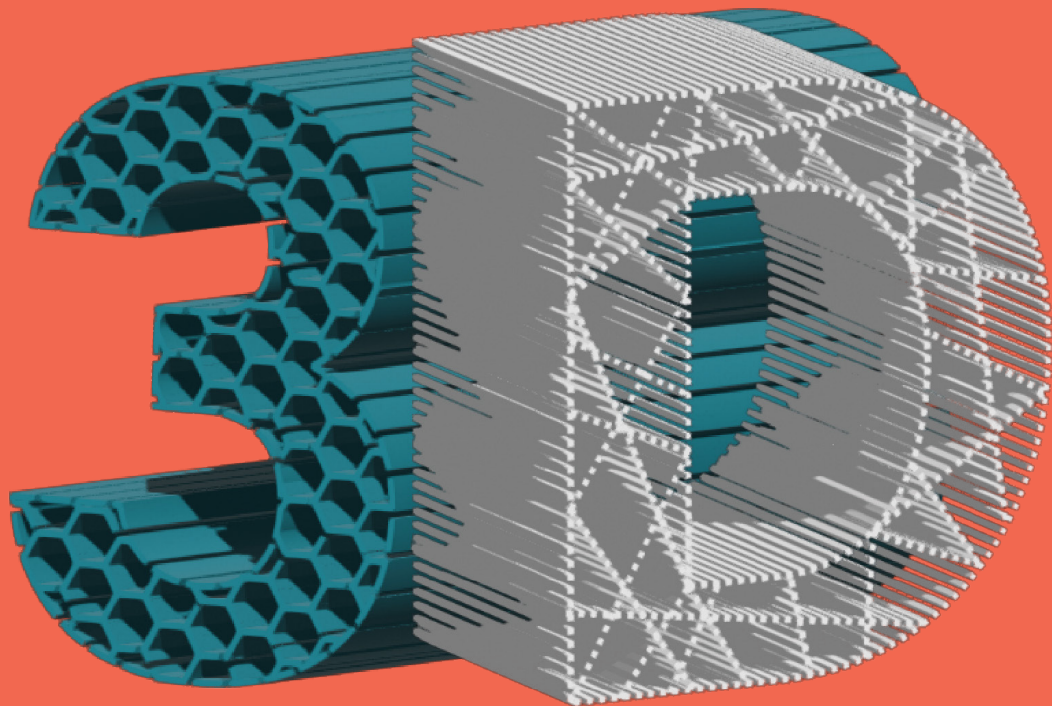




ADDITIVE MANUFACTURING Conference 2025

1ST EDITION

Conference Series on Additive Manufacturing of Soft Materials

7-10 October 2025 / San Sebastián, Spain



Universidad
del País Vasco

Euskal Herriko
Unibertsitatea

POLYMAT

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MAIN EVENTS

Young Researchers Symposium / 6th October 2025 / **Centro Carlos Santamaria**

Young Social Beer / Monday 6th October 2025 / **Bidassoa Basque Brewery**

Main Conference / 7th-10th October 2025 / **Palacio Miramar**

Welcome Cocktail and Poster Exhibition / Tuesday 7th October 2025

Social Activities / Wednesday 9th October 2025

Gala Dinner / Thursday 9th October 2025 / **Ténis Ondarreta**

Award Cerimony & Final Remarks / Friday 10th October 2025

MAIN PLACES

Centro Carlos Santamaria / Universidad del Pais Vasco/Euskal Herriko Unibertsitatea, Pl. de Elhuyar, 2, 20018 Donostia

Cafetería Gureak / Pl. de Elhuyar, 20018 Donostia

Palacio de Miramar / Palacio de Miramar, Paseo Miraconcha, 48, 20007 Donostia

Bidassoa Basque Brewery / Usandizaga Kalea, 23, 20002 Donostia

Ténis Ondarreta / Eduardo Chillida Pasealekua, 9, 20008 Donostia

USEFUL INFORMATION

Wi-fi / name: MIRAMAR / password: miramar1893

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Instagram / [@3dam2025-sansebastian](#)

Website / <https://3dam-conference.com/>

08:30
/09:15

Registration
Centro Carlos Santamaría - Main Hall

09:15
/09:25

Introduction
Auditorium

Timothy Long / Arizona State University

Xabi Lopez de Pariza / University of the Basque Country

09:25
/10:10

Plenary session
Timothy Long / Arizona State University

Focusing a Sustainability Lens on Additive Manufacturing: Asking More from Science and Engineering

Young Researchers Symposium

Auditorium

Chair: **Xabi Lopez de Pariza** / University of the Basque Country

10:15
/11:35

Teresa Carranza
/ University of the Basque Country (UPV/EHU)
Gallic Acid as a Green Crosslinker for Gelatin 3d Printed Scaffolds

10:35
/10:55

Chengzhi Li
/ Albert-Ludwigs-Universität Freiburg
3d Printed Elastic Fluoropolymer with High Stretchability and Enhanced Chemical Resistance for Microfluidic Applications

10:55
/11:15

Johannes Markhart
/ Heidelberg University
New Programmable Polymers for Light-Based 4D Printing

11:15
/11:45

Coffee Break
Sala Txillardegui

11:45
/12:05

Anthony Kever
/ University of Mons (UMONS)
3D-Printed Drug-Eluting Implants for the Treatment of Periodontitis

12:05
/12:25

Ander Leizaola
/ University of the Basque Country (UPV/EHU)
Standardizing Light: A Modular Photoreactor for Controlled, Reproducible and High-Throughput Photochemical Reactions

12:25
/12:45

Gabriel Grösbacher
/ University Medical Center Utrecht
Near Infrared Tomography for Density Based Adaptive Context-Aware Volumetric Printing

12:45
/13:05

Sebastián Locatelli
/ Consejo Nacional de Investigaciones Científicas y Técnicas-CONICET-Argentina
3D-Printable Biobased Eutectogels Derived from Soybean Oil and Natural Deep Eutectic Solvents for Underwater Electromyography Recording

13:05
/14:30

Lunch Break
Gureak Cafeteria

Young Researchers Symposium

Auditorium

Chair: **Samantha Catt** / University of Heidelberg

14:30
/15:00

Keynote
TO BE ANNOUNCED
/ Wiley - Global Leader in Publishing, Education and Research
To be announced

15:00
/15:20

Elizabeth Recker
/ University of Texas at Austin
Wavelength-Selective One-Pot Multimaterial DLP 3D Printing

15:20
/15:40

Marina León-Calero
/ CSIC-ICTP (polymers institute)
Conductive Tps for Pellet-Based 3d Printing: Processing, Characterization and Sensor Application

15:40
/16:10

Coffee Break
Sala Txillardegui

16:10
/16:30

Ana María Muñoz Mateo
/ Polymat
Development of GelMa-based bioink for bacterial detection

16:30
/16:50

Yiming Ji
/ EPFL
Volumetric Additive Manufacturing of Composites via Hydrogel Infusion

16:50
/17:10

Lara Rodriguez
/ CICbiomaGUNE
3D printable CNT scaffolds for neuronal tissue engineering

17:10
/17:30

Niklas Schwegler
/ Heidelberg University
Reversible coiled-coil peptide functionalization of 3D-microprinted hydrogels

17:30
/17:45

Conclusion Remarks
Auditorium

Timothy Long / Arizona State University

Xabi Lopez de Pariza / University of the Basque Country

19:00

Young Social Aperitivo
Bidassoa Tap Room

Bidassoa Basque Brewery / Usandizaga Kalea, 23, 20002 Donostia

Please come at the event with your badge.

Each participant will have 2 coupons: with one coupon you can have a beer, with two you can have a cocktail. You are free to use them as you wish.

08:15
/09:30

Registration
Palacio Miramar - Main Hall

09:00
/09:15

Introduction
Sala Julio Carlo Baroja

Haritz Sardon / University of the Basque Country

Timothy Long / Arizona State University

Eva Blasco / University of Heidelberg

09:15
/10:00

Plenary session
Sandra Van Vlierberghe / Ghent University

Sala Julio Carlo Baroja

Chair: **Haritz Sardon** / University of the Basque Country

Light-Based 3d Printing of Tunable Thiol-Ene Polymers: From Submicron Precision to Rapid Fabrication of Biodegradable Implant

Session 1
Sala Julio Carlo Baroja

Chair: **Qin Xiao-Hua** / ETH Zurich

10:05
/10:35

Keynote
Dorleta Jimenez de Aberasturi
/ CIC biomaGUNE

Biofunctional Resins for 4d Printing and Their Application in Vitro Model Design

10:35
/10:50

Disha Bandyopadhyay
/ EPFL

Self-Healing Polymers for Reconfigurable Architected Materials

10:50
/11:20

Coffee Break
Salón de Música & Salón Blanco

11:20
/11:50

Keynote
Riccardo Levato
/ Utrecht University

Light-based Volumetric Bioprinting and Imaging-Driven Manufacturing: Shining a New Light on Engineered Tissues and Organoids

11:50
/12:05

Alejandro Müller
/ Elsevier
Annual Awards for European Polymer Scientists sponsored by the journal POLYMER (Elsevier)

10:05
/10:35

Keynote
Katrien Bernaerts
/ Maastricht University

Biobased Photopolymer Resin for 3d Printing Containing Dynamic Imine Bonds for Fast Reprocessability

10:35
/10:50

Margherita Bernero
/ ETH Zurich

Subtractive Two-photon Microprinting of Architected Hydrogels to Guide Cell Network Formation

11:20
/11:50

Keynote
Eva Blasco
/ University of Heidelberg

4D printing with Light: Function Meets Sustainability

11:50
/12:05

Cristian Mendes-Felipe
/ BCMaterials - Basque Center for Materials, Applications and Nanostructures
Sustainable Photoluminescent Materials based on Soybean Oil-Photocurable Inks for Digital Light Processing

15:05 /12:20 **Bo Van Durme**
/ Ghent University
Advanced Fabrication of Thermo-Responsive Scaffolds for Tissue Engineering: Tailored Resin Development and 4D Microprinting

12:20 /12:45 **Invited**
Juan Rodriguez Hernandez
/ Institute of Polymer Science and Tecnology (ICTP-CSIC)
Designing Polymers for Additive Manufacturing for Biomedical Applications: From Antimicrobial Material to Biomedical Devices

15:05 /12:20 **Fernando Vidal Peña**
/ University of the Basque Country
Advanced strategies for recycling of functional 3D printing materials

12:20 /12:45 **Invited**
Marco Sangermano
/ Politecnico di Torino
Biobased Sustainable 3D-Printable UV-Curable Formulations

12:45 /14:15 **Lunch Break**
Salón de Música & Salón Blanco

14:15 /15:00 **Plenary session**
Martin Wegener / Karlsruhe Institute of Technology (KIT)

Sala Julio Carlo Baroja
Chair: **Eva Blasco** / University of Heidelberg
3D Laser Nanoprinting

Session 3
Sala Julio Carlo Baroja
Chair: **Riccardo Levato** / Utrecht University

15:05 /15:35 **Keynote**
Qin Xiao-Hua
/ ETH Zurich
3D Printed Bone Architectures for Medicine

15:35 /15:50 **Ane Urigoitia-Asua**
/ CIC BiomaGUNE
Engineering dynamic lung models: 4D LCD printing of thermoresponsive alveolar scaffolds

15:50 /16:05 **Viola Sgarminato**
/ EPFL Lausanne
Volumetric Additive Manufacturing of Complex Constructs For In Vitro Modeling

Session 4
Comedor Real
Chair: **Katrien Bernaerts** / Maastricht University

15:05 /15:35 **Keynote**
Zachariah Page
The University of Texas at Austin
Color- and Dose-Controlled Multimaterial Digital Light Processing 3D Printing

15:35 /15:50 **Pia Klee**
/ Heidelberg University
Tuneable Depolymerisation of Light-Based 3D Printed Structures on the Macro- and Micro-Scale

15:50 /16:05 **Markus Lunzer**
/ UpNano GmbH
Adaptive Resolution two-photon polymerization as mastering tool for nanoimprint lithography for the fabrication of large-area microfluidic devices

16:05 /16:35 **Coffee Break**
Salón de Música & Salón Blanco

Session 5
Sala Julio Carlo BarojaChair: **Dorleta Jimenez de Aberasturi** /
CIC BiomaGUNE16:35
/17:05**Keynote**
Emily Pentzer
/ Texas A&M University*Additive Manufacturing with Triblock
Polycarbonates*17:05
/17:20**Riccardo Rizzo**
/ EPFL Lausanne*Tomographic Bioprinting: A Universal
Approach for Biomimetic Organs-On-Chip*17:20
/17:35**Astrid Quaak**
/ Ghent University*From Light to Life: Rapid Volumetric 3D-Printing
and Real-Time Tracking of Biodegradable
Scaffolds.*17:35
/17:50**Agnieszka Sysło**
/ Polymer Competence Center Leoben*Development of carbon dot-based
photoinitiating systems for 3D printing
technologies*18:00
/19:30**Welcome Cocktail and Poster Exhibition**
Salón de Música & Salón Blanco**Session 6**
Comedor RealChair: **Zachariah Page** / University of
Texas at Austin16:35
/17:05**Keynote**
Joanna Ortyl
/ Cracow University of Technology*Water-Soluble Radical Photoinitiators for
Microfabricated of 3d Printed Objects*17:05
/17:20**Omaira Arias**
/ BCMaterials - Basque Centre for Materials,
Applications and Nanostructures*Design and Fabrication of Bio-based Materials
for Shape Memory 3D Printing*17:20
/17:35**Hojae Lee**
/ Korea Institute of Civil Engineering and
Building Technology*Rheological properties of a filament using
recycled construction demolition waste*17:35
/17:50**Audrey Laventure**
/ University of Montreal*Exploring phase separation, alignment and
molecular organization in 3D printed polymer
blends and crosslinked networks*

08:30
/08:45

Registration
Palacio Miramar - Main Hall

08:45
/09:30

Plenary session
David Mecerreyes / Polymat, University of the Basque Country

Sala Julio Carlo Baroja
Chair: **Emily Davidson** / Princeton University
3D Printing of Ionic and Electronic Conductive Polymers

Session 7
Sala Julio Carlo Baroja

Chair: **Johanna Schwartz** / Lawrence Livermore National Laboratory

09:35
/10:00

Invited
Sandra Camarero-Espinosa
/ POLYMAT, University of the Basque Country
UPV/EHU
From Static to Dynamic: 3d and 4d Printed Materials for Tissue Regeneration

10:00
/10:15

Robert Aguirresarobe
/ University of the Basque Country
Silica Aerogels by 3d Printing Vat Photopolymerization

10:15
/10:30

Michelas Maxime
/ Institut de Chimie Radicale
3D printing via polymerization-induced microphase separation using acrylate macromonomers instead of macroRAFT agents

10:30
/10:55

Invited
Jacques, Lalevée
/ Université de Haute Alsace
New Photoinitiating Systems for High Performance Materials and 3D Printing

10:55
/11:30

Coffee Break & Group Photo
Salón de Música & Salón Blanco, group photo outside

Session 9
Sala Julio Carlo Baroja

Chair: **Emily Pentzer** / Texas A&M University

11:30
/12:00

Keynote
Christopher Williams
/ Virginia Tech
Printing Out of the Box: Making the Impossible by Multi-material, -Modal, -Axis Additive Manufacturing

Session 8
Comedor Real

Chair: **Michael Bortner** / Virginia Tech

09:35
/10:00

Invited
Mark Dadmun
/ University of Tennessee
Tailor Made Polymeric Feedstocks for Powder Bed Fusion

10:00
/10:15

Alodi Pascal
/ Polymat
Influence of 3D printing on the electrical properties of conductive nanocomposites

10:15
/10:30

Mercedes Fernandez
/ Polymat EHU/UPV
Rheological Insight on 3d Printable Dynamic Hydrogels

10:30
/10:55

Invited
Michael Bortner
/ Virginia Tech
Additive Manufacturing for Selective Environmental Remediation

Session 10
Comedor Real

Chair: **Mark Dadmun** / University of Tennessee

11:30
/12:00

Keynote
Katharina Ehrmann
/ TU Wien
Expanding Material Frontiers in 3D Printing via Multi-Material Stereolithography

12:00 /12:15 **Filip Petko**
/ Cracow University of Technology
Stilbene-Based Iodonium Salts as One-Component Photoinitiators with Increased Quantum Yield of Acid Generation for Cationic VPP 3D Printing

12:15 /12:30 **Maialen Uribarrena Arrese-Igor**
/ EHU- Euskal Herriko Unibertsitatea
Biocompatible soy protein-based resins for high precision DLP 3D printing in tissue engineering

12:30 /12:55 **Invited Didier Gigmès**
/ CNRS
Advances in Nitroxide Mediated Photopolymerization : Toward Living 3d Micro and Macro Surface Functionalization

12:00 /12:15 **Zdenek, Veselý**
/ University of West Bohemia, Pilsen
IR thermodiagnosics of FLM process

12:15 /12:30 **Christine Jerome**
/ University of Liege
3D-printing of NIPU biomaterials

12:30 /12:55 **Invited Yinyin Bao**
/ University of Helsinki
Digital Light 3D Printing of Biodegradable Polymers

12:55 /14:15 **Lunch Break**
Salón de Música & Salón Blanco

Session 11

Sala Julio Carlo Baroja

Chair: **Robert Aguirresarobe** /
University of the Basque Country

14:15 /14:45 **Keynote Callie Higgins**
/ National Institute of Standards and Technology
Cure Depth Dynamics in Photopolymer Resins: Effects of Light Source Bandwidth and Absorber Type

14:45 /15:10 **Invited Antonio Dominguez-Alfaro**
/ Instituto de Microelectronics of Sevilla- Spanish National Research Council (IMSE-CNM-CSIC)
Shaping The Future of Bioelectronics: Innovation in Materials and Multi-Material 3D Printing

15:10 /15:25 **Alper Balkan**
/ École Polytechnique Fédérale de Lausanne (EPFL)
Light-Assisted Fabrication of Reversible Composites

Session 12 - Industrial

Comedor Real

Chair: **Timothy Long** / Arizona
University

14:15 /14:35 **Invited Ivan Sardon Barbero**
/ Indart3D
Pellet-Based Additive Manufacturing: Sustainability and Performance

14:35 /14:55 **Invited Jorge Madrid-Wolff**
/ Readily3D SA
Advanced Tomographic Printing: Enhancing (bio)fabrication with machine vision and high-throughput technologies

14:55 /15:15 **Invited Xabier Lopez de Pariza**
/ Hevea3D
Sustainability Aspects in Vat Photopolymerization; From Recyclable Resins to Pseudothermoplastic Materials

15:15 /15:35 **Invited Subin Damodaran**
/ Tosoh Bioscience GmbH
Gel Permeation Chromatography: A Tool to Monitor the Degradation Kinetics of Polymers and Additives

15:25 /15:50	Invited Andreas Heise / RCSI <i>3D Printing with Polypeptides</i>	15:35 /15:55	Invited Benjamin Richter / Nanoscribe GmbH & Co. KG <i>Revolutionizing Biomedical Fabrication: Two-Photon Polymerization for Multimaterial 3D Printing</i>
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15:50 /16:20	Coffee Break Salón de Música & Salón Blanco
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Session 13 Sala Julio Carlo Baroja Chair: Katharina Ehrmann / TU Wien		Session 14 - Industrial Comedor Real Chair: Xabi Lopez de Pariza / Hevea 3D	
16:20 /16:50	Keynote Johanna Schwartz / Lawrence Livermore National Laboratory <i>Advancing chemistries of additive manufacturing: Ongoing efforts at Lawrence Livermore National Laboratory</i>	16:20 /16:40	Invited Markus Lunzer / UpNano <i>2-Photon Polymerization - A Versatile Microfabrication Technology for Scientific Challenges from the Nano to the Macro Scale</i>

16:50 /17:15	Invited Josh Worch / Virginia Tech <i>Closed-loop biogenic resins for sustainable additive manufacturing</i>	16:40 /17:00	Invited Jasper Van Hoorick / Biolnx <i>From Ligth to Life: BIO INKS as a key to biofabrication for multiple printing technologies</i>
		17:00 /17:20	Invited Markus Kury / Cubicure <i>From Vision to Volume: Hot Lithography for Scalable, High-Precision Industrial 3D Printing</i>

18:30 /19:30	Social Activities
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08:30
/08:45**Registration**
Palacio Miramar - Main Hall08:45
/09:30**Plenary session**
Tao Xie / Zhejiang University**Sala Julio Carlo Baroja**
Chair: **David Mecerreyes** /University of the Basque Country
*Dynamic covalent chemistry towards sustainable 3D additive manufacturing***Session 15**
Sala Julio Carlo BarojaChair: **Callie Higgins** / National
Institute of Standards and Technology**Session 16**
Comedor RealChair: **Louis Pitet** / EPFL09:35
/10:15**Keynote**
Daryl Yee
/ EPFL*(Micro)Structure Control in Architected
Materials*09:35
/10:15**Keynote**
Christophe Moser
/ EPFL*Volumetric Printing: what is next ?*10:15
/10:30**Leilei Song**
/ Tampere University*Direct Laser Written Micro-mirror Arrays
Enable 90° Incidence Angle Actuation in Light-
Responsive Soft Microrobots*10:15
/10:30**Yujie Zhang**
/ National Research Council Canada*Enhancing Build Volume and Precision in
Tomographic Volumetric Additive
Manufacturing Through Advanced Polymer
Chemistry*10:30
/10:55**Invited**
Matthew Becker
/ Duke University*Designing for Degradation: the Next Frontier of
3D Printing Resorbable Medical Devices*10:30
/10:55**Invited**
Miryam Criado-Gonzalez
/ Institute of Polymer Science and Technology
(ICTP-CSIC)*Ros-Responsive 3d Polymer Scaffolds Via Light
Printing Techniques for Biomedical Applications*10:55
/11:30**Coffee Break**
Salón de Música & Salón Blanco**Session 17**
Sala Julio Carlo BarojaChair: **Daryl Yee** / EPFL**Session 18**
Comedor RealChair: **Yanlei Yu** / Fudan University11:30
/11:55**Invited**
Carlos Sanchez-Somolinos
/ CSIC*Additive Manufacturing of Liquid Crystal
Elastomers: Programming Actuation, Enabling
Motility, and Advancing Autonomy in Soft Robotics*11:30
/11:55**Invited**
Louis Pitet
/ Hasselt University*Light-promoted volumetric printing of tough
hydrogels*

11:55
/12:10 **Fato Niang**
/ Université de Montpellier, ENSCM, CNRS
4D Printing of UCST-based hydrogels for programmable shape morphing using DLP

12:10
/12:25 **Sara Muñana González**
/ UPV-EHU
Fabrication of Microfluidic Devices for Nano- and Microgel Synthesis Using Ldc 3d Printing

12:25
/12:40 **Buse Unlu**
/ École Polytechnique Fédéral Lausanne (EPFL)
Overprinting applications with tomographic volumetric additive manufacturing using Dr.TVAM

12:40
/12:55 **Sebastien Blanquer**
/ CNRS-University of Montpellier
Approaches to Print High Performance Polymer by DLP

12:55
/14:10

Lunch Break
Salón de Música & Salón Blanco

Session 19 Sala Julio Carlo Baroja

Chair: **Daniele Mantione** / Polymat,
University of the Basque Country

14:10
/14:40 **Keynote**
Lorenzo Moroni
/ EPFL
(Micro)Structure Control in Architected Materials

14:40
/15:05 **Invited**
Leah Appelhans
/ Sandia National Laboratories
3D PhotoROMP: Using light to control ring-opening metathesis polymerizations for 3D printing

15:05
/15:20 **Mehmet Akif Sahin**
/ Technical University of Munich
Active Flow Sculpting for the Next Generation of 3d Printing Nozzles

15:20
/15:45 **Invited**
Fergal Coulter
/ ETH Zurich
AddOn Manufacturing : A multi-axis, multi process additive manufacturing system to print on top of existing surfaces

11:55
/12:10 **Felix Wechsler**
/ École Polytechnique Fédéral Lausanne (EPFL)
Overprinting applications with tomographic volumetric additive manufacturing using Dr.TVAM

12:10
/12:25 **Johanna Vandenbrande**
/ Lawrence Livermore National Laboratory
Expanding the Scope of Materials Accessible to Volumetric Additive Manufacturing

12:25
/12:40 **Chantal Paquet**
/ National Research Council of Canada
Materials and methods for generating 3D electronics with volumetric additive manufacturing

12:40
/12:55 **Samantha Catt**
/ Heidelberg University
Macromolecular Design of Inks for 3d Microprinting

Session 20 Comedor Real

Chair: **Cristophe Moser** / EPFL

14:10
/14:40 **Keynote**
Yanlei Yu
/ Fudan University
4D Printed Adaptive Soft Robots of Liquid Crystal Elastomers

14:40
/15:05 **Invited**
Virgilio Mattoli
/ Istituto Italiano di Tecnologia
From Tattoo Electronics to 3D Microdevices: Soft Microsystems via Two-Photon Lithography

15:05
/15:20 **Yiying Zou**
/ Technical University of Munich
3D Hydrodynamic Flow Lithography

15:20
/15:45 **Invited**
Arnaud Spangenberg
/ Institut de Science des Matériaux de Mulhouse
Reconfigurable and programmable materials for light-induced 3D & 4D printing

15:45 /16:00	Bo Van Durme / Ghent University <i>Advanced Fabrication of Thermo-Responsive Scaffolds for Tissue Engineering: Tailored Resin Development and 4D Microprinting</i>	15:45 /16:00	Fernando Vidal Peña / University of the Basque Country <i>Advanced strategies for recycling of functional 3D printing materials</i>
16:00 /16:15	Xavier Allonas Université de Haute Alsace <i>Primary Photochemical Processes Involved in 3d Printing by Vat Photopolymerization</i>	16:00 /16:15	Bruno Zhulan / SEAM, South East Technological University, Ireland <i>Layer-Wise in-situ Remelting in Laser Powder Bed Fusion of Ti6Al4V: Microstructural and Mechanical Implications</i>
16:15 /16:30	Christoph Spiegel / Heidelberg University <i>Supramolecular Ink Design Approach for Multiphoton 3D Laser Printing of Soft Materials</i>	16:15 /16:30	Francesca Perin / Polymat <i>Development of decellularized extracellular matrix bioinks for SLA bioprinting of gastric in vitro models</i>
16:30 /16:45	Oihane Varela Manrique / Polymat UPV/EHU <i>New Generation of Tetraphenylborate-based Photobase Generators for Additive Manufacturing</i>	16:30 /16:45	Kathryn Weber / University of Wisconsin-Madison <i>Wavelength-Selective Synthesis of Metal-Organic Multi-materials</i>
16:45 /17:10	Invited AJ Boydston / University of Wisconsin <i>Multimaterial Actinic Spatial Control (MASC) Additive Manufacturing of Organic-Inorganic Multimaterial Parts</i>	16:45 /17:10	Invited Blair Brettmann / Georgia Institute of Technology <i>Linking material properties and processing in 3D printing dense pastes</i>

20:00
/23:00

Gala Dinner
Ténis Ondarreta

Ténis Ondarreta / Eduardo Chillida Pasealekua, 9, 20008 Donostia

Please come at the event with your badge.

A welcome cocktail will be offered at your arrival.

If you wish to stay longer after the dinner, the bar will be open.

09:15
/09:30

Registration
Palacio Miramar - Main Hall

09:30
10:15

Plenary session
Emily Davidson / Princeton University

Sala Julio Carlo Baroja
Chair: **Eva Blasco** / University of Heidelberg
Directed Self-Assembly of Nanostructured Polymers via 3D Printing

Session 21
Sala Julio Carlo Baroja

Chair: **Miryam Criado-Gonzalez** /
ICTP-CSIC

10:20
/10:50

Keynote
Alshakim Nelson
/ University of Washington

*Additive manufacturing of protein-based
mechanical metamaterials*

10:20
/10:50

Rakine Mouhoubi
/ ICGM
*Digital Light Processing 4D Printing of Liquid
Crystal Elastomers: Overcoming Limitations in
Mesogen Alignment*

10:50
/11:20

Coffee Break
Salón de Música & Salón Blanco

11:20
/11:35

Fabio Caltanissetta
/ Caracol AM
*Exploring Sustainable, High-Performance
Thermoplastic Materials for Architectural and
Construction Applications through Robotic
Large-Format Additive Manufacturing*

11:35
/11:50

Itxaso Calafel Martínez
/ Polymat EHU
*N-Situ Microfibrillated Pp/Pet Composites by
3d Printing*

11:50
/12:05

Young Keynote
Best Young Oral in the Young Symposium
To Be Announced

10:20
/10:50

Invited
Jeremy Odent
/ University of Mons

3D-Printed Functionally Graded Matters

10:20
/10:50

Qianyi Zhang
/ EPFL
*Overcoming scattering in tomographic volumetric
bioprinting using computational light optimization*

11:20
/11:35

Mirko Maturi
/ Universidad de Cadiz
*Surface-modification of inorganic nanofillers
for photopolymerization-based 3D printing of
high-performance functional polymer
nanocomposites*

11:35
/11:50

Iraia Osquilla
/ University of the Basque Country, Biomat
*3D printed protein scaffolds incorporated with
fibrous biopolymers for tissue engineering*

11:50
/12:05

Clara Garcia-Astrain
/ Polymat
Monitoring Disease in 3d Printed Cell Models

12:15
/12:45

Award Cerimony & Final Remarks
Sala Julio Carlo Baroja

Haritz Sardon / University of the Basque Country
Timothy Long / Arizona State University
Eva Blasco / University of Heidelberg

POSTER COMMUNICATIONS

/01	Erem Ahmetali	Karlsruhe Institute of Technology (KIT)	Photodynamic Dibenazepine Chemistry for 3D Printing
/02	Muhammad Usman Akhtar	Technical University of Munich	3D printing of quadcore amphiphilic particles for multiplex amplified immunoassay
/03	Mohammad Amini	CIC NanoGUNE	Multifunctional Conductive Polymer-Hydrogel Scaffolds for Cardiac Tissue Engineering via Melt Electrowriting and Electrospinning
/04	Iker Arrizabalaga	Asociación de la Industria Navarra	Biocompatible and Biodegradable Poly(4-hydroxybutyrate)-based Photocurable Resins for Vat Photopolymerization 3D Printing
/05	Nahel Blanc	LTI-LRCS	3D printing of batteries via sol-gel deposition
/06	Javier Bravo	NAITEC	3D Printed Electronics: New Functionalities in Complex Geometries
/07	Paula Carlos Tadeu	Universidade de Coimbra	Allyl cellulose (AC) as a sustainable feedstock for the 3D-printing of all-cellulose hydrogels
/08	Harshada Chothe	Luxembourg Institute of Science and Technology/ University of Luxembourg	Enhancing Heat Dissipation in Additively Manufactured High-Performance Polymers Using Thermally Conductive Reinforcements
/09	Olaia Garagarza Goienetxea	CIC biomaGUNE	Development of 4D Hybrid Polymeric Scaffolds for Biomimetic Lung Models
/10	Pedro Guerrero	University of the Basque Country - UPV/EHU	Development of Protein-Based Solutions For 3D Printed Scaffolds as Cartilage Substitutes
/11	Mona Maria Hämmerle	Institute for Molecular Systems Engineering and Advanced Materials	Micro-Sized Mixed Conducting Hydrogels Via 2-Photon Lithography for Organic Electrochemical Transistors and Cell Interactions
/12	Jacak Jaroslaw	University of Applied Sciences	Multiphoton Nanolithography With Proteins
/13	Yulia Kuzminova	CIC nanoGUNE	Comprehensive Residual Stress Assessment in Powder Bed Fusion AlSi7Mg0.6 Alloy Using FE Modeling and FIB-DIC Approach
/14	Iris Lamparth	Ivoclar Vivadent AG	Development of Fracture Tough 3D Printed Dental Materials
/15	Sima Lashkari	Polymat	Additive Manufacturing of LiFePO4 using VAT Photopolymerization
/16	Naroa Lopez Larrea	Polymat	Multifunctional and 3D Printable Pedot-Based Materials for Bioelectronics
/17	Pablo López Matanza	Polymat	Blending poly(butylene succinate) with polylactide and poly(butylene adipate-co-terephthalate) for 3D printing applications
/18	Jabier Mendizabal	University of the Basque Country - UPV/EHU	Smart Hydrogel Patches: A 3D-Printed Solution for Controlled Dermatitis Treatment

POSTER COMMUNICATIONS

/19	Małgorzata Noworyta	Cracow University of Technology	<i>New Radical Photoinitiators and Their Application in The Production of Three-Dimensional Polymeric Materials of the Micro-Needle Type by Two-Photon Photopolymerization Printing Technology</i>
/20	Xabier Pérez Ferrero	Aimen Technology Center	<i>Large scale robot based FFF additive manufacturing of for hydrogen storage tank</i>
/21	Kaushik Raj Pyla	UNSW Canberra	<i>Mechanical Load-Bearing Capability Study of Bone-Mimicking 3D-Printed Implants</i>
/22	Ander Reizabal	AIMEN	<i>Highly filled composites extrusion: fast track to industrial 3D printing production</i>
/23	Magdalena Jankowska	Cracow University of Technology	<i>Light-Driven Precision: Novel Photoinitiators Enabling High-Resolution 3D Printing of Zirconia Scaffolds for Bone Tissue Engineering</i>
/24	Alberto Sanz de Leon	Universidad de Cádiz	<i>Cork Composites for Large-Format Additive Manufacturing: Sustainable Design and Processing</i>
/25	Markus Lunzer	UpNano GmbH/ TU Wien	<i>Immune niche-on-a-chip enabled by in situ high-resolution 3D printing</i>
/26	Stefania Scala	Università degli studi di Napoli Federico II	<i>3D-Printed Soft Metamaterial with magnetically-tuneable stiffness: A Proof-of-Concept Investigation of next generation exoskeletons</i>
/27	Gianluca Bartolini Torres	Royal College of Surgeons in Ireland (RCSI)	<i>RAFT-mediated 3D Printing of Polylactone/Itaconates with Polypeptide Surface Functionalisation</i>
/28	Eun-A Seo	Korea Institute of Civil Engineering and Building Technology	<i>Development of Recycled Resource-Based Filament for Sustainable Concrete Formwork with Enhanced Aesthetic Flexibility</i>
/29	Diego Trapero	Institute of Polymer Science and Technology (ICTP-CSIC)	<i>A Framework for Validating 3D Printing Materials for Custom-Made Medical Devices: Pla Case Study</i>
/30	Ali Sarp Uyandiran	Czech Technical University in Prague	<i>Fabrication of Multi-Material Stator Core with Advanced Additive Manufacturing</i>
/31	Laura Valenzuela Segura	BiomaGUNE	<i>Design of 4D Cardiovascular Tissue Models: Dynamic Cardiac Patch</i>
/32	Tobias Walther	Center for Molecular Biology of Heidelberg University (ZMBH)	<i>Formation and characterization of durable size- and stiffness-controlled DNA microbeads for 3D cell culture applications</i>
/33	Maialen Zelaia Amilibia	Vicomtech Foundation, Basque Research and Technology Alliance (BRTA)	<i>Gradient Based Randomization of Scaffold Micropatterns for Mechanical Property Control and Cell Growth Enhancement In 3D Bioprinted Models</i>

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