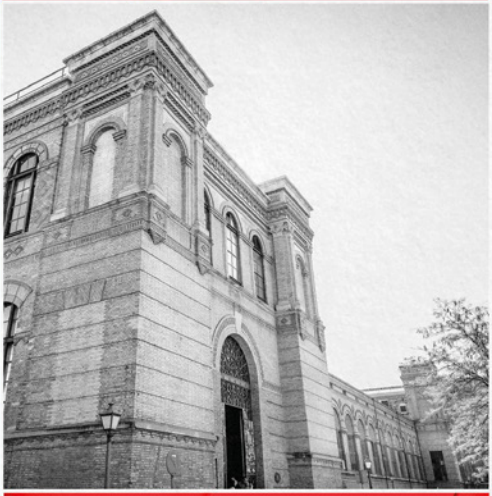
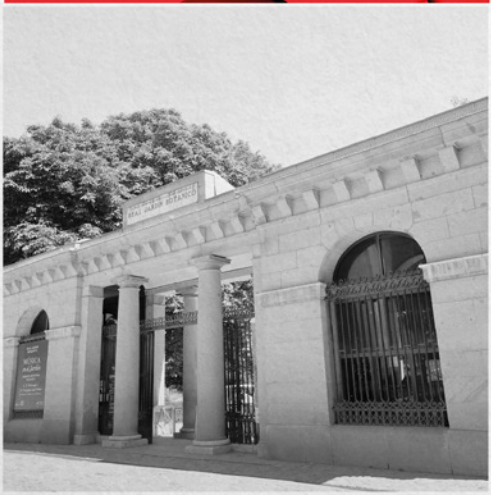
GEP 2024

XVII Reunión del Grupo Especializado de Polímeros GEP de la Real Sociedad Española de Química (RSEQ) y de la Real Sociedad Española de Física (RSEF)

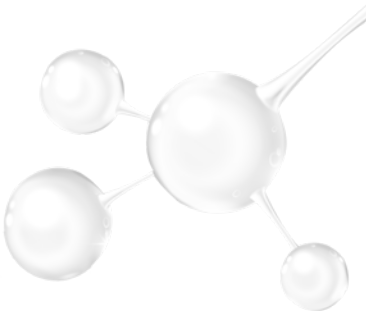
16 - 19 SEPTIEMBRE 2024
MADRID





RSEQ
Real Sociedad Española de Química
El Sitio de la Química en España

Real Sociedad Española de Física
R.S.E.F.



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INFORMATION FOR THE VENUE

WELCOME

Dear participants,

It is a great honor to welcome you to the city of Madrid where we will be holding the XVII Meeting of the Polymer Specialty Group, GEP2024. After the success of the joint GEP-SLAP edition in San Sebastian two years ago, we are excited to meet again to continue strengthening our scientific community and share the latest advances in the field of polymers.

We are proud to count on the participation of 262 experts, researchers and professionals who, as every year, will contribute their knowledge and enthusiasm to make this event a space for exchange and collaboration. We are confident that this edition will be as participative and productive as the previous one, and that together we will continue to drive development and innovation in our field.

We encourage you to make the most of this opportunity to connect, learn and contribute to the growth of polymer science.

Welcome to GEP2024 Madrid!

María Rosa Aguilar
Rebeca Hernández
Luis Rojo

Presidents of the Organizing Committee of the XVII Congress
of the Specialized Group on Polymers

BIENVENIDA

Estimados participantes,

Es un gran honor darles la bienvenida a la ciudad de Madrid donde celebraremos la XVII Reunión del Grupo Especializado de Polímeros, GEP2024. Tras el éxito de la edición conjunta GEP-SLAP en San Sebastián hace dos años, nos emociona reunirnos nuevamente para continuar fortaleciendo nuestra comunidad científica y compartir los últimos avances en el campo de los polímeros.

Nos enorgullece contar con la participación de 262 expertos, investigadores y profesionales que, como cada año, aportarán su conocimiento y entusiasmo para hacer de este evento un espacio de intercambio y colaboración. Confiamos en que esta edición será tan participativa y productiva como la anterior, y que juntos seguiremos impulsando el desarrollo y la innovación en nuestro campo.

Les animamos a aprovechar al máximo esta oportunidad para conectar, aprender y contribuir al crecimiento de la ciencia de polímeros.

¡Bienvenidos al GEP2024 Madrid!

Con nuestros mejores deseos,

María Rosa Aguilar
Rebeca Hernández
Luis Rojo

Presidentes del Comité Organizador del XVII Reunión del Grupo Especializado de Polímeros GEP2024

TOPICS

STRUCTURE AND PROPERTIES OF POLYMERS, THEORY AND SIMULATION

Sponsored by: PERKIN ELMER

POLYMERS FOR BIOMEDICAL AND NANOMEDICAL APPLICATIONS, HYDROGELS, ELECTROSPINNING

Sponsored by: I+MED S. COOP

ADVANCES IN POLYMER SYNTHESIS AND CHARACTERIZATION

Sponsored by: ANTON PAAR

POLYMER RECYCLING, BIO-BASED AND BIODEGRADABLE POLYMERS, CIRCULAR ECONOMY

Sponsored by: RED MARFIL

TOPICS

POLYMERS FOR ENERGY, OPTOELECTRONICS AND SMART APPLICATIONS

instrumentación analítica, s.a

Sponsored by: INSTRUMENTACION ANALÍTICA

BLOCK COPOLYMERS, MULTIPHASE POLYMERS, BLENDS, NANOCOMPOSITES AND NANOHYBRIDS

Sponsored by: CONEXIÓN NANOMEDICINA

Conexión Nanomedicina CSIC

RHEOLOGY, PROCESSING, ADDITIVE MANUFACTURING AND MECHANICAL PROPERTIES OF POLYMERS

TA Instruments

Sponsored by: TA INSTUMENTS

TIMETABLE

	Sept 16th (Mon)	Sept 17th (Tue)		Sept 18th (Wed)	Sept 19th (Thurs)
	Espacio Maldonado *(C/ Serrano, 104)*				CSIC Auditorium *(C/ de Serrano, 117)*
7:45 - 8:30	REGISTRATION				
8:30 - 9:00	Welcome & Opening				
Chair	David Mecerreyes	Javier Carretero		Miryam Criado	María Rosa Aguilar
9:00 - 9:40	PL - 01 Luis Oriol	PL - 03 Michel Armand		PL - 04 George Malliaras	PL - 05 Auxi Prieto
9:40 - 10:00	KN - 01 Jaime Martín	KN - 04 Marta Liras		KN - 07 Ana Beloqui	KN - 10 Alexandra Muñoz
Chair	Jaime Martín y Eva Maya	Marta Liras y Saul Vallejos	Isabel Quijada y Virginia Rivero	Ana Beloquí y Daniel Domingo	Alexandra Muñóz y Marina Galia
10:00 - 10:10	O-01	O-27	O-40	O-58	O-80
10:10 - 10:20	O-02	O-28	O-41	O-59	O-81
10:20 - 10:30	O-03	O-29	O-42	O-60	O-82
10:30 - 10:40	O-04	O-30	O-43	O-61	O-83
10:40 - 10:50	O-05	O-31	O-44	O-62	O-84
10:50 - 11:00	O-06	O-32	O-45	O-63	O-85
11:00 - 11:30	COFFEE + Posters 01	COFFEE + Posters 02		COFFEE + Posters 03	COFFEE
Chair	Horacio Salavagione y Jose María Lagarón	Carmen Mijangos y Beatriz Merillas	J.C. Rodríguez Cabello y José Alberto Berrocal	Auxi Prieto y Laura Peponi	Luis Oriol y Ester Verde
11:30 - 11:40	O-07	O-33	O-46	O-64	O-86
11:40 - 11:50	O-08	O-34	O-47	O-65	O-87
11:50 - 12:00	O-09	O-35	O-48	O-66	O-88
12:00 - 12:10	O-10	O-36	O-49	O-67	O-89
12:10 - 12:20	O-11	O-37	O-50	O-68	O-90
12:20 - 12:30	O-12	O-38	O-51	O-69	O-91
12:30 - 12:40	O-13	O-39	O-52	O-70	O-92
Chair	Luis García	Luis García		Luis García	
12:40 - 13:00	Flash Session F01 - F06	Flash Session F07 - F12		Flash Session F13 - F18	CLOSING CEREMONY
13:00 - 14:30	LUNCH - Gourmet Voucher	LUNCH - Maldonado		LUNCH - Gourmet Voucher	

Chair	Luis Rojo	Pilar Tiemblo	Rebeca Hernandez
14:30 - 14:50	PL - 02 Manuela Gomes	ROUND TABLE	KN-08 Carlos Sánchez - Somolinos
Chair			Carlos Sanchez Somolinos y Rebeca Hernández
14:50 - 15:00			O-71
15:00 - 15:10			O-72
15:10 - 15:30	KN-02 Marcelo Calderón	KN-05 Amparo López Rubio	O-73 O-74
Chair	Marcelo Calderón y Sergio Martín-Saldaña	Amparo López-Rubio y Mercedes Jiménez	
15:30 - 15:40	O-14	O-53	O-75
15:40 - 15:50	O-15	O-54	O-76
15:50 - 16:00	O-16	O-55	O-77
16:00 - 17:00	COFFEE + Posters 01	COFFEE + Posters 02	COFFEE + Posters 03
Chair	Julieta Paez y Jose Alberto Mendez	Milagros Piñol y Juan López Valentin	Elisabeth Engel y Juan Rodríguez
17:00 - 17:20	KN - 03 Julieta Paez	KN - 06 Juan López Valentin	KN - 09 Elisabeth Engel
17:20 - 17:30	O-17	O-56	O-78
17:30 - 17:40	O-18	O-57	O-79
17:40 - 17:50	O-19		
17:50 - 18:00	O-20		
18:00 - 18:10	O-21		GEP General Assembly
18:10 - 18:20	O-22		
18:20 - 18:30	O-23		
18:30 - 18:40	O-24	ROYAL BOTANICAL GARDENS OF MADRID (RJB-CSIC) *Plaza de Murillo, 2* *(18:30)*	
18:40 - 18:50	O-25		
18:50 - 19:00	O-26		
19:00 - 19:10			
19:10 - 19:20			
19:20 - 19:30			
20:00	WELCOME RECEPTION Museo Nacional de Ciencias Naturales *c/ José Gutierrez Abascal, 2.*		
20:45			GALA DINNER Descaro Restaurant *Plaza España, 6*

- Structure and properties of polymers, theory and simulation
- Polymers for biomedical and nanomedical applications, hydrogels, electrospinning.
- Advances in polymer synthesis and characterization.
- Polymer recycling, bio-based and biodegradable polymers, circular economy
- Polymers for energy, optoelectronics and smart applications
- Block copolymers, multiphase polymers, blends, nanocomposites and nanohybrids
- Rheology, processing, additive manufacturing and mechanical properties of polymers.

COMMITTEES

Organizing Committee Presidents

María Rosa Aguilar (ICTP-CSIC)
Rebeca Hernández (ICTP-CSIC)
Luis Rojo del Olmo (ICTP-CSIC)

Organizing Committee

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Pilar Tiemblo (ICTP-CSIC)
Rodrigo Navarro (ICTP-CSIC)
Laura Peponi (ICTP-CSIC)
Juan Rodríguez (ICTP-CSIC)
Luis García (ICTP-CSIC)
Olga García (ICTP-CSIC)
Miryam Criado-González (ICTP-CSIC)
Gema Rodríguez (ICTP-CSIC)

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David Mecerreyes (POLYMAT-UPV)
José Alberto Méndez González (U. Girona)
Carmen Mijangos (ICTP-CSIC)
Arantxa Arbe (UPV-CFM-CSIC)
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Jaime Martin Pérez (U. Coruña)
Milagros Piñol (U. Zaragoza)
José Carlos Rodríguez-Cabello (U. Valladolid)
Concepción Valencia (U. Huelva)
Saúl Vallejos (U. Burgos)

PLENARY SPEAKERS

Luis Oriol
(Univ. Zaragoza, Spain)

M. Auxiliadora Prieto
(CIB-CSIC, Spain)

Michel Armand
(CIC-Energigune, Spain)

Manuela Gomes
(Univ. Porto, Portugal)

George Malliaras
(U. Cambridge, United Kingdom)

KEYNOTE SPEAKERS

Jaime Martín
(Univ. A Coruña, Spain)

Carlos Sánchez-Somolinos
(INMA-CSIC, Spain)

Juan López-Valentin
(ICTP-CSIC, Spain)

Julieta Paez
(Univ. Twente, The Netherlands)

Marcelo Calderón
(POLYMAT-UPV/EHU, Spain)

KEYNOTE SPEAKERS

Marta Liras
(IMDEA ENERGIA, Spain)

Ana Beloqui
(POLYMAT-UPV/EHU, Spain)

Amparo López-Rubio
(IATA-CSIC, Spain)

Alexandra Muñoz Bonilla
(ICTP-CSIC, Spain)

Elisabeth Engel
(IBEC, Spain)

RED MARFIL

DEVELOPMENT OF RENEWABLE SOURCE POLYMERS WITH ENHANCED PROPERTIES FOR APPLICATION IN HIGH-CONSUMING AND VALUE-ADDED INDUSTRIAL SECTORS

GOALS

- To train excellence centres that develop bio-based raw materials, mainly from waste, agro-industrial byproducts and alternative biomass, that can be used to manufacture products for sectors that consume great quantities of industrial materials and value-added industrial sectors.
- To make a strong contribution to reducing dependence on oil, recovering agricultural byproducts and limiting the amount of waste that goes to landfill without recovery of any kind.

MAIN LINES

- Sustainable, scalable treatment of agro-industrial biomass to produce biopolymers, additives and reinforcements.
- Improving their properties and processing capacity through new bioplastic polymerization techniques.
- Increasing their compostability and recyclability.

Partners:

AIMPLAS INSTITUTO TECNOLÓGICO DEL PLÁSTICO

aitiip centro tecnológico

Gaiker MEMBER OF BASQUE RESEARCH & TECHNOLOGY ALLIANCE

Cidaut

Funded by:

GOBIERNO DE ESPAÑA MINISTERIO DE CIENCIA E INNOVACIÓN

CDTI INNOVACIÓN

Financiado por la Unión Europea NextGenerationEU

Plan de Recuperación, Transformación y Resiliencia

MARFIL Project (**CER-20231001**) forms part of the 2023 Cervera call for Technology Centres of Execellence

PROGRAM

MONDAY 16 SEPTEMBER 2024

ESPACIO MALDONADO (C/ Serrano, 104)

07:45 – 08:30 REGISTRATION

08:30 – 09:00 WELCOME & OPENING

09:00 – 09:40 PLENARY

PL-01 Controlled Polymerization And Click Chemistry Approaches To Smart Block Copolymers.

Luis Oriol [1,2]

1. Liquid Crystals and Polymers Group (CLiP). Instituto de Nanociencia y Materiales de Aragón (INMA), CSIC-Universidad de Zaragoza, Zaragoza, España
2. Dpt. Química Orgánica, Facultad de Ciencias, Zaragoza, España

09:40 – 10:00 KEYNOTE

KN-01 New Insights Into The Structural Organization Of Semiconducting Polymers For Photovoltaics.

Jaime Martín Pérez

Universidade da Coruña, Ferrol, España

10:00 – 11:00 ORAL SESSION 01

O-01 Water-Soluble Cyclic Polymers With Potential Biomedical Applications.

Fabienne Barroso Bujans [1,2,3]

1. Donostia International Physics Center, Donostia - San Sebastian, España
2. Centro de Física de Materiales (CSIC-UPV/EHU), Donostia - San Sebastian, España
3. IKERBASQUE - Basque Foundation for Science, Bilbao, España

O-02 Itaconic Acid: A Versatile Biobased Building Block For The Replacement Of (Meth) Acrylic Acid In Photocurable Formulations For 3D Printing.

Mirko Maturi [1,2], Alberto Sanz De Leon[1], Mauro Comes Franchini [2], Sergio Molina [1]

1. Universidad de Cadiz, Cadiz, España
2. University of Bologna, Bologna, Italia

O-03 Transforming Commodity Plastic PVC Into Efficient Catalytic Single-Chain Nanoparticles.

Ester Verde-Sesto [1,2], Agustín Blázquez [1], Arantxa Arbe [1], José A. Pomposo [1,2,3]

1. Centro de Física de Materiales (CSIC, UPV/EHU)-Materials Physics Center (MPC), Donostia-San Sebastián, España
2. IKERBASQUE-Basque Foundation for Science, Bilbao, España
3. Department of Polymers and Advanced Materials: Physics, Chemistry and Technology, University of the Basque Country UPV/EHU, Donostia-San Sebastian, España

O-04 CRISPR-Mediated Transcriptional Activation Technology (CRISPRa) As An Opportunity For Enhancing Elastin Like Recombinamers (ELRs) Expression In Bacteria.

Viktoriya Chaskovska, Pablo Rodriguez Alonso, Desire Venegas Bustos, Matilde Alonso Rodrigo, Jose Carlos Rodriguez Cabello, Alba Herraiz Yebes

University of Valladolid, Valladolid, España

O-05 Conducting Polymers Effect In The Volume Phase Transition Of Thermosensitive PNIPAAm-Based Hydrogels

David Naranjo [1], Sonia Lanzalaco [1], Sofia Paulo [1], Haoyuan Quan [1], José García Torres[1,2], Elaine Armelin [1], **Juan Torras** [1]

1. Universidad Politècnica de Catalunya, Barcelona, España
2. CIBER-BBN-Instituto de Salud Carlos III, Madrid, España

O-06 A Novel And Self-Consistent Physical Framework To Characterize Molecular Structure And Dynamics Of Reinforced Rubbers Based On A Combination Of Experimental Techniques.

Fernando Martín Salamanca, Zenen Zepeda Rodríguez, Laura Diñeiro García, Marina Montero Escrivá, Rebeca Herrero , Alberto Fernández Torres, Rodrigo Navarro , Juan López Valentín

ICTP, Madrid, España

11:00 – 11:30 COFFEE BREAK + POSTERS SESSION 01 / Claustro

11:30-12:40 ORAL SESSION 02

O-07 Self-Healing Supramolecular Polyurethanes Based On Multiple Hydrogen Bonds.

Laura Diñeiro Garcia[1], Valentina Sessini [2], Fabio Muscas [1,3], **Rodrigo Navarro Crespo**[1], Ángel Marcos Fernández[1]

1. Institute of Polymer Science and Technology (ICTP-CSIC), Madrid, España
2. Universidad de Alcalá de Henares, Alcalá De Henares (madrid), España
3. Universidad Rey Juan Carlos, Madrid, España

O-08 Detailed Morphology Of ABS Latex Nanoparticles Revealed By Mathematical Model And HAADF-STEM Tomography.

Shaghayegh Hamzehlou, Ainara Aguirre, Miren Aguirre, Jose Ramon Leiza

POLYMAT, University of the Basque Country UPV-EHU, Donostia-San Sebastian, España

O-09 Efecto De La Velocidad De Enfriamiento En Las Transiciones De Fase De Sistemas Basados En Ácido Poliláctico Con Nucleantes Poliméricos.

Rosa Barranco García[1,2], Alexandra Muñoz Bonilla[1], María Luisa Cerrada García[1], Coro Echeverría Zabala[1], Marta Fernández García[1]

1. ICTP, Madrid, España
2. UCM, Madrid, España

O-10 Structural And Crystalline Characterization Of Even-Odd Nylons Obtained From Pimelic Acid.

Matteo Arioli [1], Lourdes Franco [1,2], Jordi Puiggalí [1,2]

1. Departament d'Enginyeria Química, Universitat Politècnica de Catalunya, Barcelona, España
2. Barcelona Research Center in Multiscale Science and Engineering, Universitat Politècnica de Catalunya, Barcelona, España

O-11 Modelos Atomísticos Y De Grano-Grueso Para La Modelización De Disoluciones De Polisacáridos De Origen Bacteriano.

Javier Ramos Diaz[1], Andres Cardil Tornos[1], Lucia Ruiz-Saez [2], Juan Sanjuan Pinilla[2], Daniel Perez Mendoza[2], Juan Francisco Vega Borrego[1]

1. IEM-CSIC, Madrid, España
2. Estación Experimental del Zaidín-CSIC, Granada, España

O-12 Relationship Between PLA Structure And Wettability Properties.

María Hernández Rivas, Aránzazu Martínez Gómez, Pilar Tiemblo Magro, Nuria García García

Instituto de Ciencia y Tecnología de Polímeros, Madrid, España

O-13 Grafting Of A Photocrosslinkable Coumarin-Based Methacrylate To PLA For 3D Printing Purposes.

Antoni Pagés Llobet[1], Rafel Reixach Coromines[1], Francesc Xavier Espinach Orús[1], Helena Oliver Ortega[2], José Alberto Méndez González[1]

1. Universitat de Girona, Girona, España
2. Universitat Politècnica de Catalunya, Tarrassa, España

12:40 – 13:00 FLASH SESSION 01

F-01 Long Term-Dispersible And Metal-Free-Single-Chain Nanoparticles (SCNPs).

Ainara Ruiz Bardillo[1,2], Agustín Blázquez Martín[1], Ester Verde Sesto[1,3], Amaia Iturrospe [1], Arantxa Arbe [1], José Adolfo Pomposo [1,4,2]

1. Centro de Fisica de Materiales (CSIC, UPV/EHU)-Materials Physics Center (MPC), Donostia-San Sebastián, España
2. Department of Polymers and Advanced Materials: Physics, Chemistry and Technology, University of the Basque Country UPV/EHU, Donostia-San Sebastián, España
3. IKERBASQUE-Basque Foundation for Science, Bilbao, España
4. IKERBASQUE-Basque Foundation for Sciencea, Bilbao, España

F-02 Kinetic Study Of The Bulk Thermal Polymerisation Of Malononitrile Dimer By Differential Scanning Calorimetry.

Juan Francisco Ruiz Guerrón[1], Marta Ruiz Bermejo[2], José Luis De La Fuente Gómez[1]

1. Instituto Nacional de Técnica Aeroespacial, Torrejón De Ardoz, España
2. Centro de Astrobiología, Torrejón De Ardoz, España

F-03 Plasma-Derived Fibrin Hydrogels With Perfusable Microchannels For Vascularized Skin Tissue Engineering Applications.

Alejandro Hernández Sosa[1], Cristina Quílez [2], A. Benéitez Fernández[3], M.C. Muñoz Turrillas[3], Diego Velasco [2], Rebeca Hernández [1]

1. Instituto de Ciencia y Tecnología de Polímeros (ICTP-CSIC), Madrid, España
2. Department of Bioengineering and Aerospace Engineering, Universidad Carlos III De Madrid, Leganés, España
3. Centro Regional de Transfusión de Toledo-Guadalajara, Toledo, España

F-04 Materials Based On Modified PLA With Biocide Properties For The Production Of Certified Filters For PPEs And Air-Conditioning Systems.

Noelia Esteban[1], Valentina Salaris[2], Jesús M. Martínez-Ilarduya[1], Ángel E. Lozano[1,2,3], Enrique Martínez-Campos [2,4], Laura Peponi [2], Cristina Álvarez [1,2,3], Camino Bartolomé [1]

1. IU CINQUIMA, University of Valladolid, Valladolid, España
2. Institute of Polymer Science and Technology, ICTP-CSIC, Madrid, España
3. SMAP, UA-UVA_CSIC, Research Unit Associated to CSIC, Valladolid, España
4. Instituto Pluridisciplinar (UCM), Unidad Asociada al ICTP, IQM (CSIC), Madrid, España

F-05 Biocompatibility, Antibacterial And Antioxidant Potentials Of Microfluidic-Assisted Cannabidiol-Loaded PLGA Nanoparticles.

Pedro Luis Echevarria Torres[1,2], Raquel Palao Suay[1], Rosa Ana Ramírez Jiménez[1,2], Selma Benito Martínez[3,2,4], Gemma Pascual González[3,2,4], Luis Rojo Del Olmo[1,2], María Rosa Rosa Aguilar[1,2]

1. Instituto de Ciencia y Tecnología de Polímeros (ICTP), CSIC, Madrid, España
2. CIBER de Bioingeniería, Biomateriales y Nanomedicina, Instituto de Salud Carlos III. (CIBER-BBN, ISCIII), Madrid, España
3. Departamento de Medicina y Especialidades Médicas, Facultad de Medicina y Ciencias de la Salud, Universidad de Alcalá, Alcalá De Henares, España
4. Instituto Ramón y Cajal de Investigación Sanitaria (IRYCIS), Madrid, España

F-06 TrHCross® synthesized using SARE® technology: The Best Commercial Viscosupplement for Knee Osteoarthritis Supported by In-Vitro Evidence.

Laura Sánchez, Jon Andrade Del Olmo, Virginia Sáez Martínez, Nagore Martínez De Cestafe, José María Alonso, Claudia Goneaga Ibeas, Miguel Ucelay López De Heredia, Sandra Benito Cid, Raúl Pérez González

Valladolid, España

13:00 – 14:30 Lunch - Gourmet Voucher. You may select Postcode: 28001

14:30 – 15:10 PLENARY

PL – 02 Recreating tendon structure and biomechanical environment using magnetic 3D Bioprinting.

Manuela Gomes

School of Medicine and Biomedical Sciences/Instituto de Ciências Biomédicas Abel Salazar (ICBAS) Unit for Multidisciplinary Research in Biomedicine (UMIB) University of Porto, Portugal, España

15:10 – 15:30 KEYNOTE

KN – 02 Multiresponsive nanogels for mucosal drug delivery.

Marcelo Calderón, Polymat, San Sebastián. España

15:30 – 16:00 ORAL SESSION 03

O-14 Engineering An Immunocompetent Gut On A Chip Model With Controlled Permeability Using Synthetic Polymers.

Ana Mora Boza

Georgia Institute of Technology, Atlanta, Estados Unidos

O-15 New Generation Of Iodinated Embolic Liquid: A Success Case In The Laboratory-To-Clinic Translation Of Polymeric Medical Devices.

Raquel Palao Suay[1,2], Silvia Alujas [3], Sofia Valle [3], Alex Gómez Castel[3], María Molina Crisol[3], Luis Duocastella Codina[3], María Rosa Aguilar De Armas[1,2]

1. Group of Biomaterials, Institute of Polymer Science and Technology, Madrid, España
2. Networking Biomedical Research Centre in Bioengineering, Biomaterials and Nanomedicine, CIBER-BBN, Madrid, España
3. Life Vascular Devices (LVD) Biotech, iVascular., Barcelona, España

O-16 Multifunctional Curcumin-Based Polymer Coating: A Promising Platform Against Bacteria, Inflammation And Coagulation.

Julia Sánchez Bodón, Isabel Moreno Benítez, Leyre Pérez Álvarez, Antonio Veloso Fernández, Leire Ruiz Rubio, José Luis Vilas Vilela

UPV/EHU, Leioa, España

16:00 – 17:00 COFFEE + POSTERS SESSION 01

17:00 – 17:20 KEYNOTE

KN-03 Thiol-mediated dynamic covalent hydrogels with tunable viscoelasticity for 3D cell culture.

Julieta I. Paez , Minye Jin
University of Twente. Drienerlolaan, Enschede, Países Bajos

17:20 – 19:00 ORAL SESSION 04

O-17 Sustainable Polylactic Acid (PLA)/Sargassum Bioplastics Prepared Using SBS. Effect Of Sargassum Content On Morphology And Mechanical Properties.

Dania Olmos Díaz[1], Jorge Huertas Barrilero[1], Mayra González Hurtado[2], Ariel Martínez García[2], Javier González Benito[1]
1. Universidad Carlos III de Madrid, Leganés - Madrid, España
2. Instituto de Ciencia y Tecnología de los Materiales. IMRE. Universidad de la Habana, La Habana, Cuba

O-18 A Highly Oxygenated Biomimetic Hydrogel With A Predictive Oxygen Durability Model To Enhance Post-Transplantion Cellular Survival.

Daniel A. Domingo Lopez[1], Ruth Levey [1], Benjamin Brennan [1], Ruth Tarpey [1], Willian Ronan [2], Garry Duffy [1]
1. Anatomy and Regenerative Medicine Institute (REMEDI), University of Galway, Galway, Irlanda
2. Biomechanics Research Centre, Biomedical Engineering, College of Science and Engineering, National University of Galway, Irlanda

O-19 Degradable Hydrogel Antifouling Coatings Derived From Lactic Acid-Based Solvent .

Marc Palà [1], Jenny Englert [2], Adrián Moreno [1], Juan Carlos Ronda [1], Marina Galià [1], César Rodriguez-Emmenegger [3,4,2,5], Gerard Lligadas [1]
1. Universitat Rovira i Virgili, Tarragona, España
2. DWI – Leibniz-Institut für Interaktive Materialien e.V., Aachen, Alemania
3. Institute for Bioengineering of Catalonia (IBEC), Barcelona, España
4. Institució Catalana de Recerca i Estudis Avançats (ICREA), Barcelona, España
5. Biomedical Research Networking, Center in Bioengineering, Biomaterials and Nanomedicine, The Institute of Health Carlos III, Madrid, España

O-20 Fibras Electrohiladas Avanzadas Dopadas Con Nanopartículas De Cobre Para La Eliminación De Pesticidas En Agua.

Ana Isabel Quilez Molina[1,2,3], Suset Barroso Solares[1,2,3], Violeta Hurtado García[2,3], Jose Alejandro Heredia Guerrero[4], María Luz Rodríguez Mendez[1,5], Miguel Ángel Rodríguez Pérez[1,3], Javier Pinto Sanz[1,2,3]

1. BioEcoUVA Research Institute on Bioeconomy, Valladolid, España
2. Study, Preservation, and Recovery of Archaeological, Historical and Environmental Heritage (AHMAT), Valladolid, España
3. Cellular Materials Laboratory (CellMat), Valladolid, España
4. Instituto de Hortofruticultura Subtropical y Mediterránea, Málaga, España
5. UVaSens research group, Valladolid, España

O-21 Advancements In NOx Abatement Techniques Using Impregnated Porous Biopolymeric Aerogel.

Kåre Gunnar Tjus[1], Zhaleh Erling najafabadi[2], Antonio Jose Capezza[3]
1. IVL Swedish Environmental Research Institute, Box 210 60 100 31 Stockholm, Sweden
2. Department of Fibre and Polymer Technology;KTH, Teknikringen 56-58. Se-100 44 Stockholm, Sweden
3. Department of Fibre and Polymer Technology;KTH, Stockholm, Sweden

O-22 Polymer-Inorganic Nanoparticle Hybrid Tandems As Selective Metal Sensors.

Isabel Quijada Garrido, Thalía Santos Plaza, Olga García Ballesteros
Instituto de Ciencia y Tecnología de Polímeros (ICTP-CSIC), Madrid, España

O-23 Epoxidized Soybean Oil Based Thermoset As Matrix For Functional Materials.

Junkal Gutierrez, Ignacio De Loyola Isla, Galder Kortaberria, **Agnieszka Tercjak**
Universidad del País Vasco, UPV/EHU, Donostia-San Sebastián, España

O-24 Polymer Based Thermoelectric Materials .

Mario Culebras Rubio[1], Nicolas Menendez Stabile[1], Muhammad Muddasar[2], Maurice Collins[2], Rafael Muñoz Espí[1], Andrés Cantarero [1], Clara Gómez Clari[1]
1. Universidad de Valencia, Valencia, España
2. University of Limerick, Limerick, Irlanda

O-25 Sustainable Lignin-Based Hydrogels: Synthesis And Functionalization Of Ionic Thermoelectric Materials .

Nazish Jabeen, Mario Culebras Rubio, Clara M Gomez
University of Valencia, Valencia, España

O-26 Nanoencapsulation Of Alkanes For Thermally Active Polymer Coatings.

Luis Fernando Jiménez-Hernández, Inés Adam-Cervera, Clara M. Gómez, Mario Culebras, Rafael Muñoz-Espí
Universitat de València, València, España

20:00 WELCOME RECEPTION
Natural Museum of Natural Sciences (MNCN-CSIC)
(C/ José Gutierrez Abascal, 2)

TUESDAY 17 SEPTEMBER 2024

ESPACIO MALDONADO (C/ Serrano, 104)

09:00 – 09:40 PLENARY

PL-03 Polymer electrolytes, the key to solid-state batteries.

Michel Armand

CIC Energigune Basque Research and Technology Alliance (BRTA), Vitoria-Gasteiz, España

09:40 – 10:00 KEYNOTE

KN-04 Conjugated Porous Polymers And Covalent Organic Frameworks As Well As Hybrid Thereof For Solar Fuels Production.

Marta Liras, Tania Mazuelo, Sandra Palenzuela-Rebella, Teresa Naranjo, Miguel Gomez-Mendoza, Laura Collado, Mariam Barawi, Víctor De La Peña O´shea

IMDEA Energy, Móstoles, España

10:00 – 11:00 ORAL SESSION 05A – Teatro Borja

O-27 Development Of Lignosulfonate Blends For Carbon Precursors.

Lukas Hartz, **Anne Beaucamp**, Maurice N. Collins

University of Limerick, Limerick, Irlanda

O-28 Correlation Between Thermal Insulation Properties And Structure In PLA Aerogels.

Jaime Lledó, Judith Martín De León, Miguel Ángel Rodríguez Pérez, Beatriz Merillas

Universidad de Valladolid, Valladolid, España

O-29 Ion Conducting Polymers Of Intrinsic Microporosity (PIMs) As Selective Membranes For Redox Flow Batteries

Juan Carlos Martínez López[1], Marta Santos Rodríguez[1], Víctor Oliver Cuenca[1], Giu Silva Testa[2], Ernst Van Eck [2], Evan Wenbo Zhao[2], Ángel Emilio Lozano[1], Cristina Álvarez [1], Javier Carretero González[1]

1. ICTP-CSIC, Madrid, España
2. Radboud University, Nijmegen, Países Bajos

O-30 Trimetallic Lignin-Based Carbon Nanofibers As High-Performance Electrodes For Supercapacitors.

Hamid - Hafizi, Muhammad - Muddasar, Maurice N. Collins

University of Limerick, Limerick, Ireland

O-31 Diaminomaleonitrile-Based Polymers As Emerging Multifunctional Materials .

Marta Ruiz Bermejo[1], Antonio López García[1], Carlos Hortelano De La Fuente[2], Pilar García Armada[3], José L. De La Fuente Gómez[4]

1. Centro de Astrobiología, CAB (CSIC-INTA), Torrejon De Ardoz, España
2. Instituto Nacional de Técnica Aeroespacial "Esteban Terradas" (INTA), Torrejon De Ardoz, España
3. Escuela Técnica Superior de Ingenieros Industriales, Universidad Politécnica de Madrid, Madrid, España
4. Instituto Nacional de Técnica Aeroespacial "Esteban Terradas" (INTA), Madrid, España

O-32 Structural Control Of Semiconductor Polymer D18 Used In Organic Photovoltaics.

Jesika Asatryan, Jaime Martín Pérez

UDC, Ferrol, España

10:00 – 11:00 ORAL SESSION 5B – SALÓN DE ACTOS

O-40 Recyclable Thermally Conductive Vitrimers Using Sequential Stress-Relaxation Profiles.

Sasan Moradi [1], Xavier Fernández-Francos [2], Osman Konuray [2], Xavier Ramis [2]

1. Universitat Politècnica de Catalunya, Barcelona, Spain
2. Universitat Politècnica Universide Catalunya, Barcelona, Spain

O-41 Synthesis And Characterization Of Sustainable Thermoplastic Polyurethane Containing Recycled Bis(2-Hydroxyethyl) Terephthalate For Advanced Applications .

Mercedes Santiago Calvo[1], Laura Matesanz Niño[1], Iván Domenech [2], María Asensio [1], María Teresa Fernández Peña[1], Esteban Cañibano [1,3]

1. FUNDACIÓN CIDAUT, Boecillo (valladolid), España
2. Asociación de Investigación de la Industria Textil, AITEX, Alcoy (alicante), España
3. UNIVERSIDAD DE VALLADOLID, VALLADOLID, España

O-42 Using Indentation To Study The Creep Behaviour Of Sustainable Polyurethane Adhesives.

Araceli Flores Aguilar-Amat[1], Juan Francisco Vega Borrego[2], Andrés Cardil Tornos[2], Marián Gómez-Fatou [1], Horacio J. Salavagione [1]

1. ICTP-CSIC, Madrid, España
2. IEM-CSIC, Madrid, España

O-43 Revalorización De Residuos Post-Consumo De RPET-O: Efecto De La Compatibilización Reactiva En La Integridad Mecánica Estructural De Mezclas PP/RPET-O.

Leandro Isidro Martínez Orozco, Noel León Albiter, Tobias Abt , Miguel Sánchez Soto, **Orlando Santana Pérez**

Universitat Politécnica de Catalunya - Centre Català del Plàstic, Barcelona, España

O-44 The Development Of Remotely-Triggered Reversible Polyurethane Adhesives By Addition Of Radiation Absorbing Nanoparticles .

Marian Gómez-Fatou , Araceli Flores , Gary Ellis , Peter Shuttleworth , **Horacio Salavagione**
ICTP, Madrid, España

O-45 Desarrollo De Termoestables Epoxídicos Con Enlaces Dinámicos Covalentes De Imina Para Compuestos Sostenibles De Fibra De Carbono .

Cristina Monteserin Vilela[1], Miren Blanco [1], Nerea Uranga [1], Jose Manuel Laza [2], Estibaliz Aranzabe[1], Jose Luis Vilas [2]
1. TEKNIKER, Eibar, España
2. UPV-EHU, Leioa, España

11:00 – 11:30 COFFEE BREAK + POSTERS SESSION 02

11:30-12:40 ORAL SESSION 6A – Teatro Borja

O-33 Ordering Of Polymeric Nanoparticles In PEO-Based Solid Polymeric Electrolytes.

Jorge L. Olmedo Martínez[1], Gabriele Lingua [1], Monika Król [2], Alejandro J. Müller [1], David Mecerreyes[1]
1. POLYMAT/Universidad del País Vasco (UPV/EHU), San Sebastián, España
2. Aalto University, Espoo, Finlandia

O-34 Exploring Oxygen Reduction Reaction Electrocatalysis Using Covalent Organic Frameworks.

Marcos Martínez-Fernández[1], Emiliano Martínez-Periñán [2], José I. Martínez [3], Encarnación Lorenzo [2], José L. Segura[1]
1. Universidad Complutense de Madrid, Madrid, España
2. Universidad Autónoma de Madrid, Madrid, España
3. Instituto de Ciencia de Materiales de Madrid, Madrid, España

O-35 Hetero-Functionalization Of Polyitaconates For Developing Improved Polymer Dielectrics: Merging Sulfones With Bulky/Rigid Cycles.

Sebastian Bonardd[1], Jon Maiz[1,2], Ángel Alegría[1,3], José A. Pomposo[1,2,3], Ester Verde[1,2], Galder Kortaberria [3], David Díaz Díaz[4,5]
1. Materials Physics Center, Donostia, España
2. IKERBASQUE – Basque Foundation for Science, Bilbao, España
3. Universidad del País Vasco, Donostia, España
4. Instituto Universitario de Bio-Orgánica Antonio González, San Cristobal De La Laguna, España
5. Universidad de La Laguna, San Cristobal de La Laguna, España

O-36 Thermal And Dielectric Stability Of Self-Crosslinkable Polypropylene Functionalized With Thermo- Or Photo-Active Groups.

José Manuel Gómez-Elvira González, Angélica Martín Lorenzo, Rosana Vaquero Bermejo, Daniel Plaza González, Enrique Blázquez Blázquez, Mario Hoyos Núñez
ICTP-CSIC, Madrid, España

O-37 Impact Of Molecular Weight On The Solid State Structure In Semiconducting Polymers For Photovoltaics.

Matto Sanviti, Jaime Martín
Universidade da Coruña (UDC), A Coruña, España

O-38 Understanding Li6.24La3Zr2Al0.24O11.98 Effect On Poly(Ionic Liquid)-Based Hybrid Electrolytes For High Voltage Solid-State Lithium Batteries.

Carlos Villacis Segovia[1,2], Rafael Del Olmo[1], Jorge Olmedo Martínez[1], Luke O'dell[3], Mercedes Fernández [1], David Mecerreyes [1,4], Andriy Kvasha [5], Irune Villaluenga [1,4]
1. POLYMAT, Applied Chemistry Department, Faculty of Chemistry, University of the Basque Country UPV/EHU, 20009 Donostia - San Sebastián, Spain, Donostia/san Sebastián, España
2. CIDETEC, Basque Research and Technology Alliance (BRTA), Paseo Miramón 196, Donostia-San Sebastián 20014, Spain, Donostia/San Sebastián, España
3. Institute for Frontier Materials, Deakin University, Geelong, Victoria 3220, Australia, Victoria, Australia
4. IKERBASQUE Basque Foundation for Science 48013 Bilbao, Spain, Bilbao, España
5. CIDETEC, Basque Research and Technology Alliance (BRTA), Paseo Miramón 196, Donostia-San Sebastián 20014, Spain, Donostia/san Sebastián, España

O-39 Anisotropic Composites Of Conjugated Polymers And Polymer-Wrapped Carbon Nanotubes For Thermoelectric Applications.

Xabier Rodríguez-Martínez [1,2]
1. Institute for Physical Chemistry, Heidelberg University, Heidelberg, Alemania
2. CITENI, Universidade da Coruña, A Coruña, España

11:30-12:40 ORAL SESSION 6B – SALÓN DE ACTOS

O-46 Pre-Clinical Evaluation Of A New Class III Biodegradable Stent For The Treatment Of Urethral Stricture.

Laura Rubio-Emazabel [1], Yurena Polo [1], Ana Gloria Gil [2,3], Adela López De Cerain [2,3], Antonio Muñoz [1], Jorge Fernández [1]
1. Polimerbio SL, Donostia-San Sebastián, España
2. Universidad de Navarra, Department Pharmacology and Toxicology, School of Pharmacy and Nutrition, Pamplona, España
3. Universidad de Navarra, Toxicology Unit, Drug Development Unit (DDUNAV), Pamplona, España

O-47 Chemoresponsive Behavior In Dynamic Polymer Networks.

Jesús Del Barrio Lasheras, Enrique Guerreiro Gómez, Rahul Singh Yadav, Luis Oriol Langa
Instituto de Nanociencia y Materiales de Aragón - Universidad de Zaragoza, Zaragoza, España

O-48 Stimuli-Responsive Dendritic Hydrogels: Tuning The Macroscopic Properties From The Nanoscale.

Sandra García-Gallego [1,2,3], Judith Recio-Ruiz [1], Silvia Muñoz-Sánchez [1], F. Javier De La Mata [1,2,3]
1. University of Alcalá, Department of Organic and Inorganic Chemistry and Research Institute in Chemistry "Andrés M. del Río" (IQAR), Alcalá De Henares (madrid), España
2. Networking Research Center on Bioengineering, Biomaterials and Nanomedicine (CIBER-BBN), Madrid, España
3. Institute Ramón y Cajal for Health Research (IRYCIS), Madrid, España

O-49 Preparation Of Silver Nanoparticles (AgNPs) Using Beta Chitosan Suspensions.

Saeedeh . Pouri[1], Ibor . Quecedo[1], Angeles Maria Heras[2,1], Inmaculada . Aranaz[2,1]
1. Pluridisciplinar.UCM, Madrid, Spain
2. Departamento de Química en Ciencias Farmacéuticas.UCM, Madrid, Spain

O-50 Degradable Amino-Yne Hydrogels: Study Of ß-Aminoacrylate Crosslink Cleavage.

Sara Bescós Ramo, Jesús Del Barrio , Pilar Romero , Milagros Piñol , Luis Oriol
Instituto de Nanociencia y Materiales de Aragón (INMA), CSIC-Universidad de Zaragoza, Zaragoza, España

O-51 Mass Production Of Multicellular Spheroids With 3D Printed Low-Attachment Polyurethane Microwell Arrays.

P. Navarrete-Segado[1], J. Llorca[1,2], J. P. Fernández-Blázquez[1], C. Corchado[1], P. J. Díaz-Payno[1], J. Patterson [1]
1. IMDEA Materials Institute, Getafe, España
2. Department of Materials Science, Polytechnic University of Madrid, Madrid, España

O-52 Conductive Tissue Engineered Scaffolds For Spinal Cord Injury Repair.

Aleksandra Serafin[1], Mario Culabras [2], Maurice Collins [1]
1. University of Limerick, Limerick, Irlanda
2. University of Valencia, Valencia, España

12:40 – 13:00 FLASH SESSION 02

F-07 Long-Term Oxygen Reduction Reaction Electrocatalysis Using Robust Amide-Linked Fluorinated Covalent Organic Frameworks.

Miguel Jiménez Duro[1], Emiliano Martínez Periñan[2], Marcos Martínez Fernández[1], José Ignacio Martínez Ruiz[3], Encarnación Lorenzo Abad[2], José Luis Segura Castedo[1]
1. Universidad Complutense de Madrid, Madrid, España
2. Universidad Autónoma de Madrid, Madrid, España
3. Instituto de Ciencias Materiales de Madrid, Madrid, España

F-08 Sustainable Core-Shell Structures Derived From Lignin For Sodium-Ion Batteries.

Judith Miralda Jalle[1], Tadhg Kennedy [2], Mario Culebras Rubio[3], Maurice N Collins [1]

1. Stokes Laboratories, School of engineering, University of Limerick, Limerick, Irlanda
2. Department of chemical science, University of Limerick, Limerick, Irlanda
3. Institute of Material Science, Universitat de València, Valencia, España

F-09 Covalent Organic Frameworks Based On Multi-Component Synthesis For Photoconductivity.

Marta Gordo Lozano[1], Marcos Martínez Fernández[1], José Ignacio Martínez[2], Rajendra Prasad Paitandi[3], Shu Seki [3], José Luis Segura Castedo[1]

1. Dept. of Organic Chemistry. Faculty of Chemistry, Complutense Univ. of Madrid, Madrid, España
2. Instituto de Ciencia de Materiales de Madrid (ICMM-CSIC), Madrid, España
3. Department of Molecular Engineering, Graduate School of Engineering, Kyoto University, Nishikyo-ku, Kyoto, Japón

F-10 Encapsulation Of Organic Phase Change Materials In Poly(3,4-Ethylenedioxythiophene) Nanoparticles For Enhanced Thermal Energy Storage Coatings.

Inés Adam-Cervera, Jose Huerta-Recasens, Mario Culebras, Clara M. Gómez, Rafael Muñoz-Espí

Institut de Ciència dels Materials de la Universitat de València (ICMUV), Paterna, España

F-11 Formulation Of Antibacterial Cream Containing Imidazolium-Terminated Carbosilane Dendrimers For Wound Treatment.

Rebeca Lozano García[1,2,3], Javier Sánchez-Nieves Fernández[1,2,3], Bárbara Pérez Köhler[2,3,4], Selma Benito Martínez[2,3,4], Gemma Pascual González[2,3,4], Juan M. Bellón Caneiro[2,3,5], F. Javier De La Mata De La Mata[1,2,3]

1. Department of Organic and Inorganic Chemistry, Research Institute in Chemistry "Andrés M. del Río" (IQAR), University of Alcalá (UAH), 28871 Alcalá De Henares (madrid), España
2. Networking Research Center for Bioengineering, Biomaterials and Nanomedicine (CIBER-BNN), 28029 Madrid, España
3. Ramón y Cajal Institute of Health Research, IRYCIS, 28034 Madrid, España
4. Department of Medicine and Medical Specialties, Faculty of Medicine, University of Alcalá (UAH), 28871 Alcalá de Henares (Madrid), España
5. Department of Surgery, Medical and Social Sciences, Faculty of Medicine, University of Alcalá (UAH), 28871 Alcalá de Henares (Madrid), España

F-12 Aqueous Seeded RAFT Polymerization For The Preparation Of Self-Assemblies Based On 2,6-Diacylaminopyridine For Biomedical Applications.

Miriam Abad Andrés[1], Víctor Sebastián [1,2,3], Manuel Arruebo [1,2,3], Luis Oriol [1], Eva Blasco [4], Milagros Piñol [1]

1. Instituto de Nanociencia y Materiales de Aragón (INMA), CSIC-Universidad de Zaragoza, Zaragoza, España
2. Instituto de Investigación Sanitaria de Aragón (ISS Aragón), Zaragoza, España
3. Networking Research Centre on Bioengineering, Biomaterials and Nanobiomedicine (CIBER-BNN), Madrid, España
4. Ruprecht-Karls-Universität Heidelberg, Organic Chemistry Institute (OCI)-Institute for Molecular Systems, Engineering and Advanced Materials, Heidelberg, Alemania

13:00 – 14:30 LUNCH - Maldonado

14:30 – 15:10 ROUND TABLE

Energía y sostenibilidad: diálogo y alineación necesaria entre la inversión, la industria y la ciencia de polímeros.

With the participation of ICTP, GIRAGID, CIIAE, CDTI

15:10 – 15:30 KEYNOTE

KN-05 Revalorización De Residuos Agroindustriales Para El Desarrollo De Nuevos Materiales Biodegradables.

Isaac Benito Gonzalez[1], Vera Cebrian Lloret[2], Zaida Perez Bassart[1], Laura Cabrera Villamizar[1], Marta Martínez Sanz[1], Maria Jose Fabra Rovira[1], **Amparo Lopez Rubio[1]**

1. IATA-CSIC, Paterna (valencia), España
2. CIAL-CSIC, Paterna (valencia), España

15:30 – 16:00 ORAL SESSION 07

O-53 Fully Natural And Functional Porous Sorbents For Sustainable Materials Manufactured Via Polymer Processing Techniques.

Antonio José Capezza

KTH Royal Institute of Technology, Estocolmo, Suecia

O-54 Oxime Metathesis: Tuneable And Versatile Chemistry For Dynamic Networks.

Marta Ximenis[1], Luca Pettazzoni[2], Francesca Leonelli[2], Giulia Vozzolo[1], Enrico Bodo[2], Fermin Elizalde[1], Haritz Sardon[1,3]

1. POLYMAT, Donostia, España
2. Sapienza Università di Roma, Roma, Italia
3. Universidad del País Vasco, Donostia, España

O-55 Nanocellulose-Based Cryogels For Sustainable Cultural Heritage Conservation.

Erlantz Lizundia[1], Olivia Gómez-Laserna[2], Iratxe Zarandona[2], Martina Romani [2], Francesco Caruso[2], Maite Maguregui [2]

1. Life Cycle Thinking Group, Department of Graphic Design and Engineering Projects, Faculty of Engineering in Bilbao, University of the Basque Country (UPV/EHU), Bilbao, España
2. Department of Analytical Chemistry, University of the Basque Country (UPV/EHU), Leioa, España

16:00 – 17:00 COFFEE + POSTERS SESSION 02

17:00 – 17:20 KEYNOTE

KN–06 Improving polymer circularity through chemical recycling strategies.

Juan López Valentín
(ICTP-CSIC, Spain)

17:20 – 17:40 ORAL SESSION 08

O-56 Recyclable Photoresins For Light-Mediated Additive Manufacturing: Loop 3D Printing.

Xabier Lopez De Pariza Sanz, Oihane Varela , Haritz Sardon
UPV/EHU - Polymat, Donostia-San Sebastian, España

O-57 Polimerización En Superficie De Agro-Residuos Para Fabricación Aditiva De Materiales Compuestos Sostenibles.

Alberto Sanz De León, Pedro Burgos Pintos, Mirko Maturi , Sergio I. Molina Rubio
Universidad de Cádiz, Puerto Real, España

18:30 – 19:20 ROYAL BOTANICAL GARDENS OF MADRID (RJB-CSC) - TOUR
(Plaza de Murillo, 2)
Guided tour.

WEDNESDAY 18 SEPTEMBER 2024

ESPACIO MALDONADO (C/Serrano, 104)

09:00 – 10:00 PLENARY

PL–05 Conducting Polymers for Bioelectronic Medicine.

George Malliaras
University of Cambridge, Cambridge, United Kingdom

09:40 – 10:00 KEYNOTE

KN–07 Thin Nanogel Dressing Of Biomolecules To Approach Smart Applications.

Ana Beloqui Elizazu[1,2]
1. POLYMAT - UPV/EHU, San Sebastián, España
2. Ikerbasque, Bilbao, España

10:00 – 11:00 ORAL SESSION 09

O-58 Injectability Of Macro-Hydrogels: Development Of Hyaluronic Acid Granular Formulations.

Luis Andrés Pérez [1,2], José María Alonso [1], Virginia Sáez-Martínez [1], Raúl Pérez [1], Rebeca Hernández[2]
1. I+Med, Vitoria, España
2. CSIC, Madrid, España

O-59 Biomimetic Linear-Dendritic Hybrids For Adhesion: Dendritic Effect And Skin Adhesion.

Alexandre Lancelot [1,2], Jonathan Wilker [2], Teresa Sierra [1]
1. Instituto de Nanociencia y de Materiales de Aragón - CSIC, Zaragoza, España
2. Purdue University, West Lafayette, Estados Unidos

O-60 Surface-Functionalized Thermoplastic Elastomers And Human Stem Cells: A Combinatorial Approach For Nerve Tissue Engineering.

Irene Romayor [1,2,3], Yurena Polo [4], **Sara Martín-Colomo** [3,5], Ruth Basanta-Torres[3], Irene Manero-Roig [3,6], Beatriz Pardo-Rodriguez [3], Gaskon Ibarretxe [3], Aitor Larrañaga [5], Cristina Eguizabal [1,2], Jose Ramon Pineda[3,7]
1. Cell Therapy, Stem Cells and Tissues Group, Biobizkaia Health Research Institute, 48903, Barakaldo, España
2. Basque Centre for Blood Transfusion and Human Tissues, 48960, Galdakao, España
3. Dep. Cell Biology and Histology, University of the Basque Country (UPV/EHU), Leioa, España
4. Polimerbio SL, Donostia-San Sebastian, España
5. Dep. Mining-Metallurgy Engineering and Materials Science, POLYMAT, University of the Basque Country (UPV/EHU), Bilbao, España
6. Université de Bordeaux IINS-UMR 5297, Bordeaux, España
7. Achucarro Basque Center for Neuroscience Fundazioa, Leioa, España

O-61 Fibrous PLA/Fe3O4 Nanocomposite Materials Prepared By Solution Blow Spinning And Electrospinning: A Comparative Study Of Their Mechanical Behavior.

Javier González Benito[1], Natasa Nikolic [1], Gustavo González Gaitano[2]

1. Universidad Carlos III de Madrid, Legnés, España
2. Universidad de Navarra, Pamplona, España

O-62 PH-Responsive Amphiphilic Homopolyacetal Derived From Green Solvent Cyrene.

Javier Delgado-Lijarcio, Juan C. Ronda, Virginia Cádiz, Gerard Lligadas, Adrian Moreno, Marina Galià

Universitat Rovira i Virgili, Tarragona, España

O-63 Surface Modification Of Pla-Based Electrospun Nanofibers Mats With Hydrophilic Polymers.

Valentina Salaris[1], Noelia Esteban[2], Jesús M Martínez Ilarduya[2], Ángel E. Lozano[1,2,3], Cristina Álvarez[1,2,3], Camino Bartolomé [2], Enrique Martínez Campos[1,4], Daniel López[1], Laura Peponi[1]

1. ICTP-CSIC, Madrid, España
2. IU CINQUIMA-UVa, Valladolid, España
3. SMAP, UA-UVA_CSIC, Valladolid

11:00 – 11:30 COFFEE BREAK + POSTERS SESSION 03

11:30 – 12:40 ORAL SESSION - 10

O-64 Comprehensive Structural Characterization Of Devulcanized Rubber Derived From End-Of-Life Tires.

Zenen Zepeda Rodriguez[1], Fernando Martin Salamanca[1], Marina Montero Escriva[1], Maialen Narvaez Fagoaga[1], James Rob Innes [2], Rodrigo Navarro Crespo[1], Juan López Valentin[1]

1. Instituto de Ciencia y Tecnología de Polímeros (ICTP-CSIC), Madrid, España
2. Polymer IRC, University of Bradford, Bradford, Reino Unido

O-65 Impact Of Aliphatic Glycol Chain Length In Polycaprolactone Based Random Copolyesters.

Juan Torres Rodríguez[1], Maryam Safari [2], Ricardo Perez Camargo[1], Agurtzane Mugica [1], Manuela Zubitur [1], Antxon Martinez De Ilarduya[3], Haritz Sardon [1], Alejandro Muller [1,4]

1. POLYMAT, San Sebastián, España
2. Maastricht University-Aachen Maastricht Institute for Biobased Materials, Geleen, Países Bajos
3. Departament d'Enginyeria Química, Universitat Politècnica de Catalunya, Barcelona, España
4. Ikerbasque, Bilbao, España

O-66 Síntesis De Biopoliesteres A Partir De CO_2 Y Furfural.

Eva M Maya Hernandez, Elizabeth Rangel Rangel

Instituto de Ciencia de Materiales de Madrid, Madrid, España

O-67 Improving PLA Performance With Biobased Plasticizers: Technological Assessment And Raman Spectroscopy Analysis.

Ignacio Mena Prado[1], Marta Fernandez Garcia[1], Enrique Blázquez Blázquez[1], Ángel Adolfo Del Campo García[2], Alexandra Muñoz Bonilla[1]

1. Instituto de ciencia y tecnología de polímeros, Madrid, España
2. Instituto de cerámica y vidrio, Madrid, España

O-68 Análisis Comparativo Entre Moldeo Por Inyección Y Compresión Aplicado A Matrices Bioplásticas Para Fines Hortícolas.

Daniel Castro Criado[1], Mercedes Jiménez Rosado[2], Carmen María Granados Carrera[1], Víctor M. Pérez Puyana[1], Alberto Romero García[1]

1. Universidad de Sevilla, Sevilla, España
2. Universidad de León, León, España

O-69 Exploration And Synthesis Of Novel Polyols Obtained From Bio-Based Diols.

Ane Olazabal Abarrategui

Polykey Polymers, San Sebastian, España

O-70 Silica Based Particles As Carriers Of Additives For Enhancing The Protection Of Recycled Materials.

Enrique Blázquez-Blázquez, Ana Beatriz Mourao, Tamara M. Díez-Rodríguez, Jaime Jurado, Ernesto Pérez, María L. Cerrada

Instituto de Ciencia y Tecnología de Polímeros (ICTP-CSIC), Madrid, España

12:40 – 13:00 FLASH SESSION - 03

F-13 Lignin-Based Magnetically Separable Catalysts For The Degradation Of Nitroaromatic Pollutants.

Alberto Llopis-Lacruz, Susana Ochando-Pariente, Francisco F. Pérez-Pla, Mario Culebras-Rubio, Rafael Muñoz-Espí

Universitat de València, Paterna, España

F-14 Effect Of Bio-Based Sizing On The Interface Of Carbon Fibre-Reinforced Composites.

Clotilde Techoueyres, Anne Beaucamp Mcloughlin, Maurice N. Collins

University of Limerick, Limerick, Ireland

F-15 Wet Spinning Of Lignin Based Precursors Fibres For Carbon Fibre Production.

Jean Rougé, Anne Beaucamp Mcloughlin, Maurice Collins

University of Limerick, Limerick, Irlanda

F-16 Lignin-Based Encapsulation Of Agrochemical Compounds By Spray Drying .

Jose Huerta-Recasens, Julieta Cantarella-Otero, Amparo Chafer, Clara M. Gómez, Francisco F. Pérez-Pla, Mario Culebras, Rafael Muñoz-Espí

Universitat de Valencia, Valencia, España

F-17 DLP 3D Printing Of Reprocessable Semi-Interpenetrating Networks Based On High Molecular Weight Latexes.

Jon Ayestarán Uriarte[1], Xabier Lopez De Pariza Sanz[2], Fernando Vidal Peña[1], Robert Aguirresarobe Hernandez[2,1], Timothy Long [1,3], Haritz Sardón Muguruza[1,2]

1. Polymat, San Sebastián, España
2. UPV/EHU, San Sebastián, España
3. Arizona State University, Phoenix, Estados Unidos

F-18 Nuevo Accesorio De Limpieza Y Preparación De Muestra En Ensayos De Reológica De Cizalla.

Carlos Gracia, **César Delrio**

TA INSTRUMENTS, Cerdanyola Del Valles, España

13:00 – 14:30 LUNCH - Gourmet Voucher. You may select Postcode: 28001

14:30 – 14:50 KEYNOTE

KN-08. Advancing Soft Robotic Functions Through Additive Manufacturing Of Liquid Crystal Elastomers.

Carlos Sánchez-Somolinos

INMA (CSIC-UZ), Zaragoza, España

14:50 – 16:00 ORAL SESSION - 11

O-71 Detección De La Tensión De Tracción En Compuestos Reforzados Con Fibra De Vidrio Con Microhilos Ferromagnéticos Integrados.

Rafael Garcia-Etxabe[1], Arcady Zhukov [2,3], Johan Malm [4], Marta Camacho [1], Ibon Urrutxua [1], Valentina Zhukova [2]

1. GAIKER Technology Centre, Basque Research and Technology Alliance (BRTA), Zamudio, España
2. Dept. Polymers and Advanced Materials, and Dept. Appl. Phys. Physics, Univ. of Basque Country, UPV/EHU, San Sebastian, España

3. IKERBASQUE, Basque Foundation for Science, Bilbao, España
4. Digital Systems, RISE Research Institutes of Sweden, Göteborg, Suecia

O-72 Propiedades Viscoelásticas De Las Lágrimas Humanas Y Artificiales: Una Visión Microrreológica.

Andrés Cardil[1], Javier Ramos[1], Mercedes Fernández[2], Itxaso Calafel[2], Arantxa Acera[3,4], **Juan Francisco Vega[1]**

1. Instituto de Estructura de la Materia (CSIC), Madrid, España
2. POLYMAT and Department of Polymers and Advanced Materials: Physics, Chemistry and Technology, Faculty of Chemistry, University of the Basque Country UPV/EHU, Donostia, España
3. Department of Cell Biology and Histology, Experimental Ophthalmo-Biology Group (GOBE), University of the Basque Country UPV/EHU, Leioa, España
4. Ikerbasque, Basque Foundation for Science, Bilbao, España

O-73 Improved Polyurethane Based Adhesives For Satin XPS-Sandstone Insulation Panels.

Álvaro Miguel Ortega[1,2], Sara González Moreno[1], José Manuel González Martín[1], Raquel Arroyo Sanz[1], Alba Torija López[1], Félix Clemente García García[1], Miriam Trigo López[1], Saúl Vallejos Calzada[1]

1. Universidad de Burgos, Burgos, España
2. Universidad Autónoma de Madrid, Madrid, España

O-74 Synthetizing Sustainable Thermosetting Polymers: The Role Of Different Vegetable Oils.

Esperanza Cortes-Triviño [1], Susana Fernández-Prieto [2], Inmaculada Martínez [1], José María Franco [1]

1. Pro2TecS-Chemical Product and Process Technology Centre, University of Huelva, 21071, Huelva, España
2. Brussels Innovation Center, Procter and Gamble Services Company NV, 1853 Strombeek Bever, Brussels, Bélgica

O-75 Toward Self-Driving Laboratory For The Design Of Multifunctional Nanocomposites.

Maciej Haranczyk
IMDEA Materiales, Madrid, España

O-76 High Resolution Molds, Sacrificial In Aqueous Media, Obtained By Vat Photopolymerization 3D Printing.

Pedro Liz Basteiro, Raúl Sanz Horta, Felipe Reviriego , Enrique Martínez Campos, Helmut Reinecke, Carlos Elvira , Juan Rodríguez Hernández, Alberto Gallardo
Instituto de ciencia y tecnología de Polímeros, Madrid, España

O-77 Optimizing the processing parameters of PEEK additive manufacturing through design of experiments.

Lucia Doyle, Juan Pedro Fernández-Blázquez, Javier García Molleja, Carlos González
IMDEA Materiales, Madrid, España

16:00 – 17:00 COFFEE + POSTERS SESSION 03

17:00 – 17:20 KEYNOTE

KN–09 3D Bioprinting Biomimetic Breast Cancer Models Using Decellularized extracellular matrices.

Barbara Blanco-Fernández[1,2], Gulçun Bagçi[1,2], **Elisabeth Engel**[1,2,3]

Institute for Bioengineering of Catalonia (IBEC), The Barcelona Institute of Science and Technology, Barcelona, España
CIBER en Bioingeniería, Biomateriales y Nanomedicina, Madrid, España
Materials Science and Metallurgical Engineering, Polytechnical University of Catalonia (UPC), Barcelona, España

17:20 – 17:40 ORAL SESSION - 12

O-78 3D Bioprinted Scaffolds Using Fibrillar Collagen Bioinks For Tissue Engineering: New Approaches In Cardiac And Cartilage Tissue Regeneration.

Teresa Zúñiga[1,2], A. Guembe[1], I. Ateca[1], P. Montero Calle[2], T. López Martínez[2,3], M. M. Mazo[2,4], F. Granero Moltó[2,4,3], J.M. Isco[1]

1. Viscofan S.A., Tajonar, España
2. Cell Therapy Area, Clínica Universidad de Navarra and Enabling Technologies Division, CIMA Universidad de Navarra, Pamplona, España
3. Department of Orthopedic Surgery and Traumatology, Clínica Universidad de Navarra, Pamplona, España
4. Instituto de investigación Sanitaria de Navarra (IdiSNA), Pamplona, España

O-79 Hydrogel-Based 3D Printed Cancer Models For SERS Sensing And Imaging.

Clara García Astrain[1], Malou Henriksen Lacey[2,3], Patricia González Callejo[2], Lara Troncoso Afonso[2], Dorleta Jimenez De Aberasturi [2,4,3], Luis M. Liz Marzán[2,4,3]

1. POLYMAT, San Sebastian, España
2. CICbiomaGUNE, San Sebastian, España
3. Centro de Investigación Biomédica en Red, Bioingeniería, Biomateriales y Nanomedicina (CIBER-BBN), San Sebastian, España
4. Ikerbasque, Basque Foundation for Science, Bilbao, España

17:50 – 19:20 GEP GENERAL ASSEMBLY

20:45 GALA DINNER
Rte Descaro
Pl. de España, 6, 2ª Planta

THURSDAY 19 SEPTEMBER 2024

CSIC AUDITORIUM (C/Serrano, 117)

09:00 – 09:40 PLENARY

PL-04 From waste to advanced materials based on microbial biotechnology strategies.

M. Auxiliadora Prieto

CIB-CSIC, España

09:40 – 10:00 KEYNOTE

KN–10 Antimicrobial Cationic Polymers Based On Thiazole Rings, A Component Of Vitamin B .

Alexandra Muñoz Bonilla

Instituto de Ciencia y Tecnología de Polímeros (ICTP-CSIC), Madrid, España

10:00 – 11:00 ORAL SESSION - 13

O-80 Impresión 3D De Filamento Fundido De Policaprolactona Cargada Con Resina Epoxi Reciclada.

Iker Razquin[1], Leire Mediavilla[1], Mónica Cobos[1], Itziar Insua[1], Itxaso Calafel[1], Nora Aramburu[1], Izaskun Larraza[2], Loli Martin[3], Alba Gonzalez[1], Lourdes Irusta[1]

1. POLYMAT and Department of Polymers and Advanced Materials: Physics, Chemistry and Technology, University of the Basque Country UPV/EHU, Donostia-San Sebastián, España

2. Group "Materials+Technologies", Department of Chemical and Environment Engineering, University of the Basque Country UPV-EHU, Donostia-San Sebastián, España

3. Macrobehaviour-Mesostructure-Nanotechnology SGIker Service, Faculty of Engineering, University of the Basque Country UPV/EHU, Donostia-San Sebastián, España

O-81 PHBV Films Loaded With PHA Microparticles For Packaging Applications.

María Belén Montero Rodríguez[1], Birgit Bittmann-Hennes [2], Danny Robert Moncada Villalobos[3], Anja Schmidt [3]

*1. * Universidade da Coruña, Campus Industrial de Ferrol, CITENI, Departamento de Física y Ciencias de la Tierra, Grupo de Polímeros, Campus de Esteiro, 15403 Ferrol, España*

2. Leibniz-Institut für Verbundwerkstoffe GmbH, Erwin-Schrödinger-Str. Geb. 58, 67663 Kaiserslautern, Alemania

3. Universidade da Coruña, Campus Industrial de Ferrol, CITENI, Grupo de Polímeros, Campus de Esteiro, 15403 Ferrol, España

O-82 Aplicación De Los PHA Al Sector Del Envasado: Mejoras En La Usabilidad Y Control De La Biodegradación.

Luis Cabedo Mas[1,2], Kerly Samaniego Aguilar[1], Patricia Feijoo Domínguez[1], Anna Marín Gozalbo[1], Estefanía Sánchez Safont[1], Sergio Torres Giner[3], Cristina Prieto [4], José María Lagarón Cabello[4], José Gámez Pérez[1,2]

1. Universitat Jaume I, Castelló, España
2. CEBIMAT LAB S.L., Castelló, España
3. Universitat Politècnica de València, València, España
4. IATA-CSIC, València, España

O-83 Recycling Ground Tyre Rubber Via Their Blending With Natural Rubber Matrix For Elastocaloric Applications.

Nicolas Candau, Agathe Lewandowski, Samuele Uliana, Germán Lara Casanova, Maria Lluisa Maspoch Ruldua
Universitat Politècnica de Catalunya, Barcelona, España

O-84 Recycled Polyolefin Blends And Ground Tire Rubber (GTR): From Post-Consumer Waste To 2nd Generation Functional Materials.

Itziar Otaegi Tena, Nora Aranburu Okariz, Gonzalo Guerrica-Echevarría Estanga
POLYMAT & Department of Advanced Polymers and Materials: Physics, Chemistry, and Technology. University of the Basque Country (UPV/EHU), Donostia - San Sebastián, España

O-85 Functionalization Of Polymer Nanoparticles With Catalytically Active Organic And Metallorganic Moieties.

Inés Adam-Cervera, Alberto Llopis-Lacruz, Francisco F. Pérez-Pla, María González-Béjar, **Rafael Muñoz-Espí**
Universitat de València, Paterna, España

11:00 – 11:30 COFFEE BREAK

11:30 – 12:40 ORAL SESSION - 14

O-86 Double-Shelled Hollow Particles Based On Polyester Grafted Bacterial Cellulose For Trapping Bioactive Cargoes.

Virginia Rivero Buceta[1,2], Luis García Fernández[3,4], Cristina Campano Tiedra[1], Natalia Hernández Herreros[1], María Rosa Aguilar De Armas[3,4], Auxiliadora Prieto Jiménez[1,2]
1. Polymer Biotechnology Group, Biological Research Centre Margarita Salas, Spanish National Research Council (CIB-CSIC), Madrid, España
2. Interdisciplinary Platform for Sustainable Plastics towards a Circular Economy-Spanish National Research Council (SusPlast-CSIC), Madrid, España
3. Biomaterials Group, Institute of Polymer Science and Technology (ICTP-CSIC), Madrid, España
4. Centro de Investigación Biomédica en Red de Bioingeniería, Biomateriales y Nanomedicina, Instituto de Salud Carlos III, Madrid, España

O-87 Using Nanoparticles Of Sepiolite For Designing Advanced Polystyrene Cellular Materials.

Luis Eduardo Alonso Pastor, Pablo Andrés Romero Proaño, María Isabel Muñoz De Frutos, Miguel Ángel Rodríguez Pérez, Karina Carla Núñez Carrero
Cellmat Laboratories, Department of Condensed Matter Physics, Faculty of Sciences, University of Valladolid, Paseo de Belén, 7, Valladolid, 47011, Spain, Valladolid, España

O-88 Optimization Of Processing Conditions And Themal/Mechanical Properties For PEEK/PEI Multilayered Blends And Their CF Composites.

Juan Pedro Fernández Blázquez[1], Sebastián Andrés Toro [2], Carlos González [3,4], Álvaro Ridruejo [4]

1. Instituto IMDEA Materiales, Getafe, España
2. Universidad Santiago de Chile, Santiago De Chile, Chile
3. Instituto IMDEA Materiales, Madrid, España
4. ETSI Caminos, Universidad Politécnica de Madrid, Madrid, España

O-89 Improving Na-O2/Air Batteries: Overcoming Oxygen Crossover And Future Challenges With Solid-State Polymer Electrolytes (SSPE).

Mohamed Yahia, Nagore Ortiz Vitoriano

CIC-EnergiGUNE, Vitoria-Gasteiz, España

O-90 Determination Of Betalain Content In Cooked Beetroots Using Smart Polymers.

Carlos Sedano Labrador, Miriam Trigo López, Saúl Vallejos Calzada, José Miguel García Pérez, Alba Torija López

Universidad de Burgos, Burgos, España

O-91 Poly (Methyl Methacrylate) Foaming By One Step Process With ScCO2 And Water.

Aránzazu Redondo[1], Judith Martín[2], Danilo Cantero[1]

1. BioEcoUva, Research Institute on Bioeconomy, PressTech, Department of Chemical Engineering and Environmental Technology, University of Valladolid., Valladolid, España
2. Cellular Materials Laboratory (CellMat), Condensed Matter Physics Department, University of Valladolid, Valladolid, España

O-92 Advancements And Characterization Of Polymer Gel Electrolytes For Sodium Batteries .

Ángela Campo Peña, Nuria García García, Pilar Tiemblo Magro

Instituto de Ciencia y Tecnología de Polímeros, Madrid, España

12:40 – 13:00 CLOSING CEREMONY AND AWARDS


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IMASMED.COM

POSTER SESSION – SEPT 16 th

POSTER SESSION 01

16th September

11:00 - 11:30 CLAUSTRO

16:00 - 17:00 CLAUSTRO

P-01 Development Of Low-Density Foams From Liquid Biopolymers And Bio Additives To Stabilize The Cellular Structure.

Clara Amezúa Arranz[1], Leandra Oliveira Salmazo [1], Alberto López Gil[2], Miguel Ángel Rodríguez Pérez[1]

1. Universidad de Valladolid, Valladolid, España
2. CellMat Technologies, Valladolid, España

P-02 The Use Of Biodegradable Polyester Matrices For Magnetic Nanocomposites.

Eider Matxinandiarena[1], Agurtzane Múgica[1], Manuela Zubitur[2], Alejandro Jesús Müller [1,3]

1. POLYMAT and Department of Polymers and Advanced Materials: Physics, Chemistry and Technology, University of the Basque Country, San Sebastián, España
2. Chemical and Environmental Engineering Department, Polytechnic School, University of the Basque Country (UPV/EHU), San Sebastián, España
3. IKERBASQUE, Basque Foundation for Science, Bilbao, España

P-03 Development And Characterization Of Electrospun Films Of Biopolyesters Blends Of Application Interest In Food Packaging.

Sara Añón Peral[1], Cristina Prieto López[1], Luis Cabedo Mas[2], Jose María Lagarón Cabello[1]

1. Instituto de Agroquímica y Tecnología de Alimentos (IATA) - CSIC, Paterna, España
2. Universitat Jaume I (UJI), Castellón, España

P-04 Producción Acuosa De Hilos Para Textil A Partir De Nano/Microcelulosa Y Biopolímeros.

Ane Rivas Zúñiga[1,2], Arantxa Eceiza[2], Borja Fernández-D'Arlas[3]

1. CIC-nanoGUNE, Donostia-San Sebastián, España
2. Grupo "GMT", Escuela de Ingeniería de Gipuzkoa, Donostia-San Sebastián, España
3. Evolgene Genomics S.L, Donostia-San Sebastián, España

P-05 Novel Roofing Binders And Their Application In Eco-Friendly Construction.

Clara Delgado-Sánchez, Rodrigo Álvarez-Barajas, Antonio A. Cuadri, Francisco Javier Navarro, Pedro Partal

Pro2TecS - Universidad de Huelva, Huelva, España

P-06 The Mesophase Of PLA In Materials With ATBC And MCM-41.

Ernesto Pérez[1], Enrique Blázquez-Blázquez[1], Rosa Barranco-García[1,2], Tamara M. Díez-Rodríguez[1], María L. Cerrada [1]

1. ICTP-CSIC, Madrid, España
2. Facultad de Ciencias Químicas, Universidad Complutense de Madrid, Madrid, España

P-07 Cellulose Nanocrystal Enabled Shear-Thinning Inks With Embedded Au Nanoparticles For 2D Printed Photothermia Applications

Marta García Castrillo[1], Erlantz Lizundia [1,2], Javier Reguera [1]

1. BCMaterials, Basque Center for Materials, Applications and Nanostructures, Leioa, Bizkaia, España
2. LifeCycle Thinking Group, gineering Projects, Faculty of Engineering in Bilbao, University of the Basque Country (UPV/EHU), Bilbao, Bizkaia, España

P-08 Exploring Boron-Based Materials As A Promising Platform For The Development Of Dynamic Materials

Jacopo Teotonico[1], Daniele Mantione[1], Haritz Sardon[2], Nicholas Ballard[1], Fernando Ruipérez[2]

1. POLYMAT, San Sebastian, España
2. Universidad del Pais Vasco, San Sebastian, España

P-09 Chemical Recycling To Monomer Of Polyamide 6 With Sulfonic Acids.

Marta Mestre Membrado[1,2], Kathy Elst [2], Karolien Vanbroekhoven [2], Haritz Sardon Muguruza[1]

1. POLYMAT-EHU/UPV, Donostia-San Sebastián, España
2. Flemish Institute for Technological Research (VITO), Mol, Bélgica

P-10 High-Performance Elastomeric Compounds Made From Recycled Materials Obtained From End-Of-Life Tires.

Marina Montero Escrivá, Zenen Zepeda Rodríguez, Maialen Narvaez Fagoaga, Laura Diñeiro García, Fernando Martin Salamanca, Alberto Fernández Torres, Rebeca Herrero Calderon, Rodrigo Navarro Crespo, Juan López Valentín

ICTP-CSIC, Madrid, España

P-11 Degradable Alternating Copolymers By Radical Copolymerization Of 2-Methylen-1,3-Dioxepane And Crotonate, And Tertpolymerization With Industrial Monomers.

Alice Marchand

Polymat, Donostia- San-Sebastian, España

P-12 Design And Characterization Of Biobased Polymers From Vegetal Proteins.

Laura Matesanz[1], Sergio Andrés[1,2], María Asensio[1,2], Mercedes Santiago[1], Maite Fernández [1], Esteban Cañibano[1,3]

1. Fundación CIDAUT, Valladolid, España
2. Universidad de valladolid, Valladolid, España
3. Universidad de Valladolid, Valladolid, España

P-13 Estudio De Films Basados En Residuos De Filamentos De Poli (ácido Láctico) De Impresoras 3D Con Nanopartículas De Cobre.

Gabriel Pinto[1], Marina P. Arrieta[1], Ángel Agüero[1,2], David Hidalgo-Carvajal[1], Ana Ferrández[3], M. Dolores Samper[2], Ruth Carrasco-Gallego[1], Begoña Ferrari[3], Simón Faba[1]

1. Escuela Técnica Superior de Ingenieros Industriales, Universidad Politécnica de Madrid (UPM), Madrid, España
2. Instituto Universitario de Tecnología de Materiales (IUTM), Universidad Politécnica de Valencia (UPV), Alcoy, España

3. Instituto de Cerámica y Vidrio (CSIC), Cantoblanco, Madrid, España

P-14 Films Tricapa Sostenibles A Base De RPLA/Caseinato/RPLA Reforzados Con Celulosa Bacteriana De Kombucha Fermentada En Residuos De Café Para Envase Activo De Alimentos.

Simón Faba[1], Laura Dos Santos[2,1], Ángel Agüero[3,1], Marina P Arrieta[1,4]

1. Departamento de Ingeniería Química Industrial y del Medio Ambiente, Escuela Politécnica Superior de Ingenieros Industriales, Universidad Politécnica de Madrid (ETSII-UPM), Madrid, España
2. Sorbonne Université, Paris, Francia
3. Institut de Tecnologia de Materials (ITM), Universitat Politècnica de València (UPV), Valencia, España
4. Grupo de Investigación: Polímeros, Caracterizacion y Aplicaciones (POLCA), Madrid, España

P-15 A Closed-Loop Process To Transform Mixed Plant Biomass Waste Into Cellulose Acetate Bioplastic As Innovative Growing Substrates In Plant Cultivation.

Yuanyuan N/a Chen

Technological University of the Shannon, Athlone, Ireland

P-16 Transformación De Lignina En Filtros Solares Fotoadaptativos.

Gonzalo Rotea San Luis[1,2], Jordi Salabert Sabaté[1], Juan Carlos Ronda Bargalló[2], Adrian Moreno Guerra[2], María Pin Nó[1], Angel Manuel Valdivielso Pablo[1]

1. Roka Furadada, Barcelona, España
2. Universitat Rovira i Virgili, Tarragona, España

P-17 Valorización De Residuos De Corcho En Polímeros: Hacia Materiales Compuestos Más Sostenibles.

María Del Carmen García Laynez, Pedro Burgos Pinto, Sergio Ignacio Molina Rubio, Alberto Sanz De León

Universidad de Cádiz, Cádiz, España

P-18 Depolimerización Del Polimetacrilato De Metilo A Temperaturas Moderadas.

Gema Marcelo[1], Larisa Sbera[1], Belén Batanero[1], Francisco Mendicti[1], Isabel Quijada-Garrido[2]

1. Universidad de Alcalá, Alcalá De Henares, España
2. Instituto de Ciencia y Tecnología de Polímeros (CSIC), Madrid, España

P-19 Biocomposites Based On PHBV With PHA Microparticles As Fillers For Packaging Applications.

Anja Schmidt[1], Danny Moncada[1], Birgit Bittmann-Hennes[2], Belén Montero[1]

1. Universidade da Coruña, Ferrol, Spain
2. Leibniz-Institut für Verbundwerkstoffe GmbH, Kaiserslautern, Germany

P-20 Preparation Of Films Potentially Applied To Agroindustry From Discarded 3D Printing Material Based On Poly(Lactic Acid) And Iron Particles.

Ángel Agüero Rodríguez[1,2], Simón Faba[2], María Dolores Samper Madrigal[1], Ranier Sepúlveda[3], Miguel Paúl Navarrón[3], Marina P. Arrieta Dillon[2]

1. Instituto Universitario de Tecnología de Materiales, Universitat Politécnica de Valéncia, IUTM-UPV, Alcoy, España
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3. Departamento de Ingeniería y Ciencia de los Materiales y del Transporte. Escuela Técnica Superior de Ingeniería. Universidad de Sevilla, Sevilla, España

P-21 Síntesis De Poliuretanos Sin Isocianato Mediante Fijación De CO2.

Nahikari Martin[1], Iker Razquin[1], Andrea Cid[1], Lourdes Irusta[1], Oihane Sanz[2], Alba Gonzalez[1]

1. POLYMAT and Department of Polymers and Advanced Materials: Physics, Chemistry and Technology, University of the Basque Country UPV/EHU, Donostia-San Sebastián, España
2. Applied Chemistry Department, Chemistry Faculty, University of the Basque Country UPV/EHU, Donostia-San Sebastián, España

P-22 Preparation And Characterization Of Biocomposites Reinforced With Novel Green Graphene.

Danny Moncada, Maite Rico, Rebeca Bouza, Zoia Haholkina, Anja Schmidt, Belén Montero

Universidade da Coruña, Ferrol, España

P-23 Matrices Biodegradables A Partir De Un Subproducto Proteico Para La Liberación Controlada De Nutrientes Y Agua A Los Cultivos.

Mercedes Jiménez Rosado[1], Daniel Castro Criado[2], Víctor Manuel Pérez Puyana[2], Antonio Guerrero[2], Alberto Romero [2]

1. Universidad de León, León, España
2. Universidad de Sevilla, Sevilla, España

P-24 Functionalized Starch-Based Materials For Food Packaging Applications.

Pedro Francisco Muñoz Gimena, Anselmo Del Prado , Laura Peponi , Daniel López

ICTP-CSIC, Madrid, España

P-25 Análisis Y Polimerizabilidad De MMA Reciclado Químicamente.

Lucía Parra Oliva[1], Felipe Reviriego [1], Alberto Gallardo [1], Helmut Reinecke [1], Juan Rodríguez Hernández[1], Carlos Elvira [1], Paula Bosch [1], Tomás García [2], José Manuel López [2], Alberto Veses [2]

1. Instituto de Ciencia y Tecnología de Polímeros, CSIC, Madrid, España
2. Instituto de Carboquímica, CSIC, Zaragoza, España

P-26 are green methods suitable for chitin deproteinization?

Daniel Alonzo Durante Salmerón[1], Isabel Fraile Gutiérrez[2], Florentina Niuris Acosta Contreras[3,4], Inmaculada Aranaz Corral[5,6]

1. Department of Chemistry in Pharmaceutical Sciences, Madrid, España
2. Pharmacy Faculty, Madrid, España
3. Complutense University of Madrid (UCM), Madrid, España
4. Instituto Pluridisciplinar, Madrid, España
5. Ciudad Universitaria, Madrid, España
6. Universidad Complutense de Madrid, Madrid, España

P-27 Sustainable Polymers For A Better Environment: Chitosan-Based Coatings Embedded With Activated Carbon For Water Remediation.

Minghao Yi[1,2], Gary Ellis[1], Peter Shuttleworth[1]

1. Instituto de Ciencia y Tecnología de Polímeros, ICTP-CSIC, Madrid, España
2. Universidad Autónoma de Madrid, Madrid, España

P-28 PLA Platform Membranes For Applications As 3D SLIPS.

Clemente Rodríguez Gómez, Ángela Campo , María Hernandez Rivas, María Aránzazu Martinez Gómez, Pilar Tiemblo , Nuria García

Instituto de Ciencia y Tecnología de Polímeros, Madrid, España

P-29 Recycled Vs Virgin PET: Distinct Features And Properties.

Nuria Garcia[1], Enrique Blázquez[1], Pilar Tiemblo[1], Almudena Imbernón[2]

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2. CAIBA, Valencia, España

P-30 Characterization and Biomedical Applications of Electrospun PHBV Scaffolds Derived from Organic Residues.

Anyi Jin[1,2], Germán Pérez[2], Luis J. Del Valle[1,3], Jordi Puiggalí[1,3]

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3. Barcelona Research Center in Multiscale Science and Engineering, Universitat Politècnica de Catalunya, Barcelona, España

P-31 Resinas de poliuretano sostenibles a partir de recursos naturales: síntesis y aplicaciones.

Dulce Muñoz Subtil, Monika Tannenberg , Sònia Sabaté

Fundación Tecnológica Advantx (FUNDITEC), Madrid, España

P-32 Exploring The Exceptional Vitrimeric Performance Of Poly(Dithiourethanes): An In-Depth Study Of Dynamic Characteristics.

Federico Guerrero-Ruiz[1], Sebastián Bonardd[1], Itziar Otaegi[2], Ester Verde-Sesto[1,3], Jon Maiz[1,3]

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P-33 4D Printable Electroactive And Biodegradable PEDOT:k-Carrageenan Inks For (Bio) Electronics.

Rajat - Rai[1], Antonio - Dominguez-Alfaro[2], Daniele - Mantione[1], Miryam - Criado González[1]
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2. Electrical Engineering Division, Department of Engineering, University of Cambridge, Cambridge, United Kingdom

P-34 Vegetable Oil-Based Inks For 3D Printing Using A Thiol—Michael— Epoxy Dual-Curing Strategy.

Oihane Varela Manrique[1], Clara Vazquez Martel[2,3], Xabier Lopez De Pariza[1], Eva Blasco[2,3], Haritz Sardon[1]
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3. Heidelberg University - Organic Chemistry Institute (OCI), Heidelberg, Alemania

P-35 Rheological And Tribological Behaviour Of Green Lubricating Greases Based On Cellulose Acetate/Silica Nanocomposites.

Manuel Toro-Gallego, Concepción Valencia, M. Carmen Sánchez, José E. Martín-Alfonso, José M Franco
Pro2TecS – Chemical Product and Process Technology Research Center, Department of Chemical Engineering and Materials Science, Universidad de Huelva, ETSI, Campus de "El Carmen", 21071, Huelva, España

P-36 Influence Of The Type Of Clay On The Oil Structuring Properties Of Electrospun Cellulose/Clay Nanocomposites.

Concepción Valencia Barragán, Manuel Toro Gallego, María Del Carmen Sánchez Carrillo, José Enrique Martín Alfonso, José María Franco Gómez
Universidad de Huelva, Huelva, España

P-37 Fabricación De Vitrímeros Con Propiedades Mecánicas Variables Y Evaluación De La Reprocesabilidad Mediante La Activación De Reacciones De Transesterificación.

Naroa Ayensa Serrano[1], Juan Rodríguez Hernández[1], Helmut Reinecke [1], Felipe Reviriego [1], Alberto Gallardo [1], Carlos Elvira [1], Aurora Nogales [2]
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POSTER SESSION – SEPT 17 th

POSTER SESSION 02

17th September

11:00 - 11:30 CLAUSTRO

16:00 - 17:00 CLAUSTRO

P-01 Tire Filling: From Design To Advanced Characterization By Low-Field Nmr.

Laura Diñeiro García[1], Cristina Pintón Riesgo[2], Fernando Martín Salamanca[1], Rodrigo Navarro Crespo[1], Ángel Marcos Fernández[1]

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2. UCM, Madrid, España

P-02 Diseño De Estructuras Poliméricas Biobasadas Con Capacidad Antimicrobiana Y Antioxidante.

Alejandro Funes López, Alexandra Muñoz Bonilla, Marta Fernández García

ICTP-CSIC, Madrid, España

P-03 Efficient Synthetic Route For Cyano-Based Polymers From The Bulk Thermal Polymerization Of Aminomalononitrile.

Carlos Hortelano De La Fuente[1], Marta Ruiz Bermejo[2], José Luis De La Fuente Gómez[1]

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2. Centro de Astrobiología, Torrejón De Ardoz, España

P-04 Síntesis Y Funcionalización De Biopoliésteres Hiperramificados Soportados En Celulosa Microcristalina.

Estefanía Sánchez-Safont, Ignacio Pisa Ripoll, Belén Altava, Marc Cuesta, José Gámez-Pérez, Luis Cabedo

Universitat Jaume I, Castellón, España

P-06 Study Of The Self-Healing Capacity Of A Modified PLA With A Coumarin Methacrylate.

Antoni Pagés Llobet[1], Josep Tresserras Picas[1], Fernando Julián Pérez[1], José Alberto Méndez González[1], Helena Oliver Ortega[2]

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2. Universitat Politècnica de Catalunya, Terrassa, España

P-07 Aromatic polymers having high fractional free volume and large thermal and chemical stability for energy-saving applications.

Paula García-Foronda[1], Noelia Esteban[1], Sandra Rico-Martínez[1], Marta Santos[2], Javier Carretero[2], Jesús A. Miguel[1], Jesús M. Martínez-Ilarduya[1], Carla Aguilar-Lugo[3], Cristina Álvarez[2,4], Camino Bartolomé[1], **Ángel E. Lozano[1,2,4]**

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P-08 Nanomechanical Properties Of Solid And Foamed PCL-Sepiolite Electrospun Fibers.

Violeta Hurtado García[1], **Clara García-Sacristán[2]**, Ricardo García[2], Javier Pinto[3], Suset Barroso Solares[3]

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P-09 Caracterización Térmica Y Viscoelástica De Plásticos Comerciales Para Ortodoncia Invisible.

José Ignacio Delgado Castaño, Juan Pedro Fernández Blázquez

IMDEA materiales, Madrid, España

P-10 Desarrollo De Fibras Poliméricas Basadas En Celulosa Y Poli(ácido Láctico) Mediante Electrohilado En Fundido Para Aplicaciones Biomédicas.

Elena Navas-Ortiz[1], Rosa Barranco-García[2], Coro Echeverria[1], Alexandra Muñoz-Bonilla[1], Marta Fernandez-García[1]

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P-11 Modulación De La Biodegradabilidad De Poliuretanos Para Aplicaciones Biomédicas.

Alejandra Rubio Hernández-Sampelayo[1,2], Enrique Martínez Campos[1], Dulce María González García[3], Rodrigo Navarro Crespo[4], Ángel Marcos Fernández[1]

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P-12 Hidrogeles Conductores En Base A Colágeno Como Apósitos Para Heridas.

Luisbel González[1], Víctor M. Pérez Puyana[2], Claudio Aguayo[1], Katherina Fernandez[1], **Alberto Romero[2]**

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2. Universidad de Sevilla, Sevilla, España

P-13 Photocrosslinked Hydrogel Derived From An Unsaturated Poly(Ester Amide)

María José Lovato Vélez, Luis Javier Del Valle Mendoza, Lourdes Franco Garcia
Universidad Politécnica de Cataluña, Barcelona, España

P-14 Amphiphilic Pseudo-Proteins Via Michael PEGylation And Their Application For Fabricating Core-Shell Particles.

Davit Makharadze[1], Temur Kantaria[2], Luis Javier Del Valle Mendoza[1], Ramaz Katsarava[2], Jordi Puiggalí[1]
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P-15 Estudios De La Formulación De Hidrogeles Aplicados A La Bioimpresión De Implantes.

David Patrocinio Caballero[1], Juan Carlos Gómez Blanco[1], Paula Countinho[2,3], Jorge Loureiro[2], David Durán Rey[1,4], Juan A. Sánchez Margallo[1,5], José Blas Pagador Carrasco[1,5], Francisco M. Sánchez Margallo[1,5,4]
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4. CIBER de Enfermedades Cardiovasculares (CIBERCV), Madrid, España
5. Red RICORS-TERAV, Instituto de Salud Carlos III, Madrid, España

P-16 Development Of Chemically Crosslinked Pectin And Hyaluronic Acid Hydrogels With High Stability And PH Response For 3D Extrusion Printing.

Jorge Mercado Rico[1], Luis Pérez Pérez[1,2], Kiattikhun Manokruang [3], José María Alonso [2], Raúl Pérez González[2], Virginia Sáez Martínez[2], Rebeca Hernández [1]
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P-17 Michael Additions To Activated Alkynes For The Preparation Of PH-Responsive Hydrogels.

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3. Universidad de Zaragoza, Zaragoza, España

P-18 Sistemas Piezoeléctricos Basados En Polilactida Con Estabilidad Térmica Mejorada Y Propiedades Mecánicas Ajustables.

Asier Panfilo Elechiguerra[1,2], Richard Schönlein[1,2], Paula Sofía Maroto Herrera[1], Amaia Montilla Allende[1], Aitor Larrañaga Espartero[1,2], Jone Muñoz Ugartemendia[1,2]
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P-19 Linear Dendritic Block Copolymers As Thermoresponsive Nanocarriers In Aqueous Media.

Javier Martín Martín[1,2], Miriam Abad Andrés[1,2], María Val-Carreres Castellote[1,2], Milagros Piñol Lacambra[1,2], Luis Oriol Langa[1,2], Manuel Arruebo Gordo[1,2], Víctor Sebastián Cabeza[1,2]

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2. Instituto de Nanociencia y Materiales de Aragón (INMA), Zaragoza, España

P-20 Nuevos Biomateriales Basados En Copolímeros De GelMa Para Regeneración ósea

Jesus Luis Pablos Lagartos[1], Teresa Corrales Viscasillas[2], Sandra Sánchez-Salcedo[1], Javier Jiménez-Holguín[1], Antonio J. Salinas [1], M. Vallet-Regí [1]

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P-21 Thermo-Responsive Nanovectors From Self-Assembled Amphiphilic Degradable Block Copolymers.

María Val-Carreres Castellote, Milagros Piñol Lacambra, Luis Oriol Langa, Javier Martín Martín

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P-22 Characterization Of The Isothermal Crystallization Of Poly(Vinylidene Fluoride) Blended With The Ionic Liquid [Emim]2[Co(SCN)4].

Isabel Tort-Ausina[1], Luis A. Martins[1], Carlos M. Costa[2], Daniela M. Correia[2], Senetxu Lanceros-Méndez[2], Ivan Krakovsky[3], Jose Luis Gómez Ribelles[1]

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2. Universidade do Minho, Braga, Portugal
3. Charles University, Praga, República Checa

P-23 Elastomeric Protein-Based Bioactive Eutectogel For Drug Delivery On The Skin.

Pegah Pegah Sanjarnia

POLYMAT, Donostia-San Sebastian, Spain

P-24 PLA Electrospun Fibers Reinforced With Yerba Mate Nanoparticles And Vegetable Oils As Plasticizers.

Victor Oliver Cuenca[1], Valentina Salaris [1], Marina Patricia Arrieta [2], María Dolores Samper [3], Daniel López [1], Laura Peponi[1]

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P-25 Hidrogeles Termosensibles Personalizados Para Aplicaciones En Biomedicina Y Medicina Regenerativa.

Ana García-Crespo[1,2], Pedro Liz-Basteiro[1,2], Rubén García-Sobrino[1,2], Juan Rodríguez-Hernández[1], Helmut Reinecke[1], Alberto Gallardo[1], Carlos Elvira[1], Enrique Martínez-Campos[1,2]

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2. Instituto Pluridisciplinar, UCM, Madrid, España

P-26 Development Of Reabsorbable Basement Membrane Equivalent Based On Bioactive, Recombinant Elastin-Like Polymers For Wound Healing Applications.

Raúl Escribano Arranz, José Carlos Rodríguez Caballero, Mercedes Santos García, Matilde Alonso Rodrigo

Universidad de Valladolid GIR Bioforge, Valladolid, España

P-27 Study Of The Effect Of The Addition Of Inorganic Nanoparticles On Biodegradable-Polymeric Electrospun Nanofibers.

Valentina Salaris[1], Cristina Pascual Gonzalez[2], Harvey Amorin [2], Daniel López [1], Laura Peponi Peponi[1]

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2. ICMM-CSIC, Madrid, España

P-28 ELR-Based Hydrogel Loaded With Plasma-Treated PLA Microparticles As An Efficient System For Controlled Release Of Lactic Acid

Julio Fernández Fernández, Luis Quintanilla Sierra, José Carlos Rodríguez Cabello, Matilde Alonso Rodrigo

G.I.R. Bioforge, University of Valladolid, CIBER-BBN, Valladolid, España

P-29 Biomineralization Assisted By Peptide Self-Assembly.

Arya Jayaraj Chittazhi, Fouzia Boulmedais, **Jennifer Rodon Fores**

Université de Strasbourg, CNRS, Institut Charles Sadron, Strasbourg, Francia

P-30 Tuning the Underwater Adhesiveness of Antibacterial Polysaccharides Complex Coacervates.

Perrine Galland[1], Muhammad Haseeb Iqbal[1], Maxime Precheur[1], Damien Favier[1], Mélanie Legros[1], Pierre Schaaf[1,2,3], Fouzia Boulmedais[1], **Mehdi Vahdati**[1]

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P-31 Chitosan-NLCs Lipo-hydrogels as carriers in wound healing.

Rubén Gil-Gonzalo, Inmaculada Aranaz, Niuris Acosta

Instituto Pluridisciplinar UCM, Madrid, España

POSTER SESSION 3 – SEPT 18 TH

POSTER SESSION 03

18th September

11:00 - 11:30 CLAUSTRO

16:00 - 17:00 CLAUSTRO

P-01 Valorization Of Forestry Derivatives Into Functional Acrylic Polymers For Specific Applications.

Alba Tirado, Adrian Moreno, Gerard Lligadas, Marina Galià, Juan Carlos Ronda

Universitat Rovira i Virgili, Tarragona, España

P-02 RAFT-PhotoPISA Polymeric Nano-Objects For Functionalized Luminescent Copper Nanoclusters (CuNCs) And Its Application As Selective Hg2+ Sensors.

Olga García Ballesteros, Isabel Quijada Garrido

Instituto de Ciencia y Tecnología de Polímeros (ICTP-CSIC), Madrid, España

P-03 On The Use Of Deep Eutectic Solvents To Improve The Mechanical Properties Of Electrospun Poly(3-Hydroxybutyrate-Co-3-Hydroxyvalerate) Fiber Mats.

Ozan Ahmet Basar[1], Cristina Prieto[1], Luis Cabedo[2], Jose María Lagarón[1]

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2. University of Jaume I - UJI, Castellón, Spain

P-04 Generation Of Polymer Blends Casted From Poly(Styrene-Co-Acrylonitrile) Core/ Acrylic Shell Latexes.

Jordi Solera Sendra, Pablo Alonso Gonzalez, Luis J. Del Valle , Lourdes Garcia Franco

Departament d'Enginyeria Química, Universitat Politècnica de Catalunya, EEBE, Barcelona, Spain, Barcelona, España

P-05 Exploiting The Base-Triggered Thiol/Vinyl-Ether Addition To Prepare Well-Defined Nanophase Separated Thermo-Switchable Adhesives.

Aritz Lamas[1], Lucas Polo[1], Iñigo Calvo[2], Haritz Sardon[1]

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2. ORIBAY Group Automotive S.L. R&Department, Donostia-San Sebastian, España

P-06 Enhanced Photocatalytic NOx Removal Using Cellulose Paper Filled With Zinc Oxide And Calcium Carbonate.

Felicia Felicia Tjus[1], Kåre Kåre Tjus[2], Mats Mats Sandberg[3], Hjalmar Hjalmar Granberg[3]

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2. IVL Swedish Environmental Research Institute, Stockholm, Sweden
3. RISE, Research Institute of Swede, Kista, Sweden

P-07 Rational Tailoring Of Stereocomplexed PLA-Based Nanocomposites For Potential Film Packaging Applications.

Mohammad Raef[1], Jose Ramon Sarasua[1], Agustin Etxeberria[2], Jone Muñoz Ugartemendia[1]

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P-08 Innovative Mixed Matrix Membranes (MMMs) For Cost-Effective CO2 Separation In Biogas Upgrading.

Javier Laguna Humayor, Bibiana Comesaña Gándara

Universidad de Valladolid, Valladoilid, España

P-10 The Effect Of PEDOT-DBSA Nanoparticles On Hydrogels For Vapor Generation By Solar Action.

David Naranjo[1], Sofia Paulo-Mirasol[1], Sonia Lanzalaco[1], Núria Borràs[1], José García-Torres[1,2], Elaine Armelin[1], Juan Torras[1]

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P-11 Influencia De La Radiación De Neutrones En La Microestructura De La Celulosa En Tejidos De Lino.

César Barta Gil[1], Leoncio garrido Fernández[2], Marián Gómez Fatou[2], Elisa María Ruiz Navas[1]

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2. Instituto de Ciencia y Tecnología de Polímeros CSIC, Madrid, España

P-12 Kinetics Of Emulsion Polymerization In Aqueous Phase Using Microfluidics.

Juan Felipe Hincapie Alvarez[1], Carlos Castor [1], Bernd Reck [2], Bo Peng [3], Nicholas Ballard [1], Jose Maria Asua[1]

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P-13 Estudio Molecular Y Conformacional De Nuevos Biopolímeros Bacterianos.

Andres Cardil Tornos[1], Juan Francisco Vega Borrego[1], Javier Ramos Escribano[1], Juan Sanjuan Gallegos[2], Daniel Perez Mendoza[2]

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P-14 Nanocellular Polymers As A Tool To Improve Energy Efficiency.

Félix Lizalde Arroyo[1], Victoria Bernardo García[2], Miguel Ángel Rodríguez Pérez[1,3], Judith Martín-De León[1,3]

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P-15 Poly(Methyl)Methacrylate-Based Polymer Optical Fibers: Correlation Between Processing-Property Relationship And Luminescent Solar Concentrator Uses.

Miriam Guadaño-Sánchez[1], Nekane Guarrotxena[1], Eneko Arrospide[2], Igor Ayesta[2], M. Asunción Illarramendi[2], Joseba Zubia[3]

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P-16 Development Of Fluorescent Nanoparticle Doped-Polymeric Preforms Toward Optical Fibers For Solar Concentrators.

Natalia Hernansanz-Luque[1], Miriam Guadaño-Sánchez[2], Nekane Guarrotxena[2]

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P-17 Nanocellular Polystyrene As An Alternative For VIP Panel Cores.

Marcos Merillas Fernández[1], Victoria Bernardo García[2], Miguel Ángel Rodríguez Pérez[1], Judith Martín De León[1]

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P-18 New Photoactive Redox Monomers And Polymers For Energy Applications.

Laura Pérez Vidal, Cristina Álvarez, Ángel E. Lozano , Javier Carretero González

Instituto de Ciencia y Tecnología de Polímeros (ICTP-CSIC), Madrid, España

P-19 New Method For Polymeric Cellular Material Production: Acetone Effects On PMMA Gel Precursors.

Mario Fernández De La Fuente[1], Miguel Ángel Ródriguez Pérez[2], Judith Martín De León[2]

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P-20 Optimizing Nanofiltration Membrane Layer-By-Layer Modification: A Chemometric And Morphological Analysis Of Positively Charged Membranes.

Tanaz Moghadamfar
UPC Barcelona East School of Engineering EEBE, Barcelona, España

P-21 Four-Dimensional Printed Liquid Crystal Elastomer Photoactuators Reprogrammed By Means Of Light-Reversible Perylene Diimide Radicals.

Lorena Montesino Redondo[1], Jesús I. Martínez Martínez[1], Carlos Sánchez Somolinos[1,2]
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P-22 Optimisation Of Pickering Phase Change Emulsions Based On PEG400/D-Limonene/SiO2 Nanoparticles.

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2. Departament of Chemical Engineering, Escuela Politécnica Superior, University of Sevilla, Sevilla, España

P-23 Natural Polymer-Based Hydrogels As Injectable Semi-Solid Electrodes For Sustainable Batteries.

Sergio J. Peñas-Núñez[1], Koray Cavusoglu Tome[2], Sima Lashkari[1], Virginia Ruiz[2], David Mecerreyes[1], Irune Villaluenga[1], Edgar Ventosa[2], Miryam Criado-Gonzalez[1]
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2. Universidad de Burgos, Facultad de Ciencias, Dpto. Química Analítica, Burgos, España

P-24 Development Of Ester-Amide Copolymers For Applications As Electrolytes In Solid-State Batteries.

Anthony Alexander Vasquez Medina and Javier Carretero Gonzalez
Instituto de Ciencia y Tecnología de Polímeros, Madrid, España

P-25 Novel -CF3 Free Lithium Salt For SEI Improvement In Polymer Electrolytes.

Izaskun Serna[1], Lorena Garcia[1], David Fraile-Insagurbe[1,2], Leire Meabe[1], Mikel Arrese-Igor[1], Itziar Aldalur[1], Julen Etxabe[1], Michel Armand[1], Maria Martinez-Ibañez
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P-26 Formulation Of Water-Based Polymeric Electrolytes For CO2 Electrochemical Capture.

Daniel García Giménez, Maria-Anna Antoniou, Mohammad Sanan Ali, Miguel Ángel López Manchado y Javier Carretero González
ICTP-CSIC, Madrid, España

P-27 Single-Ion Conducting Polymer Nanoparticles For Solid-State Electrolytes.

Alejandro Herranz Berzosa, Antonela Galastegui , Gabriele Lingua , David Mecerreyes
POLYMAT-UPV/EHU, San Sebastian/donostia, España

P-28 Ion Transport Properties In Sulfonated Polymer Membranes For Batteries.

Marta Santos Rodríguez, Juan Carlos Martínez López, Laura Matesanz Niño, Angel E. Lozano , Cristina Alvarez , Javier Carretero González
Institute of Polymer Science and Tecnology, ICTP-CSIC, Madrid, España

P-29 Novel Single-Ion Conducting Polymer Electrolytes With High Toughness And High Resistance Against Lithium Dendrites.

David Fraile Insagurbe[1,2], Nicola Boaretto[1], Itziar Aldalur[1], Iñigo Raposo[1], Francisco Javier Bonilla[1], Michel Armand[1], María Martínez Ibáñez[1]
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2. UPV-EHU, Donosti, España

P-30 Lignin-Derived Carbon-Based Electrodes For Sustainable Supercapacitor Production.

Nicolás M. Menéndez, Carla Estará, Rafael Muñoz-Espí, Clara M. Gomez, Mario Culebras
Institut de Ciència dels Materials (ICMUV), Paterna, España

P-31 Nanofibers Obtained From Lignocelullosic Biomass Residue For Energy Applications.

Clara Maria Gómez Clari, Nicolás M Menendez Stabile, Rafael Muñoz Espí, Mario Culebras Rubio
Universidad de valencia, València, España

P-32 Membranas De Matriz Mixta De Polisulfona Basadas En Truxeno Metilado Para Purificación De H2.

Mar López González[1], Sara Izquierdo González[1], Eva María Maya [2]
1. Instituto de Ciencia y Tecnología de Polímeros (ICTP-CSIC), Madrid, España
2. Instituto de Ciencia de Materiales de Madrid (ICMM-CSIC), Madrid, España

P-33 Reversible Colorimetric And Fluorescence Solid Sensors Based On Aryl Hydrazone Derivatives Of 1,8-Naphthalimides For Caustic Media And Biogenic Amine Vapors.

Teresa Corrales Viscasillas[1], Jesús L. Pablos Lagartos[2], Sabela Fernández [1], Fernando Catalina Lapuente[1]
1. Grupo de Fotoquímica. ICTP (CSIC), Madrid, España
2. Dpto Química en Ciencias Farmacéuticas. Facultad de Farmacia UCM, Madrid, España

P-34 Exploring stimuli-responsive Single-Chain Nanoparticles: synthesis, characterization, and surface behavior.

Leyre Oria-Ledesma[1], Alberto Álvarez[1], Ester Verde-Sesto[1,2], Armando Maestro[1,2]

1. Centro de Física de Materiales (CSIC, UPV/EHU) - Materials Physics Center (MPC), Donostia-San Sebastián, España
2. IKERBASQUE - Basque Foundation for Science, Bilbao, España

P-35 Desarrollo De Nuevos Sistemas De Liberación De Antineoplásicos Basados En Biopolímeros Para El Tratamiento De Glioblastoma.

Pedro Valentín Badía Hernández, Joan Moll Carrió, Rocío Díaz Puertas, Maria Fuentes , Miguel Salceda , Maria Del Pilar García Morales, Ricardo Mallavia Marín

Universidad Miguel Hernández, Elche, España

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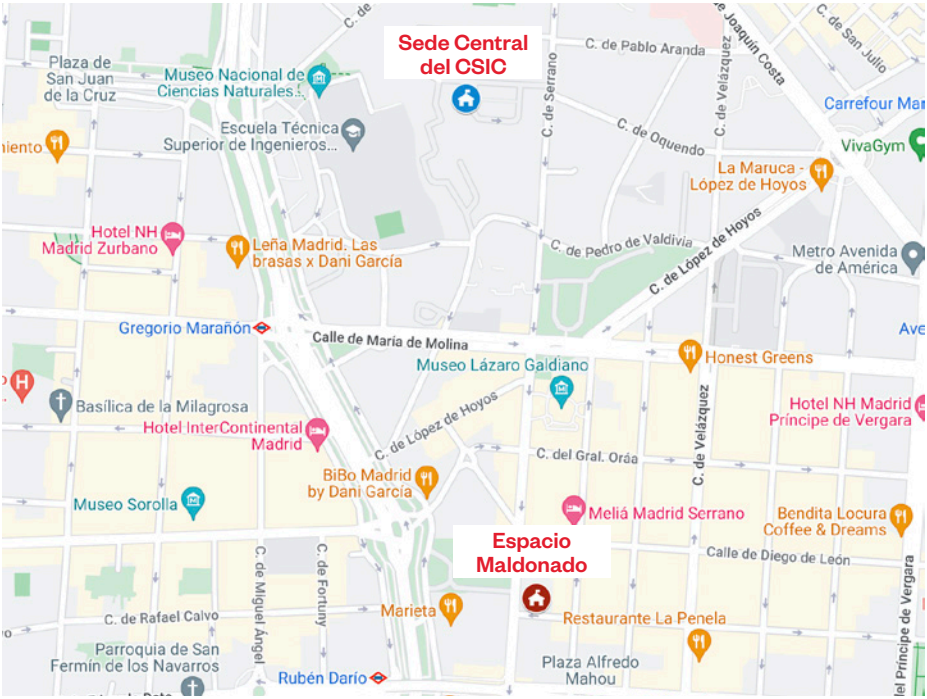
GENERAL INFORMATION

DATES:

16th - 19th September 2024

VENUES:

- **16th - 18th september** › **Espacio Maldonado** (C/ Serrano 104, Madrid).
- **19th september** › **Sede Central del CSIC** (C/ Serrano 117, Madrid).



SOCIAL EVENTS:

Sept.16th (20:00)
Welcome Reception
Natural Museum of Natural Sciences (MNCN-CSIC)
(José Gutierrez Abascal Street, 2)

Sept.17th (18:30)
Guided Tour - Royal Botanical Gardens of Madrid (RJB-CSIC)
(Pl. Murillo, 2, Retiro, 28014 Madrid)

Sept.18th (20:45)
Gala dinner - Restaurante Descaro
(Pl. de España, 6, 2ª Planta)

INFORMATION FOR THE VENUE

CONFERENCE DOCUMENTATION:

At the Technical Secretariat desk from Monday, 16 September from 07:45 hours.

IDENTIFICATION OF CONFERENCE ATTENDEES:

The badge must be worn visibly at all times to gain access to the meeting venue and any of its facilities, as well as to coffee breaks, lunches and social events.

CERTIFICATES:

Certificates of attendance, as well as the Oral Communication, Poster, Speaker and Moderator diplomas can be downloaded from the "CERTIFICATES" section of the "MY CONGRESS" personal area of the web page the week after the congress.

INFORMATION FOR THE VENUE

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PREPARATION

- Store all your files in a unique folder, especially videos (make sure videos play automatically when the slide is displayed). 16/9 slides format is recommended.
- Mac users: please don't forget to bring your adaptor.
- Bring your file (ppt and pdf format) in a USB to the Speakers' Room.

AWARDS

- Posters: The best poster presentation will be awarded with 250€. Two additional accessits will be awarded with 125€ each.
- Flash presentation: The best Flash presentation will be awarded with 150€.

SPEAKERS' ROOM

- Please, bring your presentation the day before or at least 2 hours before your lecture.
- Our technicians will transfer your presentation to a server. We encourage you to confirm on the technician's computer that the ppt is correctly displayed.

It will be delivered on USB support, with the files included in a folder for each presentation in which the Power Point presentation and all the associated videos will be included.
The folder shall be named as follows:

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- Day of the session.
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Example: 09_03_2023_9'00_ First_Name_Surname_Last_Name)

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Your presentation will be transferred and available on your lecture room, on a presentation computer operated by a technician. There will be no possibility to connect your laptop.

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