

SMART MOBILITY

DECEMBER 14 2022, 09.00 - 10.30
AULA MAGNA "SANTO MAZZARINO"

FLAGSHIP ACTIONS OVERVIEW

Filippo di Giovanni, STMicroelectronics, Catania
Gaetano Palumbo, Università di Catania 09.00-09.30

ADVANCED PROCESSING FOR E-MOBILITY POWER DEVICES

Francesco La Via, CNR 09.30-09.45

SOLUM – SOLUTIONS FOR MOBILITY

Antonio Astuti, Meridionale Impianti 09.45-10.00

SMART MOBILITY AND BEYOND (SUSTAINABILITY, SAFETY AND MANAGEMENT)

Gaetano Bosurgi, Università di Messina 10.00-10.15
FROM NOVEL DEVICES TO SMART POWER SYSTEMS FOR E-MOBILITY ERA

Costantino Giaconia, Università di Palermo 10.15-10.30

COFFEE BREAK

10.30 - 11.15, CHIOSTRO DI LEVANTE

ROUTE 2 INNOVATION

DECEMBER 14 2022, 11.15 - 12.30
AULA MAGNA "SANTO MAZZARINO"

FLAGSHIP ACTIONS OVERVIEW

Emilia Garito, Quantum Leap 11.15-11.30

IP LCM AND VALUE CREATION: TRANSLATING SCIENTIFIC SOLUTIONS INTO MARKET OPPORTUNITIES

Francesca Tosato, Quantum Leap 11.30-11.45

GO-TO-MARKET: THE ROLE OF THE DISTRETTO TECNOLOGICO SICILIA MICRO E NANO SISTEMI

Filippo D'Arpa 11.45-12.00

GO-TO-MARKET: THE ROLE OF THE PARCO SCIENTIFICO E TECNOLOGICO DELLA SICILIA

Sebastiano Di Stefano 12.00-12.15

CLOSING ROUND TABLE

DECEMBER 14 2022, 12.30 - 13.30
AULA MAGNA "SANTO MAZZARINO"

WRAP-UP WITH STAKEHOLDERS AND "CALL FOR IDEAS" FOR CASCADE CALLS

Salvo Baglio, Università di Catania
Mario Paparo, Fondazione SAMOTRACE
Scientific Committee 12.30-13.30

ENVIRONMENT

DECEMBER 14 2022, 09.00 - 10.30
AULA "CORO DI NOTTE"

FLAGSHIP ACTIONS OVERVIEW

Francesca D'Anna, Università di Palermo
Giuliana Impellizzeri, CNR-IMM, Catania 09.00-09.15

ADVANCED SENSORS FOR MONITORING OF AIR POLLUTANTS

Nunzio Tuccitto, Università di Catania 9.15-9.30

DEVELOPMENT OF SENSORS FOR WATER MONITORING

Giovanni Neri, Università di Messina 9.30-9.45

MICROREACTORS FOR AN EFFICIENT DEGRADATION OF WATER POLLUTANTS

Marianna Bellardita, Università di Palermo 9.45-10.00

SOFT AND HARD MATERIALS FOR ADSORPTION AND DEGRADATION OF WATER CONTAMINANTS

Massimo Zimbone, CNR-IMM 10.00-10.15

DEVELOPMENT OF SENSORS FOR MONITORING EARTHQUAKES AND ERUPTIONS, AND PREVENTING ASSOCIATE RISKS

Alessandro Bonaccorso, INGV 10.15-10.30

COFFEE BREAK

10.30 - 11.15, CHIOSTRO DI LEVANTE

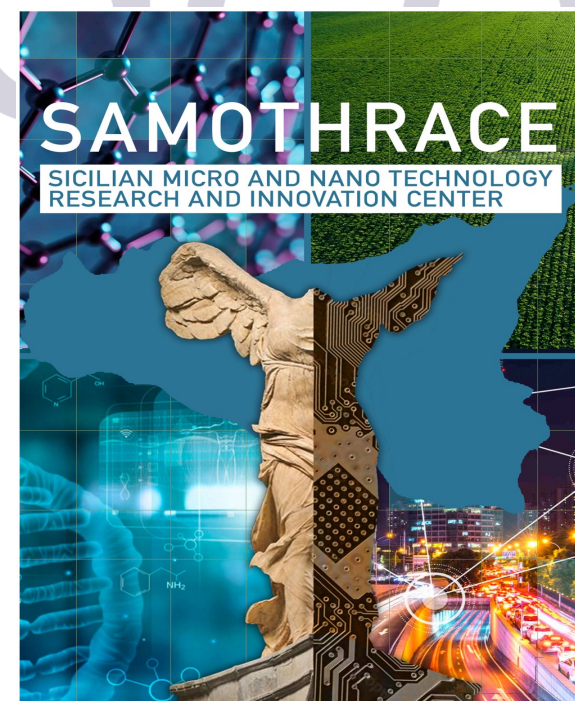
SAMOTRACE – The Ecosystem



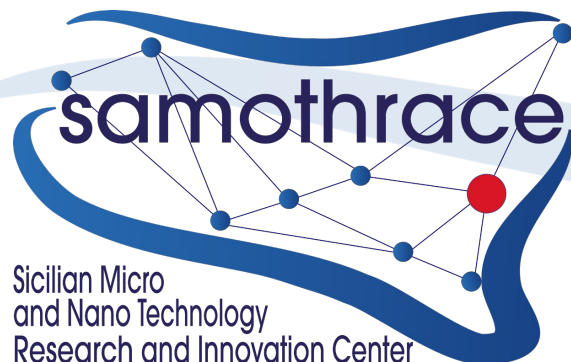
KICK-OFF MEETING

Catania, December 13-14, 2022

Monastero dei Benedettini



www.samothrace.eu



Sicilian Micro
and Nano Technology
Research and Innovation Center

OPENING CEREMONY

DECEMBER 13 2022, 10.30 – 12.30
AULA MAGNA “SANTO MAZZARINO”

WELCOME ADDRESS

Francesco Priolo, Rettore, Università di Catania
Marina Paino, Direttore DISUM, Università di Catania
Salvatore Cuzzocrea, Rettore, Università di Messina
Massimo Midiri, Rettore, Università di Palermo 10.30-11.00

SAMOTHRACE - THE ECOSYSTEM

Presidente: Salvo Baglio, Presidente Fondazione SAMOTHRACE,
Università di Catania
Mario Paparo, Program and Scientific Manager, Fondazione SAMOTHRACE
Fabrizio Cobis, Ministero Università e Ricerca

Spoke 1: Salvo Mirabella, Università di Catania
Spoke 2: Salvatore Cuzzocrea, Università di Messina
Spoke 3: Delia Chillura Martino, Università di Palermo
Spoke 4: Vittorio Privitera, CNR-IMM Catania
Spoke 5: Salvo Tudisco, INFN-LNS, Catania
Spoke 6: Nunzio Abbate, STMicroelectronics
Spoke 7: Antonio Astuti, Meridionale Impianti
Spoke 8: Cesare Scardulla, UPMC
Spoke 9: Francesca Tosato, Quantum Leap 11.00-12.30

LIGHT LUNCH

12.30 - 14.00, CHIOSTRO DI LEVANTE

HEALTH

DECEMBER 13 2022, 14.00 -15.30
AULA MAGNA “SANTO MAZZARINO”

HEALTH FLAGSHIP ACTIONS – OVERVIEW

Sabrina Conoci, Università di Messina
Cesare Scardulla, University Pittsburg Medical Center 14.00-14.15

TELEMEDICINE: SOCIAL/CLINICAL NEEDS AND SOLUTIONS

Gennaro Martucci – University Pittsburg Medical Center 14.15-14.30

INNOVATIVE BIOSENSORS FOR DIAGNOSTICS AND NANOSYSTEMS FOR OTHER HEALTH APPLICATIONS

Silvia Scalese – CNR 14.30-14.45

NEW WEARABLE DEVICES FOR CLINICAL MONITORING

Luca Guarnera – Università di Catania 14.45-15.00

NEW PERSPECTIVES IN WEARABLE TECHNOLOGIES

Cristiano De Marchis – Università di Messina 15.00-15.15

NEW TECHNOLOGIES AND DEVICES FOR ADVANCED

RADIOTHERAPY AND IMAGING

Pablo Cirrone – INFN 15.15-15.30

COFFEE BREAK

15.30 - 16.15, CHIOSTRO DI LEVANTE

CULTURAL HERITAGE

DECEMBER 13 2022, 16.15 -17.45
AULA MAGNA “SANTO MAZZARINO”

FLAGSHIP ACTIONS OVERVIEW

Delia Chillura Martino, Università di Palermo
Anna Gueli, Università di Catania 16.15-16.30

MICRO- AND NANO- SCALE DIAGNOSTICS METHODOLOGIES AND PROCEDURES

Valentina Venuti, Università di Messina 16.30-16.40

INNOVATIVE SENSORS AND MEASUREMENT SYSTEMS FOR ARTIFACTS CONSERVATION AND FRUITION

Carlo Trigona, Università di Catania 16.40-16.50

HISTORICAL BUILDINGS: DIAGNOSTICS AND ANALYSES OF DETERIORATION PROCESSES AND VULNERABILITY

Mariangela Liuzzo, Università KORE di Enna 16.50-17.00

NEW MATERIALS AND SUSTAINABLE TECHNOLOGIES FOR THE PRESERVATION AND RESTORATION OF ARTIFACTS AND RELICS

Maria Antonietta Buccheri, CNR 17.00-17.10

E-MUSEUM AND META-MUSEUM: DEVICES AND TECHNOLOGIES FOR THE CREATION OF CUSTOMIZED MUSEUMS AND DATABASE

Vita Maria Trapani, Università di Palermo 17.10-17.20

SAMOTHRACE FOR ARCHAEOLOGY, ART AND HISTORY: CASE STUDIES

Simona Venera Todaro, Università di Catania 17.20-17.30

ENERGY

DECEMBER 13 2022, 14.00 -15.30
AULA “CORO DI NOTTE”

MAIN TOPICS: PRODUCTION, ACCUMULATION AND CONVERSION EFFICIENCY

David Mascali, INFN
Sebastiano Campagna, Università di Messina 14.00-14.15

INNOVATIVE METHODS AND DEVICES FOR MONITORING LIGHTING PARAMETERS IN INDOOR ENVIRONMENTS EQUIPPED WITH DAYLIGHT-LINKED CONTROL SYSTEM

Marina Bonomolo, Università di Palermo
NEW GENERATION SOLAR CELLS 14.15-14.30

Alessandra Alberti, CNR-IMM 14.30-14.45

SENSORS, MICROBEAMS AND NANOSTRUCTURES FOR FUSION REACTIONS AND POWER

Giuseppe Torrisi, INFN-LNS 14.45-15.00

WBG POWER ELECTRONIC MODULES FOR ENERGY PRODUCTION

Mario Cacciato, Università di Catania 15.00-15.15

MATERIALS AND SYSTEMS FOR ENERGY HARVESTING: THE THERMOCHEMICAL HEAT STORAGE ROUTE

Emanuela Mastronardo, Università di Messina 15.15-15.30

COFFEE BREAK

15.30 - 16.15, CHIOSTRO DI LEVANTE

PRECISION AGRICULTURE

DECEMBER 13 2022, 16.15 – 17.45
AULA “CORO DI NOTTE”

INTRODUCTION TO THE SCIENTIFIC PILLAR

Simona Consoli, Università di Catania
Sebania Libertino, CNR - IMM 16.15-16.30

SUSTAINABLE MANAGEMENT OF NATURAL RESOURCES IN AGRICULTURE

Domenico Longo, Università di Catania 16.30 -16.45

SMART SENSING OF IRRIGATION WATER

Daniela Iannazzo, Università di Messina 16.45 -17.00

NANOTECHNOLOGIES FOR PLANT NUTRITION AND PROTECTION

Maria Miritello, CNR 17.00 -17.15

PLANT HEALTH MONITORING

Salvatore Davino, Università di Palermo 17.15 -17.30

DATA MANAGEMENT FOR PRECISION AGRICULTURE

Giovanni Marsella, INFN 17.30 -17.45