



Wednesday, 23 April

- 8:15am **Registration**
Amphi 300 - INP-ENSIACET
 Chaired by: Dr. Anna De Marzi and Dr. Sarah Diener and Dr. Johanna Saenger
- 9am **Opening of yCAM 2025**
Amphi 300 - INP-ENSIACET
 Chaired by: Dr. Anna De Marzi and Dr. Johanna Saenger and Dr. Sarah Diener
- 9:15am **Sponsors Pitch**
Amphi 300 - INP-ENSIACET
 Chaired by: Dr. Anna De Marzi and Dr. Johanna Saenger and Dr. Sarah Diener
- 9:40am **Material Jetting**
Amphi 300 - INP-ENSIACET
 Chaired by: Dr. Aljaž Iveković and Dr. Sarah Diener
- 9:40am **Porosity-Graded FGMs via Binder Jetting: A Study on Ceramic Materials**
 » [Mr. Francesco Bertolini](#), Dr. Marco Mariani, Dr. Carmen Galassi, Dr. Elisa Mercadelli, Dr. Carlo Baldisserri, Dr. Begoña Ferrari, Prof. Nora Lecis
- 10am **Influence of powder granulometry on the properties of Binder Jetting AlN parts**
 » [Ms. Fanny Pruvost](#), Dr. Sophie Guillemet-Fritsch, Dr. Lionel Presmanes, Ms. Alexia Mortagne-coderch, Dr. Yohann Thimont, Mr. Regis Delsol, Mr. Xavier Clause

- 10:20am **Coffee Break**
Salle polyvalente and cafétéria
- 10:50am **Vat Photopolymerization**
Amphi 300 - INP-ENSIACET
 Chaired by: Ms. Garima Thakur and Mr. Charlie Clark
- 10:50am **Optimizing DLP AM of Lunar Regolith Ceramics via Magnetic Beneficiation**
 » [Mr. Maxim Isachenkov](#), Dr. Antonio Mattia Grande, Dr. Giuseppe Sala
- 11:10am **Vat photopolymerization of aluminum nitride based thermal management systems**
 » [Mrs. Lilit Baghdasaryan](#), Mrs. Viktorya Rstakyan, Mrs. Marina Aghayan, Dr. Miguel Angle Rodríguez, Ms. Nonna Nurmi, Dr. Erkkka Frankberg
- 11:30am **Fabrication of SiOC(Fe) structures by Vat photopolymerization**
 » [Dr. Milan Vukšić](#), Prof. Thomas Konegger, Dr. Martin Schwentenwein, Prof. Sašo Gyergyek, Prof. Andraž Kocjan, Dr. Aljaž Iveković
- 11:50am **Fabrication of Hydroxyapatite Microneedles for Dental Applications using the LCM-DLP 3D Printing Technique**
 » [Mr. Luís Pereira](#), Ms. Catarina Lei, Mr. João Pereira, Mr. Jorge Luís, Dr. Sónia Patrício, Prof. José Martinho Oliveira, Dr. Joana Guimarães
- 12:10pm **Additive manufacturing of porous glass-ceramic photocatalytic 3D structures for wastewater treatment**
 » [Ms. Mansi Dua](#), Dr. Akansha Mehta, Prof. Enrico Bernardo, Dr. Jozef Kraxner
- 12:30pm **Lunch**
Salle polyvalente and cafétéria
- 1:30pm **Technology**
Amphi 300 - INP-ENSIACET
 Chaired by: Dr. Andrea Zocca and Dr. Maximilian Staudacher



Continued from **Wednesday, 23 April**

1:30pm **Pressureless Spark Plasma Sintering of Additively Manufactured Ceramics**

» [Prof. Andraž Kocjan](#), Mr. Nikhil Bhootpur, Mr. Miha Križaj, Dr. Aljaž Ivekovič

2pm **Development of Zirconia Slurry for Vat Photopolymerization and Supercritical Carbon Dioxide Extraction**

» [Ms. Nonna Nurmi](#), Dr. Erkkka Frankberg, Dr. Dominique Hautcoeur, Prof. Essi Sarlin, Prof. Erkki Levänen

2:20pm **AI-assited elastic control of 3d printing by micro-extrusion**

» [Dr. Julien GERHARDS](#), Dr. Fabrice Rossignol

2:40pm **Ceramic/metal multi-material parts by 3D extrusion printing and sintering: experiments and FEM modeling of the sintering stage**

» [Ms. Elsa Nougier](#)

3pm **Poster Session I and Coffee Break**

Amphi 300 - INP-ENSIACET

Advances in Ceramic Additive manufacturing: Polymer Derived Ceramics and photopolymerization 3D Printing

» [Dr. Apoorv Kulkarni](#), Dr. Hamidreza Sarvestani, Dr. Behnam Ashrafi, Mr. Thomas Lacelle, Dr. Michael Jakubinek, Dr. Yadienka Martinez-Rubi

Direct ink writing of geopolymers based on metakaolin and ceramic waste

» [Dr. Carlotta Pacente](#), Dr. Giulia Masi, Prof. Andrea Saccani, Prof. Maria Bigozzi

Reaction bonded technical ceramics via binder jet 3D printing

» [Mr. Philipp Koberg](#), Mr. Fabian Heinz, Dr. Clara Minas-Payamyar, Dr. Philipp Gingter, Dr. Lars Schnetter

LSD-print of multicolored dental restorations by lithium disilicate and zirconia

» [Mrs. Janett Hilgenfeld](#)

Photosensitizers for additive manufacturing of ceramic materials.

» [Ms. Gioia Musiu](#), Dr. Francesca Mazzanti, Dr. Enrico Leoni, Dr. Paride Fabbri, Prof. Stefano Caramori

Thermal evolution of preceramic polysiloxanes for Digital Light Processing (DLP) to silicon oxycarbide (SiOC)

» [Ms. Zofia Kucia](#), Dr. Jakub Marchewka, Dr. Piotr Jeleń, Ms. Justyna Grygierek, Prof. Maciej Sitarz

Preparation of the High-Entropy Ceramic suspensions suitable for Digital Light Processing technique

» [Mr. Erik Ščasnovič](#), Dr. Přemysl Šťastný, Mrs. Eliška Šiška Virágová, Mrs. Pavlína Sárffy, Mr. Jan Pišťák, Dr. Václav Pouchlý

Binder Jetting of 3D alumina ceramic

» Mrs. Marie Beaujard, Mr. Matthieu Deltrel, [Mr. Rémi PERIN](#)

Residual stress profiles in complex 2-materials ceramic shapes produced through Vat-Photopolymerization

» [Mrs. Martina Colombo](#), Dr. Luca D'Andrea, Dr. Martin Schwentenwein, Dr. Serkan Nohut, Prof. PASQUALE VENA

Synthesis of preceramic polymers for Digital Light Processing 3D printing of SiOC materials

» [Mr. Wojciech Wieczorek](#), Dr. Jakub Marchewka, Ms. Justyna Grygierek, Prof. Maciej Sitarz

Microstructural Study of Porosity in Composite 3D Printed Scaffolds for Spinal Fusion

» [Mrs. Eliška Siska Viragova](#), Dr. Přemysl Šťastný, Dr. Zdenek Chlup, Dr. Klára Částková

Topology Optimization and Mechanical Characterization of Triply Periodic Minimal Surface (TPMS) Structures in Tricalcium Phosphate and Hydroxyapatite for Bone Tissue Engineering

» [Ms. Giulia Verlato](#), Mr. Francesco Carollo, Dr. Luca Grigolato, Prof. Gianpaolo Savio, Prof. Enrico Bernardo, Prof. Hamada Elsayed



Continued from **Wednesday, 23 April**

Aspects of Ceramic Slurry Preparation for Vat-Photopolymerization Additive Manufacturing

» [Mr. Jošt Oblak](#), Dr. Jakob König, Prof. Matjaž Spreitzer

Binder removal process in large 3D printed parts - effect of different atmospheres

» [Dr. Přemysl Šťastný](#), Prof. Martin Trunec, Dr. Martin Schwentenwein, Dr. Dominik Brouczek

Stereolithographic 3D-printed zinc oxide structures for efficient wastewater remediation

» [Mrs. Nana Brguljan](#), Mr. Jošt Oblak, Mr. Nik Gračanin, Dr. Slavko Bernik, Dr. Marjeta Maček, Dr. Matejka Podlogar

3D-Printed Bioactive Glass-Glass/Ceramic Based Scaffolds: Advances in Bone Tissue Engineering for the #ReBone Project

» [Mrs. Maria Erato Pianou](#), Prof. FRANCESCO BAINO, Prof. ENRICA VERNE, Prof. PASQUALE VENA

Crystallographic texturing of barium titanate by combination of 3D printing and templated grain growth

» [Mr. Jan Pišťák](#), Dr. Přemysl Šťastný, Mrs. Eliška Šiška-Virágová, Dr. Pavel Tofel, Dr. Klára Částková, Prof. Martin Trunec

Innovative 3D Printing of Acid-Activated Geopolymers: Rheological Insights

» [Mr. Gabriel Tochetto](#), Dr. Anna De Marzi, Dr. Marco D'Agostini, Dr. Karine Goulart de Oliveira, Prof. Dachamir Hotza, Prof. Maria Eliza Nagel-Hassemer, Prof. Giorgia Franchin, Prof. Paolo Colombo

Integrating additive manufacturing and powder sintering techniques for fabricating advanced transparent 3D glass structures

» [Ms. Garima Thakur](#), Dr. Arish Dasan, Dr. Jozef Kraxner, Prof. Enrico Bernardo, Prof. Dusan Galusek

3D Printed composite scaffolds for bone regeneration

» [Mrs. Liana Mkhitarian](#), Mrs. Viktorya Rstakyan, Mrs. Lilit Baghdasaryan, Mrs. Marina Aghayan, Dr. Miguel Angle Rodríguez

Reinforcing the comprehension of deformations in FFF printing for silicon carbide materials

» [Ms. Maëlys Gauthé](#), Dr. Xavier Tonnellier, Mr. Jacques Rodolfo, Dr. Christophe Lorrette, Dr. Laurent Chaffron, Mr. Marc Roulliay, Dr. Yvan Sortais

4:30pm

Emerging, hybrid and multi-material

Amphi 300 - INP-ENSIACET

Chaired by: Ms. Daorong Ye and Dr. Romain Trihan

4:30pm

3D printing of silica glass

» [Ms. Inès Laurent](#), Prof. Gaele Delaizir, Dr. Romain Trihan, Dr. Marguerite Bienia

4:50pm

Printing and characterization of multiscale porosity hydroxyapatite bone scaffold by dynamic molding

» [Ms. Isaline Lalanne](#), Ms. Maéna Galeron, Dr. Edwin-Joffrey Courtial, Dr. Fabien Brouillet, Prof. Ghislaine Bertrand, Dr. David GROSSIN, Dr. Ambra Paterlini, Dr. Julien Barthès

5:10pm

Study of the 3D printing of advanced ceramics with acoustic waves

» [Ms. Cloé Benoit](#), Mr. Geoffroy Chevallier, Mr. Marc Mihajlovic, Dr. Antoine Dode, Mrs. Marine Bertucchi, Mr. Benjamin Duployer, Dr. Christophe Tenailleau, Dr. Cedric Neuville

5:30pm

Effects of water content and surfactant/acrylate ratio on 3D printed cordierite lattice structures by hybrid direct ink writing of silicone emulsions

» [Ms. Valeria Diamanti](#), Prof. Enrico Bernardo, Prof. Hamada Elsayed, Dr. Tobias Fey

6pm

Welcome Reception

Salle polyvalente and cafétéria



Thursday, 24 April

9am	Applications I <i>Amphi 300 - INP-ENSIACET</i> Chaired by: Mathilde Maillard and Dr. Johanna Saenger
9am	Insights into the AM market - From trains to horse tooth » Dr. Sven Fritzsche
9am	Direct-ink writing of cobalt-zirconia monolithic catalysts for hydrogen production » Mr. SEYED ALI RAZAVI , Dr. Gemma Fargas, Ms. Tania Vilella, Ms. Isabel Serrano, Dr. Miguel Laguna-Bercero, Prof. Luis Llanes, Dr. Daniel Rodríguez, Prof. Maria Pau-Ginebra, Prof. Jordi Llorca, Dr. Miguel Morales
9am	3D printed mullite monoliths with triply periodic minimal surface (TPMS) architectures functionalized with HKUST-1 for CO2 capture » Mrs. Arianna Bertero , Dr. Bartolomeo Coppola, Dr. Julien Schmitt, Dr. Olinda Gimello, Dr. Philippe Trens, Dr. Paola Palmero, Dr. Jean Marc Tulliani
9am	Alumina microdevices produced from a derived slip-casting technique for medical applications » Dr. Romain Trihan , Mr. Benjamin Minnig, Mr. Umut Taylan, Mr. Nicolas Zaugg, Prof. Patrik Hoffmann, Dr. Carine Blanchard, Mrs. Claire Bouix-Peter, Dr. Michael Stuer
10:30am	Coffee Break <i>Salle polyvalente and cafétéria</i>
11am	Applications II <i>Amphi 300 - INP-ENSIACET</i> Chaired by: Mathilde Maillard and Dr. Johanna Saenger

11am	Direct Ink Writing of high-performance structural elements based on alkali-activated Lunar regolith » Dr. Marco D'Agostini , Dr. Claudia Esposito, Prof. Luca Valentini, Prof. Giorgia Franchin
11:20am	Vat photopolymerization for fabricating novel components for thermal management » Ms. Lisa Mikiss , Dr. Abhijeet Lale, Prof. Thomas Konegger, Dr. Martin Schwentenwein
11:40am	3D Printing of Ceramic Substrates for Coral Larvae Settlement » Mr. Matthew Drane , Ms. Georgia Astbury, Dr. Elsa Antunes
12:20pm	Lunch <i>Salle polyvalente and cafétéria</i>
1:20pm	Material Extrusion I <i>Amphi 300 - INP-ENSIACET</i> Chaired by: Dr. Marco D'Agostini and Dr. Larissa Wahl
1:20pm	Study of the 3D printing process of TiO₂ using DIW for water treatment » Dr. José Antonio Padilla Sánchez , Ms. Paola Tirira, Ms. Anna Juncosa, Dr. Pol Barcelona, Dr. Mercè Segarra, Dr. Elena Xuriguera, Dr. Ignasi Sires
1:40pm	Development of preceramic polymer-based filaments suitable for FFF of functional SiOC ceramics » Dr. Vaibhav Pandey , Mr. Nikhil Bhootpur, Prof. Sašo Gyergyek, Dr. Aljaž Iveković
2pm	Deformation mechanism of CF-PEEK parts manufactured by the FFF technology during the process chain (LSI) to a final CMC » Mr. Wolfgang Freudenberg
2:20pm	Fast Direct Ink Writing Coupled With Ultra-Fast Sintering » Ms. Flavie Lebas , Prof. Sylvain Marinell, Dr. Charles Manière



Continued from **Thursday, 24 April**

2:20pm

Poster Session II and Coffee Break

Salle polyvalente and caf t ria

Fabrication of ceramics complex part using pellets additive manufacturing (PAM)

» Dr. Cathy Delmotte, Dr. Gr gory Martic, [Mr. Pierre Grimaud](#), Dr. Enrique Juste, Dr. Fabrice Petit

Study of TiO₂-HCl inks to evaluate chemical sintering in 3D printing processes using DIW for water treatment

» [Ms. Mariona Roura](#), Dr. Jos  Antonio Padilla S nchez, Ms. Paola Tirira, Dr. Pol Barcelona, Dr. M nica Mart nez, Dr. Elena Xuriguera, Dr. Ignasi Sires

Rheological analysis of alternative magnesium cement for its suitability for additive manufacturing

» [Dr. Pol Barcelona](#), Dr. Jos  Antonio Padilla S nchez, Ms. Anna Alfocea-Roig, Mr. David Vera-Rivera, Dr. Jessica Giro-Paloma, Dr. Joan Formosa, Dr. Elena Xuriguera

Pathways to Bone Regeneration via Ceramic Vat Photopolymerization: Designing Optimal Calcium Phosphate Scaffold

» [Dr. Antonia Ressler](#), Mr. Roope Ohlsbom, Dr. Arjen Gebraad, Ms. Setareh Zakeri, Mr. Markus Hannula, Dr. Toni-Karri Pakarinen, Prof. Jari Hyttinen, Dr. Martin Schwentenwein, Dr. Erkkka Frankberg, Prof. Erkki Lev nen, Prof. Susanna Miettinen

Life Cycle Assessment of Alumina sheets obtained by FDM and SLA

» [Mr. Joaquim Serra-Rada](#), Dr. Pol Barcelona, Ms. Mariona Roura, Dr. Elena Xuriguera, Dr. Merc  Segarra, Dr. M nica Mart nez

Direct ink writing of zeolite porous bodies for atmospheric water generation

» [Mr. Xavier Chouquet](#), Dr. Andrea Zocca, Mr. Niels Braunschweig, Prof. Jens G nster

3D printing of antibacterial ceramic composite bone replacements

» [Ms. Iris Soares](#), Prof. Silke Christiansen, Dr. Ina Erceg, Dr. George Sarau

Additive manufacturing at help for manned Moon exploration

» [Mr. Julien Granier](#), Prof. Thierry Cutard, Prof. Patrick Pinet, Prof. Yannick Le Maout, Dr. Serge Chevrel, Prof. Thierry Sentenac

Properties and Limitations of Hydroxyapatite-Based Microscaffolds

» [Mr. Roman Fialka](#), Dr. Juraj  radn  ek, Dr. Peter Veteška, Dr. Zuzana V rchulov  Nov kov , Dr. L boš Danišovi , Dr. L boš Ba a, Prof. Mari n Janek

Performance evaluation of new polymer additives for technical ceramic shaping processes

» [Mr. ISMAIL MBARKI](#), Dr. Anne AIMABLE, Dr. Fabrice Rossignol, Dr. Graham ABRAMO, Mr. Samuel CRABTREE

Preparation of nickel/silica heterogenous catalysts obtained by Direct Ink Writing 3D printing

» [Mr. Łukasz Wilk](#), Dr. Jakub Marchewka, Prof. Maciej Sitarz

Thermal processing of nickel/silica scaffolds prepared by Direct Ink Writing 3D printing

» [Dr. Jakub Marchewka](#), Mr. Łukasz Wilk, Prof. Maciej Sitarz

Optimizing BaTiO₃-Filled PLA Filaments for FDM: Toward Printable Piezoelectric Materials

» [Mr. Soufyane Satha](#), Dr. Mohamed Benachour, Dr. Mohamed Rguiti, Prof. christian Courtois

Application of additive manufacturing to produce innovative UO₂ nuclear fuels

» [Mr. Ivan Mestrallet](#), Mr. Olivier Fiquet



Continued from **Thursday, 24 April**

Laser powder bed fusion (L-PBF) manufacturing of multi-material metal-ceramic devices

» [Ms. Maria Camila Zapata Lopez](#), Dr. Valérie Baco, Dr. Isabelle Pasquet, Prof. Philippe Tailhades, Dr. Frédéric Veron, Dr. Olivier Vendier, Dr. Kateryna Kiryukhina

Preparation of Implants Combining 3D Printing and Direct Foaming Method

» [Ms. Pavlína Šárfy](#), Dr. Přemysl Šťastný, Dr. Klára Částková

Advancements in Additive Manufacturing of ferroelectric ceramic super-structures with unique metamaterial response

» [Dr. Kyriakos Didilis](#), Dr. Guilherme Victor Selicani, Dr. Debora Marani, Prof. Astri Bjørnetun Haugen, Prof. Vincenzo Esposito

Development of reactive robocasting applied to calcium phosphate compounds in the field of bone repair

» [Ms. Bertille Belleville](#), Dr. Fabien Brouillet, Prof. Christèle Combes, Dr. David Grossin

Fused Deposition Modelling of Carbon Fibre-reinforced SiC Ceramic Matrix Composites

» [Ms. Daorong Ye](#), Prof. Jon Binner

3D-Printed γ -Al₂O₃ scaffolds for catalytic applications.

» [Mrs. Gemma Cruz Ortega](#), Ms. Isabel Serrano, Dr. Lourdes Franco, Dr. Gemma Fargas, Prof. Jordi Llorca, Dr. Joan Josep Roa

Carbon fiber/SiOC ceramic matrix composite truss-based structures fabricated via UV-assisted robot direct ink writing

» [Dr. Anna De Marzi](#), Ms. Nicole Sturaro, Prof. Giorgia Franchin

Combining rheology, image analysis and machine learning to evaluate the printability of particle-loaded suspensions

» [Ms. Enrica Luzzi](#), Mr. Domenico Caputo, Ms. Martina Salzanodeluna, Mr. Giovanni Filippone, Mr. Paolo Aprea

3:50pm

Analysis

Amphi 300 - INP-ENSIACET

Chaired by: Dr. Maximilian Staudacher and Dr. Anna De Marzi

3:50pm

Analysis and categorisation of defects in additive manufacturing of ceramics

» [Dr. Maximilian Staudacher](#), Dr. Uwe Scheithauer, Prof. Tanja Lube

4:10pm

Electron Backscatter Diffraction (EBSD) Analysis on Hybrid Bioceramic 3D-printed Parts

» [Ms. Sarah Nistler](#), Mr. Tomasz Wojcik, Dr. Stefan Baudis, Dr. Martin Schwentenwein, Prof. Jürgen Stampfl

5:15pm

Bus Transfer to the Guided Tour

INP-ENSIACET

5:45pm

Guided Tour

Place d'Arménie

7:30pm

Social Dinner

Flashback Cafè

11:55pm

Bus Transfer from Social Dinner

Flashback Cafè

Friday, 25 April

9am

Patent and Funding

Amphi 300 - INP-ENSIACET

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

10:10am

Coffee Break

Salle polyvalente and caf  teria



Continued from **Friday, 25 April**

- 10:40am **Material Extrusion II**
Amphi 300 - INP-ENSIACET
Chaired by: Dr. Marco D'Agostini and Mr. Wolfgang Freudenberg
- 10:40am **Fabrication of multi-scale porous structures for hydrogen evolution: DIW of strontium titanate pH-responsive emulsion gels**
» Dr. Zhidong Luo, Dr. Hong Wang, Dr. Emma Jones, Dr. Charlotte Boott, Prof. Andrew Cooper, Dr. Esther García-Tuñón
- 11am **Development of 3D printing methodology of ceramic materials for technical and design applications**
» Mr. Adam Boleslavský, Dr. Hana Ovcacikova, Dr. Milan Mihola
- 11:20am **Environmentally friendly water-based robocasting of complex barium titanate structures**
» Dr. Larissa Wahl, Dr. David Köllner, Ms. Michelle Weichelt, Prof. Nahum Travitzky, Dr. Tobias Fey
- 11:40am **Material Thermal Extrusion (MTE) of nano TiO₂-Graphene based photoelectroactive electrodes for green hydrogen generation**
» Mr. Pablo Ortega Columbrans, Mr. Samuel Oghenekevwe Wisike, Dr. Caterina Chirico, Dr. Ana Ferrandez-Montero, Dr. Antonio Javier Sanchez-Herencia, Dr. Begoña Ferrari
- 12pm **YCN Presentation**
Amphi 300 - INP-ENSIACET
- 12:15pm **Closing yCAM 2025**
Amphi 300 - INP-ENSIACET
Chaired by: Dr. Anna De Marzi and Dr. Sarah Diener and Dr. Johanna Saenger