Anno Culturale
Ungheria - Italia 2013

POLITECNICO DI TORINO

PÁZMÁNY PÉTER CATHOLIC UNIVERSITY

Politecnico di Torino, Corso Duca degli Abruzzi, 24 - Torino
Sala Consiglio di Facoltà
Wednesday April 24th, 2013 - 9.00 a.m.

Bionics at the crossroads of Biotechnology and Information Technology:

From Cellular Wave Computing to Lab on a Chip Technologies

Bionics is a broad area of innovative technologies emerging from the synergy between information technology, biotechnology and nanotechnology, with rapidly growing markets in the biomedical area.

In the last years, the ***Politecnico di Torino*** *and the* ***Faculty of Information Technology of Pázmány Péter University in Budapest*** *have been jointly organizing a series of workshops in this area, with subjects ranging from Cellular Wave Computing to Lab-on-a-Chip technologies.*

At the initiative of the ***Italian Ministry of Foreign Affairs*** *(Unitá per la Cooperazione Scientifica e Tecnologica),* ***the International Centre of Biotechnology and Genetic Engineering (ICGEB) of Trieste*** *will join this year presenting biotech cooperation in an international setting.*

The workshop aims to stimulate discussion which will lead to the definition of the priorities in this area for the next years.

Contacts:

Italy:
Ms. Mara Bacolla
Tel.: +39 011 0906300
Fax. +39 011 19745022
Email: segreteria.rettore@polito.it

Hungary:
Ms. Márta Szomolányi
Tel.: +36 1 886-47-06
Fax: +36 1 886-47-24
Email: szomolanyi.marta@itk.ppke.hu

Registration: eventi@polito.it

Program

9.00	9.10	***Opening ceremony*** Marco Gilli - Rector of the Politecnico di Torino
9.10	9.35	***Teaching Quantum Electrodynamics (QED) to engineers*** Árpád Csurgay - Pázmány Péter University, Budapest
9.35	10.00	***Circuit models for quantum systems*** Pier Paolo Civalleri - Politecnico di Torino
10.00	10.25	***Convergence of Biotechnology and Information Technology: The emergence of Bionics*** Tamás Roska - Pro-Dean, Faculty of Information Technology, Budapest
10.25	10.35	***The International Centre for Genetic Engineering and Biotechnology: Programs of cooperation with emerging economies*** Sándor Pongor - ICGEB, Trieste
10.35	10.55	***Computational models of microbial communication and cooperation*** Sándor Pongor - ICGEB, Trieste
10.55	11.10	***Coffee Break***
11.10	11.30	***Micro and nanoscale biosensors*** Fabrizio Giorgis - Politecnico di Torino
11.30	11.50	***Some problems on Mega Core Architectures*** Péter Szolgay - Pázmány Péter University, Budapest
11.50	12.10	***Disposable point-of-care diagnostic devices: Current trends and future plans*** Kristóf Iván - Pázmány Péter University, Budapest
12.10	12.30	***Lab-on-a-chip solutions for integrating Microfluidic Chips fabricated with MultiMEMS*** Danilo Demarchi - Politecnico di Torino
12.30	12.50	***Bio-inspired and neuromorphic circuits*** Fernando Corinto - Politecnico di Torino
12.50	13.00	***Closing ceremony*** Marco Gilli and Tamás Roska