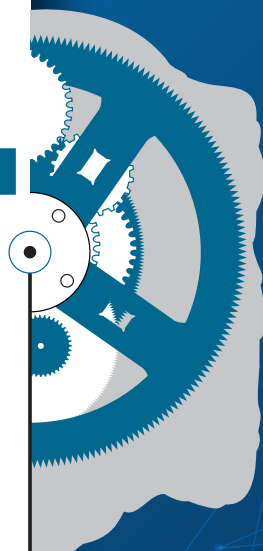


PHARMA FUTURE

Pharmaceutical Industry goes 4.0



International conference on "Pharma Industry 4.0"

22 - 23 | October | 2021

Athens, Greece

HYBRID VERSION

www.pharma4future.com

Under the Auspices of



HELLENIC REPUBLIC
National and Kapodistrian
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DEPARTMENT OF PHARMACY



NATIONAL TECHNICAL
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SCHOOL OF MECHANICAL ENGINEERING



GREEK REPUBLIC
PANHellenic PHARMACEUTICAL ASSOCIATION
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PhARMA
Innovation Forum Greece

ORGANIZING SECRETARIAT



224 Irakleiou Avenue, 14231 Nea Ionia, Athens, Greece
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Welcome letter

Dear friends and colleagues,

Industry 4.0 (or the **4th industrial revolution**) promises a step-change in productivity, operational efficiency and manufacturing flexibility. The disruptive nature of this trend and the associated benefits are due to a combination of several factors including technological advancements (such as internet of things, artificial intelligence, advanced analytics, robotics, etc.), cultural shifts (such as digitization, customization etc.) and strategic initiatives on a global scale.

The pharmaceutical industry has traditionally relied on long product lifecycles that enabled the development of new processes and the introduction of technological innovation to happen at a slower pace compared to other manufacturing sectors. However, the 3rd decade of the 21st century brings about key transitions in market, production and regulatory challenges that need to be addressed if competitiveness, growth and profitability rates are to be maintained.

The "**Pharma 4.0 Future**" conference held in Athens during **October 22nd - 23rd 2021** will offer insights around key concepts, current implementations and future trends of Industry 4.0 and the pharmaceutical sector through a series of keynote speeches and discussions with participation of both academic and industrial experts.

For more information and registrations please visit: www.pharma4future.com

- SCIENTIFIC COMMITTEE
- | **Dimitrios M. Rekkas**
Associate Professor & Director, Pharmaceutical Technology, Department of Pharmacy, National and Kapodistrian University of Athens, Greece
 - | **Dimitrios Askounis**
Professor, School of Electrical and Computer Engineering, National Technical University of Athens, Greece
 - | **Panorios Benardos**
Assistant Professor, School of Mechanical Engineering, National Technical University of Athens, Greece

Conference Program

FRIDAY OCTOBER 22

09:00-09:30 | **Registrations**

09:30-10:00 | **Welcome Address**

- **Dimitrios Rekkas**, Associate Professor & Director, Pharmaceutical Technology, Department of Pharmacy, National and Kapodistrian University of Athens, Greece
- **Lilian Azzopardi***, Head of Department of Pharmacy, Faculty of Medicine and Surgery, University of Malta, President of EAFP Malta
- **Ioulia Tseti***, Pharmacist, MSc., President and CEO of OFET (Tsetis Pharmaceutical Group), Member of the BoD of SEV (Hellenic Federation of Enterprises), President of the BoD of Global Compact Network Hellas
- **Spiro Spireas***, PhD, CEO, SigmaPharm Laboratories Ltd, USA
- **Theodoros Tryfon**, President of Panhellenic Union of Pharmaceutical Industry (PEF), Greece

10:00-10:30 | **Plenary Lecture**

“Personalizing medicine through big data and artificial intelligence”

Meletios A. Dimopoulos, MD, Professor and Rector of the National and Kapodistrian University of Athens, Plasma Cell Dyscrasias Unit, Section of Hematology and Medical Oncology, Department of Clinical Therapeutics, School of Medicine, National and Kapodistrian University of Athens, Greece

10:30-11:00 | **“Cleanroom PODs as one driver of the pharma facility of the future”**

Thomas Hauser, Business Development Manager Europe, G-CON Manufacturing Inc., TX, USA

11:00-11:30 | **“IoT+AR: technology integration for efficient production processes”**

Stathes Hadjiefthymiades, Professor, Dpt.of Informatics and telecommunications, National and Kapodistrian University of Athens, Greece

11:30-12:00 | **Coffee break**

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Conference Program

- 12:00-12:30** | **“Data Science for Pharma 4.0 - Enablers, Prerequisites and Potential”**
Christoph Herwig, Professor & Head, Bioprocess Technology and Biochemical Engineering, Technical University of Wien, Austria
- 12:30-13:00** | **“Continuous Manufacturing – an enabler of Pharma 4.0”**
Giustino Di Pretoro, Ph.D, Scientific Director, Janssen R&D, Discovery, Product Development & Supply, J&J, Belgium
- 13:00-13:30** | **“Drug delivery innovation and sustainability”**
Ruggero Bettini*, Ph.D., Professor of Pharmaceutical Technology, Food and Drug Department, Interdepartmental Centre for Innovation in Health Products, Biopharmanet - TEC, University of Parma, Italy
- 13:30-14:00** | **“Digital Design in Oral Solid Dosage Manufacturing”**
Ioannis Fragkopoulos*, PhD, Senior Scientist, Process Systems Engineering, CMC Oral Protein Formulation, Novo Nordisk, Denmark
- 14:00-15:30** | **Light lunch**
- 15:30-16:00** | **“Reinventing Pharma Business Model: Key for survival, or a nice-to-have for Future Pharma?”**
Vasillis Gerogiannis, PhD, Vaccines Market Leader, Global Vaccines Commercial, GSK, Belgium
- 16:00-16:30** | **How regulatory authorities view the digitalization of pharmaceutical operations and products**
Anthony Serracino Inglott*, Professor, Department of Pharmacy, Faculty of Medicine and Surgery, University of Malta, Chairperson of the Malta Medicines Authority, Malta
- 16:30-17:00** | **“A Path Toward Smart Operations - Combining Operational Excellence and Industry 4.0”**
John Perrigue*, Senior Director at Johnson & Johnson, Digital Process Design New Brunswick, New Jersey, USA
- 17:00-17:30** | **Coffee break**

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Conference Program

- 17:30-18:00** | **“The talent gap: Educating tomorrow’s workforce”**
Eunjoo Pacifici*, PharmD, PhD, Chair and Associate Professor,
Department of Regulatory and Quality Sciences, Associate Director,
DK Kim International Center for Regulatory Science,
USC School of Pharmacy, Los Angeles, USA
- 18:00-18:30** | **“Pharma - Industry 4.0:
The role of Artificial Intelligence in Manufacturing and Quality Control”**
Dimitrios Askounis, Professor, School of Electrical and Computer Engineering,
National Technical University of Athens, Greece
- 18:30-19:00** | **“IoT and Machine Learning for Real-Time Monitoring and Optimization
of Pharmaceutical Manufacturing Operations”**
Alexandros Vidras*, CEO - Vimachem, Greece, Adjunct Faculty
Operational Research - Columbia University, USA

SATURDAY OCTOBER 23

- 10:00-10:30** | **“Electronic citizen-centered electronic data exchange
for personalized digital Health”**
Ricardo Goncalves, Professor, Information Management School,
New University of Lisbon, Portugal
- 10:30-11:00** | **“Collaborative Robots in the Pharmaceutical Sector”**
Panorios Benardos, Assistant Professor, School of Mechanical Engineering,
National Technical University of Athens, Greece
- 11:00-11:30** | **“QbD as a facilitator of Pharma industry 4.0”**
Stavros N. Politis, MSc, PhD, Director R&D, ELPEN Co. Inc., Greece
- 11:30-12:00** | **Coffee break**
- 12:00-12:30** | **“(Bio)pharmaceutical bioethics and legal challenges
of digital transformation”**
Eleni Rethymiotaki, Associate Professor, School of Law,
National and Kapodistrian University of Athens, Greece

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Conference Program

- 12:30-13:00** | **“Industry 4.0 in the real life of Pharma Operations. The triumphs and perils of an adventurous transition”**
Spyros Kintzios, Pharmacist, MBA, Director, Corporate Development
UNI-PHARMA S.A., BoD member, INTERMED S.A., Greece
- 13:00-13:30** | **“Connected Diagnostics: Industry 4.0 Turning Point-of-Care into the New Norm in Healthcare”**
Mihalis Boutaris*, Co-founder & Director, Athroa Innovations PC, Greece
- 13:30-14:00** | **“Optoelectronics in the Life Sciences industry”**
Panagiotis Papadimitriou, Application Engineer & Consultant, Vimachem, Greece
- 14:00-15:30** | **Light lunch**
- 15:30-16:00** | **“Towards the Pharmacy 5.0 curriculum: Translating knowledge to patient-centric Results”**
Dimitrios M. Rekkas, Associate Professor & Director,
Pharmaceutical Technology, Department of Pharmacy,
National and Kapodistrian University of Athens, Greece
- 16:00-16:30** | **Title to be announced**
Marcello Colledani*, Professor, Department of Mechanical Engineering,
Politecnico di Milano, Italy
- 16:30-17:00** | **“The Digital Metamorphosis of the Pharma Industry in the New COVID-19 Era”**
Antonios Evagellidis, Chief Compliance Data Protection Officer (DPO),
VIANEX, Greece
- 17:00-17:30** | **“The community pharmacy and its services in the new technologies Environment”**
Kostas Dounas, CEO Logiscoop Pansyfa, Athens, Greece
- 17:30-18:00** | **“An innovative Solution for the management of ‘Cold Supply Chain”**
Alberto Bartolini*, PhD, AFI, General mgr CIT srl, Italy
- 18:00-18:30** | **Discussion – Conclusions**

* Presentations will be remotely delivered

Program as of October 13th, 2021 and subject to current COVID-19 restrictions

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