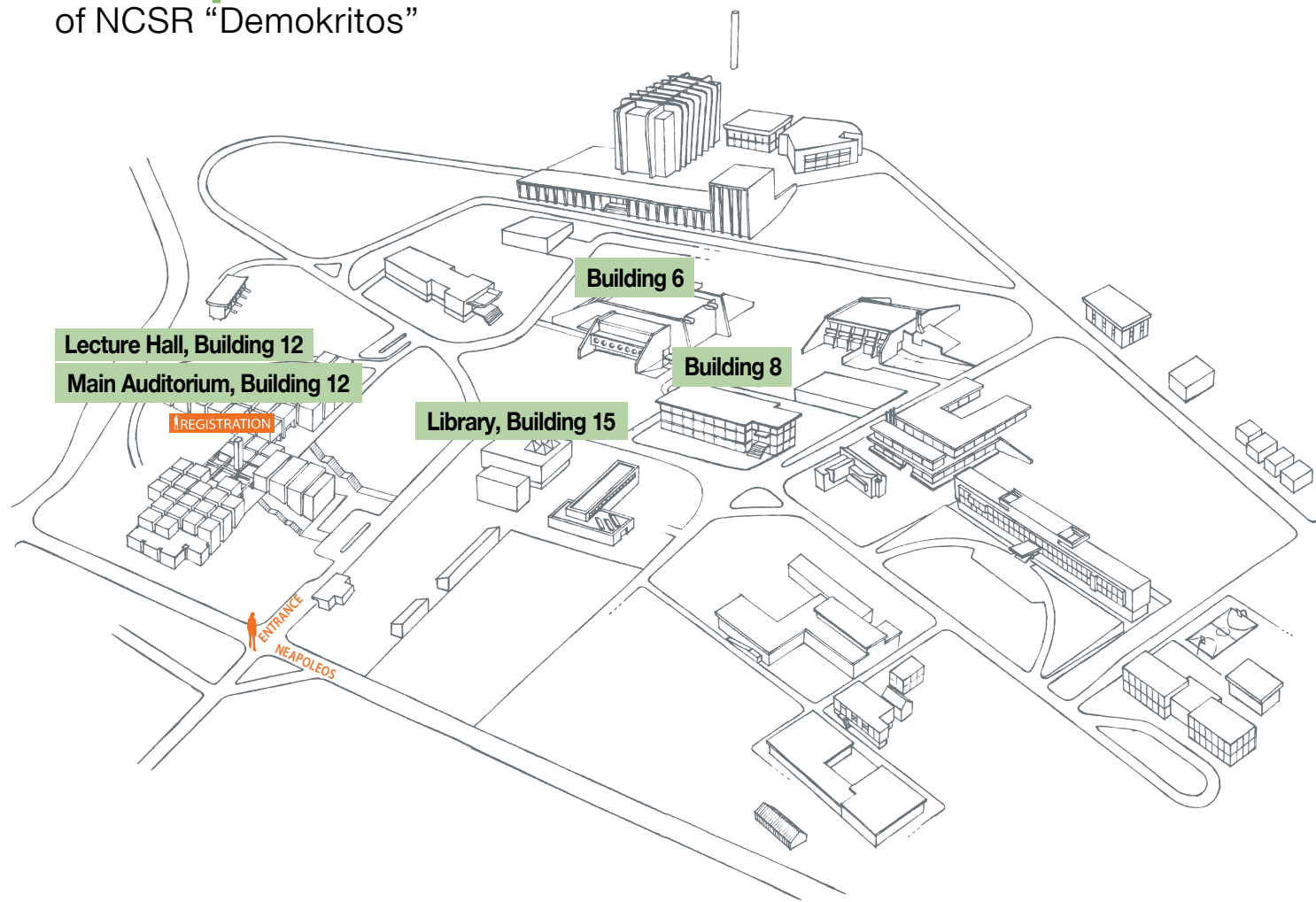


Campus

of NCSR “Demokritos”



DEMOKRITOS
NATIONAL CENTRE FOR SCIENTIFIC RESEARCH

AG EN DA

5th

HELLENIC FORUM

FOR SCIENCE
TECHNOLOGY
AND INNOVATION

July 5-7, 2017
Athens, Greece



Patr. Gregoriou E' & 27, Neapoleos str.,
153 41, Agia Paraskevi, Greece
website: www.demokritos.gr


HELLENIC REPUBLIC
MINISTRY OF FOREIGN AFFAIRS
Under the auspices of the Hellenic Ministry of Foreign Affairs

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Converging Technologies Keynote Lectures

MAIN AUDITORIUM, BUILDING 12

10:00-10:30

Welcome Remarks

Dr. Georgios Nounesis, Director, President of the Board, *NCSR Demokritos*, Greece
Dr. Constantinos Spyropoulos, Scientific Organizing Committee Chair, *NCSR Demokritos*, Greece

10:30-11:30

Defect engineering strategies in energy and electronic materials

Prof. Alexander Chroneos, Faculty of Engineering, Environment and Computing, *Coventry University*, UK
CHAIR: Dr. Constantinos Giannakopoulos, INN, *NCSR Demokritos*, Greece

11.30-12.30

The Importance of Large Physics Research Infrastructure for Technology and Innovation

Prof. Emmanuel Tsesmelis, Head of Associate Member and Non-Member State Relations, *CERN*, Switzerland
CHAIR: Dr. Constantinos Papadopoulos, INPP, *NCSR Demokritos*, Greece

Lunch Break

13:30-14:30

Engineering in the Era of Convergence: The 4th Industrial Revolution

Prof. Yannis C. Yortsos, Dean of Viterbi Engineering School, *USC*, USA
CHAIR: Dr. Athanasios Stubos, INRASTES, *NCSR Demokritos*, Greece

19:00-21:00

Opening
of the 5th Hellenic Forum

Industrial Research
Fellowship Program

Stavros Niarchos Foundation

MAIN AUDITORIUM, BUILDING 12

Parallel Workshops

Integrated, Innovative Renewable Energy –
Hydrogen Systems and Applications

LECTURE HALL, BUILDING 12

CHAIR: Dr. A. Stubos, INRASTES, *NCSR Demokritos*, Greece

14.30 – 14.40

Welcome address

Dr. Athanasios Stubos, INRASTES, *NCSR Demokritos*, Greece

14.40 – 15.00

How Technology is Innovating the Oil & Gas Sector

Dr. Spyros Kiartzis, *Hellenic Petroleum S.A.*, Greece

15.00 – 15.30

Prospects for Fuel Cell and Hydrogen Technologies in Transport
& Mobility

Dr. Despoina Chatzikyriakou – Mr. Ioannis Montinos
TOYOTA EUROPE, Belgium

15.30 – 16.00

Conversion of the Tyrolian Energy System Based on the Example
Demo4Grid

Dr. Ernst Fleischhacker – Mr. N. Fleischhacker
Green Energy Center Europe, Austria

Coffee Break

16.30 – 16.50

The FCH JU Regions & Cities Initiative

Dr. Athanasios Stubos, INRASTES, *NCSR Demokritos*, Greece

16.50 – 17.00

FCH Technologies: Potential large implementation projects
in Greece

Prof. George Marnellos, *University of Western Macedonia*, Greece

17.00 – 17.20

Solar fuels production via high-temperature processes

Dr. Christos Agrafiotis, German Aerospace Center (DLR),
Institute of Solar Research, Germany

17.20 – 17.35

Helbio SA: An Innovative Technology in Hydrogen & Fuel Cell
based Energy Systems

Ms. Stella Boura, *HELBIO SA*, Greece

17.35 – 17.50

Hydrogen compression and storage through a Metal Hydride
based Compressor

Dr. George Tzamalīs, *HYSTORE TECHNOLOGIES*, Cyprus

17.50 – 18.00

Benchmark Analysis & pre-feasibility study for the market
penetration of Metal Hydride Hydrogen Compressors

Dr. Emmanuel Stamatakis, *NCSR Demokritos*, Greece

Open Innovation-Open software
and hardware

BUILDING 6

CHAIR: Mr. M. Barone, INPP, *NCSR Demokritos*, Greece

14.30 – 14.45

Session Open

14.45 – 15.00

Session open talk

Mr. Michele Barone
Industrial Liaison and Technology Transfer Officer for Greece at
CERN, INPP, *NCSR Demokritos*, Greece

15.00 – 15.15

Why we do tech transfer and the power to take physics
to the community

Mr. Ian Tracey, KTN, London - *HepTech Secretary General*, UK

15.15 – 15.30

The theory of Open Innovation

Mr. Jean Marie LeGoff, *HepTech Network @CERN*

15.30 – 16.00

Where is the money, Public, Private, why governments
give grants.

Mr. Ian Tracey, KTN, London - *HepTech Secretary General*, UK

Coffee Break

16.30 – 16.45

Pitch comp

16.45 – 17.15

Open software and hardware examples

Mr. Jean Marie LeGoff, *HepTech Network @CERN*

17.15 – 17.30

Examples

Mr. Michele Barone
Industrial Liaison and Technology Transfer Officer for Greece at
CERN, INPP, *NCSR Demokritos*, Greece

17.30 – 18.00

Open Biz model examples, case study and workshop

Mr. Ian Tracey, KTN, London - *HepTech Secretary General*, UK

Nanomedicine: The present and future
in personalized therapy

BUILDING 8

CHAIR: Dr. E. Efthimiadou & Dr. P. Neofytou, *NCSR Demokritos*, Greece

14.30 – 14.40

Welcome Address

Dr. Panagiotis Neofytou & Dr. Eleni Efthimiadou,
NCSR Demokritos, Greece

14.40 – 15.00

Nanotheranostic materials for cancer therapy and
diagnosis

Dr. Eleni K. Efthimiadou, *NCSR Demokritos*, Greece

15.00 – 15.30

Radiolabeled nanoparticles as dual-modality imaging
agents

Dr. Penelope Bouziotis, *NCSR Demokritos*, Greece

15.30 – 16.00

Repurposing common anti-fibrotic drugs to improve
efficacy of cancer nanomedicines

Dr. Triantafyllos Stylianopoulos, *Department of Mechanical and
Manufacturing Engineering*, Cyprus

Coffee Break

16.30 – 17.00

In vivo toxicological study of nanomaterials

Dr. Paul Lelovas, School of Medicine, *National and Kapodistrian
University of Athens*, Greece

17.00 – 17.20

Towards in silico trials of therapeutic nanoparticles

Dr. Panagiotis Neofytou, *NCSR Demokritos*, Greece

17.20-18.00

In silico testing methods for assessing magnetic
hyperthermia

Dr. Daniel Ortega, *Institute of IMDEA Nanoscience*, Spain

Converging Technologies Keynote Lectures

MAIN AUDITORIUM, BUILDING 12

10:00-11:00

Unraveling Art and Archaeology mysteries using Ion beam analysis

Dr. Thomas Calligaro, Senior Researcher, Centre de Recherche et de Restauration des Musées de France, France

CHAIR: Dr. Anastasios Lagoyannis, INPP, NCSR Demokritos, Greece

11:00-12:00

From Solar Energy to Green Mobility

Dr. Christos Agrafiotis, Researcher, Institute of Solar Research, German Aerospace Center (DLR), Germany

CHAIR: Dr. Athanasios Stubos, INRASTES, NCSR Demokritos, Greece

12.00-13.00

Current mass-manufacturing challenges in integrated Lab-on-Chip devices and the Lab-on-PCB concept

Dr. Despina Moschou, 50th anniversary Prize Fellow / Lecturer, University of Bath, UK

CHAIR: Dr. Panagiota Petrou, INRASTES, NCSR Demokritos, Greece

Lunch Break

Parallel Workshops

Modern trends in magnetism and superconductivity

BUILDING 6

CHAIR: Dr. I. Sanakis, INN, NCSR Demokritos, Greece

14:30-14:35

Welcome address

Dr. Michael Pissas & Dr. Ioannis Sanakis

INN, NCSR Demokritos, Greece

14:35-15:05

Present & Future of Magnetic Materials

Dr. Dimitris Niarchos, INN, NCSR Demokritos, Greece

15:05-15:30

AC Response of the Bi2Sr2CaCu2O8 Superconductor

Dr. Michael Pissas, INN, NCSR Demokritos, Greece

15:30-16:00

Ferromagnetic-Superconducting Layered Nanostructures: Physical Phenomena and Possible Applications

Dr. Dimosthenis Stamopoulos, Dept. of Physics, University of Athens, Greece

Coffee Break

16:30-17:00

Single Molecule Magnets: The Nanocluster Bridges of the Classical with the Quantum World

Dr. Vassilios Psycharis, INN, NCSR Demokritos, Greece

17:00-17:30

Experimental Proof of Microwave Sintering of Nd-Fe-B Powders towards Fabrication of Permanent Magnets

Dr. Margarit Gjoka, INN, NCSR Demokritos, Greece

17:30-18:00

Thin Films with Large Linear Magnetoresistance

Dr. Thanassis Spiliotis, INN, NCSR Demokritos, Greece

Ageing and Age-related Diseases

LIBRARY BUILDING 15

CHAIR: Dr. D. Kletsas, IB-A, NCSR Demokritos, Greece

14:30-14:45

Introduction

Dr. Dimitris Kletsas, IB-A, NCSR Demokritos, Greece

14:45-15:25

Immunoediting and biomarkers in cancer: the means for more effective therapies

Dr. Constantinos Baxevanis, "Agios Savvas" Hospital, Greece

15:25-16:05

Postprandial dysmetabolism as a contributing factor for the pathogenesis of atherosclerosis. What is the role of platelets?

Assist. Prof. Tzortzis Nomikos, Harokopio University, Greece

Coffee Break

16:40-17:20

Investigation of pathogenic mechanisms in osteoporosis and neurodegenerative diseases through modeling of human diseases in mice

Assoc. Prof. Eleni Douni, Agricultural University of Athens, Greece

17:20-18:00

Parkinson's Disease: from genetics and pathogenesis to therapy

Prof. Leonidas Stefanis, BRFAA, Greece

25 years of LIFE: Innovative tools & technologies for Nature, Environmental Protection and Climate Action

LECTURE HALL, BUILDING 12

CHAIR: Dr. K. Eleftheriadis, INRASTES, NCSR Demokritos, Greece

14.30 - 14.45

Welcome Address - Introduction to research results for LIFE projects

Dr. Konstantinos Eleftheriadis, INRASTES, NCSR Demokritos, Greece

14.45 - 15.00

25 years of LIFE projects

Dr. Spyridoula Ntemiri, Greek LIFE Task Force - Green Fund, Greece

15.00 - 15.30

LIFE Index-Air – Development of an Integrated Exposure – Dose Management Tool for Reduction of Particulate Matter in Air (LIFE15 ENV/PT/000674)

Dr. Athina Cerise Kalogridis, INRASTES, NCSR Demokritos, Greece

15.30 - 16.00

LIFE REWEEE - Funding the development and demonstration of the 1st Waste Electrical and Electronic Equipment (WEEE) prevention and reuse paradigms in Greece. (LIFE 14 ENV/GR/000858)

Dr. Angelos Sotiropoulos, Green Fund, Greece

Coffee Break

16.30 - 17.00

LIFE CONOPS - Development & demonstration of management plans against - the climate enhanced- invasive mosquitos in S. Europe (LIFE12 ENV/GR/000466)

Dr. Efthimios Tagaris, University of Western Macedonia, Greece

17.00 - 17.30

LIFE GreenYourMove - Development and promotion of a co-modal journey planning platform to minimize GHG emission in Europe (LIFE14 ENV/GR/000611)

Assist. Prof., Dr. Georgios K.D. Saharidis, University of Thessaly, Greece

17.30 - 18.00

LIFE ACCEPTAIR - Development of A Cost Efficient Policy Tool for reduction of Particulate Matter in AIR (LIFE 09 ENV/GR/000289)

Dr. Evangelia Diapouli, INRASTES, NCSR Demokritos, Greece

Challenges to exploit Big Maritime Data

BUILDING 8

CHAIR: Prof. G. Vouros, University of Piraeus, Greece

14:30-15:00

Taming Big Maritime Data: The datAcron Approach towards supporting mobility analytics.

Prof. George Vouros, University of Piraeus, Greece

15:00-15:30

BigDataOcean platform: Exploring oceans of data for maritime services and applications

Prof. Dimitris Askounis, National Technical University of Athens, Greece

15:30-16.00

Transforming lots of geospatial data into actionable intelligence: Research Challenges and Lessons Learned at MarineTraffic

Assist. Prof. Dimitrios Zissis & Dr. Konstantinos Chatzikokolakis University of the Aegean, Greece

Coffee Break

16:30-17:00

Internet of Things and artificial networks integration for energy efficiency optimization in shipping

Ex. Prof Takis Varelas, Danaos Research Centre, Greece

17:00-17:30

How not to drown in a sea of information: An event recognition approach

Assist. Prof. Alexander Artikis, University of Piraeus & NCSR Demokritos, Greece

17:30 – 22:00

MIT Enterprise Forum Greece
Award ceremony

MAIN AUDITORIUM, BUILDING 12

Friday, July 7/7/2017

Funding Schemes Opportunities in Research and Innovation

MAIN AUDITORIUM, BUILDING 12

CHAIR: **Dr. Constantinos Spyropoulos**, NCSR Demokritos, Greece

09:30-10:00

SME Instrument

George Tzamtzis, PRAXI Network, Greece

10:00-10:30

Awareness raising campaign for the modernisation of Europe's industry/ WATIFY Project

Lydia Montandon, Business Development Director, Atos, Spain

10:30-10:45

The role of Regional Research and Innovation Councils

Dimitris Niarchos, President of the research and Innovation council of Attica, Greece

Coffee Break

CHAIR: **Dr. Androula Nassiopoulou**, NCSR Demokritos, Greece

11:00-11:30

ESPA funding scheme (GSRT)

Eleni Poulakaki, EYDE - ETAK, GSRT, Greece

11:30-12:00

Communication, Dissemination & Exploitation strategies for successful Horizon 2020 proposals

Nikolaos Floratos, Founder of Funding Expert Academy

12:00-12:30

Life Funding Scheme

Dimitris Homatidis, Greek LIFE Task Force

12:30-13:00

Smart Specialisation: regional, national and European dimensions

George Stroggiopoulos, LOGOTECH S.A., Greece

13:00-13:30

Funding Tools for the Technology Transfer Process

Athina Ikonomidou, Technology Transfer Expert

Lunch Break

14:30-18:00

Matchmaking Event

(Research, Academia, Companies,
Organisations, Investors, others)

LECTURE HALL, BUILDING 12

Notes



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