



ESEE2025



8th European Symposium on Electrohydrodynamic
Atomization and Electrospinning 2025

28 – 30 APRIL, 2025,
NICOSIA, CYPRUS





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WELCOME NOTE

Dear ESEE2025 Delegates,

On behalf of the organizing committee, I warmly welcome you to the 8th European Symposium on Electrohydrodynamic Atomization and Electrospinning 2025 (ESEE2025). It is an honor to have you joining us for this exciting event, where the fundamentals, characterization and applications of electrohydrodynamic atomization and electrospinning processes will be explored.

I would like to take this opportunity to extend my sincere gratitude to the Organizing Scientific Committee – EHDA Core Group, whose hard work, continuous support, dedication and expertise have made this event possible. Many thanks to the members of the Local Organizing Committee and to EasyConferences for their commitment and coordination, ensuring that this symposium runs smoothly and effectively. A special thank you also goes to our Gold Sponsor AmaDema whose support has been highly valuable!

We are fortunate to have all of you in ESEE2025, an outstanding group of speakers and presenters who will share their insights into the current state and future potential of EHDA and electrospinning. I encourage you to actively engage with the content, ask questions, and connect with your peers throughout this event.

Thank you for being part of ESEE2025! I hope you find this symposium to be both inspiring and enriching, and I look forward to the fruitful discussions and exciting opportunities it will bring.

Warm regards,
Theodora Krasia
Chairperson, ESEE2025



COMMITTEES

Organizing Scientific Committee – EHDA Core Group



Prof. Luewton L.F. Agostinho
NHL Stenden University of Applied
Science (The Netherlands)



Prof. Jose L. Castillo
Universidad Nacional de
Educación a Distancia (Spain)



Prof. Francesco Di Natale
The University of Naples
Federico II (Italy)



Prof. Enric Grustan Gutierrez
Cranfield University
(United Kingdom)



Prof. Luis B. Modesto-López
University of Seville (Spain)



Prof. Joan Rosell-Llompart
University Rovira i Virgili (Spain)



Prof. Urszula Stachewicz
AGH University of Science and
Technology (Poland)

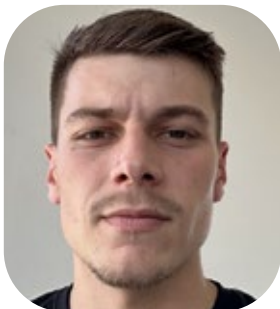


COMMITTEES

Local Organizing Committee



Prof. Theodora Krasia,
Conference Chair
University of Cyprus (Cyprus)



Andreas Hadjianastasi
University of Cyprus (Cyprus)



Paraskevas Kyriacou
University of Cyprus (Cyprus)



Kyriaki Louka
University of Cyprus (Cyprus)



Dr. Petri Papaphilippou
University of Cyprus (Cyprus)



Viktoria Theodorou
University of Cyprus (Cyprus)



Dr. Georgia Papaparaskeva
University of Cyprus and
Cyprus Research & Innovation
Center Ltd (CyRIC) (Cyprus)

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...ρχία Πάφου, υποβοηθήσει την
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...τα εικόνα από πικρόλιθο με
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...ισμό, κλασική σταυροσχημη
...τα μάτια, μακρό λαιμό και σε
...μος ότι αυτή η διάταξη δεν
...αρού σε μερικές περιπτώσεις
...τόχρονη.

FIGURES AND PENDANTS

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PLENARY SPEAKERS



Sara Cavaliere
University of Montpellier,
Institute Charles Gerhardt
Montpellier (ICGM)

Sara Cavaliere

University of Montpellier, Institute Charles Gerhardt Montpellier (ICGM)

Short Bio: Sara Cavaliere is Professor of Chemistry at the University of Montpellier (France). Her research interests focus on design, synthesis and characterization of nanostructured core materials for ion exchange membrane fuel cells and electrolyzers. Her research at the Charles Gerhardt Institute for Molecular Chemistry and Materials was supported in 2013 by an ERC Starting Grant, followed by a Proof of Concept Grant in 2019, aiming to develop novel electrodes and membranes based on electrospun materials for energy applications. In 2017, she was appointed junior member of the Institut Universitaire de France and awarded the CNRS Bronze medal. In 2024 Prof. Cavaliere worked for a semester at the University of Nevada, Reno (USA), supported by a Fulbright Scholar Grant. She is also member of different boards of international associations including the International Society of Electrochemistry (vice-chair of Division 3) and CERIC-ERIC (ISTAC member).



Francesco Di Natale
University of Naples
"Federico II"

Francesco Di Natale

University of Naples "Federico II"

Short Bio: Francesco Di Natale is a Chemical Engineer and a Full Professor of Unit Operation and Sustainable Process Design at the University of Naples Federico II. He has more than twenty years of experience in the development of sustainable technologies for pollution control and recovery of added-value chemicals from waste streams. He is specialized in modelling and designing multiphase-flows separators and in the application of electrohydrodynamics to chemical plant design and optimization.



Eyal Zussman
Technion – Israel Institute of
Technology

Eyal Zussman

Technion – Israel Institute of Technology

Short Bio: Eyal Zussman is a Professor at the Department of Mechanical Engineering, Technion—Israel Institute of Technology. He received his doctoral degree in mechanical engineering from the Technion in 1992. From 1992 to 1994, he was a postdoctoral fellow at the Technical University in Berlin, Germany. Zussman's research interests are in the nanoscale polymer fabrication and mechanics.

Prof. Zussman group is focused in research of area of molecular engineering of soft matter, in particular the development of process-structure-property relationships, through the use of simulation and experiment, and the development of functional nano-structures, such as: electrospun fibers, thin films, beads etc.



INVITED SPEAKERS



Dr. Vassilis Drakonakis
 Managing Director
 Advanced Materials Design &
 Manufacturing Limited

Dr. Vassilis Drakonakis

Short Bio: Dr. Vasileios (Vassilis) Drakonakis is an expert in the development, processing, and characterization of advanced polymer composites. He earned his Diploma in Mechanical and Aeronautics Engineering from the University of Patras in 2008 and completed his PhD in Industrial, Processing, and Manufacturing Engineering at the University of Texas at Arlington in August 2012.

Dr. Drakonakis has gained extensive international and multidisciplinary experience, working as a scientist in world-renowned research laboratories, including PCL (Seattle, WA, USA), NECST at MIT (Cambridge, MA, USA), Hephaistus NRS at UCY (Cyprus), and CMG and AML at the University of Patras (Greece). His research has been published in over 20 peer-reviewed journals and presented in more than 40 conferences, alongside multiple invention disclosures.

An accomplished project coordinator, Dr. Drakonakis has led international initiatives across academia and industry, successfully securing and managing over €15 million in equity-free funding as a principal investigator.

He is the co-founder and Managing Director of AmaDema (Advanced Materials Design & Manufacturing), an innovative SME specializing in enhancing technical textiles and composite materials through the integration of electrospun nanofibers and other nanomaterials. AmaDema addresses diverse industrial needs across aerospace, oil & gas, marine, energy, and construction sectors.

Since its establishment in November 2015, AmaDema has developed a robust multidisciplinary team of over 15 skilled scientists and engineers. The company boasts a family of patents in electrospun-reinforced composites and excels in the design, analysis, development, manufacturing, and production of cutting-edge “Enhanced Technical Fabrics and Prepregs” as well as high-performing, multifunctional composite components. team of over 15 skilled scientists and engineers. The company boasts a family of patents in electrospun-reinforced composites and excels in the design, analysis, development, manufacturing, and production of cutting-edge “Enhanced Technical Fabrics and Prepregs” as well as high-performing, multifunctional composite components.



Prof. Dr. Christian Clasen
 Professor in Chemical
 Engineering, KU Leuven,
 Belgium

Prof. Dr. Christian Clasen

Short Bio: Prof. Dr. Christian Clasen is full professor in Chemical Engineering at KU Leuven, Belgium, and head of the department. He received his PhD in 2001 and, after a postdoc at MIT, his Habilitation in Technical and Macromolecular Chemistry in 2008, both from Hamburg University. He is the recipient of a number of awards in the field of rheology, including both Rheologica Acta and JOR publication awards, and is currently the president of the European Society of Rheology (ESR).

Research in his Soft Matter, Rheology and Technology (SMaRT) group focusses on the characterization of complex fluids and soft matter, with a strong focus on polymeric materials in the melt and solution state, to link the synthesis dependent nano-, micro-, and meso structures to macroscopic physicochemical properties and flow and deformation behaviour. The characterization of polymers in a dispersed or dissolved state focusses on the development of novel tools and experimental techniques, with latest applications focusing on elongational rheology as well as utilizing novel mechanical wave forms to probe the curing, crosslinking and solidification of polymers in-situ on short time scales.

INVITED SPEAKERS



Dr. Anne Hébraud

Associate Professor at the University of Strasbourg and Institute for Chemistry and Processes for Energy, Health and Environment (ICPEES)

Dr. Anne Hébraud

Short Bio: Dr. Anne Hébraud is associate Professor at the University of Strasbourg. She holds a PhD in Physical Chemistry with specialty in Colloid and Polymer Science (obtained in 2004) from the University Pierre et Marie Curie in Paris, France. She carries out her research at Institute for Chemistry and Processes for Energy, Health and Environment (ICPEES) on polymer physicochemistry and their processing in dispersed media or by electrospinning to elaborate functional nanostructured particles and fibers for various applications such as filtering, catalysis, energy or biomedical applications.



Ewa Kijeńska-Gawrońska

Head of the Laboratory of Biomaterials and Tissue Engineering at the Department of Medical Biotechnology, Centre for Advanced Materials and Technologies CEZAMAT, Warsaw University of Technology

Ewa Kijeńska-Gawrońska

Short Bio: Ewa Kijeńska-Gawrońska Ph.D., M.Sc., Eng. is the Head of the Laboratory of Biomaterials and Tissue Engineering at the Department of Medical Biotechnology, Centre for Advanced Materials and Technologies CEZAMAT, Warsaw University of Technology. She specializes in designing, developing, and physicochemical and biological characterization of biomaterials for tissue-engineered scaffolds and drug delivery carriers. Her research interest focuses mainly on electrospun natural and synthetic polymeric- and composite-based biomaterials, including biomaterial synthesis, cell-biomaterial interactions, smart biomaterials for tissue regeneration, drug delivery, advanced design, fabrication, and characterization of the scaffolds. She is also exploiting electrospinning for biotechnology applications using polymeric and composite wastes. She was involved in implementing ten international and nine national scientific projects. In 2021 awarded the 1st-degree WUT Rectors Award. In 2023, she was chosen as one of the 21 best of the best young scientists at WUT (1st edition of Best of Best PW competition- Best of Best PW 2023).



Dr. Antonella Macagnano

Senior Research Scientist at the National Research Council (CNR), Institute of Atmospheric Pollution Research

Dr. Antonella Macagnano

Short Bio: Dr. Antonella Macagnano is a Senior Research Scientist at the National Research Council (CNR), Institute of Atmospheric Pollution Research. She graduated in Biological Sciences and got her Ph.D. in Sciences, Technologies and Biotechnologies for Sustainability. Mainly, her research activities have concerned the study, design, characterization and optimization of chemical (nanostructured electrospun polymers and ceramics, metallo-porphyrins, MIPs and metallo-oligomers) and biological membranes (oligopeptides, biopolymers) for selective interactions with both gases and volatile organic compounds. She has been involved in several international and national research projects focused on the design, improvement and implementation of sensor devices for health, environment and agri-food industries.



Dr. Jose María Lagarón Cabello

Group Leader,
Novel Materials and
Nanotechnology for Health
Applications Group, IATA,
CSIC Leader of the Research
Joint Unit CSIC-University
Jaume I in "Polymer
Technology"
Founder/Owner: Bioinicia

Dr. Jose María Lagarón Cabello

Short Bio: Dr. Jose Maria (Chema) LAGARON is currently Founder and Group Leader of the group Novel Materials and Nanotechnology for Health Applications at the Institute of Agrochemistry and Food Technology (IATA) of the Spanish Council for Scientific Research (CSIC) located in Valencia, Spain. He is also Head of the CSIC-University Jaume I Join Unit in "Polymer Technology". According to Scopus he is author in 361 peer reviewed publications, inventor in 75 patents and has an h-index of 77.

Jm Lagaron has been project-leader for the institution in, among others, the FP6 and FP7 European Projects SUSTAINPACK, FRISBEE, POLYBIOSKIN, ECOBIOCAP and NEWBONE, and Coordinator of the H2020 EU Projects YPACK and USABLE PACKAGING, related to the development of innovative nanotechnologies and biomaterials for packaging, encapsulation, pharmaceutical, cosmetic and biomedical applications. He has also been member of the "Management Committee" (MC) for Spain of, among others, the Cost 868 Action related to "Biotechnical Functionalisation of Renewable Polymeric Materials" and of the Cost FA0904 action about "Eco-sustainable food packaging based on polymer nanomaterials" and member of the Steering Committee of the network "European Network for Gastrointestinal Health Research 08-RNP-018". He is also in the Editorial Board of several scientific journals, Vocal in the Board of Directors of the Specialised Group on Polymers of the Spanish Royal Society of Physics and Chemistry, Vicepresident of the Association of Companies and Entities in the BIO sector that encompasses Biotechnology, Biomedicine and Bioeconomy, and which constitute the cluster of the Valencian Community (BIOVAL), etc...

Finally, he is Founder and Owner of several nanobiotech spin-offs such as Bioinicia Group S.L. (Fluidnatek SL, Bioinicia Fibre Manufacturing SL, Proveil, Capsultek, Bioinicia Cosmetics and BioNanoPharma SL). BioNanoPharma SL is a JV between Bioinicia and a multinational pharma company.



Prof. Zdenko Machala

Chair of Department of
Astronomy, Earth Physics
and Meteorology, Division
of Environmental Physics,
Faculty of Mathematics,
Physics and Informatics,
Comenius University
Bratislava

Prof. Zdenko Machala

Short Bio: Prof. Zdenko Machala, D.Sc. from the Faculty of Mathematics, Physics and Informatics of Comenius University Bratislava has a background in plasma physics. His research is focused on various environmental, biomedical, and agriculture applications of non-thermal (cold) atmospheric plasmas. He pioneers new research areas of plasma-liquid interactions with a particular focus on plasma with electrosprays and aerosols, their optical diagnostics, transport of plasma active species into water, and fundamental mechanisms of physico-chemical and biomedical processes of cold plasma interaction with live cells and animal/plant organisms. He has been a principal investigator of many national and international projects. He served as a president of the International Society for Plasma Medicine, has been a management committee member of several European COST Actions and is responsible for the Master and PhD. study program of Environmental Physics and Renewable Energy Sources at Comenius University Bratislava.



CONFERENCE PROGRAMME

MONDAY 28 APRIL		TUESDAY 29 APRIL		WEDNESDAY 30 APRIL	
09:00-09:30	Opening	09:30-10:15	Plenary Talk	09:30-10:00	Invited Talk
09:30-10:15	Plenary Talk			10:00-10:30	Invited Talk
10:15-10:45	COFFEE BREAK	10:15-10:45	COFFEE BREAK	10:30-11:00	COFFEE BREAK
10:45-11:15	Invited Talk	10:45-11:15	Invited Talk	11:00-11:30	Invited Talk
11:15-12:30	Session A	11:15-12:45	Session D	11:30-12:30	Session G
12:30-14:00	LUNCH	12:45-14:00	LUNCH	12:30-14:00	LUNCH
14:00-14:45	Plenary Talk	14:00-14:30	Invited Talk	14:00-15:15	Session H
14:45-16:00	Session B	14:30-15:00 15:00-15:45	Invited Talk Session E		
16:00-16:30	COFFEE BREAK	15:45-16:15	COFFEE BREAK	15:15-15:45	COFFEE BREAK
16:30-18:00	Session C	16:15-17:00	Session F	15:45-16:45	Session I
18:00-18:30	Group Photo	17:00-23:00	Tour & Conference Dinner	16:45-17:15	Closing Ceremony and Announcement of ESEE 2027
18:30-20:00	Welcome Reception & Poster Session				

9:00 - 9:30 OPENING

9:30 - 10:15 Plenary 1

9:30 Controlled release from fibers and droplets of protein-polyelectrolyte complexes
Eyal Zussman

10:15 - 10:45 COFFEE BREAK

10:45 - 11:15 Invited Talk

Chair: **Theodora Krasia-Christoforou**

10:45 Core-shell microstructured particles for protection, controlled release, and other applications
Christian Clasen

11:15 - 12:30 Session A

Chair: **Luewton LF Agostinho**

11:15 Poly(tetrafluoroethylene) coatings by electrospray and application for electrojetting emitters
Deepak Parajuli, Eszter Bodnár, Joan Rosell-Llompert

11:30 Raman light sheet microspectroscopy diagnostic of water electrospray
Mário Janda, Kasidapa Polprasarn, Pankaj Pareek, David Pai

11:45 Application of EHDA for respiratory drug delivery
Fatemeh Jahanmard, Mehmet Üzümcü, Maurits Huigen

12:00 Investigating Novel Ionic Liquids for Electrospray Thrusters
Szymon Dworski, Charlie Ryan

12:15 Yield and Stoichiometry of Agglomerates formed by a Bipolar Electrospray
Matthias Kawalek, Wolfgang Peukert, Christian Lübbert

12:30 - 14:00 LUNCH

14:00 - 14:45 Plenary Talk

Chair: **Theodora Krasia-Christoforou**

14:00 Thunderstorm in a Capsule: harnessing wet electrostatic scrubbing for air pollution control
Francesco Di Natale

14:45 - 16:00 Session B

Chair: **Joan Rosell-Llompert**

14:45 Electrospun fibers for water and energy harvesting
Urszula Stachewicz

15:00 Synthesis and properties of hydrogel fibers
Donat Szalai, Angela Jedlovszky-Hajdu, Kristof Molnar

15:15 Next Generation Combined - Advanced Therapy Medicinal Products in the Electrospinning and Computational Biophysics Landscape
Nikolas Sochorakis, Andreani Odysseos, Ana Sreamac, Igor Balaz, Marios Constantinou

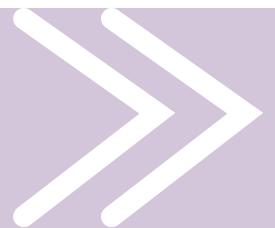
15:30 Towards core-sheath nanofibers with ultrasound-enhanced electrospinning
Antton Huusko, Joni Mäkinen, Dmitry Nikolaev, Henri Österberg, Johannes Schavikin, Ivo Laidmäe, Jyrki Heinämäki, Ari Salmi

15:45 Comparison of needle-based and ultrasound-enhanced electrospinning in generating nanofibrous structures from gelatin methacryloyl for tissue engineering
Johannes Schavikin, Romila Manchanda, Christina Wark, Scott Calabrese Barton, Xanthippi Chatzistavrou, Ivo Laidmäe, Ari Salmi, Jyrki Heinämäki, Nureddin Ashammakhi

16:00 - 16:30 COFFEE BREAK

16:30 - 18:00 **Session C**Chair: **Urszula Stachewicz**

- 16:30 Ion evaporation from a population of electrospray nanodroplets
Ignacio G. Loscertales, Francisco J. Higuera
- 16:45 Exploring Electrohydrodynamic Flows for the Engineering of High-Throughput Atomizers
Luis Modesto-López, Alfonso M. Gañán-Calvo
- 17:00 Control of electrospray and charge neutralization for a Soft Mist Inhaler
Kelly Moreira, Fatemeh Jahanmard, Mehmet Üzümcü, Hans Kersbergen, Maurits Huigen, Erik van der Heide, Scott Fleming, Luewton L.F. Agostinho
- 17:15 Experimental Validation of a Simplified Numerical Leaky Dielectric Model for Capillary Electrospray Ion Spacecraft Thrusters
Euan Donovan-Hill, Ford Gooch, Charles Ryan
- 17:30 Unveiling EHDA Spray Modes: An XAI-Approach for Non-Visual Multiclass Mode Recognition.
Luigi Piero Di Bonito, Kelly Moreira, Lelio Campanile, Luewton L.F. Agostinho, Francesco Di Natale
- 17:45 Electrospinning to improving C sequestration and reducing global warming: encapsulating hazelnut biowaste hybrid nanocomposites into nanofibrous soil-like aggregates
Fabrizio De Cesare, Serena Frattari, Simone Serrecchia, Giuseppina Luciani, Virginia Venezia, Sebastiano Marra, Maria Vittoria Verrillo, Antonella Macagnano

18:00 - 18:30 **Group Photo**18:30 - 20:00 **Welcome Reception & Poster Session**

9:30 - 10:15 **Plenary Talk**Chair: **Theodora Krasia-Christoforou**

Electrospinning as an advanced fabrication tool: application to materials for electrochemical hydrogen energy conversion

Sara Cavaliere

10:15 - 10:45 COFFEE BREAK

10:45 - 11:15 **Invited Talk**

10:45 Development And Characterization Of Electrospun Films Of Biopolyester Blends Reinforced With Biowaste - Derived Nanocellulose

*Jose M. Lagaron*11:15 - 12:45 **Session D**Chair: **Luigi Piero Di Bonito**

11:15 Electrospun membranes from biowaste for the selective recovery of precious metals from WEEE
Virginia Venezia, Rossella Grappa, Brigida Silvestri, Francesco Di Natale, Giuseppina Luciani

11:30 Biomimicry of the Modular Gaseous Sorption Properties of Reptile Eggshells via Electrospun Keratin Membranes
Yana Maudens, Gerben Debruyne, Eva Loccufier, Lode Daelemans, Erica Savino, Cinzia Tonetti, Claudia Vineis, Alessio Varesano, Matthew Shawkey, Liliana D'Alba, Karen De Clerck

11:45 Development of electrospun poly(3-hydroxybutyrate) materials coated with cellulose derivatives and *Bacillus subtilis*

Petya Tsekova, Mariya Spasova, Donka Draganova, Olya Stoilova

12:00 Design of Electrospun Fibers for Hydrometallurgical Recovery of Gold from Electric and Electronic Wastes
Antonio Di Colandrea, Paraskevas Kyriacou, Luigi Piero Di Bonito, Francesco Di Natale, Theodora Krasia

12:15 Novel electrospun biohybrid polymer materials for biocontrol in sustainable agriculture
Mariya Spasova, Mladen Naydenov, Olya Stoilova

12:30 From handheld to pilot-scale electrospinning - green nanofiber membranes from sustainable materials in healthcare applications

Gordon Herwig, René M. Rossi

12:45 - 14:00 LUNCH

14:00 - 14:30 **Invited Talk**Chair: **Theodora Krasia-Christoforou**

14:00 Electrospinning Meets Sustainable Agriculture: Advanced Solutions for Crop and Soil Health
Antonella Macagnano, Fabrizio De Cesare

14:30 - 15:00 **Invited Talk**Chair: **Theodora Krasia-Christoforou**

14:30 2D to 3D structuration of electrospun mats for biomedical applications
Anne Hébraud, Emeline Lobry, Guy Schlatter

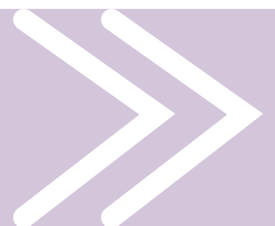
15:00 - 15:45 **Session E**Chair: **Martyna Polak**

- 15:00 Protein-based nonwovens for biomedical applications
Aleksandra Nešić, Mariana Daniela Berechet, Carmen Gaidau, Branka Pilić
- 15:15 Cell Guiding Multicomponent Nanoyarn Tendon Scaffolds with Tunable Morphology and Flexibility
Lucas Schynkel, Marguerite Meeremans, Anna Meyer, Ella Schoolaert, Jozefien Geltmeyer, Abdolrahman Omidinia-Anarkoli, Sandra Van Vlierberghe, Lode Daelemans, Laura De Laporte, Catharina De Schauwer, Richard Hoogenboom, Karen De Clerck
- 15:30 Hydrogel and Microfibre Layered Composite for Cartilage Tissue Engineering
Oleksandr Gryshchuk, Caroline Emonts, Thomas Gries

15:45 - 16:15 COFFEE BREAK

16:15 - 17:00 **Session F**Chair: **Martyna Polak**

- 16:15 Manufacturing of Nanomaterials for Healthcare Applications Empowered by Artificial Intelligence
Maryam Parhizkar
- 16:30 Composite electrospun scaffolds for biomedical applications
Veronika Pálos, Sarolta Halmóczy, Angela Jedlovszky-Hajdu
- 16:45 Red-Ox Active Electrospun Mats as smart wound dressing solutions
Virginia Venezia, Giulio Pota, Antonia Puzone, Giuseppe Vitiello, Alessandro Pezzella, Paolo Armanetti, Luca Menichetti, Gluseppina Luciani

17:00 - 23:00 **Tour & Conference Dinner**

9:30 - 10:00 **Invited Talk**

Chair: **Theodora Krasia-Christoforou**

9:30 Tailored mechanical performance of fiber reinforced polymer (FRP) composites through interlayer enhancement with electrospun polymer nanofibers
Vassilis Drakonakis

10:00 - 10:30 **Invited Talk**

Chair: **Theodora Krasia-Christoforou**

10:00 Fibrous Patches Enriched with Natural Compounds and Synthetic Drugs for Skin Disease and Inflammation
Ewa Kijenska-Gawronska

10:30 - 11:00 COFFEE BREAK

11:00 - 11:30 **Invited Talk**

Chair: **Theodora Krasia-Christoforou**

11:00 Controlling the transport of reactive species from cold plasma into water bulk and aerosols
Zdenko Machala, Mário Janda, Mostafa Hassan

11:30 - 12:30 **Session G**

Chair: **Luis Modesto-López**

11:30 Electrospun Calcium Cobaltite Nanoribbons with Controlled Crystallinity for Enhanced Thermoelectric Performance
Itzhak Ishay Maor, Katharina Kruppa, Adi Rozencweig, Amir Sterzer, Frank Steinbach, Vadim Beilin, Bernd Breidenstein, Gennady Shter, Meirav Mann-Lahav, Armin Feldhoff, Gideon Grader

11:45 Hollow double-shell electrospun fibers for enhanced thermal insulation
Joanna Knapczyk-Korczak, Urszula Stachewicz

12:00 Electrospun π -conjugated polymer blends for white light emission in lighting technology applications
Marharyta Hancharova, Lech Sznitko, Joanna Cabaj

12:15 Disordered photonics of electrospun fibers
Lech Sznitko

12:30 - 14:00 LUNCH

14:00 - 15:15 **Session H**

Chair: **Kelly Moreira**

14:00 Design and Development of a Functional Material-Based Emission Source for CubeSat Propulsion
Gopika Mukundan, Enric Grustan-Gutierrez

14:15 Development of eco-friendly, sound-absorbing nanofibrous veils for Sound Insulation applications
Ioanna Savva, Hilal Reda, Vassilis Drakonakis, Maria Karouzou, Natalia Violari, Vangelis Harmandaris

14:30 Protein-based electrospun fibers as stable, sensory materials
Katarzyna Kołodzińska, Sylwia Baluta, Adrian Cernescu, Joanna Cabaj, Lech Sznitko

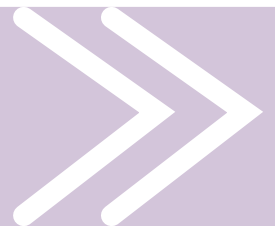
14:45 Parameter Optimization for Electrospinning of 4D Nanofibers
Vinayak Nirmale, Norbert Radacsi

15:00 Electrospun poly(L-lactide-co- ϵ -caprolactone) (PLCL) scaffolds with controlled surface potential for tissue engineering application
Katarzyna Marszałik, Martyna Polak, Joanna Knapczyk-Korczak, Krzysztof Berniak, Piotr Szewczyk, Mateusz Marzec, Urszula Stachewicz

15:15 - 15:45 COFFEE BREAK

15:45 - 17:00 **Session I**Chair: **Joanna Knapczyk-Korczak**

- 15:45 Impact of rGO and MXene integrated in the electrospun scaffolds on cell focal adhesion points
Martyna Polak, Krzysztof Berniak, Piotr K. Szewczyk, Mateusz M. Marzec, Joanna Knapczyk-Korczak, Urszula Stachewicz, Agnieszka M. Jastrzębska
- 16:00 Functional Electrospun Biopolymers for Agriculture: Controlled Release of Polyphenols from Upcycled Agro-Waste
Simone Serrecchia, Fabrizio De Cesare, Sarai Agustin Salazar, Gabriella Santagata, Cristina Ricucci, Gabriella Di carlo, Antonella Macagnano
- 16:15 Nanofibers and Nanorods for Electrochemical Applications (H2ENRY and AM4BAT projects)
Sandra Martínez, Gerard Pérez, Jorge Luque, Pau Bosch, Eduard Borràs, Aiman Chbani, Milad Madinehei
- 16:30 Advancing Bioartificial Pancreas Design: Electrospun and Post-Treated Mesoporous Polyurethane Membranes for Type 1 Diabetes Therapy
Emeline Lobry, Anne Hébraud, Guy Schlatter

16:45 - 17:15 **Closing Ceremony and Announcement of ESEE 2027**

18:30 - 20:00 Poster Session

- 1 Development and optimization of electrospun 3D PCL scaffolds using a liquid bath collector for enhanced cell culture applications in tissue engineering
Robin Schlinkmann, Alina Farchmin, Thomas Gries
- 2 Eco-friendly, Sound Absorbing Materials based on Cellulose Acetate Electrospun Fibers/Luffa Cylindrica Composites
Viktoria Theodorou
- 3 Advanced Photocatalytic Nanocomposites Based on Electrospun TiO₂ Nanofibers Modified with Green- Synthesized AgNPs
Kateryna Nemesh, Ivan Shepa, Erika Mudra, Oksana Velgosová, Veronika Kucharova, Matej Balaz, Dáša Drenčáková, Marek Vojtko, Frantisek Kromka, Maksym Lisnichuk, Jan Dusza
- 4 Electrospinning of Complex Metal Oxide Ceramic Nanofibers
Ivan Shepa, Kateryna Nemesh, Erika Mudra, Petra Hviscova, Richard Smolko, Dáša Drenčáková, Maksym Lisnichuk, Dmitry Albov
- 5 Methods of Compound Drug Delivery via Porous Collagen Scaffolds
Kyriaki Louka, Iro Papagiannaki, Theodora Krasia, Dimitrios Tzeranis
- 6 Graphene-based electrospun nanofibers in the removal of U(VI) from aqueous media
Andreas Hadjianastasi
- 7 Electrospun fibrous borate-based bioactive glasses
Katarzyna Kozubal, Patrycja Gaćkowska-Gondek, Katarzyna Cholewa-Kowalska, Michał Dziadek
- 8 Bioactive Borate Glass Fibers Obtained by Core-Shell Electrospinning
Patrycja Gaćkowska-Gondek, Katarzyna Kozubal, Michał Dziadek, Katarzyna Cholewa Kowalska
- 9 Advanced plant protection by electrospun materials, natural polysaccharides and beneficial microorganisms
Nasko Nachev, Mladen Naydenov, Mariya Spasova, Olya Stoilova
- 10 Chitosan-coated poly(3-hydroxybutyrate) fibrous materials with Bacillus subtilis for eco-friendly plant biocontrol
Nikoleta Stoyanova, Mariya Spasova, Iliyana Valcheva, Olya Stoilova
- 11 Electrospun nanocomposite PSS/GQDs fibers with color-tunable properties for white light emission
Georgia Papaparaska, Paris Papagiorgis, Grigorios Itskos, Christina Michael, Eugenia Tanasă, Theodora Krasia-Christoforou
- 12 Bio-based electrospun membranes loading microbial calcite particles for heavy metal remediation
Virginia Venezia, Laura Vitale, Rocco Di Girolamo, Valerio Funari, Pietro Tedesco, Giuseppe Vitiello
- 13 The luminescent properties of polymer microfibers with DCM dye produced by the electrospinning method
Zuzanna Korczak, Katarzyna Kołodzińska, Kinga Halicka-Stępień, Lech Sznitko
- 14 Electrospun Fiber Mats: A Versatile Platform for Multicolor and White Lasing
Alina Szukalska, Kinga Halicka-Stępień, Katarzyna Kołodzińska, Joanna Cabaj, Lech Sznitko
- 15 Polysuccinimide-salt electrospun scaffold for potential wound dressing application
Veronika Pálos, Angela Jedlovsky-Hajdu, Krisztina S. Nagy, Rita Pázmány, Krisztina Juriga-Tóth, Bálint Budavári, Judit Domokos, Dóra Szabó, Ákos Zsembery, Dorottya Gréta Kis
- 16 Development of an electrospun wound healing nanocomposite
Sarolta Halmoczki, Vivien Rizmajer, Kitti Osan, Angela Jedlovsky-Hajdu

- 17 Developing Engineered Energy-Harvesting Devices Based on Cyanobacteria using Electrospinning
Luis Modesto-López, Mireia Burnat, Rocío López-Igual
- 18 A wet electrostatic scrubbing unit for ammonia-fueled ships
Francesco Di Natale, Arianna Parisi, Luigi Piero Di Bonito, Martina Zabatta, Domenico Flagiello
- 19 Nucleic acid-marked nanoplastics specially manufactured for water technology applications using electrohydrodynamic atomization (EHDA)
Kelly Moreira, Larissa Fernandes, Caitlin Soppe, Luewton L.F. Agostinho
- 20 Integrating electro spray into autonomous drones for greenhouses crop protection
Kelly Moreira, Raphael Leivas, Matheus Novelli, Luewton L.F. Agostinho
- 21 Relationships between electrical properties during electrospinning and the resulting fibrous structure
Steve Lange, Emeline Lobry, Anne Hébraud, Guy Schlatter
- 22 EHDA setup for synthesizing gas sensing nanomaterials
Christoforos Skourides, Nikolas Sochorakis, Dimitris Gounaris, George Biskos
- 23 Modelling and design of an EHDA based biogas odorization system
Kelly Moreira, Leon Schmittgens, Ignacio Loscertales, Luewton L.F. Agostinho
- 24 Hollow lignin-based nanofibres by electrospinning: Roles of composition and solution rheology
Paula Martínez-Cánovas, Salvatore Cito, Francisco Medina, Joan Rosell Llompart
- 25 Printing with submicron fibres by electrostatic stirring of electrohydrodynamic jets
Eszter Bodnár, Ievgenii Liashenko, Alberto Ramon, Andreu Cabot, Joan Rosell-Llompart
- 26 Nanofiber Transwell Platform for Enhancing Cellular Viability and Sensing
Vinayak Nirmale, Bilgi Kip, Colin Campbell, Norbert Radacsi
- 27 Application of SpaceNanoWeld Technology in Satellite Structural Components: Improving Mechanical and Thermal Performance
Savvas Assiotis, Ioannis Ioannou, Andreas Stavrou, Michalis Koutsoftas, Ioanna Savva, Maria Karouzou, Natalia Violari, Vassilis Drakonakis
- 28 Novel nano-enabled membranes for Carbon Capture (CSS) Systems for industrial post combustion processes
Maria Karouzou, Ioanna Savva, Natalia Violari, Achilleas Konstantinou, Vassilis Drakonakis
- 29 Characterization of porosity in electrospun nanocomposite membranes using porometry, uCT, MRI and X-ray Imaging
Anna Marszałek, Anna Nikodem, Agnieszka Fulbiszewska, Łukasz Zych, Tomasz Szponder, Ewa Stodolak-Zych
- 30 Fibers modified with biologically active compounds for immunomodulation
Ewa Stodolak-Zych
- 31 Tailoring electrospun nanofibers to enhance cellular uptake and bioavailability of proteins
Maryam Saberi
- 32 Shake it Till You Make It: Enhancing Cell Attachment onto Melt-Electrowritten Scaffolds
Jessica A. Hollett, Ievgenii Liashenko, Paul D. Dalton, Lucy A. Bosworth
- 33 Bioinspired hierarchical scaffolds direct human conjunctival epithelial cell organization and distribution
Vera Citro, Ievgenii Liashenko, Paul Dalton, Kevin Hamill, Lucy Bosworth



SOCIAL EVENTS

Welcome Reception

Date: **Monday, 28 April 2025**

Time: **18:00 - 19:30**

Location: University of Cyprus, Anastasios G. Leventis building (Foyer Area - ground floor inside area)

The Welcome Reception is the first social gathering between all conference delegates and it will take place at the University of Cyprus. It will be a relaxing evening during which delegates will have the opportunity to talk to colleagues and peers, while enjoying local drinks and ample canapés

The welcome cocktail is included in all Registration Types.

Ticket per accompanying person: **€30.00**



Tour & Conference Dinner

Date: **Tuesday, 29 April 2025**

Time: **17:00- 23:00**

Departure from: Anastasios G. Leventis building ground floor entrance

Tavern: Alonia Tavern Livadia (St Paraskevi Church, 37 Livadia, Larnaca 7060)

We will depart from the venue in air conditioned busses with licensed tour guides for an excursion to the historical sites of the west of Cyprus. We will end the day with the Conference Dinner, which will be at a local restaurant and will consist of an array of traditional dishes complimented with local drinks and desserts.

The Conference Dinner is included in all Registration Types.

Ticket per accompanying person: **€70.00**





ABOUT NICOSIA



The Medieval Walls of Nicosia

Nicosia is the capital of Cyprus; a status it has enjoyed for 1000 years since the 10th century, though its beginnings date back 5000 years to the Bronze Age. It lies roughly in the centre of the island in the Mesaoria Plain, flanked by the beautiful northern range of Kyrenia Mountains with its distinctive ‘Pentadaktylos’ – the five finger mountain. There are various suggestions as to the origin of the name Nicosia – or ‘Lefkosa’ In Greek – but the most likely one is linked to the popular tree, the tall ‘Lefki ‘ which once adorned the city.

Based in Nicosia are the Government head offices, Diplomatic headquarters and the cultural centre of Cyprus. The capital presents two distinct faces: the old, original part of the city, surrounded by sturdy Venetian walls over 400 years old, and a busy modern metropolis which has a population of 171.000 together with the suburbs.

Within the large area, encircled by the strong bastion walls that served to protect the town for centuries, are many places of great historic interest.



The central Eleftheria Square links old Nicosia with the elegant modern city that has flourished outside the walls, where hotels, offices restaurants and gardens blend happily with the fine old houses and colonial buildings of this cosmopolitan city.

Nicosia is a sophisticated and cosmopolitan city, rich in history and culture that combines its historic past with the amenities of a modern city.



UNIVERSITY OF CYPRUS

University of Cyprus

The University of Cyprus (<https://www.ucy.ac.cy/en/>) was established in 1989 and admitted its first students in 1992. It was founded in response to the growing intellectual needs of the Cypriot people, and is well placed to fulfil the numerous aspirations of the country. The University is a vigorous community of scholars engaged in the generation and diffusion of knowledge.

Despite its brief history, the University of Cyprus has earned the respect of the international academic community and the appreciation of Cypriot society. Admission for the majority of undergraduate students is by entrance examinations organized by the Ministry of Education and Culture of the Republic of Cyprus, and the competition for places is intense. A number of places are reserved for students with special needs or circumstances. Every effort is made to offer practical solutions to students facing specific problems, be it access to University facilities, or assistance on academic issues. When the University of Cyprus first opened its doors to students, the incoming class consisted of 486 undergraduate students.



During the academic year 2013-2014 there were 7048 students (undergraduate and postgraduate). There are 8 faculties, 22 departments and 11 research units at UCY. The University of Cyprus is currently ranked in the top 400 Universities in the world, in the top 200 in Europe and features in the 52nd position worldwide in the category of young Universities (World Universities Ranking – Times Higher Education).





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+357 22 591900

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