

# LOMBARDY DIALOGUES

Feeding Science

5<sup>th</sup>  
May

22<sup>nd</sup>  
July

27<sup>th</sup>  
October



## INNOVATING THE LAND:

### the Lombardy Region of Italy Dialogues with the World at EXPO2015

Stemmed from the Framework Agreement signed between the National Research Council of Italy and the Lombardy Regional Government, in partnership with Unioncamere Lombardia, the Lombardy Dialogues consist of three engaging events that find their thematic inspiration in several features of the Lombardy food sector and cultivated land. Under the scope of the project "Exhibition Ground for Scientific Research: Italian Pavillon for EXPO2015" the Lombardy Dialogues tell how

scientific innovations, developed in Lombardy, support intensive and sustainable productions, protect traditional products and manage environmental resources. The goal is to foster a dialogue between the research that is carried out regionally and the worldwide community. The events will be presented as a series of short lectures and dialogues, each culminating in a thematic thread connected to one of the month-long themes scheduled by the Italian Pavilion.

## **FOOD SAFURITY: BRIDGING SAFETY AND SECURITY**

5<sup>th</sup> of May 2015, Auditorium Testori, Palazzo Lombardia, Milan

**5<sup>th</sup>  
May**

## **SETTING A MODEL FOR A SUSTAINABLE DAIRY CHAIN**

22<sup>nd</sup> of July 2015, Auditorium of Italian Pavillon, EXPO Area, Milan

**22<sup>nd</sup>  
July**

## **INNOVATIVE MONITORING AND MANAGEMENT OF ENVIRONMENTAL RESOURCES**

27<sup>th</sup> of October 2015, Auditorium Testori, Palazzo Lombardia, Milan

**27<sup>th</sup>  
October**

Lombardy Dialogues will debut on the 5<sup>th</sup> of May - the month that the Italian Pavillon has dedicated to **Food Security** - with the first dialogue entitled "Food *Safurity*: Bridging Safety and Security" that will be held at the Auditorium Testori, Palazzo Lombardia, Milan. Starting from fundamental Lombardy productions such as milk, meat and cereals, the conference will focus on food processing systems, traceability, packaging and logistics, within the framework of food security.

The goal of the conference is to outline the new concept of "food global quality" for the food industry of the future

## **FOOD SAFURITY: BRIDGING SAFETY AND SECURITY**

**H 9:00 - 16:00**

**5<sup>th</sup>  
May**

## Registration & Welcome coffee

Conference Welcome

Chair: Diego Breviario, IBBA-CNR

## The food factory of the Future: vision scenarios and enabling technologies

Giacomo Copani, ITIA-CNR

## Global chains and the food industry identity for the future

Daniele Rossi, EU Platform "Food for Life" –  
Confederation of the Farmers Confagricoltura

## Food Safurity: assessment of the total quality in the Food chain

Gianni Gilioli, Università degli Studi di Brescia  
Paolo Daminelli IZSLER

## Corn production chains for food processing and premium products

Alberto Verderio, CRA  
Federico Sannella, Birra Peroni

## Digital technologies to encourage

## consumer creative thinking about food and its sources

Neil Maiden, City University of London

## Increased food product information for the benefit of the consumer

Raffaello Prugger, Tecnoalimenti S.C.p.A.

## Elemental analysis of food

Laura Eleonora Depero,  
Università degli Studi di Brescia  
Laura Borgese, SMART Solutions s.r.l.

## The nanotechnology behind a sensor for food safety

Riccardo Bertacco, Politecnico di Milano, IFN

## The detection of microorganisms in water and food

Giorgio Sberveglieri,  
Università degli Studi di Brescia  
Veronica Sberveglieri, INO-CNR

## The nuclear magnetic resonance for safe

## and quality food products

Roberto Consonni, ISMAC-CNR

## Lunch

## High performance bio-based packaging material

Stefano Farris, Università degli Studi di Milano  
Roberto Rocca, Metalvuoto

## Polymers for packaging: stable & safe

Simona Losjo, ISMAC-CNR  
Paolo Mariani, Versalis S.p.A.

## Ensuring food quality: the key role of logistics

Carla Noè, LIUC  
Maria Jesus Saenz, Zaragoza Logistics Centre

## Feeding the planet: local excellence goes international

Gianluca Carenzo, Parco Tecnologico Padano

## Discussion

The second event "Setting a Model for a Sustainable Dairy Chain" will be held at the Auditorium of Italian Pavillon EXPO Area, Milan, on the 22<sup>nd</sup> of July (the month dedicated to **Sustainability and Biodiversity**). The event focuses on different factors affecting dairy-chain sustainability, such as animal wellbeing and diet, milk composition and processing, sewage and slaughtering waste recycled for fertilizer and energy production. The Lombardy framework is proposed as a paradigm of best practices for promoting and protecting traditional agricultural productions worldwide.

## SETTING A MODEL FOR A SUSTAINABLE DAIRY CHAIN

H 14:00 - 17:00

22<sup>nd</sup>  
July

Conference Welcome  
Chair: Diego Breviario, IBBA-CNR

**From feed to food: quality and safety throughout the dairy chain**  
Mike Gooding, FAI Farms Ltd

**Intensive vs low-input dairy breeding: converging to common goals**  
Filippo Biscarini, Parco Tecnologico Padano  
Ben Hayes, Victorian Department of Environment and Primary Industries  
Alessandra Stella, IBBA-CNR  
Bianca Castiglioni, IBBA-CNR  
Mario Luini, IZSLER

**New traceability methods to ensure the quality of the Parmigiano Reggiano PDO cheese**  
Valentina Pizzamiglio, Consorzio del formaggio Parmigiano Reggiano  
Diego Breviario, IBBA-CNR  
Roberto Consonni, ISMAC-CNR

**Cheese microbial biodiversity and safety**  
Elena Dalzini, IZSLER  
Jozsef Branyi, Institute of Food Research  
Milena Brasca, ISPA-CNR  
Fabio Dal Bello, Sacco s.r.l.  
Diego Mora, Università degli Studi di Milano

**Milk as functional food: biopeptides and dental caries prevention**  
Alessandra Majorana, Università degli Studi di Brescia  
Stefania Chessa, IBBA-CNR  
Lorenzo Morelli, Università Cattolica del Sacro Cuore

**Recycling sewage and waste for fertilizers and energy production**  
Giuliana D'Imperzano, Università degli Studi di Milano  
Marcella Guarino, Università degli Studi di Milano  
Davide Gardoni, Università degli Studi di Milano

**A model for scoring high quality Lombardy dairy productions**  
Giovanna Battelli, ISPA-CNR  
Maddalena Zucali, Università degli Studi di Milano

**Sustainable dairy chain from forage to cheese: presentation of the dairy demo farm project**  
Franco Gerevini, Sivam

**Conclusion**  
Mike Gooding, FAI Farms Ltd

On the 27<sup>th</sup> of October (the month devoted to **Technological Innovations**) at the Auditorium Testori, Palazzo Lombardia, Milan, the dialogue "Innovative Monitoring and Management of Environmental Resources" will focus on several innovative tools and approaches designed to manage, monitor and preserve Lombardy environmental resources. Soil, water, intensive and traditional crop farming, agri-food waste management for the production of bioproducts and energy are all analyzed through the lens of a judicious balance between food production and environmental protection.

## INNOVATIVE MONITORING AND MANAGEMENT OF ENVIRONMENTAL RESOURCES

H 9:00 - 16:00

27<sup>th</sup>  
October



## Registration & Welcome coffee

Conference Welcome

Chair: Mario Tozzi, geologist, science anchorman

## Future challenges for agriculture and environment in Lombardy

Stefano Brenna, Dirigente Dipartimento Servizi all'Agricoltura ERSAF

## Sustainable water management for cities and ecosystems

Maurizio Pettine, IRSA-CNR

## Are Wastewater really wastes?

Antonio Lopez, IRSA-CNR

## Microbial fuel cells at Milano-Nosedo wastewater treatment plant: a case study in the field "Valle dei Monaci"

Pierangela Cristiani, Ricerca sul Sistema Energetico – RSE SpA

## Does irrigation waste water?

Claudio Gandolfi, Università degli Studi di Milano

## Reactive nitrogen in agriculture: measures, models and field crop management

Marco Acutis, Università degli Studi di Milano

## A glance from space: remote sensing and smart technologies for agriculture and environment

Daniela Stroppiana, IREA-CNR  
Enrico Zini, ARPA Lombardia

## From sensors to crop yield by mathematics

Antonella Bodini, IMATI-CNR  
Sara Pasquali, IMATI-CNR  
Enrico Marchesini, AGREA

## Lunch

## Ancient tradition and biorefinery

Federica Zaccheria, ISTM-CNR  
Giovanna Speranza, Università degli Studi di Milano  
Claudio Tonin, ISMAC-CNR

## Running towards the future... with biobased footwear

Richard Wool, University of Delaware

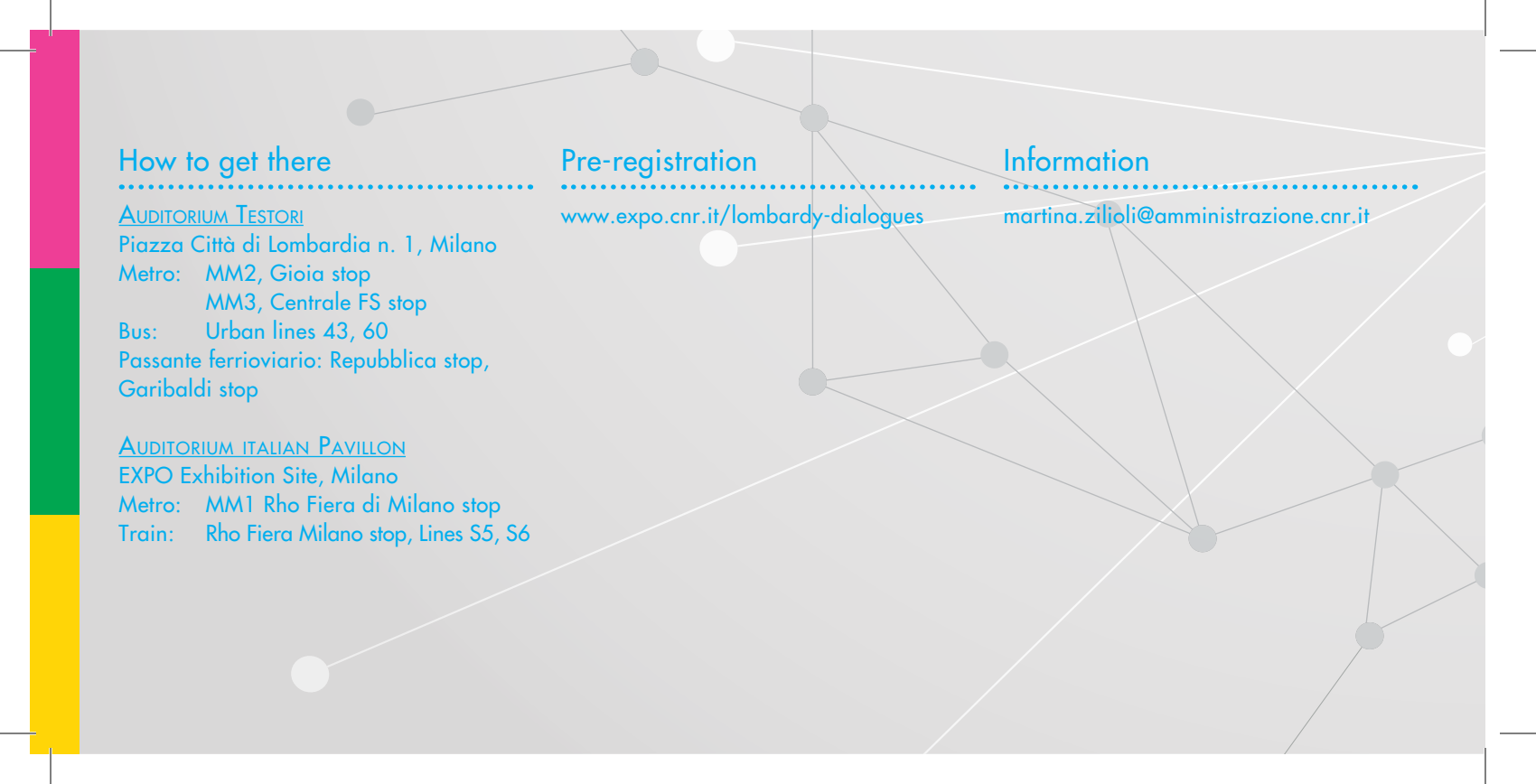
## Resources from biowaste: an integrated model for virtuous communities

Massimo Centemero, Consorzio Italiano Compostatori  
Silvana Castelli, IBBA-CNR

## Climate services for the management of environmental resources

Andrea Tilche, Directorate-General for Research and Innovation, European Commission

## Discussion



## How to get there

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### AUDITORIUM TESTORI

Piazza Città di Lombardia n. 1, Milano

Metro: MM2, Gioia stop  
MM3, Centrale FS stop

Bus: Urban lines 43, 60

Passante ferroviario: Repubblica stop,  
Garibaldi stop

### AUDITORIUM ITALIAN PAVILLON

EXPO Exhibition Site, Milano

Metro: MM1 Rho Fiera di Milano stop

Train: Rho Fiera Milano stop, Lines S5, S6

## Pre-registration

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[www.expo.cnr.it/lombardy-dialogues](http://www.expo.cnr.it/lombardy-dialogues)

## Information

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## Organizzazione Committee

Paola Botti, Milena Brasca, Incoronata Galasso, Silvana Castelli, Martina Zilioli

## Scientific Committee

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## Graphic Design

Martina Zilioli & Riccardo Simi



## Lombardy Dialogues

