



7th HELLENIC FORUM

FOR SCIENCE TECHNOLOGY
AND INNOVATION

July 9-11, 2019
Athens, Greece

A G E N D A



NATIONAL CENTRE FOR
SCIENTIFIC RESEARCH "DEMOKRITOS"

Patr. Gregoriou E' & 27, Neapoleos str., 153 41, Agia Paraskevi, Greece

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MAKE IT HAPPEN



This year we celebrate the first results of the innovative Industrial Scholarship Program - Stavros Niarchos Foundation, which completes the second year of its implementation. In addition, an International Workshop on e-Infrastructures and Scientific Data Management will be organized within the framework of the European Open Science Cloud (EOSC), involving programs co-funded by the European Union and the NSRF. The last day is devoted to European synergies through the ENRICH Program. At a separate event, new innovative funding tools will be presented by the European Innovation Council. Finally, a matchmaking event will be organized with the participation of the PRAXIS Network, where companies, research centers and embassies will be participating.



9/7

Industrial Fellowship Program

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Creating platform-driven e-Infrastructure innovation on EOSC

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Greek Edition of EIC Roadshow

Matchmaking Event



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WS1

Industrial Fellowship Program



Industrial
Fellowships
Program
2019

The Industrial Fellowship Program started in 2017 and made possible by a generous Grant from the Stavros Niarchos Foundation. The Program aimed towards talented researchers with a strong interest for applied industrial research and it is unique for Greece. Sixty eight talented researchers have been selected, after an open competition and peer-review of their research proposals, to receive either three or four year Fellowships to work at the laboratories Demokritos in directions that are determined by the industries that co-sponsor the Program. In the frame of 7th Hellenic Forum, some Industrial Fellows will present the progress of their project and their results.

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7th HELLENIC FORUM

Main Auditorium, Building 12

TUESDAY, 9/7/2019

09:00 - 09:15

Introduction from president of NCSR Demokritos

09:15 - 11:15

Session A (Materials)

Chairman: M. Vasilopoulou, Researcher INN

Recent advances in the omnitrap technology and the development of a hyperthermal H source for top-down proteomics, Athanasios Smyrnakis, Postdoc fellow, Scientific Mentor E. Gogolides, Company: **Fasmatech**

Design and development of a low cost sensor for quantitative and qualitative assessment of diesel fuel, Evangelos Angelopoulos, Adjunct fellow, Scientific Mentor E. Favvas, Company: **SNV Engineering**

Graphene-based compounds with enhanced electrocatalytic activity, Stefanos Chaitoglou, Postdoc Fellow, Scientific Mentor A. Dimoulas, Company: **Adamant**

Investigation of the addition of photocatalysis as a sanitation method for anaerobic digestion plants and comparative investigation of thermal disinfection, Afroditi Chioti, PhD fellow, Scientific Mentor P. Falaras, Company: **QLAB**

Optimizing razor blades using plasma processing, Kosmas Ellinas, Postdoc fellow, Scientific Mentor Ev. Gogolides, Company: **BIC**

Development and evaluation of self-healing cement composites by incorporation of encapsulated inorganic admixtures and hydraulic phases, Maria Amenta, Postdoc fellow, Scientific Mentor G. Karatasios, Company: **Titan**

Development of novel cement clinkers with low carbon footprint for industrial production, Dimitra Koumpouri, Postdoc fellow, Scientific Mentor B. Kilikoglou, Company: **Titan**

11:15 - 11:30 Coffee break

11:30 - 13:00

Session B (ICT and Modelling)

Chairs: H. Koumaras, Research Assistant Professor IIT

Understanding problems in the industry via molecular simulation: the example of the Fischer-Tropsch process, Konstantinos Papavasiliou, Postdoc fellow, Scientific supervisor I. Economou, Company: **Scienomics**

Optical Properties and Thickness determination of micro-patterned materials through Spectral Reflectometry, Grigoris Zisis, Postdoc fellow, Scientific Mentor N. Papanikolaou, Company: **O-metrisis**

Computational Nanometrology with applications in Nanoelectronics and Nanotechnology, Georgios Papavarios, Doctorate Fellow, Scientific Mentor E. Gogolides, Company: **Nanometrisis**

Study of the Human Exposure to Electromagnetic Fields generated by Textile Wearable Antennas that operate in close proximity to biological tissue, Maria Seimeni, Postdoc fellow, Scientific Mentor A. Alexandridis, Company: **Singular Logic**

Energy disaggregation as an alternative to update old machinery and enable monitoring towards predictive maintenance, Sarantis Kotsilitis, Doctorate Fellow, Scientific Mentor E. Marcoulaki, Company: **Pleg.ma**

Beyond Deep Learning, Nikiforos Pittaras, Doctorate Fellow, Scientific Mentor V. Karkaletsis, Company: **ATC**

13:00 - 14:00 Lunch

14:00 - 16:00

Session C (Health and Environment)

Chairman: K. Stefanopoulos, Researcher INN

Glomerular Podocyte apoptosis in Diabetic Nephropathy: Potential protective role of Mesenchymal Stem/Stromal Cells, Ourania Trohatou, Postdoc fellow, Scientific Mentor G. Drossopoulou, Company: **NovoNordisk**

AirSensis: indoor air environment monitoring system, Prodromos Fetfatzis, Postdoc Fellow Scientific Mentor K. Eleftheriadis, Company: **Msensis**

Development and performance evaluation of ceramic supported ionic liquid membranes for separation of CO₂/N₂ and SO₂/CO₂ mixtures, Anastasios Labropoulos, Postdoc Fellow, Scientific Mentor K. Stefanopoulos, Company: **SUK**

Assessing Climate Change Resilience in Hellenic Petroleum Facilities, Theodoros Katopodis, PhD fellow, Scientific Mentor A. Papadopoulos, Company: **HELPE**

From Source to Tap Risk Assessment of Organic Pollutants in the Drinking Water Cycle of Athens, Christoforos Christoforidis, Postdoc fellow, Scientific Mentor A. Hiskia, Company: **EYDAP**

Ανιχνεύοντας την απώλεια λειτουργίας του ομόλογου ανασυνδυασμού, στοχεύοντας στην θεραπευτική εξατομίκευση των ασθενών με καρκίνο των ωοθηκών, Florentia Fostira, Adjunct fellow, Scientific Mentor D. Yannoukakos, Company: **Astrazeneca**

Evaluation of novel preclinical dynamic imaging systems using radiopharmaceuticals and nanoformulations, Eirini Fragogeorgi, Postdoc fellow, Scientific Mentor P. Bouziotis, Company: **BET Solutions**

Development of methods for rapid simultaneous detection of multiple BACTERIA species in milk and juices through Mach-Zehnder Interferometers arRay monolithically integrated on silicon chips, Mickaela Angelopoulou, Postdoc Fellow, Scientific Mentor S. Kakabakos, Company: **Vivartia**

WS2

Creating platform-driven e-Infrastructure innovation on EOSC



In the frame of the **7th Hellenic Forum 2019**, the DARE project co-organises a project clustering event on **Wednesday 10 July 2019** in Athens, Greece at **NCSR Demokritos campus**.

The full day clustering event is entitled **Creating platform-driven e-Infrastructure innovation on EOSC**. H2020 EINFRA-21 projects **DARE, DEEP and XDC** jointly organise the workshop where other related EC-funded projects and initiatives will be represented. Of central importance is also the representation of EOSChub partners, EC officials and other stakeholders.

More technical discussions, primarily aimed at EINFRA-21 projects, will follow in the morning of July 11.

With the action EINFRA-21, platform-driven innovation was encouraged in order to address hard technical questions of high scientific and societal value, as part of a wider e-infrastructures strategy. The goal of this workshop is to allow participants to inform the wider community on progress, objectives and their vision, increasing the potential for cross-pollination, reducing overlap and spawning new synergies. In addition, the progress and sustainability of platform-innovation projects crucially depends on EOSC. To this end, this workshop will bring together EC representatives, EOSC partners and EINFRA-21 projects to ensure that innovative platform-driven work is exploited on EOSC in line with EC strategy.

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WEDNESDAY, 10/7/2019

Library, Building 15

7th HELLENIC FORUM

09:30-09:50	Welcome & Introduction, Vangelis Karkaletsis , NCSR "Demokritos"
09:50-10:10	National Perspective GSRT Representative , <i>General Secretariat for Research and Technology</i>
10:10-10:30	EOSC Status & Perspectives, Georgia Tzenou , <i>European Commission</i>
Project Sessions	
10:30-11:00	DARE: Delivering agile excellence on European e-infrastructures, Malcolm Atkinson , <i>The University of Edinburgh</i>
11:00-11:30	DEEP-Hybrid-DataCloud: intensive computing techniques for applications needing specialised hardware, Mario David , <i>Laboratory of Instrumentation and Experimental Particle Physics (LIP)</i>
11:30-12:00	Coffee Break
12:00-12:30	XDC - eXtreme Data Cloud: Scalable data management services for the next generation distributed e-infrastructures, Daniele Cesini , <i>Istituto Nazionale di Fisica Nucleare</i>
12:30-13:00	EUXDAT: The e-Infrastructure for large data analytics in agriculture, Javier Neto , <i>Atos</i>
13:00-13:30	PROCESS: Towards Exascale-ready Data Service Solutions, Maximilian Höb , <i>Ludwig-Maximilians-Universität München</i>
13:30-14:30	Lunch Break
14:30-15:00	FREYA: Connected Open Identifiers for Discovery, Access and Use of Research Resources, Vasily Bunakov , <i>Science and Technology Facilities Council</i>
15:00-15:30	ExtremeEarth: AI and Big Data Techniques for Copernicus Data, Manolis Koubarakis , <i>University of Athens</i>
15:30-16:00	FAIR for Fusion Data-driven Research, <i>TBA</i>
16:00-16:30	Coffee Break
16:30-17:00	Implementing Open Science in EOSC: putting the puzzle together, Natalia Manola , <i>University of Athens</i>
17:00-17:30	EOSC-hub: Services for the European Open Science Cloud, Kostas Koumantaros , <i>GRNET</i>
17:30-18:00	Open discussion & Workshop Conclusion

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WS3

Singularity U Greece Summit



National Centre for Scientific Research Demokritos in collaboration with SingularityU Greece Summit, is organizing for the second consecutive year the Singularity Youth Event, a day devoted to Youth that are looking towards the Future. World class speakers from the SU faculty, on Artificial Intelligence and Biotechnology will share the latest trends on a global level. In Artificial Intelligence and Biotechnology will greatly determine the future and also the occupations in the future.

Future Forward: Key Challenges in AI and Biotech, Unveiling the mysteries of the Universe.

09:00-11:00 Future Forward Key Challenges in AI and Biotech

Vision Forward, **N. Siropoulou**, Director, SingularityU Greece Summit and Global Director P&G Alumni Network

The Future of A.I., **A. Schjøll Brede**, SingularityU Nordic Faculty, CEO and Co-Founder of Iris.ai

The Future of Food, **L. Reuter**, Senior Specialist of Disruptive Technologies at VTT Technical Research Centre of Finland, SingularityU Nordic faculty

Biotechnology, **F. Christodoulou**, Co-founder and Chief Scientific Officer, Miroculus Inc. San Francisco Bay Area Biotechnology

XPRIZE and KM3NET, from the sea bottom to the stars, **Dr. Chr. Markou**, Director, INP, NCSR D

11:00 -11:15 Coffee Break
11:15 -13:00 Action Forward How to Design your Future

The future of the jobs, **I. Meliou**, Human Resources Director Vodafone

The future of the jobs, **Y. Fragkos**, Human Capital Consulting Leader Deloitte

WS4

ENRICH & EU funding schemes



The session is dedicated to ENRICH initiative with presentations targeted to Brazilian, Chinese and USA R&I market. Additionally, information will be presented for bilateral funding schemes in collaboration with non EU countries.

09:00-09:15

Welcome and Introduction, *Enrich networks goal, services and members*, **Theodoros Staikos, Forth**

09:00-10:00

The Brazilian R&I Market, *Support Services of ENRICH in Brazil EU H2020 project*, **Carolina Turcato, SPI**

10:00 -10:40

The Chinese R&I Market, *Support Services of ENRICH in China EU H2020 project*, **Theodoros Staikos, Forth**

10:40 - 11:20

The US R&I Market, *Support services of ENRICH in the USA, H2020 project*, **Charalambos Ipeksidis, INTRASOFT International**

11:20 -11:30 Coffee Break

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WS5 Greek Edition of EIC Roadshow



The Directorate General for Research and Innovation of the European Commission and the General Secretariat for Research and Technology (GSRT) cordially invite you to attend the Greek Edition of the European Innovation Council (EIC) Roadshow on Thursday, July 11th, between 11:30 – 13:30 at the premises of the National Centre for Scientific Research Demokritos. The aim of the event is to present the innovation funding tools available by the EIC empowering European innovators.

11:30 - 11:35 Welcome address

POLICY: WHY AN EIC?

11:35 - 11:50 Introduction to the European Innovation Council (EIC)
By Jean-David Malo, Director of the EIC Task Force, DG Research and Innovation, European Commission

11:50 - 12:20 Panel discussion with

Jean-David Malo, Director, European Commission
(TBA), Representative from the General Secretariat for Research and Technology (GSRT)
Georgios Nounesis, Director and Chairman of the Board of NCSR "Demokritos"
Iakovos Yakoumis, CEO, MONOLITHOS Catalysts

Moderator: Eric-Olivier Pallu, European Commission

12:20 - 12:30 Q&A

IMPLEMENTATION: HOW TO RECEIVE FUNDING?

12:30 - 13:05 The EIC in more details: Specific elements and novelties of the revised Work Programme 2019-2020, calls opening, cut-off dates
By Timo Hallantie, Head of Unit REA A-5, EIC Task Force, DG R&I, European Commission

13:05 - 13:15 How to receive support from the Greek NCPs – EEN [GR-NCPs]

13:15 - 13:30 Q&A discussion

13:30 - 14:30 **Lunch Break**

14:30-17:00

Matchmaking Event

PRAXI Network, in collaboration with the National Centre for Scientific Research (NCSR) "Demokritos" invites you to participate at the international Matchmaking Event which will be held in the frame of the 7th Hellenic Forum for Science, Technology and Innovation (9-11 July). The Forum is organized for the 7th consecutive year by NCSR "Demokritos" and is under the Auspices of the Hellenic Ministry of Foreign Affairs, aiming to act as a meeting point for Science, Technology and Innovation. During the 3 days of the Forum, world renowned speakers from all around the globe will discuss global scientific developments and each day several parallel sessions will take place.



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