

UNIVERSITY – INDUSTRY COLLABORATION: A NEW MILESTONE

Development of High-Tech Enterprises in the Post-Crisis Economy as a Tool for Economic Growth of Regions Traditionally Lacking Advanced Industry.

Date: 27 October 2015

Location: Arezzo, Italy,
Via Achille Grandi nc.10/12, 52100

Co-organizers: ITMO University
Diakont Group of Companies:
With the support of the Tuscany Region government.

Moderator: Dr. Debra Stewart, President Emerita and Senior Scholar, Council of Graduate Schools

Seminar Goals:

- Organize and connect industrial leaders and universities that have the highest levels of experience and competence in the specialties required for the creation of effective high-tech production centers, for the purpose of achieving synergies that result in scientific and commercial progress
- Enable collaborative research for the creation of high-tech production centers, based on the existing project for creation of mass production of advanced electromechanical actuators
- Enable collaborative research for the creation of the base product lines of devices for production automation and further efficiency enhancements, facilitating the return of industrial enterprises to developed countries with traditionally high labor costs
- Development and implementation of measures to provide associated investment support, including preparation of high quality supporting material required to obtain grants
- Enable the creation of high-tech enterprises that provide high-margin production of globally competitive products, the expansion of the social group of knowledgeable industry workers at the first stage of high-tech mass production, and then in the subsequent stages the R&D business structure – using the Tuscany region as the pilot model
- Analysis of the results of the pilot project, and preparation of proposals for possible replication of the experience to regions with underdeveloped or now-developing infrastructure, for the organization of high-tech production centers

Prospective Topics for Collaborative University-Industry Research:

- Construction, technical, and managerial solutions required to create energy-efficient, environmentally-friendly, highly-productive, flexible high-tech industrial enterprises with a high level of automation and technologies
- Prospects for the development of the products required as the components for next-generation collaborative industrial robots, as well as for medical devices and simulators, based on the latest research results
- Aspects of social adaptation, urbanization, infrastructure development, and economical growth of the regions where high-tech production zones are organized
- Selection criteria for regions to position the high-tech production centers

Participants list:

Prof. Vladimir Vasilyev	Rector, ITMO University
Prof. Xi-Chang Zhang	Director of the Institute of Optics and M. Parker Givens Professor, Rochester Institute of Technology
Prof. Debra Stewart	President Emerita and Senior Scholar, Council of Graduate Schools
Prof. Paul Urbach	President, European Optical Society, Delft University of Technology
AlkisLembesis	Founder and CA, Hellenic Institute of Holography
Prof. Stephen Hagen	Advisor to rector, ITMO University
Dr. Daria Kozlova	Vice-rector for International Relations, ITMO University
Dr. Marianna Chistyakova	Head of Strategic Development Department, ITMO University
Ekaterina Mikhailova	Head of Strategic Planning and Ranking Research Department, ITMO University
Nina Yanikyna	Head of Project and Innovative Activities Department, ITMO University
Prof. Yuri Kolesnikov	Vice-rector for Educational and Administrative activities, ITMO University
Maria Sigutina	Head of Brussels office, ITMO University
Sergio Porcellotti	Vice-President, Diakont SRL
Mikhail Fedosovsky	President, Diakont SRL
	Head of STTS Department, ITMO University
Mikhail Uvarov	Head of Analytics Group, Diakont
	Adjunct Faculty, ITMO University
Edward Petit de Mange	Managing Director and CEO, Diakont Advanced Technologies
Mikhail Lyssy	EMA Sales Director, Diakont
Anastasia Nikitina	Interpreter, Diakont
Dr. Juho Miakiio	Professor, Hochschule of Emden-Leer
Dr. Armando Walter Colombo	Professor, Hochschule of Emden-Leer
Dr. Gianni Campatelli	Professor, Universitadeglistudi di Firenze
Dr. Calogero Maria Oddo	Assistant Professor, Head of the Human Machine Nexus Laboratory, The BioRobotics Institute of ScuolaSuperioreSant'Anna, Pisa, Italy
Dr. Roberto Pini	Director, Institute of Applied Physics – CNR
	Coordinator, Regional Innovation Pole for Optoelectronics and Space
Dr. Marco Mariani	IRPET – Tuscany’s Regional Institute for Economic Planning
Marco Perrone	Key Account High-Tech Sectors, Toscana Promozione/Invest in Tuscany
Dr. Filippo Giabbani	Representative of Tuscany Region
Nadia Crivelli	Inward Investment Policies Regional Officer, Toscana Promozione/Invest in Tuscany
Ing. Alessandro Ghinelli	Mayor of Arezzo
Roberta Casini	Mayor of Lucignano
Giuseppe de Filippis	Director – Resp. Corporate Area Territoriale, Banca Monte deiPaschi di Siena
Dr. Satyandra Gupta	Professor, University of Maryland
	Director, Maryland Robotics Center
Dr. Larry Sweet	Professor, Georgia Tech
Luca Bernardini / Mauro Panoni	Representative, Baraclit
Claudio Casi / Stefano Masini	Representative, Studio Pentium
Gianni Guidotti	Representative, Eurosecurezza

Seminar program:

09:30	Hotel to Seminar transfers
10:00	OPENING REMARKS: Start of the seminar
10:05	PART 1: University-Industry Collaboration
10:05	Introduction, and a Case Study in the State-of-the-Art of U-I Collaboration: Centennial campus at North Carolina State University case. <i>Prof. Debra Stewart</i>
10:20	The Institute of Optics: A Jewel in the Crown. <i>Prof. Xi-Chang Zhang</i>
10:35	The involvement of TUDelft in starting new enterprises. <i>Prof. Dr. Paul Urbach</i>
10:50	ITMO University and Diakont collaboration experience in creation of the competitive product. <i>Prof. Yuri Kolesnikov</i>
11:10	Diakont-Hochschule Emden-Leer case. <i>Dr. Juho Miakiiio / Dr. Armando Walter Colombo</i>
11:20	Panel discussion: Simillarities and Differences between the Cases, Positive Effects for the Parties. Future Collaboration. <i>Moderator: Prof. Dr. Debra Stewart</i>
11:50	Coffee-break
12:00	A point of view for the U-I collaboration in Tuscany. <i>Dr. Marco Mariani</i>
12:15	Overview of Tuscany Research and Industrial Activities in the Fields of Optics and Photonics. <i>Dr. Roberto Pini</i>
12:25	Panel discussion of the U-I collaboration and its effect to the Region. <i>Moderator: Prof. Dr. Debra Stewart</i>
12:45	Facilities tour
13:00	Transfer for a lunch
13:15-14:45	Lunch at the traditional Tuscany restaurant
14:45	Transfer back to the seminar site
15:00	PART 2: Development of High-tech Enterprises as a Tool for Economic Growth
15:00	Implementation of the new approach for high-efficient environmental friendly production at the base of the project of EMA and gears mass production facilities in Lucignano. <i>Mikhail Uvarov</i>
15:45	Panel discussion: U-I collaboration on the Research Topics within the Presented Project. <i>Moderator: Mikhail Uvarov, Prof. Dr. Debra Stewart</i>
16:10	PART 3: Collaborative Robotics in Industrial and Medical Applications
16:10	Introduction, <i>Edward Petit de Mange</i>
16:15	Bringing Collaborative Robots with Enhanced Perception and Learning to the Manufacturing Floor, <i>Dr. Larry Sweet</i>
16:35	RoboSAM Project, <i>Dr. Satyandra Gupta (via videoconference)</i>
17:00	Coffee-break
17:10	Research activities of The BioRobotics Institute of ScuolaSuperioreSant'Anna, Pisa, <i>Dr. Calogero Maria Oddo</i>
17:25	Diakont Group Development Roadmap for Industrial and Medical Robotics, <i>Edward Petit de Mange</i>
17:40	Panel discussion: U-I collaboration over the topics of researches within the presented concept of the development, <i>Moderator: Edward Petit de Mange, Prof. Dr. Debra Stewart</i>
18:00	CLOSING REMARKS: Possibilities, Prospects, and Approaches to Collaboration on the Presented topics, and Q&A, Moderators: Mikhail Uvarov, Sergio Porcellotti, Edward Petit de Mange, Prof. Dr. Debra Stewart
18:30	Seminar site to hotel transfers
20:00	Meeting in the center of Arezzo, dinner at Loggia Vasari restaurant

Some shifts to the program may be made in the event of changes