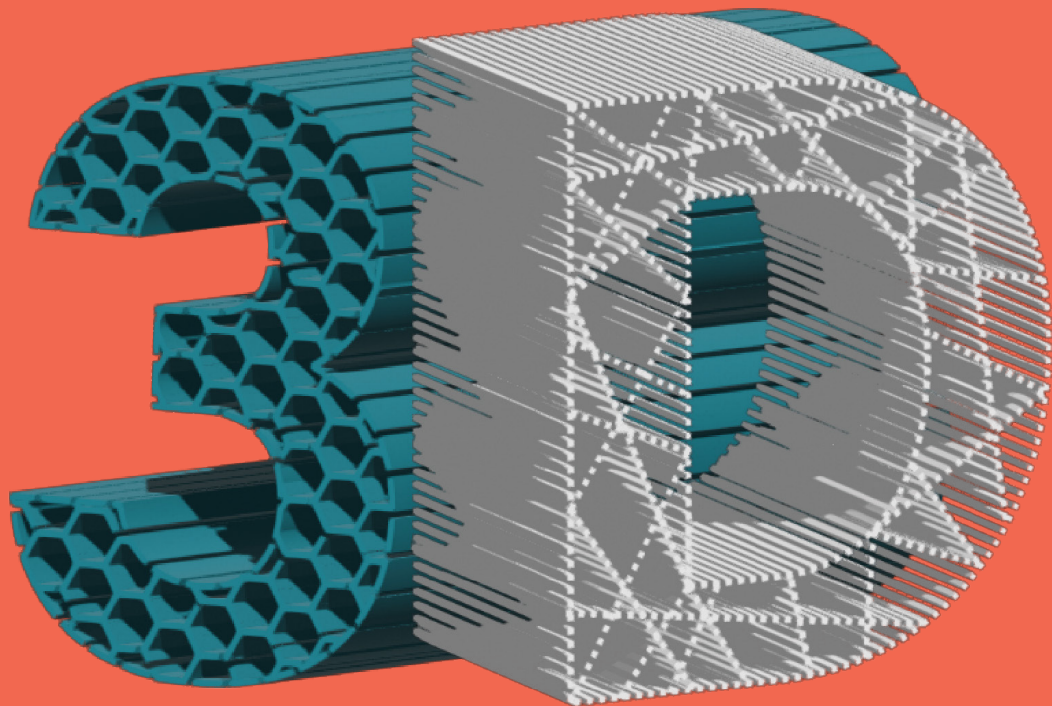




ADDITIVE MANUFACTURING Conference 2025

1ST EDITION

Conference Series on Additive Manufacturing of Soft Materials

6-10 October 2025 / San Sebastián, Spain



Universidad
del País Vasco

Euskal Herriko
Unibertsitatea

POLYMAT

ASU Arizona State
University



UNIVERSITÄT
HEIDELBERG
ZUKUNFT
SEIT 1386

ORGANIZING



GOLDEN



SILVER

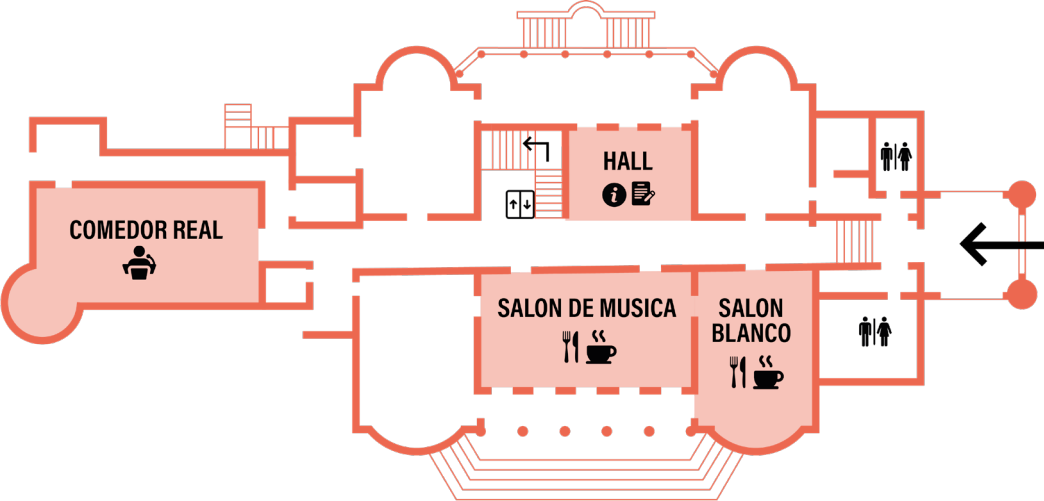


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MAIN EVENTS

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, 18:00

Social Activities / Wednesday 8th October 2025, 18:30

Gala Dinner / Thursday 9th October 2025, 20:00 / **Ténis Ondarreta**

Award Cerimony & Final Remarks / Friday 10th October 2025, 12:15

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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Website

3Dam-conference.com/





Mount Ulia

Zurriola Beach

Auditorio Kursaal

★ **Basque Brewery**

Old Town

City Centre

Mount Urgull

Santa Clara Island

Mount Igeldo
Park

★ **Tenis Restaurant**

Ondarreta Beach

La Concha Beach

★ **Miramar Palace**

★ **Centro Carlos Santa Maria**

★ **Cafeteria Gureak**

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
Jolke Perelaer
/ Wiley-VCH

Scientific Publishing in Wiley's Advanced journals

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
/ Institute of Polymer Science and Technology (ICTP-CSIC)

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
/09:00**Registration**
Palacio Miramar - Main Hall09:00
/09:15**Introduction**
Sala Julio Carlo Baroja**Haritz Sardon** / University of the Basque Country**Timothy Long** / Arizona State University**Eva Blasco** / University of Heidelberg09:15
/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 BarojaChair: **Qin Xiao-Hua** / ETH Zurich10:05
/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 Blanco11:20
/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 Technology (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
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**
/ Cracow University of Technology*Development of carbon dot-based photoinitiating systems for 3D printing technologies*17:50
/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**Audrey Laventure**
/ University of Montreal*Exploring phase separation, alignment and molecular organization in 3D printed polymer blends and crosslinked networks*17:35
/17:50**Francesca Perin**
/ POLYMAT, University of the Basque Country*Development of decellularized extracellular matrix bioinks for SLA bioprinting of gastric in vitro models*

08:30
/08:45**Registration**
Palacio Miramar - Main Hall08:45
/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 BarojaChair: **Johanna Schwartz** / Lawrence
Livermore National Laboratory09:35
/10:00Invited
Sandra Camarero-Espinosa
/ POLYMAT, University of the Basque Country
*From Static to Dynamic: 3D and 4D Printed
Materials for Tissue Regeneration*10:00
/10:15**Robert Aguirresarobe**
/ POLYMAT, University of the Basque Country
*Silica Aerogels by 3D Printing Vat
Photopolymerization*10:15
/10:30**Michelas Maxime**
/ Institut de Chimie Radicaleire
*3D printing via polymerization-induced microphase
separation using acrylate macromonomers instead
of macroRAFT agents*10:30
/10:55Invited
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 BarojaChair: **Emily Pentzer** / Texas A&M
University11:30
/12:00Keynote
Christopher Williams
/ Virginia Tech
*Printing Out of the Box: Making the Impossible by
Multi-material, -Modal, -Axis Additive Manufacturing***Session 8**
Comedor RealChair: **Michael Bortner** / Virginia Tech09:35
/10:00Invited
Mark Dadmun
/ University of Tennessee
*Tailor Made Polymeric Feedstocks for Powder
Bed Fusion*10:00
/10:15**Alodi Pascal**
/ POLYMAT, University of the Basque Country
*Influence of 3D printing on the electrical
properties of conductive nanocomposites*10:15
/10:30**Mercedes Fernandez**
/ POLYMAT, University of the Basque Country
*Rheological Insight on 3D Printable Dynamic
Hydrogels*10:30
/10:55Invited
Michael Bortner
/ Virginia Tech
*Additive Manufacturing for Selective
Environmental Remediation***Session 10**
Comedor RealChair: **Mark Dadmun** / University of
Tennessee11:30
/12:00Keynote
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

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

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

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

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

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**
/ Institute of Microelectronics of Sevilla (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 Xabi Lopez de Pariza**
/ Hevea3D
Breaking the Mold: Advanced Additive Manufacturing Solutions

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 GmbH <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 BV <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 GmbH <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 Hall

08:45
/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 Baroja

Chair: **Callie Higgins** / National
Institute of Standards and Technology

Session 16
Comedor Real

Chair: **Louis Pitet** / EPFL

09:35
/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 Baroja

Chair: **Daryl Yee** / EPFL

Session 18
Comedor Real

Chair: **Yanlei Yu** / Fudan University

11:30
/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

Xavier Allonas
Université de Haute Alsace
Primary Photochemical Processes Involved in 3D Printing by Vat Photopolymerization
- 12:25
/12:40

Buse Unlu
/ EPFL
Accelerating Two-Photon Polymerization Via Single-Photon Activation
- 12:40
/12:55

Sebastien Blanquer
/ CNRS-University of Montpellier
Approaches to Print High Performance Polymer by DLP

- 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

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
/ Maastricht University - MERLN Institute for Technology-Inspired Regenerative Medicine
Sustainability of Additive Manufacturing Technologies to create Smart Scaffolds for Regenerative Medicine
- 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

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 Fergal Coulter / ETH Zurich <i>AddOn Manufacturing : A multi-axis, multi process additive manufacturing system to print on top of existing surfaces</i>	15:20 /15:45	Invited Arnaud Spangenberg / Institut de Science des Matériaux de Mulhouse <i>Reconfigurable and programmable materials for light-induced 3D & 4D printing</i>
15:45 /16:00	Christoph Spiegel / Heidelberg University <i>Supramolecular Ink Design Approach for Multiphoton 3D Laser Printing of Soft Materials</i>	15:45 /16:00	Bruno Zhulan / SEAM, South East Technological University <i>Layer-Wise in-situ Remelting in Laser Powder Bed Fusion of Ti6Al4V: Microstructural and Mechanical Implications</i>
16:00 /16:15	Itxaso Calafel Martínez / POLYMAT, University of the Basque Country <i>In-Situ Microfibrillated Pp/Pet Composites by 3D Printing</i>	16:00 /16:25	Invited Blair Brettmann / Georgia Institute of Technology <i>Linking material properties and processing in 3D printing dense pastes</i>
16:15 /16:40	Invited AJ Boydston / University of Wisconsin <i>Multimaterial Actinic Spatial Control (MASC) Additive Manufacturing of Organic-Inorganic Multimaterial Parts</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

10:50
/11:05

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

10:20
/10:50

Invited
Jeremy Odent
/ University of Mons

3D-Printed Functionally Graded Matters

10:50
/11:05

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

11:05
/11:30

Coffee Break
Salón de Música & Salón Blanco

11:30
/11:45

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

11:30
/11:45

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

11:45
/12:00

Oihane Varela Manrique
/ POLYMAT, University of the Basque Country
New Generation of Tetraphenylborate-based Photobase Generators for Additive Manufacturing

11:45
/12:00

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

12:00
/12:15

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

12:00
/12:15

Clara Garcia-Astrain
/ POLYMAT, University of the Basque Country
Monitoring Disease in 3D Printed Cell Models

12:30
/13:00

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)	<i>Photodynamic Dibenzazepine Chemistry for 3D Printing</i>
/02	Yiyi Zou	Technical University of Munich	<i>3D Hydrodynamic Flow Lithography</i>
/03	Mohammad Amini	CIC NanoGUNE	<i>Multifunctional Conductive Polymer-Hydrogel Scaffolds for Cardiac Tissue Engineering via Melt Electrowriting and Electrospinning</i>
/04	Iker Arrizabalaga	Asociación de la Industria Navarra	<i>Biocompatible and Biodegradable Poly(4-hydroxybutyrate)-based Photocurable Resins for Vat Photopolymerization 3D Printing</i>
/05	Nahel Blanc	LTI-LRCS	<i>3D printing of batteries via sol-gel deposition</i>
/06	Paula Carlos Tadeu	Universidade de Coimbra	<i>Allyl cellulose (AC) as a sustainable feedstock for the 3D-printing of all-cellulose hydrogels</i>
/07	Harshada Chothe	Luxembourg Institute of Science and Technology/ University of Luxembourg	<i>Enhancing Heat Dissipation in Additively Manufactured High-Performance Polymers Using Thermally Conductive Reinforcements</i>
/08	Pedro Guerrero	University of the Basque Country - UPV/EHU	<i>Development of Protein-Based Solutions For 3D Printed Scaffolds as Cartilage Substitutes</i>
/09	Mona Maria Hämmerle	Institute for Molecular Systems Engineering and Advanced Materials	<i>Micro-Sized Mixed Conducting Hydrogels Via 2-Photon Lithography for Organic Electrochemical Transistors and Cell Interactions</i>
/10	Jacak Jaroslaw	University of Applied Sciences	<i>Multiphoton Nanolithography With Proteins</i>
/11	Iris Lamparth	Ivoclar Vivadent AG	<i>Development of Fracture Tough 3D Printed Dental Materials</i>
/12	Sima Lashkari	POLYMAT, University of the Basque Country	<i>Additive Manufacturing of LiFePO₄ using VAT Photopolymerization</i>
/13	Naroa Lopez Larrea	POLYMAT, University of the Basque Country	<i>Multifunctional and 3D Printable PEDOT-Based Materials for Bioelectronics</i>
/14	Gianluca Bartolini Torres	Royal College of Surgeons in Ireland (RCSI)	<i>RAFT-mediated 3D Printing of Polylactone/Itaconates with Polypeptide Surface Functionalisation</i>
/15	Jabier Mendizabal	University of the Basque Country - UPV/EHU	<i>Smart Hydrogel Patches: A 3D-Printed Solution for Controlled Dermatitis Treatment</i>
/16	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>
/17	Kaushik Raj Pyla	UNSW Canberra	<i>Mechanical Load-Bearing Capability Study of Bone-Mimicking 3D-Printed Implants</i>

POSTER COMMUNICATIONS

/18	Ander Reizabal	AIMEN	Highly filled composites extrusion: fast track to industrial 3D printing production
/19	Magdalena Jankowska	Cracow University of Technology	Light-Driven Precision: Novel Photoinitiators Enabling High-Resolution 3D Printing of Zirconia Scaffolds for Bone Tissue Engineering
/20	Alberto Sanz de Leon	Universidad de Cádiz	Cork Composites for Large-Format Additive Manufacturing: Sustainable Design and Processing
/21	Markus Lunzer	UpNano GmbH/ TU Wien	Immune niche-on-a-chip enabled by in situ high-resolution 3D printing
/22	Pablo López Matanza	POLYMAT, University of the Basque Country	Blending poly(butylene succinate) with polylactide and poly(butylene adipate-co-terephthalate) for 3D printing applications
/23	Diego Trapero	Institute of Polymer Science and Technology (ICTP-CSIC)	A Framework for Validating 3D Printing Materials for Custom-Made Medical Devices: PLA Case Study
/24	Laura Valenzuela Segura	BiomaGUNE	Design of 4D Cardiovascular Tissue Models: Dynamic Cardiac Patch
/25	Tobias Walther	Center for Molecular Biology of Heidelberg University (ZMBH)	Formation and characterization of durable size- and stiffness-controlled DNA microbeads for 3D cell culture applications
/26	Maialen Zelaia Amilibia	Vicomtech Foundation, Basque Research and Technology Alliance (BRTA)	Gradient Based Randomization of Scaffold Micropatterns for Mechanical Property Control and Cell Growth Enhancement In 3D Bioprinted Models
/27	Ander Leiza Balda	University of the Basque Country (UPV/EHU)	Standardizing Light: A Modular Photoreactor for Controlled, Reproducible and High-Throughput Photochemical Reactions
/28	Margherita Bernero	ETH Zurich	Subtractive Two-photon Microprinting of Architected Hydrogels to Guide Cell Network Formation

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