



## FoodCAS Workshop

Friday, 20 October 2017

Politecnico di Torino

Department of Electronics and Telecommunications

Corso Castellidardo 42/A, 5<sup>th</sup> Floor Meeting Room

### General Program

Time	Activity	
08h30	Registration	
08h45	Opening	
09h00	Keynote 1	Prof. John P. Verboncoeur (Michigan State University IEEE Chair of Food Engineering Ad Hoc committee) - IEEE SmartAg: Technology applied to the food supply chain
09h45	Lecture Session 1	Foods-I
11h00	Break	
11h15	Lecture Session 2	Foods-II
12h30	Lunch	
14h00	Keynote 2	Prof. Søren Balling Englesen (University of Copenhagen) - The use of advanced spectroscopic methods for food process monitoring and control
14h45	Lecture Session 3	Milk, Drink, Meat and plants
16h15	Break	
16h45	Discussion Panel	Does agriculture (plants, foods, etc...) need more high-tech interventions? Which ones?
18h45	Gala Dinner	Bus to "La Venaria Reale" for BioCAS/FoodCAS Gala Dinner



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### Session Program

#### Lecture Session 1: Foods-I

09h45	A. Chu, B. Schlecker, J. Handwerker, S. Künstler, M. Ortman, K. Lips, J. Anders	VCO-based ESR-on-a-chip as a tool for low-cost, high-sensitivity food quality control
10h00	F. Zhang, N. Masna, S. Bhunia, C. Chen, S. Mandal	Authentication and Traceability of Food Products through the Supply Chain using NQR Spectroscopy
10h15	Y. Jiang, P. Coquet, H. Yu	Fast Food Safety Screening with CMOS High-sensitivity Large-arrayed ISFET Sensor
10h30	C. Moldovan, B. Firtat, S. Dinulescu, C. Brasoveanu, M. Ion, C. Codreanu, C. Mihailescu, D. Stan, M. Savin	Integrated Platform for Pesticides detection in Food
10h45	Bruno Garavelli, Andrea Mencarelli, Luca Zanotti	XSPECTRA: The Most Advanced Real Time Food Contaminants Detector

#### Lecture Session 2: Foods-II

11h15	S. Scanlon, W. Messina, E. Moore, S. Rothwell, S. Harrison	Development of an electrochemical caffeine sensor for PAT Application in the Food and Beverage Industry
11h30	D. Sonnante	A Feasibility Study for CO <sub>2</sub> Detection in Coffee Degassing Process
11h45	P. Burrascano, L. Senni, M. Ricci	Near-infrared nondestructive evaluation of food based on multi-frequency Lock-in detection
12h00	L. Boschis, N. Ciprianetti, D. Spadaro, M.L. Gullino, R. Rinaldi, C. Garino, M. Arlorio	Smart Micro-sensing: Antibodies and Aptamer-based Micro-ELISA as Performing offline/online Tool for Allergens and Mycotoxins Detection in Foods
12h15	F. Fassio, A. Tallone	GreenPallet: Systemic approach and electronics to improve the food transportation system

### Lecture Session 3: Milk, Drink, Meat and Plants

14h45	L. Nari, F. Costamagna, G. Vittone	AGRION: Reduce chemical uses in agriculture to preserve environment and human health
15h00	J. Ramos, J. L. Ausin, D. Lozano, G. Torelli, J. F. Duque-Carillo	Smart Needle for Fat Profile Detection in Meat
15h15	U. Bena, S. Blengini	MIAMI: Mobile wireless instrument LOC-based to identify and measure M1 Aflatoxin in the Milk chain
15h30	M. Sophocleous, J. Georgiou	Precision Agriculture: Challenges in Sensors and Electronics for Real-time Soil and Plant Monitoring
15h45	A. Castellini, A. Farinelli, G. Minuto, D. Quaglia, I. Secco, F. Tinivella	EXPO-AGRI: Smart Automatic Greenhouse Control
16h00	J. A. Tobon Vasquez, G. Turvani, G. Dassano, M. Vacca, M. R. Casu, R. Scapaticci, F. Savorani, F. Vipiana	A Feasibility Study for Food Contamination Monitoring via Microwave Imaging Technology
16h15	G. P. Colucci, M. Poletti, R. Stefanelli, D. Trincherò	Internet of Things as a Means to Improve Agricultural Sustainability

## Venue

Politecnico di Torino  
Department of Electronics and Telecommunications  
Corso Castelfidardo 42/A, 5<sup>th</sup> Floor Meeting Room  
Torino, Italy

FoodCAS Workshop will be held in the meeting Room of the Department of Electronics and Telecommunications of Politecnico di Torino, located at the 5<sup>th</sup> Floor in Corso Castelfidardo 42/A.

You can reach the room taking the Elevator that is under the bridge in Corso Castelfidardo 42/A, crossing the road from the Politecnico entrance located in Corso Castelfidardo 39. See figure.

