




DAY 0

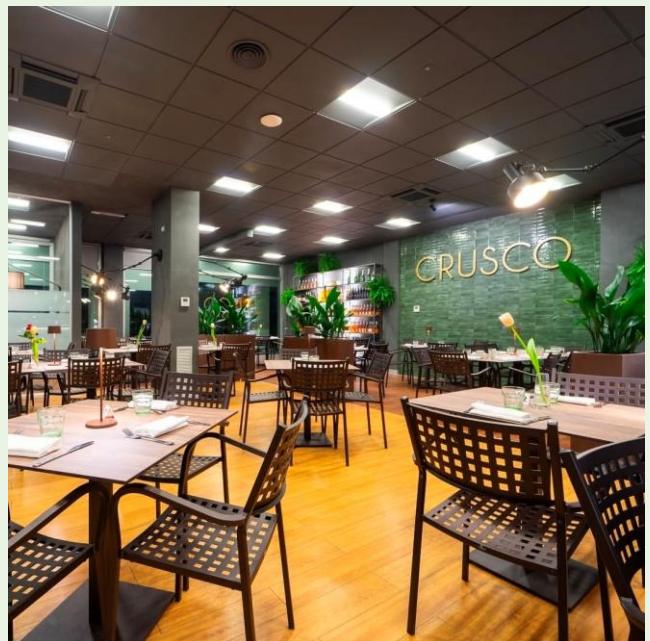
Sunday, 26 April



Welcome Cocktails & Pizza



-  Date: April 26
-  Time: 7:00 PM – 9:00 PM
-  Location: [CRUSCO](#)



For the purpose of supporting logistics for participants and guests, we have activated a HOTEL & TRANSFER booking service through the portal www.booking4calabria.com.

Thank you for your cooperation.

DAY 1

Monday, 27 April



Welcome to IMBioC 2026!

08:00 – 09:00 Aula Caldora	Registration
09:00 – 09:30 Aula Caldora	Opening Ceremony
09:30 – 10:30 Aula Caldora	Keynote Session Keynote Speaker: Professor Gianluca Lazzi University of Southern California "Bioelectromagnetics in Neurodegenerative Disease: A Roadmap for Neuronal Longevity and Restoration"



10:30 – 11:00

Coffee Break

Aula Caldora	Focus Session – Microwave imaging and diagnostics: advances in hardware solutions Chairs: Milica Popović, Simona Di Meo
11:00	Microwave Breast Imaging - Technological Evidence, Clinical Needs, Expectations: A Review <u>Angie Fasoula</u> and Luc Duchesne (MIMA Technologies PC, Greece); Michael J. Kerin (University of Galway, Ireland)
11:15	Simplified Reflection-Based Calibration for a Multistatic Microwave Imaging System <u>Alex Ramiro Masaquiza-Caliza</u> , Martina Guglielmino, David O. Rodríguez-Duarte and Francesca Vipiana (Politecnico di Torino, Italy)
11:30	Flexible Vivaldi Antennas for Estimating Breast Skin Parameters Milad Mokhtari and <u>Milica Popović</u> (McGill University, Canada)
11:45	Heart-Shaped Wideband Bow-Tie Slot Antenna for Microwave Imaging Biomedical Applications <u>Sandra Costanzo</u> and Giuseppe Di Massa (University of Calabria, Italy)
12:00	Study of Signal Interpolation in Microwave Medical Imaging Systems <u>Andrea Martínez-Lozano</u> (University Miguel Hernández of Elche, Spain); Roberto Gutierrez Mazon (University Miguel Hernández of Elche, Spain); Julia Arias-Rodríguez (University Miguel Hernández of Elche, Spain); Simona Di Meo and Marco Pasian (University of Pavia, Italy); <u>Ernesto Ávila-Navarro</u> (Miguel Hernández University, Spain)
12:15	Evaluation of Class-F Power Amplifier in Low-Field Magnetic Resonance Imaging Maik Ehses (Otto Von Guericke University, Germany); Marcus Prier (Otto Von Guericke University Magdeburg, Germany); Fabian Schneider, Friedrich König and Christof Pfannenmüller (Otto Von Guericke University, Germany); Fabian Lurz (Otto Von Guericke University Magdeburg, Germany); Holger Maune (Technische Universität Darmstadt, Germany)
12:30	Robust Variational Bayesian Inference for Full-Duplex Computational Microwave Imaging <u>Tianzhuo Yang</u> (Zhejiang University, China); Qian Zhang (ZTE Corporation, China); Ke Huang and Lixin Ran (Zhejiang University, China)
12:45	Multilayer Structures for Skin Reflection Mitigation in MBI: Comparison Among Design Methods Suleika T. Avilés (Miguel Hernández University, Spain); <u>Enrique Bronchalo</u> (Miguel Hernández University of Elche, Spain); Germán Torregrosa-Penalva (Universidad Miguel Hernández, Spain); Ernesto Ávila-Navarro (Miguel Hernández University, Spain)

13:00 – 14:30

Lunch

Location: **Aula Caldora**



Click [here](#) for maps

Sponsors & Exhibitors



DAY 1

Monday, 27 April



14:30 – 15:30 Aula Caldora	Keynote Session YP Keynote Speaker: Dr. Giulia Sacco <i>French National Center for Scientific Research</i> “From Vital Signs Sensing to Assisted Mobility: Radar Technologies to Shape the Future of Assistive and Biomedical Systems”	
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Aula Caldora	Sala Stampa
Electromagnetic Materials, Devices and Sensing for Biomedical Applications Chairs: Marta Bonato, Giovanni Buonanno	Focused Session – Young Professionals Chairs: Emily Porter, Simona Di Meo, Giacomo Paolini
15:35 Dual-Band Patch Antenna for on-Body to in-Body Applications <i>Miguel Roque Soares</i> (Fraunhofer Portugal AICOS, Portugal & Universidade de Aveiro, Portugal); <i>Daniel Albuquerque</i> (ESTGA - University of Aveiro, Portugal); <i>Filipe Sousa</i> (Fraunhofer Portugal, Portugal); <i>Pedro Pinho</i> (UA - Universidade de Aveiro & IT - Instituto de Telecomunicações, Portugal)	15:35 First Experimental Demonstration of Metasurface-Enhanced Detection of Small Scatterers Using an Open-Ended Coaxial Probe <i>Eleonora Razzicchia</i> and <i>Milad Mokhtari</i> (McGill University, Canada); <i>Rotem Gal-Katzir</i> (Tel-Aviv University, Israel); <i>Yunxiao Zhang</i> (McGill University, Canada); <i>Yarden Mazor</i> (Tel Aviv University, Israel); <i>Emily Porter</i> (McGill University, Canada & RI-MUHC, Canada)
15:50 Multiple Maxima with Identical Field Distributions but Differing Permittivity of High-Permittivity Layer <i>Giuseppe Carluccio</i> (University of Napoli Federico II, Italy); <i>Vincenzo Miranda</i> (University of Naples Federico II, Italy); <i>Christopher Collins</i> (New York University, USA); <i>Daniele Riccio</i> (University of Naples Federico II, Italy); <i>Giuseppe Ruello</i> (Università di Napoli Federico II, Italy)	15:50 Deep-Tissue Hydration Assessment Strategies: A Comparison of the RF-Based Solutions <i>Alessandra Di Florio Di Renzo</i> , <i>Simone Trovarello</i> and <i>Oumaima Afif</i> (University of Bologna, Italy); <i>Simona Di Meo</i> (University of Pavia, Italy); <i>Diego Masotti</i> (University of Bologna, Italy); <i>Marco Pasián</i> (University of Pavia, Italy); <i>Marco Tartagni</i> and <i>Alessandra Costanzo</i> (University of Bologna, Italy)
16:05 Comparison of Signal Preprocessing Variants for Machine Learning-Based CW Radar Heartbeat Detection <i>Kristina Hess</i> and <i>Frederik Vollmer</i> (Hamburg University of Technology, Germany); <i>Alexander Koelpin</i> (Hamburg University of Technology & Chair for Electronics and Sensor Systems, Germany)	16:05 A Wideband Parasitic Patch Antenna in a Rigid-Flex Thin Substrate for on-Body Communication <i>Alessandro Ficarra</i> and <i>Emanuele Cardillo</i> (University of Messina, Italy)
16:20 A Touch-Sensing Method Based on Fractal Defected Ground Microstrip Lines and Chaotic Signals <i>Xingyu Liu</i> , <i>Zhihui Wang</i> , <i>Jingyuan Huang</i> , <i>Jiayu Song</i> , <i>Xiyu Wu</i> and <i>Jiangtao Huangfu</i> (Zhejiang University, China)	16:20 Microwave Characterization of UV-Responsive Films Toward Wearable UV Sensors <i>Maziar Shafiei Darabi</i> , <i>Kathryn M. Wolfe</i> , <i>Amirhossein Yazdancherati</i> , <i>Gregory Welch</i> and <i>Zahra Abbasi</i> (University of Calgary, Canada)
16:35 In Silico Study of Magnetolectric Nanoparticles Stimulating Potential: An Innovative Approach <i>Valentina Galletta</i> (CNR - Consiglio Nazionale Delle Ricerche, Italy); <i>Marta Bonato</i> (Istituto di Elettronica e di Ingegneria dell'Informazione e Delle Telecomunicazioni IEIT CNR, Italy); <i>Giulia Caiani</i> (Politecnico di Milano, Italy & National Research Council IEIT, Italy); <i>Serena Fiocchi</i> and <i>Emma Chiaramello</i> (CNR - Consiglio Nazionale delle Ricerche, Italy)	16:35 Antenna-Based Sensing for Eye Blink Detection and Ocular Fatigue Monitoring <i>Giacomo Paolini</i> , <i>Giuseppe Castellisi</i> and <i>Diego Masotti</i> (University of Bologna, Italy); <i>Alessandra Costanzo</i> (DEI, University of Bologna, Italy)

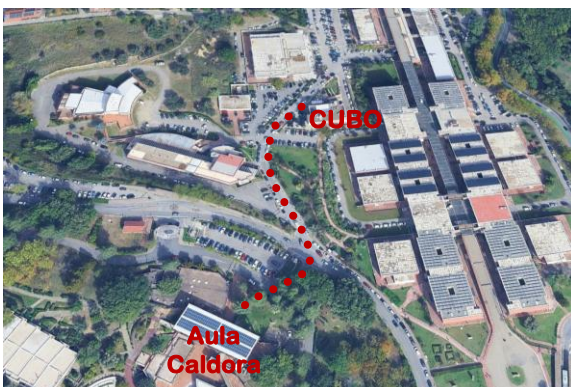
16:50 – 17:20	Coffee Break
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17:20 – 17:40 Aula Caldora	IEEE MTT-S Overview & IEEE Women in Engineering by Prof. Malgorzata Celuch
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17:40 – 18:10 Aula Caldora	Meet the Editors <ul style="list-style-type: none">• IEEE T-MTT Overview by EIC Prof. Changzhi Li• IEEE J-ERM Overview by EIC Prof. Atif Shamim
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Social Events

18:30 – 20:00	Reviewer's Reception Location: CUBO Restaurant Café (near Aula Caldora)
20:30 – 22:00	YP Social Event & YP Competition Awards Ceremony Location: CUBO Restaurant Café (near Aula Caldora)



DAY 2

Tuesday, 28 April



08:00 – 09:00
Aula Caldora
Registration

09:00 – 10:00
Aula Caldora
Keynote Session
Keynote Speaker: Professor Micaela Liberti
Sapienza University of Rome
“Bioelectromagnetics at the Interface of Modeling, Experiments, and Applications”



10:00 – 10:30
Coffee Break / Poster Session

Aula Caldora
Poster Session
Non-Invasive Diagnosis of Circulating Blood or Cardiac Inflammatory Diseases Through Microwave Technology
Sandra Costanzo and Antonio Curcio (University of Calabria, Italy); Giovanni Lopes (University of Naples Federico II, Italy)

Aula Caldora
Focus Session – Microwaves and Artificial Intelligence: A New Paradigm for Improved Biomedical Diagnostics
Chairs: Sandra Costanzo, Emily Porter

- 10:30 S-Matrix Classification Approach for Microwave Non-Invasive Blood Glucose Monitoring**
Sandra Costanzo, Antonio Curcio and [Giovanni Buonanno](#) (University of Calabria, Italy)
- 10:45 Towards a Physics-Informed Deep Learning Approach for 3D Phaseless Microscopy**
[Nicola Cuzzocrea](#) (University of Reggio Calabria, Italy); Nadia Mammone (University Mediterranea of Reggio Calabria, Italy); Cosimo Ieracitano (University of Naples Federico II, Italy); Yingying Qin and Krishna Agarwal (UIT The Arctic University of Norway, Norway); Martina Teresa Bevacqua (Università Mediterranea di Reggio Calabria, Italy)
- 11:00 Deep Learning-Based Energy-Efficient and Secure Communication in Implantable Body Sensor Networks**
[Seyed Salar Sefati](#) (National University of Science and Technology Politehnica Bucharest, Romania); Seyedeh Tina Sefati (Tabriz University, Iran)
- 11:15 A Lightweight Deep Learning for Efficient and Accurate Heart Rate Monitoring with Millimeter-Wave FMCW Radar**
[Dagmawi Negusu Menegetu](#), Federica Meringolo, Antonio Curcio and Sandra Costanzo (University of Calabria, Italy)

Aula Caldora
Focused Session – Noncontact Physiological Sensing: Clinical Pathways to Home Health
Chairs: Changzhan Gu, Chung-Tse Michael Wu

- 11:30 Machine Learning-Enabled Non-Contact Blood Pressure Estimation Using a 24 GHz FMCW Radar Sensor**
Chun-Kai Chen, Hsiu-Che Chang and Tzu-Wei Kuo (National Taiwan University, Taiwan); Kuo-Wei Chen and Chih-Hao Chen (National Taiwan University Hospital, Taiwan); [Chung-Tse Michael Wu](#) (National Taiwan University, Taiwan)
- 11:45 A Novel Biomedical Radar Approach for Non-Contact Inspiratory Flow Limitation Assessment in Natural Breathing**
[Li Wen](#) (Shanghai Jiao Tong University, China); Zhi Zhang and Jinliang Wang (Shanghai General Hospital, China); Changzhan Gu (Shanghai Jiao Tong University, China)
- 12:00 Mitigation of Random Body Movement Artifacts in Radar-Based Vital Signal Monitoring**
[Marida De Maria](#) (University of Reggio Calabria, Italy); Andrea Gargano (University of Pisa, Italy); Ilde Lorato (Imec the Netherlands, The Netherlands); Giuseppe Marrara and Giuseppe Araniti (University Mediterranea of Reggio Calabria, Italy); Graziella D'Arrigo (Istituto di Fisiologia Clinica Cnr, Italy); Patrizia Vizza (University Magna Graecia of Catanzaro, Italy); Alberto Greco (Università di Pisa, Italy); Pierangelo Veltri (University of Calabria, Italy); Enzo Pasquale Scilingo (University of Pisa, Italy); Marco Mercuri (Mediterranea University of Reggio Calabria, Italy)
- 12:15 A Radar-Based Contactless Stethoscope for Phonocardiogram Reconstruction**
Simone Pasquariello, [Giulio Montanari](#) and Marco Mura (University of Modena and Reggio Emilia, Italy); Elia Vignoli (University of Modena and Reggio Emilia & Deep Radars Srl, Italy); Giorgio Guerzoni and Pasquale Di Vestri (University of Modena and Reggio Emilia, Italy); Giorgio Matteo Vitetta (University of Modena and Reggio Emilia, USA)

Sala Stampa
Seminar – Environment and Health: risks, evidences and prevention
Chairs: Vincenzo Carrieri, Silvia Sivini

11:00-12:45
Event organized by: Center for Studies on Society, Health and Place (CSSST) in cooperation with IMBioC 2026

Welcome: Prof. Vincenzo Carrieri
Professor of Public Economics, Director of the Center for Studies on Society, Health and Place (CSSST), University of Calabria

Talk: "The Impact of the Environment and Lifestyles on Onco-Hematological Risk"
Speakers:

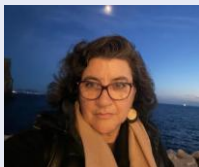

- Prof. Prof. Aurelio Angelini, *Professor of Environmental and Territorial Sociology, President of the National Committee for Education for Sustainability Agenda 2030 (UNESCO)*
- Dott.ssa Mariaclaudia Cusumano, *Professor of Environmental and Territorial Sociology, Milano-Bicocca University*

Chair: Prof. Silvia Sivini
Associate Professor of Environmental and Territorial Sociology, University of Calabria

Round Table

- Prof. Sandra Costanzo, *Professor of Electromagnetic Fields, University of Calabria*
- Prof. Nicola Pirrone, *Director, CNR Institute for Atmospheric Pollution*
- Dr. Ferdinando Laghi, *Regional Councilor and Vice President of the International Society of Doctors for the Environment (ISDE)*
- Prof. Alfonso Senatore, *Associate Professor of Hydraulic and Maritime Construction and Hydrology, University of Calabria*

12:45 – 13:15
Auditorium
Tutorial Session
Professor Sandra Costanzo
Professor Antonio Curcio
University of Calabria
“Microwave Technologies with AI Support for Biomedical Sensing and Diagnostics of Cardiovascular Diseases”

13:15 – 14:30
Lunch

DAY 2

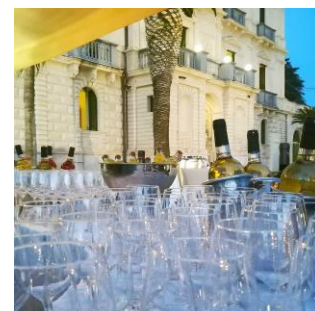
Tuesday, 28 April



Aula Caldora		Focused Session – Bioelectromagnetics and Biomedical Applications: Emerging Concepts and Technologies
		Chairs: Francesca Apollonio, Micaela Liberti
14:30	Selected Radiated Microwaves for Staphylococcus Aureus Inactivation <u>Alessandro Filisetti</u> (Elettronica S.p.A., Italy); Margherita Losardo (ELT, Italy); Pietro Bia (Elettronica Group, Italy); Antonio Manna (Elettronica SpA, Italy)	
14:45	Deep Learning-Based Prediction of Pulsed Electric Field and Biological Parameters from in Vitro Experiments Nicolò Colistra and Arianna Casciati (ENEA, Division of Biotechnologies, Italy); Simone Samperna (ENEA, Italy); Raffaele Crusi (University of Salento, Italy); Francesca Camera and Mirella Tanori (ENEA, Division of Biotechnologies, Italy); <u>Luciano Tarricone</u> (University of Salento, Italy); Caterina Merla (ENEA, Division of Biotechnologies, Italy); Marco Zappatore (University of Salento, Italy)	
15:00	Subcellular Microdosimetry in a Virtual 3D HaCaT Cell Exposed to 26.5 GHz Millimeter Waves Sara Fontana (Sapienza University, Italy); Noemi Dolciotti (Sapienza University of Rome, Italy); Giulia Renna (Sapienza, University of Rome, Italy); Anna Sannino (CNR, Italy); Gianmarco Ronza (University of Campania Luigi Vanvitelli, Italy & Institute for Electromagnetic Sensing of Environment (IREA) - National Research Council (CNR), Italy); Stefania Romeo (National Research Council - Institute for Electromagnetic Sensing of the Environment (IREA), Italy); Olga Zeni and Maria Rosaria Scarfi (CNR, Italy); Francesca Apollonio (ICeMB at Sapienza, University of Rome, Italy); Micaela Liberti (ICeMB at Sapienza University of Rome, Italy)	
15:15	Exploring RF-EMF Effects on the TRPV4 Ion Channel Across Legacy and mmWave Frequencies: A Molecular Dynamics Study <u>Carmen Pisano</u> (Sapienza University of Rome, Italy); Laura Caramazza (Sapienza University of Rome & CLN25 at Sapienza, Fondazione Istituto Italiano di Tecnologia, Rome, Italy); Paolo Marracino (Rise Technology S. R. L. Rome, Italy); Federico Del Signore (Sapienza University of Rome, Italy); Micaela Liberti (ICeMB at Sapienza University of Rome, Italy); Francesca Apollonio (ICeMB at Sapienza, University of Rome, Italy)	
15:30	Toward Clinical Assessment of Bladder Filling: Comparative Study of 1D and 2D Vivaldi Arrays <u>Alan Poisot Palacios</u> and Cameron Jeffery (McGill University, Canada); Andrew T Fry (University of Texas, USA); Emily Porter (McGill University, Canada & RI-MUHC, Canada); Eleonora Razzicchia (McGill University, Canada)	
15:45	Magnetolectric Nanochains in NGC Hydrogels: Computational Framework for Wireless Nerve Regeneration <u>Marta Bonato</u> (Istituto di Elettronica e di Ingegneria dell'Informazione e Delle Telecomunicazioni IEIIT CNR, Italy); Valentina Galletta (CNR - Consiglio Nazionale Delle Ricerche, Italy); Emma Chiaramello and Serena Fiocchi (CNR - Consiglio Nazionale delle Ricerche, Italy); Marta Parazzini (CNR Consiglio Nazionale Delle Ricerche, Italy)	
16:00	Mitigating Misalignment of Excitation Sources in Low-Frequency Mammography Ghazaleh Tashtarian, Hamid Akbari-Chelaresi, Mauricio Hernandez and Farzan Mirshekari (University of Waterloo, Canada); Ahad Tavakoli (Amirkabir University of Technology, Iran); <u>Omar Ramahi</u> (University of Waterloo, Canada)	

Social Events

17:30 – 20:00	Social Tour Location: Cosenza Historic Center & Norman-Swabian Castle
20:30 – 24:00	Conference Dinner Location: Villa Rendano (Historic Residence)




DAY 3

Wednesday, 29 April




08:00 – 09:00
Aula Caldora
Registration

09:00 – 10:00
Aula Caldora
Keynote Session
Keynote Speaker: Professor Atif Shamim
King Abdullah University of Science and Technology
“Wearable Biomedical Sensor Systems for Remote Health Monitoring”



10:00 – 10:30
Aula Caldora
Tutorial Session
Professor Changzhan Gu
Shanghai Jiao Tong University
“Microwave Biomedical Radar for Healthcare Applications”



10:30 – 11:00 Coffee Break

Aula Caldora Focus Session – Latest Technologies and Applications of Biomedical Microwave and mmWave Radars
Chairs: Emanuele Cardillo, Changzhan Gu

11:00	An Insight into 3D Micro-Doppler Signature for Human Gait Analysis <i>Fabrizio Lorenzo Carcione</i> (University of Messina, Italy); <i>Paolo Brasiliano</i> and <i>Elena Bergamini</i> (University of Bergamo, Italy); <i>Emanuele Cardillo</i> (Università di Messina, Italy)
11:15	Low-Cost Contactless Vital Signs Monitoring Using 24 GHz Continuous Wave Doppler Radars <i>Marco Mura</i> , <i>Giorgio Guerzoni</i> and <i>Giulio Montanari</i> (University of Modena and Reggio Emilia, Italy); <i>Ella Vignoli</i> (University of Modena and Reggio Emilia & Deep Radars Srl, Italy); <i>Pasquale Di Viesti</i> (University of Modena and Reggio Emilia, Italy); <i>Giorgio Matteo Vitetta</i> (University of Modena and Reggio Emilia, USA)
11:30	Breathing Rate Estimation from Data Fusion of Multiple Elevated and Tilted FMCW Radars <i>Mareike Wendelmuth</i> , <i>Alexander Yarovoy</i> and <i>Francesco Fioranelli</i> (TU Delft, The Netherlands)
11:45	Contactless Detection of Paroxysmal Atrial Fibrillation in Stroke Patients Based on Bayes Probability Model with Microwave Biomedical Radar <i>Jie Cao</i> and <i>Li Wen</i> (Shanghai Jiao Tong University, China); <i>Liling Wang</i> (Renji Hospital, Shanghai Jiao Tong University School of Medicine, China); <i>Changzhan Gu</i> (Shanghai Jiao Tong University, China)
12:00	Computationally Efficient OFDM Subcarrier Selection for Robust WiFi Respiration Sensing <i>Emily Lei</i> (University of Hawaii System, USA); <i>Jannatun Noor Sameera</i> , <i>Victor Manuel Lubecke</i> and <i>Olga Boric-Lubecke</i> (University of Hawaii at Manoa, USA)

Aula Caldora RF and Contactless Technologies for Biomedical Systems
Chairs: Changzhi Li, Marco Mercuri

12:20	Towards Real-Time and Energy-Efficient Inductive Wireless Power Transfer <i>Giorgio Molinaro</i> (IMEC, Belgium); <i>Carmine Garripoli</i> (Analog Devices Inc., USA); <i>Jesse Pasterkamp</i> (Imec, The Netherlands); <i>Doğukan Barkan</i> (ASML, The Netherlands); <i>Shrishail Patki</i> (imec / Holst Centre, The Netherlands); <i>Tom Torfs</i> (IMEC, Belgium); <i>Felice Crupi</i> (Via Pietro Bucci 42C, Italy); <i>Stefano Stanzone</i> (Imec, The Netherlands); <i>Marco Mercuri</i> (Mediterranea University of Reggio Calabria, Italy)
12:35	In Silico Study of Resonant Magnetolectric Micro-Transducers for Implantable Magnetic Sensing <i>Giulia Caiani</i> (Politecnico di Milano, Italy & National Research Council IIEIT, Italy); <i>Valentina Galletta</i> (CNR - Consiglio Nazionale Delle Ricerche, Italy); <i>Marta Bonato</i> (Istituto di Elettronica e di Ingegneria dell'Informazione e Delle Telecomunicazioni IEIT CNR, Italy); <i>Emma Chiaramello</i> and <i>Serena Fiocchi</i> (CNR - Consiglio Nazionale delle Ricerche, Italy)
12:50	Kinetic-NFC: NFC Compatible Tag Motion Recognition Method <i>Jingyuan Huang</i> , <i>Xingyu Liu</i> , <i>Zhihui Wang</i> , <i>Yingzhou Chen</i> , <i>Zihe Cheng</i> and <i>Jiangtao Huangfu</i> (Zhejiang University, China)

Sala Stampa Focus Session – ICeMB (Italian National Inter-University Research Center on the Interactions between Electromagnetic Fields and Biosystems) (Part I)
Chairs: Sandra Costanzo, Francesca Apollonio

12:20	Characterization of Phantoms and Antennas for Microwave Hyperthermia <i>Matteo Bruno Lodi</i> , <i>Giorgia Deiana</i> , <i>Marco Murgia</i> , <i>Gabriele Atzeni</i> , <i>Giuseppe Mazzarella</i> and <i>Alessandro Fanti</i> (University of Cagliari, Italy)
12:35	Design and Characterization of a Novel RF Exposure System for Real-Time Live Cell Imaging Under Confocal Microscopy <i>Fulvio Schettino</i> and <i>Gaetano Chirico</i> (University of Cassino and Southern Lazio, Italy); <i>Daniele Pinchera</i> (University of Cassino, Italy); <i>Valentina Peluso</i> (Institute for Electromagnetic Sensing of the Environment IREA, Italy); <i>Anna Sannino</i> and <i>Olga Zeni</i> (CNR, Italy)
12:50	Experimental and Computational Study on Human Exposure Assessment at mmWaves <i>Francesca Lodato</i> (University of Naples Federico II, Italy); <i>Pierpaolo Salvo</i> , <i>Marcello Folli</i> , <i>Simona Valbonesi</i> and <i>Andrea Garzia</i> (Fondazione Ugo Bordoni, Italy); <i>Giuseppe Ruello</i> (University of Naples, Italy); <i>Riccardo Suman</i> (Vodafone Italy, Italy); <i>Massimo Perobelli</i> (Vodafone Servizi e Tecnologie, Mobile Access Engineering, Italy); <i>Rita Massa</i> (University of Napoli, Italy); <i>Antonio Iodice</i> (Università di Napoli Federico II, Italy)

13:10 – 14:30 Lunch

Special Issue on IEEE J-ERM (Click here for the Call for Papers)

Authors of accepted contributions are encouraged to submit an extended version of their paper to the Special Issue titled “Fields and Waves for Biomedical Applications: Emerging Directions in Electromagnetics Research” in the IEEE Journal of Electromagnetics, RF and Microwaves in Medicine and Biology – **Deadline June 1st, 2026**

DAY 3

Wednesday, 29 April



Aula Caldora		Focus Session – ICEmB (Italian National Inter-University Research Center on the Interactions between Electromagnetic Fields and Biosystems) (Part II)
		Chairs: Francesca Apollonio, Sandra Costanzo
14:30	Effect of Dipole Length on the Design and Performance of High Permittivity Materials in 7 T MRI <i>Vincenzo Miranda</i> (University of Naples Federico II, Italy); <i>Giuseppe Carluccio</i> (University of Napoli Federico II, Italy); <i>Giuseppe Ruello</i> (Università di Napoli Federico II, Italy); <i>Daniele Riccio</i> (University of Naples Federico II, Italy); <i>Riccardo Lattanzi</i> (NYU Grossman School of Medicine, USA)	
14:45	Design and Optimization of a Waveguide Applicator for Cell Cultures Exposure in the FR1 Band of 5G Signals <i>Stefania Romeo</i> (National Research Council - Institute for Electromagnetic Sensing of the Environment (IREA), Italy); <i>Olga Zeni</i> and <i>Anna Sannino</i> (CNR, Italy); <i>Micaela Liberti</i> (ICEMB at Sapienza University of Rome, Italy); <i>Francesca Apollonio</i> (ICEMB at Sapienza, University of Rome, Italy); <i>Alessandra Paffi</i> (Sapienza University of Rome, Italy); <i>Maria Rosaria Scarfi</i> (CNR, Italy)	
15:00	Layer-Dependent Electromagnetic Field and Power Deposition in Bacillus Anthracis Spores: An Image-Based Study at 2.45 GHz <i>Amir Ghassabi</i> and <i>Martina Persechino</i> (Sapienza University of Rome, Italy); <i>Shivangi Shukla</i> (Cardiff University, United Kingdom (Great Britain)); <i>Micaela Liberti</i> (ICEMB at Sapienza University of Rome, Italy); <i>Francesca Apollonio</i> (ICEMB at Sapienza, University of Rome, Italy); <i>Catrin F Williams</i> and <i>Heungjae Choi</i> (Cardiff University, United Kingdom (Great Britain))	
15:15	Numerical Assessment of Electric Field Distribution in Planar and Realistic Skin Models at 24 GHz <i>Noemi Dolciotti</i> and <i>Alessandra Conforti</i> (Sapienza University of Rome, Italy); <i>Micol Colella</i> (La Sapienza University of Rome, Italy); <i>Ilaria Barbieri</i> (Sapienza University of Rome, Italy); <i>Francesca Apollonio</i> (ICEMB at Sapienza, University of Rome, Italy); <i>Micaela Liberti</i> (ICEMB at Sapienza University of Rome, Italy)	
15:30	Microwave Hyperthermia Treatment Planning via Combination of Focused Patterns and Low-Dimensional Global Optimization <i>Sabrina Zumbo</i> , <i>Tommaso Isernia</i> and <i>Martina Teresa Bevacqua</i> (University Mediterranea of Reggio Calabria, Italy)	
15:45	Millimeter-Waves for Breast Cancer Detection: State-of-the-Art and Perspectives <i>Simona Di Meo</i> , <i>Giulia Matrone</i> , <i>Marco Pasián</i> (University of Pavia, Italy)	



Closing & Best Student Paper Awards Ceremony

16:00 – 17:00, Aula Caldora

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