fracture Statistics, and their Relevance for Defect Analysis » Mr. Maximilian Staudacher ¹ (1. Montanuniversität Leoben)
11am	Mechanical characterization of 2-materials ceramic structures for bone regeneration produced through Vat-Photopolymerization » Mrs. Martina Colombo ¹ , Mr. Luca D'Andrea ¹ , Dr. Serkan Nohut ² , Dr. Martin Schwentenwein ² , Prof. Pasquale Vena ¹ (1. Politecnico di Milano, 2. Lithoz GmbH)
11:20am	A Novel Specimen shape for Fracture Characterization of 3D-Printed Hydroxyapatite » Ms. Leire Viana ¹ , Mr. Luca D'Andrea ¹ , Mr. Giorgio Goretti ² , Dr. Martin Schwentenwein ² , Prof. Pasquale Vena ¹ (1. Politecnico di Milano, 2. Lithoz GmbH)



Continued from **Wednesday, 13 May**

11:40am **When Ceramics Flow: Science Behind Rheological Behavior and Stability of Zirconia Suspensions for Digital Light Processing**
» Mr. Patrik Sokola¹, Prof. Petr Ptáček¹, Dr. Michal Kalina¹ (1. Brno University of Technology)

12pm **YCN presentation**
Jožef Stefan Institute

12:15pm **Closing of yCAM 2026**
Jožef Stefan Institute