

9TH WORKSHOP

on Flexible & Printed Electronics Industry

(Targeting the Digital Transformation)



22 October 2018
Divani Caravel Hotel
Athens, Greece

www.ltfn.gr/9workshop

Organizers



Nanotechnology Lab LTFN (Lab for Thin Films - Nanobiomaterials - Nanosystems & Nanometrology), Aristotle University of Thessaloniki is an internationally acknowledged specialist in Organic Electronics (OEs), Thin Films and Nanomaterials Technology (vacuum, printing), Nanomedicine, Nanometrology, Real-time/In-line precision Metrology, Automation and Digital Manufacturing.

LTFN has established the Center of Organic & Printed Electronics - Hellas (COPE-H), for cutting-edge Research and Manufacturing of OE Devices for applications in Energy, Displays, Lighting, Electronics, Automotive, NanoBiomedicine, Smart Textiles and Wearables, IoT, Smart Food Packaging, Greenhouses, etc.

LTFN is a world-class excellence entity in various research fields, with a Lab space area of 2000 m², including clean room facilities of 600 m² and state-of-the-art equipment and facilities, 10 Pilot Lines and several TestBed facilities, combined with strong activity in R&D Projects and dynamic collaborations with SMEs, industry and academia. LTFN is a Digital Innovation Hub, offering open access to interested entities (Academia, Research, SMEs, Industries), while serving as an One-Stop-Shop for SMEs for technology transfer, proof-of-concept and incubation.

The main research activities of the LTFN are focused on the following topics:

- Organic Electronics & Photonics
- Thin Films & Nanobiomaterials Technology
- Nanoengineering & Surface Engineering
- Nanomedicine & Nanobiotechnology
- Optical Technology & Nanometrology
- Digital Nanomanufacturing
- Computational & Modeling at Nanoscale

HOPE-A is the Hellenic Organic and Printed Electronics Association. HOPE-A organizes and co-ordinates the activities of industrial and research institutions in Greece in the field of Organic & Printed Electronics and strengthen their goals.

The scopes of the HOPE-A are:

- Create a network of companies working in the organic and printed electronics applications
- Develop strong links between R&D, technology and manufacturing
- Generate new technologies, applications, roadmap and reports
- Support members to new markets and trade-shows
- Strengthen contacts with public authorities
- Distribute information from the markets
- Enhance the attraction of funding and investments for the members
- Represent and increase lobbying
- Strengthen the collaboration with organic and printed electronics global organizations and companies
- Organization of Exhibitions, Workshops, Seminars and training activities



Sponsors & Supporters



OET is a world leader in R2R manufacturing of Printed and Flexible Organic Electronics since integrates all processes and technologies (in line laser, metrology & quality control tools) into R2R Pilot and Production Printing lines (Inkjet, Slot die, Gravure, Screen Printing) with control in Automatic decision – making processes. OET is a provider of R2R full printed OPV products with unprecedented quality free of design.

Its core activities include large scale manufacturing and optimization of OPVs, OLEDs and printed RFIDs/NFC antennas, in-line laser processes, in-line metrology, Quality control platforms, encapsulation technologies, design & development of Inkjets and Lasers Systems for R2R printing lines.

OET through international projects and collaborations from Europe, USA, Japan and China integrates its full printed Organic Electronic prototypes & products in Energy, Lighting, Automotive, Buildings, Wearables, IoT and Smart Packaging applications.



BL Nanobiomed P.C. is a high tech company that applies nanomedicine technologies and strategies to deal with unmet medical needs.

BL Nanobiomed focuses on the development of novel nanotechnologies, manufacturing processes for the development of innovative drug eluting nano-systems, nanoparticles and nanoplatforms to advance the performance of implants, the implementation of nanoscale techniques for their thorough characterization and validation, the technology licensing and technology transfer.



Nano|Net is an initiative for the promotion of communication and collaboration between research and business organizations activated in the fields of Nano-Bio-Technologies. Its' main purpose is to reinforce and promote Nanotechnologies in Greece, Europe and Worldwide, through an interscientific approach. Nano|Net started in 2003 from Nanotechnology Lab LTFN - AUTH, counting more than >580 individual members (>1250 cluster members) worldwide (including University Labs, Research Institutes, Companies, Hospitals etc.)!



CORNET is an ambitious project submitted to the H2020 Call NMBP-07-2017, that will develop a unique EU Open Innovation Environment (OIE) covering the triangle of manufacturing, modelling and experimentation in order to optimize the Organic/Large Area Electronic (OE) materials, materials' behaviour and nano-devices (OPVs, PPVs, OLEDs) manufacturing processes.

This will be achieved by linking the nanostructure features with the macroscopic functionality through multiscale (nano to macro) characterization and modelling. This will strongly impact the fast and reliable development of new materials, devices and will enable control of the related production processes (R2R printing and gas transport (OVPD)) to fabricate tailored OE devices and systems to demonstrate to industrial applications (e.g. automotive, greenhouses).

CORNET will develop an OIE Platform and a sustainable Database for documentation of citable & industrially accepted protocols for material & device characterization, modelling and manufacturing and will establish strong links and cooperations with existing EU clusters (as EMMC, EMCC, EPPN), industrial associations, EU networks to increase the speed of OE materials/device development and industry uptake, maximize the acceptance of the OIE and Database and push-through standards for adoption by industry worldwide.



SmartLine is an ambitious Project that will create intelligent and zero-defect manufacturing processes by developing robust and non-destructive in-line metrology tools (optical, electrical, structural) and process control platform to achieve the reliable and closed-loop manufacturing of Organic Electronic devices (OPVs and OLEDs for lighting) by Roll-to-Roll Printing and Organic Vapour Phase Deposition (OVPD) pilot lines. The consortium consists of 7 partners from 4 different European Countries (Greece, Germany, Italy, Netherlands).



AGMPM is the Association of the Greek Manufacturers of Packaging & Materials was founded in 1999 by the leading packaging manufacturing enterprises in Greece. Members of the Association are companies producing packaging materials out of paper and carton, aluminum, tin, plastics, glass, wood and natural fibers.



University of Ioannina was established in 1964. Nowadays more than 15.000 undergraduate and postgraduate students are being educated by more than 550 Members of Academic Staff, 170 Teaching Fellows and 130 members of Technical Laboratory Staff. The University Administrative Services are staffed with more than 420 employees. A number of organized postgraduate study programs are on offer that combine teaching and research elements both at Master's and Doctoral level. Approximately 1,300 students are involved in full-time study progressing to a Master's degree, while more than 2,200 students are currently pursuing their studies at Doctoral level. The University includes 17 departments operating in 6 schools, more than 50 research centers and laboratories as well as central services and infrastructures all contributing in strengthening education and research activities.



University of Patras was founded in the city of Patras in 1964 and it began functioning in the Academic year of 1966-67, this contributed vastly to the decentralization of Academic Education in Greece. In June 2013 the University of West Greece was incorporated in the University of Patras. The University is a two-city campus, situated both in Patras and Agrinion. The campus in Patras is located 12 km East of the city of Patras, in the suburb Rion, covering a vast area of 2.656 acres. The campus is a self-contained campus located at the foot of Mount Panachaico with a view over the Gulf of Corinth and the mountains of Central Greece across the water. The University of Patras is the third largest University in Greece regarding the size of student potential, the Faculty Members, Administrative Personnel, number of departments, and accredited student titles. The University of Patras includes 24 Departments, with a large number of sectors and consequently a great range of disciplines, which operate 161 laboratories and 17 fully equipped clinics. The University of Patras has 32,398 Undergraduate and 3,781 Postgraduate students, a total of 633 faculty members, 191 Teaching and Technical staff and 357 Administrative Personnel. (data of July 2018)

Media Partners



All Pack Hellas is the unique magazine in Greece with specialization in packaging, which maintains a significant number of clients. It publishes newsletters every two months and several articles and specializes in labeling, packaging and all the sub sectors of package.



GRAPHICANEWS.GR is a graphic arts industry news portal.



Insider.gr is an innovation and business news portal.



Energypress is the Greek energy news portal.



Ethnos is a daily newspaper that covers a wide variety of fields such as politics, business, sports and art.



Sunday 's Ethnos is the Sunday 's edition of Ethnos newspaper.

Under the Auspices



HELLENIC REPUBLIC
Ministry of Digital Policy,
Telecommunications and Media



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HELLENIC REPUBLIC
Ministry of Rural Development
and Food



HELLENIC REPUBLIC
MINISTRY OF FOREIGN AFFAIRS

Agenda



Flexible & Printed Electronics Industry (Targeting the Digital Transformation)

Monday 22 October 2018, Divani Caravel Hotel, Athens, Greece



FPEs Revolutionize Energy, Lighting, Displays, Electronics, Transportation, Greenhouses, Buildings, Bioelectronics, Healthcare, Smart Textiles, Wearables, IoT, Intelligent Packaging, Signage, Security, etc,

Being the most Green Technologies and Creating a several 100B€ Market.

(www.ltfn.gr/9ws)

20:00	VIP Meeting 21 October 2018		
PROGRAM 22 October 2018			
08:00 – 20:00	Registration, Posters, Exhibitors		
09:00 – 09:20	Welcome & Introduction by the Workshop's Chairman, Prof. S. Logothetidis		
	Welcome by the Deputy Minister of Environment & Energy, Mr. S. Famellos		
Session 1: FPEs: Current Status, Markets & Benefits for Sustainable Growth (Chairs: Prof. J. Kallitsis, S. Logothetidis)			
09:20 – 09:50	Intelligent Manufacturing of Flexible & Printed Electronics Industry to Boost Digital Transformation	Prof. S. Logothetidis, Nanotechnology Lab LTFN & HOPE-A, Greece	
09:50 – 10:10	Active Materials for Printed Organic Electronics	Prof. J. Kallitsis, University of Patras, Greece	
Session 2: FPEs International Collaborations (Chair: Dr. A. Laskarakis, D. Mantis)			
10:10 – 10:25	HOPE-A: Connecting the Greek Industrial Stakeholders Globally	Ms. F. Logothetidi, HOPE-A, Greece	
10:25 – 10:40	Bringing the Factory of the Future (SmartLine) and Open Innovation Environment (CORNET) in FPEs	Dr. A. Laskarakis, LTFN/COPE-H, AUTH, Greece	
10:40 – 10:55	Hellenic Photonics Cluster: Facing the future with collaboration	Dr. E. Hontzopoulos, HPhos & Prime Laser Technology S.A., Greece	
10:55 – 11:10	ΣΥΒΙΝΥΣ Activities to promote Packaging & Materials	Mr. D. Mantis, Association of Greek Manufacturers of Packaging & Materials	
11:10 – 11:40	Networking Break, Posters, Exhibitors		
Session 3: Energy and Lighting for Automotive, Buildings, GreenHouses (Chairs: Dr. N. Kechagias, N. Li Pira)			
11:40 – 12:00	Large Area OEs for Energy Production & Lighting in Automotive, Buildings and Greenhouses	Dr. E. Pechlivani, OE-Technologies, Greece	
12:00 – 12:20	OPVs, OLEDs and Sensors for the Car of the Future	Dr. Nello Li Pira, Centro Ricerche Fiat, S.C.p.A, Italy	
12:20 – 12:40	Upscaling of High Performance C.Polymers for OPV Modules	Dr. C. Chochos, Advent Technologies, Greece	
12:40 – 13:00	Flexible and Printed Electronics in Transport & Mobility Applications	Dr. E. Bekiaris, Hellenic Institute of Transport, CERTH, Greece	
Session 4: Upscaling FPEs Manufacturing and 3D Printing (Chairs: Dr. N. Meyer, A. Laskarakis)			
13:00 – 13:20	Industrial Manufacturing of FPElectronic Devices	Mr. V. Matskos, CEO, OE-Technologies, Greece	
13:20 – 13:40	Upscaling R2R-processes towards production	Dr. N. Meyer, Coatema Coating Machinery GmbH, Germany	
13:40 – 15:00	Lunch, Networking, Posters, Exhibitors		
Session 5: Intelligent Packaging & Retail (Chair: Mr. V. Matskos)			
15:00 – 15:15	Applications of Smart Packaging	Dr. L. Tourasanidis, A. Hatzopoulos S.A., Greece	
15:15 – 15:30	Large area nanostructured surfaces for Security Applications	Mr. Th. Tachtsidis, Nanotypos, Greece	
15:30 – 15:45	Manufacturing Flexible & Printed RFIDs and Sensors for IoP	Mr. S. Fachouri, OE-Technologies, Greece	
15:45 – 15:55	Nanotechnology in Packaging: The Marketing Approach	Mr. G. Triantafyllou, AllPack Hellas, Greece	
Session 6: Healthcare, IoT, Wearables & Smart Textiles (Chair: Dr. E. Pechlivani)			
15:55 – 16:10	Nanomedicine Applications, Biosensors & 3D Bioprinting	Dr. V. Karagkiozaki, BL Nanobiomed, Greece	
16:10 – 16:20	Applications and prospects of FPEs to Electronics	Mr. Ch. Giordamlis, PRISMA Electronics, Greece	
16:20 – 16:30	Applications to Smart Textiles & Wearables	Mr. P. Kitsikopoulos, ELVE, Greece	
16:30 – 16:40	FPEs Industrial Applications and Standards	Dr. S. Vasilakos, Dr Silvia Pavlidou, MIRTEC S.A., Greece	
16:40 – 17:45	Networking Break, Posters, Exhibitors		
Session 7: Funding & Commercialization (Chair: Prof. S. Logothetidis)			
17:45 – 18:00	Digital Transformation of European Industry & DIHs	Ms. A. Tasigiorgou, External expert of the European Commission on the Catalogue of DIHs	
18:00 – 18:15	Starting up with Metavallon VC	Ms. K. Kanteraki, Metavallon VC, Greece	
Session 8: Start Ups Competition for the Year Award (Chairs: Dr. N. Meyer, Prof. J. Kallitsis, Ms K. Kantereki)			
18:15 – 19:00	Pitches from Start-Ups (5 min each) (OET, Nanotypos, Prisma, Advent, BL)		
19:00 – 19:30	Award & Main Points		
19:30 – 20:00	Closing Remarks - End of Workshop		

Invited Speakers

Prof. Stergios Logothetidis, Nanotechnology Lab LTFN & HOPE-A, Greece



Prof. S. Logothetidis is Professor of Physics, Materials Science, Nanotechnology, Thin Films & Nanomaterials Technologies, Optics and Nanomedicine in the Department of Physics in the Aristotle University of Thessaloniki, Greece. He has extensive R&D experience as a Coordinator and partner in a plethora of European and nationally funded R&D&I projects. His research activity has generated over 930 papers and review articles in International Journals & Conferences. He is the author of over 350 peer-reviewed papers, 6 books and 5 patents, and has received over > 8000 citations holding an h-index=43. He is the Founder and Director of Nanotechnology Lab LTFN, of the Post-Graduate Program "Nanosciences & Nanotechnologies" and of the Center of Organic & Printed Electronics Hellas (COPE-H). Prof. S. Logothetidis is the Founder and President of the Hellenic Organic and Printed Electronics Association (HOPE-A).

Dr. Nico Meyer, Coatema Coating Machinery GmbH, Germany



Nico Meyer studied organic Chemistry at RWTH Aachen and finalized his Ph.D. in 2000 in the field of Asymmetric Catalysis. He joined AIXTRON SE as Process Engineer for the first OVPD® system at Universal Display Corporation in US. In 2003 he coordinated funded Projects for Organic Electronics at AIXTRON. In 2013 he joined Coatema Coating Machinery GmbH to initiate and coordinate funded Projects based on Coatema's Click&Coat™ Technology. The modular concept of Click&Coat™ offers the highest equipment flexibility for innovative processes and enables successful scale-up for production with reduced costs. Since 2018 he is Director of R&D Projects at Coatema.

Dr. Nello Li Pira, Centro Ricerche Fiat, S.C.p.A, Italy



Dr. Nello Li Pira holds a PhD in General Physics. He currently works as head of functional Surfaces & Coating group within Group Materials Labs Department. He is involved in the development and engineering of functional systems for vehicle applications. He is a master in surface and coating metrology and processing as well. He has international experiences in EU projects as project coordinator: FP7 PRIAM, FP6 NANOPRIM, and scientific responsible in FP7 projects: LAMP, LIGHT-ROLLS, E-STARS. Furthermore, he is involved in the OE-A, EPOSS and OLAE platforms.

Dr. Lefteris Tourasanidis, A. Hatzopoulos S.A., Greece



A chemist with over 15 years of experience in flexible packaging as the R&D manager at Hatzopoulos company. Designing structures, materials properties and multi-functional packaging solutions with focus on packaging optimization, consumer safety and sustainability. He is a member of the Technical Committee of FPE (Flexible Packaging Europe) and the Sustainability Committee of EAFA/FPE. Vice President of the Greek Packaging Association and Secretary General of the Hellenic Organic and Printed Electronic Association.



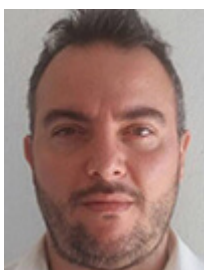
Mr. Vasileios Matskos, OE-Technologies, Greece

Mr. V. Matskos is a Physicist holding an MSc in Nanotechnology, and is the CEO of OE-Technologies (OET). He worked in the industry of plastics for more than 10 years in development of new products (R&D) for aluminum industry (“thermal bridge” glass reinforced PA profiles), food industry (production of multilayer “blown” film) and also as a manager of an ISO9001 Quality System. As a Business Consultant participated in the implementation of several Greek investment projects. He was involved in government policy since he was special advisor of i) Rural Minister, ii) Minister of Labor and Social Insurance, and of iii) Prefecture of Kilkis (Region of North Greece, 2002-2004). He joined OET in 2014.

Prof. Joannis Kallitsis, University of Patras, Greece

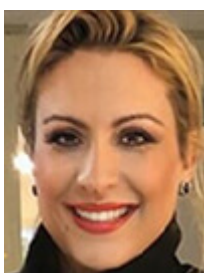


Dr. J.K. Kallitsis is Professor of Polymer Sciences and Technology in the Department of Chemistry, University of Patras and Collaborating Faculty Member in the Institute of Chemical Engineering Sciences of the Foundation of Research and Technology Hellas (FORTH/ICE-HT). He spent postdoctoral years in the Max Planck Institute for Polymer Research, Mainz and in the Kunststoff laboratorium at BASF, Ludwigshafen. He has been invited Professor in University of Berlin, University of Strasbourg, Ecole Supérieure de Physique et de Chimie Industrielles (ESPCI-Paris), Swiss Federal Institute of Technology (ETH-Zurich) and University of Bordeaux. His research interests are focused in the field of advanced polymer synthesis and characterization, as well as polymer based nanomaterials. Materials for Energy related applications is a key research activity. He has been National Representative in International Union of Pure and Applied Chemistry (IUPAC), Polymer Division IV and Board Member in European Polymer Federation (EPF). His research activity has led to the publication of more than 190 papers in refereed journals, 230 contributions to International and National conferences and 15 International and Greek patents.



Mr. Theodoros Tachtsidis, Nanotypos, Greece

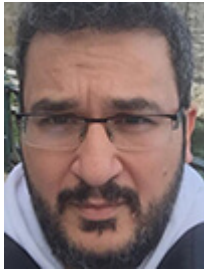
Mr. Theodoros Tachtsidis, Physicist, obtained his Bachelor’s degree from the Aristotle University in Thessaloniki, Greece. Since 2015 he is working as a research engineer within Nanotypos while his work focuses on the development of functional surfaces by imprint based processes (batch-to-batch and roll-to-roll) for tailored products & components.



Dr. Varvara Karagkiozaki, BL-Nanobiomed, Greece

Dr. V. Karagkiozaki is the Head of Nanomedicine Group of Nanotechnology Lab LTFN, AUTH. She is a Specialist Cardiologist, holding an MSc in Nanosciences & Nanotechnologies, and a PhD in Nanomedicine. She specializes in Clinical Nanomedicine, Development and Preclinical Validation of drug delivery nanosystems, nanoparticles and scaffolds to treat human diseases, such as Atherosclerosis, Orthopedic and Neurodegenerative Diseases, etc and to optimize implants like Cardiovascular stents, orthopedic implants, lenses and others, and Biosensors and 3D Bioprinting technologies in various medical and pharmacological applications. Also she is the Co-ordinator of the Greek Nanomedicine Platform.

Dr. Christos Chochos, Advent Technologies, Greece



Christos L. Chochos (born 10 November 1977, male) holds a degree in Chemistry (2001), a M.Sc (2004) and a PhD (2006) in Polymer Science and Technology from University of Patras. His research interests include the design, synthesis and commercialization activities of organic semiconducting materials. He is the scientific supervisor in 3 ongoing European projects at Advent Technologies, and he has successfully completed another 3 EU projects all on the development of organic materials for applications in organic photovoltaics. He is the author of 57 scientific publications [h-index=23; 1643 citations, Google Scholar (September 2018)] and 5 US patents. Recently, he has been appointed as Associate Researcher at the Institute of Biology, Medicinal Chemistry & Biotechnology (IBMCB) of the National Hellenic Research Foundation (NHRF).

Dr. Eleftheria-Maria Pechlivani, OE-Technologies, Greece



Dr. Eleftheria-Maria Pechlivani is the R&D Project Manager in Organic Electronic Technologies P.C (OET) since 2016. She is responsible for managing and leading project's actions, writing project proposals to EU, patents and coordinating critical R&D strategies, which support the innovations and commercialization of new products as well as revitalizing existing products. She graduated from the Department of Physics (BSc, 2002-2006) of Aristotle University of Thessaloniki- AUTH and she obtained her MSc in Physics & Technology (2006-2008) and her PhD in Applied Physics (2013) from the same University and Department. She is a specialist in growth of inorganic and organic thin films by Chemical Vapor Deposition and wet processes. Eleftheria is an expert in the development of Organic Photovoltaics (OPVs) and Organic Light Emitting Diodes (OLEDs) and the structural, electrical and performance characterization of semiconducting materials. Before she joined OET, she was a postdoctoral researcher in Nanotechnology Lab - LTFN of AUTH. In her 10 year career as a research scientist at AUTH, she has successfully participated in several R&D projects (2 Horizon, 3 FP7 EU and 7 NSRF).

Dr. Elias Hontzopoulos, Hellenic Photonics Cluster & Prime Laser Technology S.A., Greece



Dr. Elias Hontzopoulos is an Affiliated Industrial Researcher in the Institute of Electronic Structure and Laser (IES) of the Foundation for Research and Technology-Hellas (FORTH). He received his PhD on chemical conversion of solar energy in 1983. He joined the Physics Department of the University of Crete as visiting professor (1986-1991) and the Institute of Electronic Structure and Laser of FORTH as researcher (1986-2000). During this period, he was working in the field of laser technology and applications, participating in a large number of research projects funded by the EC (BRITE/EURAM, BRITE, ESPRIT, GROWTH, IST, COMMET programs) or other international financial institutions (NATO Science for Stability) in demonstration projects. He served as Greek National Representative (1994-1996) in the "Committee of Senior Officials" of the COST and as member (2000-2001) of the "High Level Panel for Research Infrastructures" of the EC. Today he is Co-Founder and Vice President of PRIME Laser Technology SA (solar thermal absorber manufacturer with laser technology) and Senior Partner and General Manager of Lamda Technology Ltd (company dealing with optical networks, photonic systems and laser applications). Since January 2015 he is chairman of the Hellenic Photonics Cluster (H-Phos). He is member of the "National Council for Research and Innovation (NCRI)" and vice chairman of the "Regional Scientific Council for Research & Innovation" of Attica region (Athens greater area).

Dr. Argiris Laskarakis, Nanotechnology Lab LTFN, AUTH, Greece



Dr. A. Laskarakis is the Head of the Organic Electronics Group of Nanotechnology Lab LTFN & Center of Organic and Printed Electronics. He is a specialist in Flexible Organic & Printed Electronics nanomaterials (organic semiconductors, transparent electrodes, barriers for encapsulation) and devices (e.g. organic photovoltaics, organic thin film transistors) by vacuum and printing methods. Also, he is expert in optical metrology of inorganic, organic and hybrid nanostructured materials by Optical Spectroscopy methods as well as on the computational modelling of optical properties of nanomaterials and thin films. His work includes more than 73 peer-reviewed publications in International Scientific Journals, 4 book chapters, more than 120 presentations in International Scientific Conferences, and he has participated as Senior Researcher in more than 14 EU funded R&D projects. Finally, for the past 12 years he is responsible for the organization of the International Symposium on Flexible Organic Electronics (ISFOE).

Mr. Dimitris Mandis, Assoc. of the Greek Manufacturers of Packaging & Materials (AGMPM), Greece



Dimitris Mandis is the chairman of the AGMPM (Association of the Greek Manufacturers of Packaging & Materials). He is currently working in the technical department of Druckfarben Hellas AEBE, a manufacturing company of printing inks for packaging structures. He studied chemical Engineering in the University of Patras and has great experience in plastic and paper converting, plastic processing and troubleshooting. He is working since 1993 in the packaging industry holding position of R&D manager, technical director, production manager and field engineer (Bic Violex, Athens Pack, Chris Pan – Vioplast, Eurodrip).

Dr. Evangelos Bekiaris, Hellenic Institute of Transport, CERTH, Greece



The Director of HIT, Evangelos Bekiaris, is a PhD Mechanical Engineer of the National Technical University of Athens, former Research Director (Grade A Researcher) and former Head of the sector “Driver & Vehicle”. He has participated in over 100 research projects up to date, in 36 of which has led all the research consortium. His field of expertise covers issues of road safety, clean vehicles, smart grid applications, specialized telematics applications for vehicles, public transport and maritime transport. He has also profound experience in accessible transportation and personalized services for disabled people and elderly.

Dr. Sozon Vasilakos, MIRTEC S.A., Greece



Dr. Sozon Vasilakos obtained a PhD in the field of Polymer Technology from the School of Chemical Engineering of National Technical University of Athens (NTUA) in 2013. Since then he is working in the Research and Development Department of the MIRTEC S.A.. He has more than 25 participations at International and National conferences, and 10 publications in cited journals. He has also participated in national and European projects dealing with functional textile materials, nanomaterials and polymers.

Mr. Christos Giordamlis, PRISMA Electronics, Greece



Christos Giordamlis is co-founder of Prisma Electronics and CEO since 1991. He has a degree in Electrical Engineering and studies in Management and Marketing at London School of Economics. Since 1991 he is responsible to provide ICT Services in the Region of Eastern Macedonia and Thrace, to setup and operate a SMT production line in electronics and to deploy energy production from renewable sources. He has been Project Leader in a great number of research projects in the fields of industrial Engineering, sensors, Wireless Networks, Fiber optics, Photovoltaic, Energy, Nanotechnology, Condition Based Maintenance, Big Data Analytics and Maritime. As a major outcome of those R&D Projects and by inspiring young Engineers and Developers, was the development of an integrated Industrial IoT and Analytics platform for maritime industry fully developed by Prisma Electronics. Also as CEO of Prisma, he has deliver ICT Products and services in Private and Public sector. Projects like Metropolitan Area Fiber Networks, City Wireless Lan, Software & Process solutions for Municipalities, Hospitals, Educational Institutes, ERP & CRM in local Industries and Smart Decision support systems for more than 300 vessels are successfully implemented the previous years in numerous customers. Since 2013 he is President of the Industries Federation Network at Border Areas of Greece. He is also the elected President of Evros' Manufacturers Federation since 2010.

Ms. Alexandra Tasigiorgou, External expert of the European Commission on the Catalogue of DIHs



Ms. Alexandra Tasigiorgou is external expert of the European Commission on the Catalogue of Digital Innovation Hubs (DIHs), a project which aims to establish a pan-European network of DIHs covering all of Europe and to strengthen European leadership on digital industrial value chains and platforms. She previously worked for 3 years as a Project Officer at the Unit for "Technologies and Systems for Digitising Industry" in Directorate General CONNECT of the European Commission where she had a leading role in developing the DIHs initiative as part of the Digitising European Industry strategy. In the European Commission's Research and Innovation Programme HORIZON 2020, Ms Tasigiorgou was responsible for the areas of embedded and cyber-physical systems, advanced computing, and ICT for manufacturing where she was evaluating and coordinating projects as part of several EU initiatives such as Innovation for Manufacturing SMEs (I4MS), Smart Anything Everywhere (SAE) and Robotics.

Mr. Salim Fachouri, OE-Technologies, Greece



Salim Fachouri is one of OET's Researchers, a Physicist with MSc in Nanosciences & Nanotechnologies. He has a strong background related to stents and biosensors and characterization techniques, his current field of interest lies in the development of printable sensors. He has participated in National and European R&D projects related to the development and the optical characterization of organic electronics with novel materials and processes, their innovative applications and their integration within IoT platforms.

Ms. Foivi Logothetidi, HOPE-A, Greece



Ms. Foivi Logothetidi is the Dissemination and Innovation Manager of the Hellenic Organic & Printed Electronics Association (HOPE-A). She is responsible for the Networking activities of HOPE-A with its worldwide partners and the utilization of its members potential. She also manages extroversion and technology transfer issues of the Nanotechnology Lab LTFN, AUTh.

Ms. Katerina Kanteraki, Metavallon VC, Greece



Ms. Kanteraki is Program and Operations Manager at Metavallon VC. Previously, she worked at the EU Funding Management and Technology-Transfer office of Imperial College London, where she specialised in STEM research funding and commercialization. She also worked for MHA MacIntyre Hudson in audit and financial accounting for institutional non-profit organizations in the UK. Before moving to the UK, she studied and worked in Germany, Singapore, France and Greece with projects related to BPO, Digital Banking, Fintech, Insurance, Medtech and HR. On a voluntary basis, Katerina has helped startups accelerate their growth at Reload Greece, Impact Hub, Ashoka and Endeavor. Katerina holds a BA in Economics from Panteion University and an MSc in Management and Strategy from EMLyon Business School and Ludwig-Maximilian-University.

Mr. Paschalis Kitsikopoulos, ELVE, Greece



Mr. Paschalis Kitsikopoulos is Vice-President at ELVE sa. He Studied at Northeastern University in Boston, Graduating from the D'Amore-McKim School of Business. Elve sa is a public traded company in the Greek stock market specialized in Uniforms and production of Solar Energy. Before his arrival at Elve sa he had invested in a start-up business called Dealingers. He has worked in Sani Hotel in the HR and the marketing department. At Costas Provision in the operational and ordering department. He also worked at Alpha Trust' a wealth management company that specializes in the Greek and the Global stock markets.

Mr. Giorgios Triantafyllou, AllPack Hellas, Greece



Mr. Triantafyllou George, after a long and successful professional experience in organizing and coordinating both technical and professional exhibitions as long as conferences and seminars from 1993 to 2004, joined the magazines market place. From 2004 till 2008 he was the Managing Director of Publicity at the packaging magazine "All Pack Hellas". All Pack Hellas is the unique magazine in Greece with specialization in packaging, which maintains a significant number of clients. It publishes newsletters every two months and several articles and specializes in labeling, packaging and all the sub sectors of package. From 2008 till 2018 Mr. Triantafyllou is the owner and the head of publications and exhibitions of the magazine and the founder of the two sites, the 3D news, www.3dnews.gr and the site of the conference "Packet Labels" www.packandlabeldays.com. Every two years Mr. Triantafyllou organizes the "Gold Label Awards".

Pitches from Start-Ups



OET is a world leader in R2R manufacturing of Printed and Flexible Organic Electronics since integrates all processes and technologies (in line laser, metrology & quality control tools) into R2R Pilot and Production Printing lines (Inkjet, Slot die, Gravure, Screen Printing) with control in Automatic decision – making processes. OET is a provider of R2R full printed OPV products with unprecedented quality free of design.

Its core activities include large scale manufacturing and optimization of OPVs, OLEDs and printed RFIDs/NFC antennas, in-line laser processes, in-line metrology, Quality control platforms, encapsulation technologies, design & development of Inkjets and Lasers Systems for R2R printing lines.

OET through international projects and collaborations from Europe, USA, Japan and China integrates its full printed Organic Electronic prototypes & products in Energy, Lighting, Automotive, Buildings, Wearables, IoT and Smart Packaging applications.



BL Nanobiomed P.C. is a high tech company that applies nanomedicine technologies and strategies to deal with unmet medical needs.

BL Nanobiomed focuses on the development of novel nanotechnologies, manufacturing processes for the development of innovative drug eluting nano-systems, nanoparticles and nanoplatfroms to advance the performance of implants, the implementation of nanoscale techniques for their thorough characterization and validation, the technology licensing and technology transfer.



Nanotypos is a pioneering research and technology company whose mission is to create, develop and commercialize products that are realized by means of Roll to Roll Nanoimprint Lithography Nano-manufacturing processes.



Prisma Electronics provides technology-based solutions for businesses and organizations. Through its R&D and technical divisions Prisma Electronics designs, develops, and manufactures a wide array of IT, smart-grid and wireless-based systems, and integrated electronic components. Based in Northern Greece, Prisma Electronics is proud to offer commercial and custom solutions to its clients worldwide.



Advent has spent the last fifteen years developing the core materials, components and processes that will revolutionize the energy sector.

Advent has patented, developed, and manufactured materials and components that will impact the major energy challenges: Portable Power, Stationary Power, Hydrogen Production, Renewable Power Storage, Transportation, Organic Photovoltaics.

Posters



The Nanotechnology Lab LTFN is a Digital Innovation Hub acting as a One-Stop-Shop offering a plethora of products and services in digital technologies to support companies, SMEs, start-ups and mid-caps. In order to take advantage of the digital innovations in the Industry 4.0 era, companies need to update their business, production processes, products and services. This can be achieved by gaining access to State-of-the-art Technologies, Facilities, Networking, Access to Funding and Skills Development Services the Nanotechnology Lab LTFN provides.



SmartLine is an ambitious project that will create intelligent and zero-defect manufacturing processes by developing robust and non-destructive in-line metrology tools (optical, electrical, structural) and process control platform to achieve the reliable and closed-loop manufacturing of Organic Electronic devices (OPVs and OLEDs for lighting) by Roll-to-Roll Printing and Organic Vapour Phase Deposition (OVPD) pilot lines. SmartLine is coordinated by the Nanotechnology Lab LTFN with the participation of Organic Electronic Technologies P.C. (OET) and other 5 partners from Germany, Italy & Netherlands.



CORNET is an ambitious project submitted to the H2020 Call NMBP-07-2017, that will develop a unique EU Open Innovation Environment (OIE) covering the triangle of manufacturing, modelling and experimentation in order to optimize the Organic/Large Area Electronic (OE) materials, materials' behaviour and nano-devices (OPVs, PPVs, OLEDs) manufacturing processes.

Cornet is coordinated by the Nanotechnology Lab LTFN with the participation of Organic Electronic Technologies P.C. (OET), the University of Ioannina, the Hellenic Organic & Printed Electronics Association (Hope-A) and other 7 partners from UK, Italy, France, Germany & Switzerland.



PHOTOKIPIA is an innovation research project aims to develop an "Energy Efficient Greenhouse" based on large area Organic and Printed Photovoltaics (OPVs) that allow also the proper growth of greenhouse cultivation.

PHOTOKIPIA is a NSRF 2014-2020 project and coordinated by the Nanotechnology Lab LTFN.



APOLLON is an innovation research project aims to develop the methodology and printing processes in a pilot line, large scale OLED devices with optimized performance, functionality and integration capabilities in complex lighting and signage products. APOLLON is a NSRF 2014-2020 project and coordinated by the Nanotechnology Lab LTFN.



University of Ioannina was established in 1964. The University includes 17 departments operating in 6 schools, more than 50 research centers and laboratories as well as central services and infrastructures all contributing in strengthening education and research activities.



University of Patras is the third largest University in Greece and includes 24 Departments, with a large number of sectors and consequently a great range of disciplines, which operate 161 laboratories and 17 fully equipped clinics.



AITEX is Spain's leading research and innovation centre and provider of advanced technical services to the textile industry. The Institute has a network of nine international offices providing cover for its associates and clients in fifty countries, and this has led to the Institute becoming one of Europe's leading research centres.



Sabanci University, established in 1994, is a young foundation university located on a 1.26 million sm campus which is about 40 km from Istanbul's city center. Research at Sabanci University is an interdisciplinary endeavor in the sciences, technology and arts led by Faculties, Centers and Forums.



Sabancı University Nanotechnology Research and Application Center (SUNUM) is developed with 35 Million USD provided by State Planning Organization and Sabancı Foundation and became operational in January 2012. The Center is engaged in highly effective multidisciplinary research programs, bringing together researchers with expertise spanning advanced materials, nano-bio technology, nano-electronics, micro-nano fluidics, micro-nano-electromechanical systems and nano-engineering.

Notes

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9TH WORKSHOP

22 October 2018, Athens, Greece

www.ltfn.gr/9workshop

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