



**MicroNano
& ChipsTech**
2026 International Conference



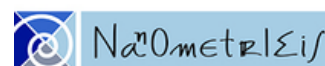
13th International Conference on Micro-Nanoelectronics, Nanotechnology and MEMS

Athens | October 15 - 18, 2026

Sponsors



Exhibitors



Thursday October 15th, 2026

Venue: Hall of Statues in the Historic Rectorate Building of the National Technical University of Athens (NTUA)

17:00 – 17:30	Registration
17:30 – 18:00	Guided Tour of the Averof Building Premises
18:00 – 18:30	Opening Ceremony and Welcome Addresses
18:30 – 19:00	MicroNano Scientific Society – 22 years of contribution to the field of Micro/Nanoelectronics and Nanotechnology in Greece E. Gogolides, President of Micro Nano Scientific Society, Director of Research, Institute of Nanoscience and Nanotechnology, NCSR “Demokritos”
19:00 – 19:30	The Hellenic Chips Competence Center (HCCC)
19:30 – 21:00	Welcome Cocktail Reception & Light Dinner

Friday October 16th, 2026

Venue: University of West Attica, Ancient Olive Grove Campus, Main Conference Centre

	Central Amphitheatre	Room 5	Seminar Room (Room 3A/3B) – Micro-Nano Career, Innovation and Networking Forum
09:00 – 09:30	Registration		
	Session A.0: Conference Opening Chair: G. Kaltsas, G. Panagopoulos		
09:30 – 10:00	Welcome Addresses		
10:00 – 10:30	Award Ceremony in Honor of Professor Dimitri A. Antoniadis		
10:30 – 11:10	Keynote Talk “Electro-Optical Neuromorphic Computing: from Memristive Devices to Applications” Privatdozent Alexandros Emboras, <i>ETH Zurich</i>		
11:10 – 11:40	Invited Talk “Materials and Nanodevices for Neuromorphic Computing” Dimitra Georgiadou, <i>University of Southampton</i>		
11:40 – 12:10	Coffee Break		
	Session A.1: Electrochemical Sensors and Devices Chair: M. Chatzichristidi, S. Mavrikou	Session B.1: Lithography and Nanofabrication Chair: E. Gogolides, G. Konstantinidis	
12:10 – 12:40	Invited Talk “Pattern Fidelity Characterization After Photolithography Using SEM, Optical Metrology, and Predictive Process Modeling” Chrysostomos Batistakis, <i>ASML</i>		
12:40 – 12:55	Electrochemical Performance of Screen-Printed Electrodes modified with Functionalized Carbon Black E. Topoglidis, P. Thanopoulos and V. Georgakilas	A Data-Driven Approach to Fast Low-Pressure Plasma Etching Optimization Using Machine Learning Models Trained on Physics-Based Model and Experimental Data E. Boniakou, S. Mouchtouris, K. Oikonomou, C. Zormpa, T. Vasileiadis, R. Jordan, T. Michaelos, G. Raffa, V. Narasimhan, A. Armaou, V. Constantoudis, E. Gogolides, G. Kokkoris	Session C.1 Nano Ecosystem – Company and Student Presentation
12:55 – 13:10	Dopamine Detection Using CuO-Coated Gold Interdigitated Electrodes on Silicon Substrates: An Impedimetric Study R. Mihasi, E. B. Souvatzki, A. Apostolakis, D. Barmpakos, S. Mavrikou, E. Makarona, G. Kaltsas	Manufacturing of DFR-based Low-cost High-resolution Molds for Micro-contact Printing Stamps Using Photolithographic 3D Printing Technology V. Synadinos, P. Chatzisavvas and A. Tsamis	

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	Session A.1: Electrochemical Sensors and Devices Chair: M. Chatzichristidi, S. Mavrikou	Session B.1: Lithography and Nanofabrication Chair: E. Gogolides, G. Konstantinidis	Session C.1 Nano Ecosystem – Company and Student Presentation Chair: G. Kaltsas, O. Tsilipakos Presenters Netscope Solutions Vector Technologies Helix2 Salvinno PhosPrint Nanometrisis Nanoplasma Nanotypos Lino --- IEEE UniWA IEEE NTUA Young Minds NTUA
13:10 – 13:25	Biomimetic Molecularly Imprinted Electrochemical Sensor for Selective On-Site Detection of Azoxystrobin A. Manolopoulos-Dekaristos, R. Golfonopoulou, K. K. Georgoulia, A. Apostolakis, E. Stai, I. F. Kalampokis, V. Tsekouras, A. S. Kastania, D. Barmpakos, V. Constantoudis, K. Aliferis, G. Kaltsas, and S. Mavrikou	Study of Poly(vinyl alcohol)-Based Lithographic Materials Cross-Linked with Sodium Metatungstate E. Christogiannopoulou, S. Minadaki, A. Gkolosi, P. Argitis and M. Chatzichristidi	
13:25 – 13:40	ZnO – based UV Photodetector with excellent selectivity and detection limits N. Kagiara, I. Danias, S. Gardelis, T. Christos, E. Hourdakis	Line-space patterns in lithography and photonics: Hierarchical and graph approaches to their roughness characterization V. Constantoudis, G. Papavieros, A. Stellas, A. Kondi and E. Gogolides	
13:40 – 15:00	Lunch Break		
	Session A.2: Biomedical Microsystems and Biointerfaces Chair: E. Makarona, A. Tserepi	Session B.2: Optical Sensing and Micro-Optics Chair: A. Bogris, S. Gardelis	
15:00 – 15:30	Invited Talk “Photonic hardware for neuromorphic computing and AI acceleration” Antonis Bogris, <i>University of West Attica</i>		
15:30 – 15:45	Continuous-Flow Inertial Microfluidic Removal of RBC Membrane Debris from Lysed Blood P. Skaltsounis, S. Korre, G. Kokkoris, A. Tserepi	Fabrication of metasurface devices for sensing applications C. Siogka, A. C. Tasolamprou and N. Kehagias	Session C.2 Building the Micro Nano Ecosystem – A Round-Table Discussion Chair: G. Kaltsas, G. Konstantinidis Participants Netscope Solutions Vector Technologies Helix2 Salvinno PhosPrint Nanometrisis Nanoplasma Nanotypos Lino --- IEEE UniWA IEEE NTUA Young Minds NTUA
15:45 – 16:00	Conductive Mild Hyperthermia of Gram-Negative and Gram-Positive Bacteria Using a Temperature-Controlled Multiwell Platform E. B. Souvatzis, A. Apostolakis, T. Koutsis, P. Papazoglou, S. Mavrikou, G. Kaltsas	Aerogel microlens and Fresnel zone plate arrays and their homothetic miniaturization V. Charalampidis, K. Papachristopoulou and N. A. Vainos	
16:00 – 16:15	Gamma-hydroxybutyric acid detection in beverages by surface-enhanced Raman spectroscopy A. Pliou, F. Kalogeropoulou, A. Kanioura, M. Angelopoulou, S. Kakabakos, A. Economou, S. Richardson, A. Dimitriou, K. Giannakopoulos, D. Tsounidi, I. Raptis, D. Goustouridis, N. Papanikolaou, P. Petrou	Detection of GBL/GHB in beverages with Raman spectroscopy for forensic applications A. Dimitriou, S. Richardson, F. Kalogeropoulou, A. Kanioura, N. Papanikolaou, S. Kakabakos, P. Petrou	
16:15 – 16:30	Fluid-Damped Piezo-MEMS Filters for VO₂-Based Neuromorphic Auditory Front Ends L. Bakos, T. Zeffer, E. L. Tóth, T. N. Török, A. E. Halbritter, J. Volk	Metal-deposited and plasma-textured polymeric SERS substrates with controllable surface geometry and high performance A. Kastania, A. Dimitriou, S. Abbasi, V. Constantoudis, Q. Liu, N. Papanikolaou, H. Ottevaere, and E. Gogolides	
16:30 – 17:30	Coffee Break – Micro-Nano Society General Assembly		
17:30 – 19:00	Poster Session (A)		Session C.3 Micro – Nano Connect – Student – Industry One-to-One Meetings

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Saturday October 17th, 2026

Venue: University of West Attica, Ancient Olive Grove Campus, Main Conference Centre

	Central Amphitheatre	Room 5
	Session A.3: Printed Electronics and Functional Surfaces Chair: G. Kaltsas, E. Hourdakis	Session B.3: Photonics and Metasurfaces Chair: O. Tsilipakos, V. Constantoudis
09:30 – 10:00	Invited Talk “Miniature VCSEL Self-Mixing Sensors for Wearable Optical Sensing” Yannis Papadopoulos, <i>National Technical University of Athens</i>	
10:00 – 10:15	Laser printing and sintering of metal nanoparticle inks for fine stretchable interconnections A. Chrysanthopoulos, F. Zacharatos, A. Motyka, S. Drozdek and I. Zergioti	Metalldielectric THz metasurface “mirror” fabricated via Multiphoton Lithography S. Papamakarios, J. Yan, I. Katsantonis, P. Konstantakis, M. Loulakis, T. Koschny, M. Farsari, S. Tzortzakos, M. Kafesaki
10:15 – 10:30	A Wireless sEMG Platform Integrating Inkjet-Printed PEDOT:PSS Epidermal Electrodes on Flexible Kapton C. Prokou, A. Apostolakis, D. Barmpakos and G. Kaltsas	Revisiting Polarization in QD Spin-VCSELs: A Taxonomy of Dynamical Regimes for Photonic Applications C. Tselios, P. Georgiou, C. Politi and D. Alexandropoulos
10:30 – 10:45	Passive superhydrophobic surfaces to improve antifouling action for vessels V. Tselepi, S. Di Dio, G. Srébalienè, and K. Ellinas	Metasurface lasers enabled by quasi-dark resonances G. Nousios, T. Christopoulos, D. C. Zografopoulos, E. E. Kriezis, O. Tsilipakos
10:45 – 11:00	Effects of Printing Orientation and Substrate Type on the Morphological and Electromechanical Response of Screen-Printed Carbon Black Strain Sensors A. Pilatis, A. Apostolakis, D. Barmpakos, D. N. Pagonis, and G. Kaltsas	Beyond Stitching: How Electron-Beam Write Fields Shape Loss in Silicon Photonics M. Lipkin, J. Kaur, G. Vydrevich, M. Möller, V. Passi, J. Bolten, R. Thomas, S. Suckow, and M. C. Lemme
11:00 – 11:30	Coffee Break	
	Session A.4: Neuromorphic and Quantum Devices Chair: D. Tsoukalas, M. Loukas	Session B.4: Nanomaterials for Energy and Sensing Applications Chair: N. Papanikolaou, N. Kehagias
11:30 – 12:10	Keynote Talk “Lithographic Resists Challenges: EUV and Sustainability Aspects ” Panagiotis Argitis, <i>INN-NCSR Demokritos</i>	
12:10 – 12:40	Invited Talk “What is a battery?” Sotirios Athanasiou, <i>Sunlight</i>	
12:40 – 12:55	Multifunctional Visual Perception through Lead-Free Perovskite-Based Artificial Neurons P. Bousoulas, S. Orfanoudakis, C. Tsioustas, A. Galanos, N. Zacharopoulos, T. Stergiopoulos, D. Tsoukalas	Impact of Red and UV Light Illumination on the Performance of Monolayer MoS₂-Based Gas Sensors M. Kainourgiaki, I. Papadopoulou, E. Skotadis and D. Tsoukalas
12:55 – 13:10	Lead-free perovskite based memristors for low-cost IoT edge computing K. Rogdakis, M. Tountas, A. Loufardaki, K. Chatzimanolis, and E. Kymakis	Current-Matching and Performance Optimization of Tandem III-V Nanowire Solar Cells for Space Photovoltaics E. Mavrogiorgis, D. Galanis, E. Almpanis, N. Christou and N. Papanikolaou
13:10 – 13:25	Charge-Noise-Matched Benchmarking of Spin-Qubit Encodings in Si/SiGe Quantum Dots V. Skarlatos, N. Konofaos	Porous Si based micro-supercapacitors with aqueous electrolyte and large capacitive window N. Kagiara, E. Hourdakis
13:25 – 15:00	Lunch Break	

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	Central Amphitheatre	Room 5
	Session A.5: Electronic Materials and Device Characterisation Chair: F. Farmakis, E. Makarona	Session B.5: RF, MEMS and Integrated Circuits Chair: G. Konstantinidis, G. Panagopoulos
15:00 – 15:30	Invited Talk “Recent Advances on Micro-Sensors for Steel Health Monitoring” Evangelos Hristoforou, <i>National Technical University of Athens</i>	
15:30 – 15:45	Direct imaging of local ferroelectric polarization switching in HZO S. Skorda, K. Xu, P. Tsipas, O. Kolosov, A. Dimoulas, and A. El Sachat	A study of ALD AlN electrical properties for RF-MEMS capacitive switches application I. Kochylas, J. P. Martins, J. Theocharis, A. Mahjoub, E. Eustache, M. Giannouri, A. Ziaei, and G. Papaioannou
15:45 – 16:00	Advancements in the fabrication and voltage control of spin to charge interconversion in SrTiO₃ based FESO devices P. Pappas, W. Saverio Torres, P. Sgarro, A. Kandazoglou, S. Teresi, E. Vazquez, M. Martemucci, C. Damagio, I. Groen, T. Frottier, M. Culot, G. Prenat, L. Hutin, J. Brehin, M. Bibes, J.P. Attané and L. Vila	Towards a Reconfigurable Continuous-Time Analog Compute Paradigm: A Travelling-Wave Gilbert Cell Array in Open-Source 130 nm SiGe BiCMOS S. Giannakopoulos
16:00 – 16:15	Evaluating IGZO/ALD Al₂O₃ Interface Properties in TFTs Using Low-Frequency Noise Analysis T. A. Karatsori, G. Mitrousis, P. Moreira, R. Martins, M. E. Pereira and F. Farmakis	Sequential 3D Integration of Stacked GaN Layers for Compact RF Front-End Modules A. Stavrinidis, N. Makris, E. Aslanidis, A. Kostopoulos, G. Stavrinidis, K. Zoschke, H. Oppermann, P. Komninou, N. Florini and G. Konstantinidis
16:15 – 16:30	Defect landscape evolution in chemically grown p-CuO/n-ZnO heterojunctions revealed by low-frequency noise spectroscopy A. P. Kolios, N. A. Hastas, D. H. Tassis, A. Tsormpatzoglou, A. Baltas, G. P. Papagoergiou, C.T. Angelis, E. Makarona, and C. A. Dimitriadis	Diode-Based Physical Unclonable Functions: A Statistical Framework for Entropy Prediction from Electrical Parameters S. Ermeidis, S. G. Stavrinides, R. Picos, E. Makarona and D. Tassis
16:30 – 17:00	Coffee Break	
	Session A.6: Physical Sensors and Intelligent Systems Chair: D. Tassis, E. Hristoforou	Session B.6: Functional Nanomaterials and Nanostructured Surfaces Chair: Ch. Riziotis, G. Kokkoris
17:00 – 17:15	Contactless Determination of Martensitic Phase in Austenitic Steels T. Damatopoulou, A. Markoulis, N. Tsouvalis and E. Hristoforou	Bioanalytical device based on White Light Reflectance Spectroscopy for the simultaneous detection of uropathogenic bacteria at the point-of-care D. Tsounidi, D. Kourti, S. Xirou, M. Angelopoulou, S. Fournari, C. Papakitsos, L. Kantakos, S. Kontelis, V. Giannakakis, S. Kakabakos, P. Petrou, T. Papaioannou and I. Raptis
17:15 – 17:30	Infrastructure-Assisted Sensor Fusion in Urban Digital Twins: An FPGA-Based ADAS Processing Demonstrator A. Terzis and J. Mehrke	Model Sensitivity of Energy Deposition and Early Structural Response in an Ar¹³-Bombarded Cu₁₉₅Au₁₉₅ Janus-like Nanoparticle: DeepMD versus EAM D. Shyrokorad and G. V. Kornich
17:30 – 17:45	Polycrystalline 3C-SiC Membranes as a Platform for Implantable Neural Interfaces S. Korkos, M. Gavalas, K. Kampitaki, G. Deligeorgis, D. S. Tzeranis, and K. Zekentes	A Single PEO10k-b-Poly(L-histidine)6k Platform: Imidazole-Driven Conformational Control of Ion Transport, Metal Coordination, and Therapeutic Delivery I. G. Stavrakaki, C. Varfi, M. Lusha, E. Glynos, E. Liarou, A. Karantoni, D. Tzeli, E. Ntoulaki, K. Lazaridis and H. Iatrou

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Saturday October 17th, 2026

Venue: University of West Attica, Ancient Olive Grove Campus, Main Conference Centre

	Central Amphitheatre	Room 5
17:45 – 19:00	Poster Session (B)	
21:00 –	Gala Dinner St' Astra Restaurant, Radisson Blu Park Hotel, Athens	

Sunday October 18th, 2026

08:30 – 09:00	Closing Remarks
09:00 – 09:45	Scientific Networking
09:45 – 12:00	Visit to Acropolis Museum

POSTER SESSION (A)

A.1	Effect of Biphilic pattern type, size and wettability ratio on atmospheric water collection K. Taliantzis, K. Ellinas
A.2	Polyoxometalates Memories for Neuromorphic Computing F. Skendaj, E. Founta, N. Harris and D. G. Georgiadou
A.3	Thermal imprinting of single and dual scale topographies for the realization of superhydrophobic surfaces V. Christina, K. Ellinas
A.4	A bioprinting workflow for the realization of 3D architectures F. Kavalerou, K. Ellinas
A.5	A MEMS Calibrated Tensile Platform for in-situ TEM using COMSOL Validation and Raman Thermography P. Fecko, T. Manka, T. Plichta, S. Fellner, C. Gammer, R. Zahradnicek, and R. Hrdy
A.6	Mn-Doped TiO₂/FTO Electrodes with Biotin–Neutravidin Aptamer Immobilization for Electrochemical Tetracycline Detection L. G Bousiakou
A.7	Liquid–Cell TEM Chips for In Situ Electrochemical 3D Electron Diffraction K. Acharya, M. Denoual, J. Hadermann
A.8	Resolving Closely Spaced Events in Severely Degraded Signals with Deep Learning and Classical Restoration E. Boukouvala, M. Barbarosou
A.9	A Flexible Electronic Platform for Simultaneous Monitoring of Skin Conductance and Temperature E. Missiris, A. Apostolakis, D. Barmpakos and G. Kaltsas
A.10	A Low–Cost IoT Wearable Platform for Real–Time Monitoring of Pet Health, Activity and Environmental Exposure M. Mylona and G. Kaltsas
A.11	Machine–Learning–Based 3D Metrology of Lithographic Line/Space Nanostructures from SEM Images with AFM Validation A. Kondi, E.–M. Papia, V. Constantoudis, D. Park, D. Hüser and G. Dai
A.12	Machine–Learning Based Segmentation for Deposition Thickness Estimation from Top–Down SEM Images A. Kondi, E.–M. Papia, V. Constantoudis
A.13	Image–Based Estimation of Areal Rugosity from SyntheticSEM–Like Surface Renderings A. Kondi, E.–M. Papia and P. Sarkiris

POSTER SESSION (A)

A.14	Photoresponse in ZnO Photodetectors Modified with Nitrogen and Phosphorus-Doped Carbon Dots N. Ganotis, L. Arapoglou, S. N. Katsantonis, S. Gardelis, M. Bošković, D. Randjelović, E. Hourdakis, C. Tsamis
A.15	Study of Light-Induced Effects in Low Voltage IGZO TFTs with Solution-Combustion-Derived Al₂O₃ Gate Dielectrics G. Mitrousis, M. Georgas, T. A. Karatsori, P. Moreira, R. Martins, M. E. Pereira, E. Carlos and F. Farmakis
A.16	Fabrication of Sustainable Eco-Friendly Superhydrophobic Membranes via plasma treatment for membrane separation G. Stavromitrou, E. Manouras, A. Zeniou, K. Chavan, E. Gogolides
A.17	Growth of polymer/CsPbBr₃ composite thin films grown by femtosecond ultraviolet laser pulses V. Charalampidis, E. Bagiokis, I. Koutselas, A. Lorusso, M. L. De Giorgi, A. Perrone and N. A. Vainos
A.18	Plasma Patterned Paper Microfluidic Colorimetric Device for Heavy Metal Detection in Water E. Pliagkou, V. Vidali and A. Tserepi

POSTER SESSION (B)

B.1	Development and In Vitro Evaluation of Mastiha Oil-Based Cannabidiol Nanodispersions for Glioblastoma Nanotherapy D. C. Stavropoulou, O. A. Aremu, T. A. Papazaoglou, E. Mitsou, S. Mavrikou
B.2	Photo-Cross-Linked Poly(vinyl alcohol)/Ammonium Metatungstate Films for Water-Processable Antifouling Coatings S. Minadaki, E. Christogiannopoulou, A. Gkolosi, P. Petrou, P. Argitis, M. Chatzichristidi
B.3	Synthesis of (Co,Cr,Fe,Mn,Ni)₃O₄ high-entropy oxide thin films by femtosecond pulsed laser deposition A. Lorusso, V. Charalampidis, C. Triolo, M. L. De Giorgi, S. Santangelo, M. Mazzeo and N. Vainos
B.4	An analysis of hybrid photonic-plasmonic responses of silicon carbide nanopillar array K. Papachristopoulou, M. Androulidaki, K. Zekentes and N. A. Vainos
B.5	Ultra-sensitive plasmonic biosensor for rapid detection of foodborne and environmental contaminants K. Papachristopoulou, L.-M. Salapatras, Z. Orphanos, C. Stathopoulos, D. Papaioannou, and N. A. Vainos
B.6	Fabrication and Functionalization of Polymeric Nanoparticles for Versatile Electrochemical and Bioelectrical Biosensors A. Manolopoulos-Dekaristos, M. V. C. Cortés, S. Mavrikou, M. T. V. Griñán
B.7	Engineering wood functionality through controlled chemical modification with ZnO nanostructure incorporation Ch. Sperantza, G. Vekinis, S. Boyatzis, A. Pournou, and E. Makarona
B.8	Magnetic strain-gated transistors (M-SGTs) based on suspended Zinc Oxide (ZnO) nanowires A. Bardakas, A. Kaidatzis and C. Tsamis
B.9	Ambient air plasma processing of materials and interfaces incorporated in bipolar membrane water electrolyzers P. Dimitrakellis, M. Thomaidou, E. Daskalos, H. Khalid, Y. N. Regmi
B.10	Effect of geometry and conductivity of PEDOT:PSS-treated yarns on their performance as electrodes in textile-based OECTs E. Louris, P. Kontis, S. Ermeidis and D. Tassis
B.11	A compact lab-on-a-chip and portable analyzer for quantitative detection of Legionella pneumophila in water A. Outskouni, M. Gogolides, A. Stellas, P. Bouki, G. Moschonas, V. Constantoudis, A. Tserepi, E. Gogolides, K. Ellinas
B.12	Semiconductor Detectors for X-Ray Imaging: Current Trends E. Karali, C. Michail, G. Fountos, N. Kalyvas and I. Valais
B.13	Research and Development of Contaminant Metal Particles in Food Industry T. A. Karatsori, M. Georgas, G. Zardalidis, M. Moutsiou, K. Samaras, N. Tzanetakis, G. Xanthopoulos, F. Mamatsopoulou, A. Avramidis and F. Farmakis
B.14	ATtiny-Based Laser Control System for Engraving 3D-Printed Sensor Structures C. Liosis, D. N. Pagonis, T. Karakasidis and I. Sarris

POSTER SESSION (B)

B.15	Development and evaluation of a novel Nanoparticle-Based Immunosensor via EIS E. Dimitriadi, E. Skotadis, V. Dilgeridis, P.S. Petrou, and D. Tsoukalas
B.16	Plasma nanotextured PFAS-free PES membrane with enhanced flux for filtration applications G. Stavromitrou, E. Manouras, A. Zeniou, A. Sapalides, E. Gogolides
B.17	MBE-regrown, low parasitic resistance ohmic contact AlGaIn/GaN Schottky Barrier Diode for THz energy harvesting applications A. Adikimenakis, A. Stavrinidis, N. Makris, A. Kostopoulos, G. Konstantinidis, and E. Aslanidis
B.18	Engineering Polymeric Tapered Fibers for Chronically Implantable Neural Interfaces S. Aslanoglou, B. Spagnolo, C. Montinaro, A. Perna, A. Balena, M. Pisanello, F. De Nuccio, M. Kashyrina, L. Berdondini, T. Fellin, M. De Vittorio, F. Pisanello