# **Final Program**



6 - 10 September 2020 Organized by





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### **1.1 Conference Location**

The Conference itself is held at



University of Leuven/Campus Ghent BUILDINGS L/M - ROOMS L226 and M228 Gebroeders de Smetstraat 1 9000 Ghent Tel: +32.9 265 86 10 Email: iiw.gent@kuleuven.be See the Campus map for more info at the back of the programme.

The meeting rooms are in the buildings M & L located to the LEFT of the main entrance of the campus. (the way to the meeting rooms will be signposted) Registration will start on Sunday at 4.00 p.m. and end at 5.30 p.m. On Monday from 8.00 a.m. till 5.00 p.m. On Tuesday from 8.30 a.m. till 5.00 p.m. On Wednesday from 8.30 a.m. till 4.00 p.m. The registration desk will be located in front of room L226 on the same level as the meeting rooms in Building L/M.

### **Reaching the University Leuven – Campus Ghent**

### By Plane:

Ghent lies some 40 km to the west of the airport of Brussels and some 70 kms from Charleroi-(Brussels South Airport) if you fly <u>Ryanair</u>. See below how to get reach Ghent from these different airports.

On arrival at <u>Brussels Airport</u>, probably with <u>Brussels Airlines</u> take a train towards Brussels, where you can change trains for Ghent at either Brussels North, Central or South (Midi). At each of these stations you can take the IC-Train either to Ostend, Knokke-Blankenberge or De Panne and exit in Ghent Sint-Pieters station. First stop after Brussels. (travel time approx. 35 mins)

From <u>Charleroi airport</u> you can take a bus to Charleroi Station. From there you take the train to Brussels South and change trains there for Ghent. At this station you can take the IC-Train either to Ostend, Knokke-Blankenberge or De Panne and exit in Ghent Sint-Pieters station. First stop after Brussels. (travel time approx. 35 mins)

### By Train:

From Germany see the <u>German Railway Information Site</u> and also check the information on the <u>ICE train</u> from Cologne to Brussels.

From London see the <u>EUROSTAR Information Site</u> for information on trains between London and Brussels.

From Paris see the <u>THALYS Information Site</u> for information on trains between Paris and Brussels.

From Amsterdam see the <u>THALYS Information Site</u> for information on trains between Amsterdam (Schiphol Airport) and Brussels. If you take this train then you can also change trains in Antwerp and take the Ostend or Lille bound trains to reach Ghent Sint-Pieters station.

More information about timetables of trains in Belgium.

### By Tram:

Ghent has an excellent network of trams and busses run by the <u>De Lijn</u> company which cover everywhere you could wish to go. You can buy tickets from De Lijn offices, some newsagents, ticket machines at the bus/tram stops, by SMS or from the drivers. Tickets bought before boarding are substantially cheaper than those bought from the drivers and the present-time cost of a single ticket, bought in advance, is 1.20 Euro (2 Euro if bought on the vehicle). Single tickets must be validated in the machine on board and are then good for 60 minutes. There are also day tickets (dagpas) valid for 24, 72 or 120 hours costing respectively 5, 10 and 15 Euros. These also must validated at the start of the first journey. The machines are quite simple to use and those at the train station have several language options. Payment can be credit/debit card or cash and the machines give change for notes up to 10 Euro. To view the tram network go to this <u>webpage</u>. The tram to take is line 4 direction Rabot/Moscou from Ghent Sint-Pieters Station.

### By Bus:

You can reach Ghent from anywhere in Europe by <u>EUROLINES</u>. The EUROLINES coach stops at Ghent St.Pieters Station and at Ghent Dampoort. Within to use a bus Ghent see the information on <u>De Lijn</u> website.

### ALL OTHER MAPS ARE AT THE BACK OF THIS PROGRAMME

### 1.2 Badges

Each registrant will receive a name badge upon registration. The badge must be worn in order to be admitted to the technical sessions, lunches and social event.

### 1.3 Tickets

Extra tickets for the social event and lunches are available from the Registration desk. (<u>at conference prices</u>)

Price: (or equivalent in another currency) for extra tickets. All participants will be issued with tickets for lunch and the conference dinner. **Or just the badge will apply.** 

| conference dinner: | € 60       |
|--------------------|------------|
| lunch              | € 25/lunch |
| conference visit   | € 20       |

### 1.4 Registration

The **FOODSIM'2020** Registration Desk will be open for information and registration **in front of meeting room L226** on the second floor of **BUILDING L** in the same hallway as the meeting rooms:

Sunday, September 6......4.00 p.m. to 05.30 p.m. Monday, September 7......8.00 a.m. to 05.00 p.m. Tuesday, September 8......8.30 a.m. to 05.00 p.m. Wednesday, September 9....8.30 a.m. to 04.00 p.m.

### **1.5 Conference Proceedings**

Each fully paid registrant will be provided with a copy of the Conference Proceedings (printed format and/or electronic format) after the conference. Price: (or equivalent in another currency) for an extra printed copy

| FOODSIM'2020 Proceedings | € 50 plus shipping costs  |
|--------------------------|---------------------------|
|                          | and VAT* (*when required) |

Other Proceedings can be ordered from the EUROSIS website.

### 1.6 Meeting Rooms

The meeting rooms are rooms L226 and M228, located to the left of the main entrance of the University entrance in BUILDING L/M on the second floor. To enter the buildings use the ground floor entrance for Building L. Directions to the rooms will be signposted. The SCIFI-IT'2020 sessions are in ROOM M210

### **1.7 Internet Connection**

There is full free WIFI at the conference site. Participants are advised to log in using their EDUROAM account.

### 1.8 Need Help?

Please see the conference desk in front of **ROOM L226** for your questions

### **1.9 Social Events and Lunches**

All registrants are invited: To the Welcome Drink on Sunday September 6<sup>th</sup>. Coffee Breaks and the lunches for 3 days and the Conference Dinner on Tuesday the 9<sup>th</sup> of September at De Foyer. All meals will be COVID compliant.



To the Conference Dinner

University of Leuven/Campus Ghent Gebroeders de Smetstraat 1 9000 Ghent Tel: +32.9 265 86 10



The conference dinner will be held on **Tuesday the 9th of April** in the evening at the **Brasserie de Foyer** Sint-Baafsplein 17 9000 Gent Tel:+ 32.9 234 13 54 Email: info@foyerntgent.be Website: http://foyerntgent.be



General Information

### 1.10 Best Paper Award

During the conference the papers, which were accepted as extended papers will be judged by the committee and participants in order to choose the best paper of the FOODSIM'2020 conference. The best paper candidate receives a certificate signed by the General Conference and Program Chairs and also a free registration to any EUROSIS conference within 2 years of receipt of the prize.

### 1.11 Paper Legend:

Each paper is designated before each paper by its number. This number has to be entered on the form for the best paper award.

### The room has an LCD projector and an overhead projector

### **SESSION CHAIRPERSONS**

ALL SESSION CHAIRPERSONS IN THIS PROGRAM ARE PROVISIONAL. Session Chairs are chosen on a voluntary basis by proposals by either authors or local committee members or are appointed by the Track Chairs, General Program Chair or General Conference Chair. They are responsible for their assigned session. They make sure their speakers are available, take care of the timing within the session, chair the discussion after each presentation and introduce each speaker based on the CV's given to them by the authors. If a session chair is not available then the first author takes on the responsiblity to chair

<u>Sessions with extended papers</u>: If you are a session chair in a session with extended papers make sure the session participants have a copy of the best paper award form and ask them to return them to you at the end of the session. After the session hand over the collected forms to Philippe Geril.

THE NUMBERS NEXT TO THE PRESENTATIONS DENOTE THE PAGE-NUMBERS IN THE PROCEEDINGS. IF NO NUMBERS ARE MENTIONED THEN THIS PAPER IS NOT PUBLISHED IN THE PROCEEDINGS

### THE AUTHORS WHO ARE UNDERLINED ARE NORMALLY THE PRESENTERS

ONLY PAPERS IN GREY BOXES ARE THE EXTENDED PAPERS ELIGIBLE FOR THE BEST PAPER AWARD

PAPER NUMBERS IN THE FINAL PROGRAMME FOLLOWED BY "ONL" MEAN THESE PAPERS WILL BE PRESENTED ONLINE

| SUNDAY      | , 6 <sup>th</sup> SEPTEMBER 2020  |                                    |  |
|-------------|---|------------------------------------|--|
| 16.00-17.30 | REGISTRATION IN FRONT OF ROOM L-226, BUILDING L, 2 <sup>ND</sup> FLOOR              |                                    |  |
| 17.30-18.30 | COST VIRTUAL COMMITTEE MEETING M-210 SECO   | ND FLOOR BUILDING M                |  |
| 16.00-19.00 | WELCOME DRINK IN MEETING SPACE IN FRONT O   | F ROOM L-226, 2ND FLOOR BUILDING L |  |
| MONDAY      | 7, 7 <sup>th</sup> SEPTEMBER 2020   |                                    |  |
| 08.00-17.00 | REGISTRATION IN FRONT OF ROOM L226, BUILDIN   | G L, 2 <sup>ND</sup> FLOOR         |  |
| 09.00-09.30 | MAIN MEETING ROOM BUILDING L ROOM L-226 – 2ND FLOOR<br>INTRODUCTION TO FOODSIM 2020 |                                    |  |
|             |   |                                    |  |
| 09.30-10.30 | KEYNOTE SESSION BUILDING L ROOM L-226   |                                    |  |
|             | ROOM A<br>L-226   |                                    |  |
|             | KEYNOTE SPEAKER<br>FERRUH ORDOGDU (ONLINE PRESENTATION)                             |                                    |  |
| 10.30-11.00 | COFFEE BREAK  |                                    |  |
| 11.00-12.30 | PARALLEL SESSIONS BUILDING L/M -2 <sup>ND</sup> FLOOR                               |                                    |  |
|             | ROOM AROOM BL-226M-228  |                                    |  |
|             | FOOD PROCESS<br>SYSTEMS ENGINEERING I   | COST<br>FOOD_MC I                  |  |
| 12.30-13.30 | LUNCH BREAK MEETING AREA IN FRONT OF ROOM L-226                                     |                                    |  |
| 13.30-15.30 | PARALLEL SESSIONS BUILDING L/M-2 <sup>ND</sup> FLOOR                                |                                    |  |
|             | ROOM A<br>L-226   | ROOM B<br>M-228                    |  |
|             | FOOD PROCESS<br>SYSTEMS ENGINEERING II  | COST<br>FOOD_MC II                 |  |
| 15.30-16.00 | COFFEE BREAK  |                                    |  |
| 16.00-18.00 | SESSION BUILDING L/M-2 <sup>ND</sup> FLOOR  |                                    |  |
|             | ROOM A<br>L-226   | ROOM B<br>M-228                    |  |
|             | MULTI-SCALE<br>MODELLING APPROACHES   | COST<br>FOOD_MC III                |  |
| 18.30-20.30 | SOCIAL EVENT MORE INFO AT THE CONFERENCE  |                                    |  |

| 08.30-17.00  | Y, 8 <sup>th</sup> SEPTEMBER 2020<br>REGISTRATION IN FRONT OF ROOM L-226, BUILDING L, 2 <sup>ND</sup> FLOOR |                      |  |
|--------------|---|----------------------|--|
| 09.00-10.00  | KEYNOTE SESSION BI  | JILDING L ROOM L-226 |  |
|              | ROC   |                      |  |
|              | L-:   | 26                   |  |
|              | KEYNOTE SPEAKER<br>GAVIN GIBSON (ONLINE PRESENTATION)   |                      |  |
| 10.00-10.30  | COFFEE BREAK  |                      |  |
| 10.30-12.30  | PARALLEL SESSIONS BUILDINGS L/M -2 <sup>ND</sup> FLOOR  |                      |  |
|              | ROOM A<br>L-226   | ROOM B<br>M-228      |  |
|              | INNOVATIVE<br>FOOD PRODUCTION<br>AND<br>PROCESSING TECHNOLOGIES I   | FOOD<br>SAFETY I     |  |
| 12.30-13.30  | LUNCH BREAK MEETING AREA IN FRONT OF ROOI   | Л L-226              |  |
| 13.30-14.30  | KEYNOTE SESSION BUILDING L ROOM L-226   |                      |  |
|              | ROOM A<br>L-226<br>KEYNOTE SPEAKER<br>ASHIM DATA (ONLINE PRESENTATION)                                      |                      |  |
|              |   |                      |  |
| 14.30-15.00  | COFFEE BREAK  |                      |  |
| 15.00-17.30  | PARALLEL SESSIONS BUILDINGS L/M -2 <sup>ND</sup> FLOOR  |                      |  |
|              | ROOM A<br>L-226   | ROOM B<br>M-228      |  |
|              | INNOVATIVE<br>FOOD PRODUCTION<br>AND<br>PROCESSING TECHNOLOGIES II  | FOOD<br>SAFETY II    |  |
| 17.30 –18.30 | PARALLEL SESSIONS BUILDINGS L/M -2 <sup>ND</sup> FLOOR  |                      |  |
|              | ROOM A<br>L-226   | ROOM B<br>M-228      |  |
|              | INNOVATIVE<br>FOOD PRODUCTION<br>AND<br>PROCESSING TECHNOLOGIES III   | FOOD<br>SAFETY III   |  |
| 19.30-23.00  | Conference dinner   |                      |  |

| 08.30-16.00   | REGISTRATION IN FRONT OF ROOM L-226, BUILDING L, 2 <sup>ND</sup> FLOOR |                 |  |
|---------------|--|-----------------|--|
| 09.00-10.00   | KEYNOTE SESSION BUILDING L ROOM L-226                                  |                 |  |
|               | ROC<br>L-2   | DM A            |  |
|               |  |                 |  |
|               | KEYNOTE SPEAKER<br>MASAMI T TAKEUCHI (ONLINE PRESENTATION)             |                 |  |
| 10.00-10.30   | COFFEE BREAK   |                 |  |
| 10.30-12.30   | SESSIONS BUILDINGS L/M   |                 |  |
|               | ROOM A<br>L-226  | ROOM B<br>M-228 |  |
|               | CLIMATE CHANGE<br>I  |                 |  |
| 12.30-13.30   | LUNCH BREAK  |                 |  |
| 13.30-14.30   | SESSIONS BUILDINGS L/M   |                 |  |
|               | ROOM A<br>L-226  | ROOM B<br>M-228 |  |
| Software Demo |  |                 |  |
| 14.30-16.00   | SESSIONS BUILDINGS L/M   |                 |  |
|               | ROOM A<br>L-226  | ROOM B<br>M-228 |  |
|               | CLIMATE CHANGE<br>II   |                 |  |
| 16.00-16.30   | COFFEE BREAK   |                 |  |
| 16.30-18.00   | SESSIONS BUILDINGS L/M   |                 |  |
|               | ROOM A<br>L-226  | ROOM B<br>M-228 |  |
|               | SUSTAINABLE<br>FOOD SYSTEMS  |                 |  |
| 18.00-18.15   | CLOSING SESSION FOODSIM'2020 AND BEST PAPER AWARD ROOM A L-226         |                 |  |
|               |  |                 |  |
| THURSDA       | AY, 10 <sup>th</sup> SEPTEMBER 2020                                    |                 |  |
| 09.00-18.00   | MEETING ROOM M 210 ITN_PROTECT WORKSHOP                                |                 |  |

16.00 - 17.30

HALLWAY BUILDING L –  $2^{ND}$  Floor Registration in front of Room L-226

17.30- 18.30 COST VIRTUAL COMMITTEE MEETING M-210 - 2<sup>ND</sup> FLOOR BUILDING M

16.00 - 18.00 WELCOME DRINK IN MEETING SPACE IN FRONT OF ROOM L-226, 2<sup>ND</sup> FLOOR BUILDING L



### REGISTRATION

08.00 - 17.00

IN FRONT OF ROOM L226, BUILDING L, 2ND FLOOR

09.00 - 09.30

MAIN ROOM L 226 BUILDING L – 09.00-09.30 WELCOME ADDRESS **WELCOME** 

# Introduction to FOODSIM'2020 and SCIFI-IT'2020

Jan F.M. Van Impe, Katholieke Universiteit Leuven, Campus Ghent, Belgium FOODSIM'2020, General Conference Chair

09.30 - 10.30

**ROOM A – L 226 – 09.30-10.30 KEYNOTE ADDRESS**  KEYNOTE



KEY\_03\_ONL <u>Conventional and Innovative Processing Techniques</u> <u>towards better Process Design</u> <u>Ferruh Erdogdu</u>, Ankara University, Department of Food Engineering, Golbasi-Ankara, Turkey

niques of Food

10.30 - 11.00 COFFEE BREAK

11.00 - 12.30

### ROOM A – L-226 - 11.00-12.30 PSE FOOD PROCESS SYSTEMS ENGINEERING I - METHODOLOGY

### FOOD\_PROC\_SYS\_07

### Cultivation and Monitoring of a Gut Microbiota Model System

<u>Theodora Akritidou</u>, Cindy Smet, Simen Akkermans and <u>Jan FM Van Impe</u>, Department of Chemical Engineering, KU Leuven BioTeC - Chemical and Biochemical Process Technology and Control CPMF2, Flemish Cluster Predictive Microbiology in Foods, Ghent, Belgium

### FOOD\_PROC\_SYS\_10

# Introducing Sexual Selection in Genetic Multi-Objective Optimisation Algorithms

<u>Viviane De Buck</u>, Ihab Hashem, <u>Mihaela Luliana Sbarciog</u> and Jan F.M. Van Impe, BioTeC+, KU Leuven, Ghent, Belgium

### FOOD\_PROC\_SYS\_11

# Studying the Growth and Substrate Consumption of Pichia Pastoris for the Bioproduction of Recombinant Proteins

<u>Jewel Ann Joseph</u>, Simen Akkermans and Jan F.M. Van Impe, CPMF2, Flemish Cluster Predictive Microbiology in Foods BioTeC+ & OPTEC, Department of Chemical Engineering, KU Leuven, Ghent, Belgium

### ROOM B – M-228 - 11.00-12.30 COST FOODMC I – ENVIRONMENTAL MODELLING AND PEST CONTROL

### COST-FOODMC\_03\_ONL

### Environmental Modeling in the Food Supply Chain - Future Perspectives

<u>Ilija Djekic</u>, Faculty of Agriculture, University of Belgrade, Belgrade - Zemun, Serbia, and Jan Van Impe KU Leuven, Department of Chemical Engineering - BioTeC+, Gent, Belgium and <u>Alberto Tonda</u>, INRAE, Thiverval-Grignon, France

### COST\_FOODMC\_02\_ONL

"Population Dynamics of the European Corn Borer, Ostrinia Nubilalis, Adults in Slovenian Hop Gardens in 1999-2018"

<u>Magda Rak Cizej</u>, Plant Protection Department, Slovenian Institute of Hop Research and Brewing, Zalec, Slovenia and Pasquale Trematerra, Department of Agricultural, Environmental and Food Sciences, University of Molise, Campobasso, Italy

### COST\_FOODMC\_05

### Forecasting the Distribution of Phosphine and Insect Mortality in Cylindrical Grain Silos with Computational Fluid Dynamics for Precision Fumigation: Model Validation with Field Trials

Paraskevi Agrafioti and <u>Christos G. Athanassiou</u>, Laboratory of Entomology and Agricultural Zoology, Department of Agriculture, Crop Production and Rural Environment, University of Thessaly, Volos, Magnesia, Greece, and Efstathios Kaloudis and Sotiris Bantas, Centaur Analytics, Inc., Ventura, CA, USA and Vasilis Sotiroudas, Agrospecom, Thessaloniki, Greece

### COST\_FOODMC\_04\_ONL

### **Durable Pasta Packaging with Bio-Based Barrier to prevent Insect Infestation** <u>Urška Vrabic Brodnjak</u> and Jon Jordana, University of Ljubljana, Faculty of Natural Sciences and Engineering, Department of Textiles, Graphic Arts and Design, Ljubljana, Slovenia and Pasquale Trematerra, University of Molise, Department of Agricultural, Environmental and Food Sciences, Campobasso, Italy

### 12.30 - 13.30 LUNCH BREAK MEETING AREA IN FRONT OF ROOM L-226

13.30 - 15.30

### ROOM A – L 226 - 13.30-15.30 PSE FOOD PROCESS SYSTEMS ENGINEERING II – SOLIDS AND LIQUIDS

### FOOD\_PROC\_SYS\_01

Modelling Drying of Food Products under Large Deformation: A Simple Realistic Approach

<u>Bianca Cristine Marques</u> and Carmen Cecilia Tadini, University of São Paulo, Escola politécnica, Chemical Engineering Department, and FoRC/NAPAN Food Research Center, São Paulo, SP, Brazil and <u>Artemio Plana-Fattori</u> and Denis Flick, Université Paris-Saclay, INRAE, AgroParisTech, UMR SayFood, Massy, France

### FOOD\_PROC\_SYS\_04

# Mathematical Modelling of the Rehydration Process of Dried Broccoli (Brassica oleracea L. var. Italica) Stems

<u>Irem Erdem</u>, Department of Food Engineering, Afyon Kocatepe University, Afyonkarahisar, Turkey and <u>Cristina L.M.Silva</u>, Universidade Católica Portuguesa, CBQF, Escola Superior de Biotecnologia, Porto, Portugal

### FOOD\_PROC\_SYS\_05

# 3D Simulation of Oxidation Reactions in Real Deep Fryer: Interactions with Anisothermal Oil Flow and Design

<u>Maxime Touffet</u>, Paul Smith and Joël Wallecan, Cargill R&D Centre Europe, Vilvoorde, Belgium and Mohammed Hatem Allouche, UMR 6303 CNRS-Université de Bourgogne Franche-Comté, Dijon, and Olivier Vitrac, UMR 1145 Food Processing and Engineering, INRAE, AgroParisTech, Université Paris-Saclay, Massy, France

### FOOD\_PROC\_SYS\_08 Observer-Based Predictive Control of a Continuous Co-Fermentation Process for Ethanol Production

<u>Mihaela Iuliana Sbarciog</u>, Satyajeet Bhonsale and Jan F.M. Van Impe, BioTeC+, Department of Chemical Engineering, KU Leuven, Ghent, Belgium

### FOOD\_PROC\_SYS\_09

Multiobjective Optimal Control of Beer Fermentation Process using Pomodoro Satyajeet Bhonsale, Mihaela Iuliana Sbarciog and Jan F.M. Van Impe, BioTeC+ & OPTEC, Department of Chemical Engineering, KU Leuven CPMF2, Flemish Cluster Predictive Microbiology in Foods, Ghent, Belgium

### ROOM B – M 228 - 13.30-15.30 FOODMC II – FOOD PRODUCTION AND BUSINESS

COST

### COST\_FOODMC\_06\_ONL

Modelling Food Business in the Context of Agriculture 4.0

<u>Eugen Pop</u>, IPA S.A, R&D Institute for Automation, Bucharest and <u>Alexandina Sirbu</u>, "Constantin Brancoveanu" University, Ramnicu Valcea, and Mihnea Alexandru Moisescu and Simona Iuliana Caramihai, Automatics and Industrial Informatics Department and Ioan Stefan Sacala and Ioan Dumitrache, Automatic Control and Systems Engineering Department, Bucharest, Romania

### COST\_FOODMC\_11\_ONL

Visualizing FoodMC Network, Graph Database and a Visualization Web Tool Kamal Kansoua, INRAE, BIA, Nantes and Christophe Fernandez, INRAE, I2M,Université de Bordeaux, CNRS, Bordeaux INP, Arts et Métiers Paris tech, Talence, France

### COST\_FOODMC\_14 Monitoring Honey Bees using a Sensor Network

Andrzej Sobecki, <u>Julian Szymanski</u> and Tymoteusz Cejrowski, Faculty of Electronics, Telecommunications and Informatics, Department of Computer Architecture, Gdansk University of Technology, Gdansk, Poland

### COST\_FOODMC\_10\_ONL

# Assessment of Quality Management System in Beverage Industry based on Fuzzy Modelling

Mirza Uzunovic, Aleksandra Nikolic, Dusanka Boskovic

### FOOD\_MC\_15\_ONL

### A Study on Reverse Logistics within Agri-Food Supply Chains

<u>Maria Varadinov</u> and <u>João Miranda</u>, Instituto Politécnico de Portalegre, and C3i -Coordenação Interdisciplinar para a Investigação e a Inovação and CERENA - Centro de Recursos Naturais e Ambiente, Instituto Superior Técnico, Universidade de Lisboa, IST, Lisboa, Portugal

### FOOD\_MC\_15\_ONL

# Computational Complexity Studies on the Robust Design and Scheduling of Chemical Batch Processes

<u>João Miranda</u>, Instituto Politécnico de Portalegre, Portalegre, Portugal, CERENA -Centro de Recursos Naturais e Ambiente, Instituto Superior Técnico, Universidade de Lisboa, IST, Lisboa, Portugal

### FOOD\_MC\_17\_ONL

# Modeling of Consumer and Functional Properties of Pastry based on Natural Ingredients

Kateryna Iorgachova, Olga Makarova, <u>Kateryna Khvostenko</u>, Department of Bread, Confectionary, Pasta and Food Concentrates Technologies, Odessa National Academy of Food Technologies, Odessa, Ukraine

### 15.30 - 16.00 COFFEE BREAK

16.00 - 18.00

### ROOM A – L 226 - 16.00-18.00 MULTI-SCALE MODELLING METHODS

**MULTI-SCALE** 

### FOOD\_MULTI\_MOD\_01\_ONL

### **Computational Simulation of Steak Pan Cooking**

Jara Ma Moya, Jose Angel Bernad and Silvia Lorente-Bailo, Universidad de Zaragoza, Zaragoza. Spain

### FOOD\_MULTI\_MOD\_02\_ONL

Transient DEM Simulation of Starch Granule Suspension undergoing Thermal Treatment

<u>Arnesh Palanisamy</u>, <u>Artemio Plana-Fattori</u>, Paul Menut, Marco Ramaioli and Denis Flick, Université Paris Saclay, INRAE, AgroParisTech, UMR SayFood, Massy, France

### FOOD\_MULTI\_MOD\_06 Agent-Based Modeling of Crop Irrigation

<u>Jorge Lopez-Jimenez</u>, <u>Laurent Dewasme</u> and A. Vande Wouwer, Automatic Control Laboratory, University of Mons, Mons, Belgium, and Nicanor Quijano, Ingeniera Electrica y Electronica Department, Universidad de los Andes, Colombia

### FOOD\_MULTI\_MOD\_04

### **Regulation of Aggression in Bacterial Warfare**

<u>Ihab Hashem</u>, Viviane De Buck, <u>Mihaela Iuliana Sbarciog</u> and Jan F.M. Van Impe, BioTeC+ & OPTEC, Department of Chemical Engineering, KU Leuven CPMF2, Flemish Cluster Predictive Microbiology in Foods, Ghent, Belgium

### ROOM B – M 228 - 16.00-18.00 FOODMC III – FOOD PRODUCTION OPTIMIZATION

COST

### COST\_FOOD\_MC\_07\_ONL

Modeling of Supercritical CO2 Extraction Processes for the Selection of Productive Strategies

<u>J. Bon</u>, L. Torró, N. Sanjuan and J. Benedito, Food Technology Department, Universitat Politècnica de València, and M.García, AINIA Research Center, Valencia, Spain

### COST\_FOODMC\_08\_ONL

Optimization of the Pasteurization Process of Andalusian Gazpacho: Simulation of the Food Temperature Evolution inside the Plate Heat Exchanger J. Bon, D. Fita, M.P. Villalba, N. Sanjuan and J. Benedito, Food Technology Department, Universitat Politècnica de València, and M.García, AINIA Research Center, Valencia, Spain

### **COST\_FOODMC\_09\_ONL Hyperspectral Data Analysis for Mould Detection in Cheeselets** Jessica Farrugia, Kenneth Camilleri and Owen Falzon, Centre for Biomedical Cybernetics and Sholeem Griffin, Vasilis Valdramidis, Department of Food Sciences and Nutrition, Faculty of Health Sciences, University of Malta, Msida, Malta

COST\_FOODMC\_18\_ONL Investigation of Rheological Properties of Different Gluten Free Cake Batter Formulations by Using LAOS Method Esra Özyigit, Ismail Eren, Seher Kumcuoglu, Sebnem Tavman, Turkey

### COST\_FOODMC\_19\_ONL

# ANOVA and Multidimensional Statistical Methods in Assignment of Diet Supplementation on Quails Egg Quality

Malgorzata Korzeniowska, Department of Functional Food Products Development and Agnieszka Kita Department of Food Storage and Technology, Wroclaw University of Environmental and Life Sciences, Wroclaw, Poland

### 18.30 - 20.00 SOCIAL EVENT – MORE INFO AT THE CONFERENCE

REGISTRATION

08.30 - 17.00

IN FRONT OF ROOM L226, BUILDING L, 2ND FLOOR

### 09.00 - 10.00

ROOM A – L 226 – 09.00-10.00 KEYNOTE ADDRESS

## **KEYNOTE**



KEY\_02\_ONL <u>The role of Stochastic Models in controlling Epidemics in</u> <u>Food-Production Systems</u> Gavin Gibson, Heriot-Watt University, Edinburgh, Scotland, United Kingdom

10.00 - 10.30 COFFEE BREAK

10.30 - 12.30

ROOM A – L226 - 10.30-12.30 INNOVATIVE FOOD PRODUCTION AND PROCESSING TECHNOLOGIES I - SOLIDS

### INNOV

**FOOD\_INNOV\_01 Stress Concentration in a Dough Gas Cell Wall** <u>Kossigan B. Dedey, Tiphaine Lucas</u> and <u>David Grenier</u>, Université Rennes 1, INRAe, UR OPAALE, and Université européenne de Bretagne, Rennes, France

FOOD SAFETY

### FOOD\_INNOV\_04 Fast Growth of Eyes in Semi-Hard Cheese: Optimization of a Two-Steps Process using Numerical Simulations

Antoine Lejeune, Yves Diascorn, <u>Tiphaine Lucas</u>, <u>David Grenier</u>, IRSTEA, UR TERE, Rennes, France

### FOOD\_INNOV\_12

# Analysis of High-Frequency Atmospheric Plasma for Growth of Mung Bean in a Closed System at Extreme Conditions

Dmytro Kozak, Estefanía García Rodríguez, Renald Blundell, Vladimir S Tsepelev, Simen Akkermans, Jan F.M. Van Impe, <u>Vasilis Valdramidis</u>, Ruben Gatt, Chemical & Biochemical Process Technology & Control (BioTec+), Department of Chemical Engineering, KU Leuven, Belgium; and Metamaterials Unit, Faculty of Science, University of Malta, Msida, Malta; and Research Center for Metallic Liquids Physics, Ural Federal University (UrFU), Ekaterinburg, Russia; and Department of Food Sciences and Nutrition, Faculty of Health Sciences; and Department of Physiology and Biochemistry, Faculty of Medicine and Surgery, and Centre for Molecular Medicine and Biobanking, University of Malta, Msida, Malta

### ROOM B – M228 - 10.30-12.30 FOOD SAFETY I – MICROBIAL DETECTION

### FOOD\_SAFE\_07

Non-Culturable Salmonella Enterica Ser. Typhimurium in Foods in Simulated Gastric and Enteric Fluid by Flow Cytometry

Anthimia Batrinou, <u>Efstathia Tsakali</u>, <u>Dimitra Houhoula</u> and Dimitrios Timpis, Department of Food Science and Technology, University of West Attica, Egaleo and Spiridon Konteles, Regional Division of Attica, EFET Hellenic Food Authority, Athens, Greece

### FOOD\_SAFE\_09

# Detection of Brucella spp. in Milk and Blood Samples of Ruminants Animals by PCR

Ioannis Dimou, Ekaterini Samioti, Dionisis Antonopoulos, Anthimia Batrinou, <u>Spiridon Konteles</u>, Valentini Stefanou, Spiridon Papatheodorou, <u>Efstathia Tsakali</u> and <u>Dimitra Houhoula</u>, Department of Food Science and Technology, University of West Attica, Egaleo, and Dimitrios Vourvidis, and Anna Kyrma, Laboratory of Brucellosis and Bacterial Disease Serology, Department of Diagnostic Pathology, Anatomy, Histology and Microbiology, Directorate of Athens Veterinary Center, Ministry of Rural Development and Food, Agia Paraskevi, Athens, Greece

12.30 - 13.30 LUNCH BREAK

13.30 - 14.30

ROOM A – L 226 – 13.30-14.30 KEYNOTE ADDRESS **KEYNOTE** 



KEY\_01\_ONL <u>Food Process Simulation: Developing Community</u> <u>Resources for Manufacturing, Education and Research</u> <u>Ashim Datta</u>, Cornell University, College of Agriculture and Life Sciences, Ithaca, NY, USA

14.30 - 15.00 COFFEE BREAK

15.00 - 17.00

### ROOM A – L226 - 15.00-17.30 INNOVATIVE FOOD PRODUCTION AND PROCESSING TECHNOLOGIES II - LIQUIDS

INNOV

FOOD\_INNOV\_10

### Temperature Evolution inside Liquid Foods of Different Viscosity during Reciprocal Agitated Processing in the Shaka Retort

<u>Davy Verheyen</u> and Jan F. Van Impe, KU Leuven, Dept. of Chemical Engineering, BioTeC+ & OPTEC & CPMF2, Ghent, Belgium and Ozan Altin and Ferruh Erdogdu, Dept. of Food Engineering, Ankara University, Golbasi-Ankara, Turkey and Fabrizio Sarghini, University of Naples Federico II, Dept of Agricultural Sciences, Naples, Italy Dagbjørn Skipnes and Torstein Skára, Nofima, Stavanger, Norway

### FOOD\_INNOV\_02\_ONL

# Microwave Pasteurization of Beer: A Computational Study with Experimental Validation

Ozan Karatas, Huseyin Topcam and Ferruh Erdogdu, Department of Food Engineering, Ankara University, Ankara, Turkey

### FOOD\_INNOV\_07\_ONL

# In Vitro Fermentation Kinetics of an Antarctic Yeast and Suitability for Beer Production

Juan Manuel Cevallos-Cevallos, Christian Guarco and Andrea Morales, ESPOL, CIBE, Campus Gustavo Galindo, Guayaquil, Ecuador

### FOOD\_INNOV\_14\_ONL

### Cold Plasma Treatment as a Processing Technology to modify Peanut Oil

<u>Ximena V Yepez</u> and Haci Baykara, Facultad de Facultad de Ingenieria, Mecanica y Ciencias de la Produccion, ESPOL, Guayaquil, Ecuador and Sarah Cady, Chemical Instrumentation Facility, Iowa State University, Ames, IA, USA and Kevin M. Keener, College of Engin. & Physical Sci., Univ. of Guelph, Guelph, Canada

### ROOM B – M228 - 15.00-17.30 FOOD SAFETY FOOD SAFETY II – ENVIRONMENTAL RISK ASSESSMENT I

### FOOD\_RISK\_01\_ONL

# A Quantitative Risk Assessment of E. coli O157:H7 on Ready to Eat Foods following the Application of Biomaterials on Land

Rajat Nag and Enda Cummins, UCD School of Biosystems and Food Engineering and Annetta Zintl, Bryan K Markey and Paul Whyte, UCD School of Veterinary Medicine, Belfield, Dublin, and Vincent O'Flaherty, National University of Ireland Galway, School of Natural Sciences, Galway, and Declan Bolton, Teagasc, Ashtown Food Research Centre, Ashtown, Dublin, and Owen Fenton and Karl G. Richards Teagasc, Environment Research Centre, Johnstown Castle, County, Wexford, Ireland

### FOOD\_SAFE\_01

# Microbial Deterioration of Lamb Meat of Portuguese Origin as affected by Its Intrinsic Properties

<u>Vasco A. P. Cadavez</u>, Ursula Gonzales-Barron, Diogo Félix-Oliveira, Sara Coelho-Fernandes and Gisela Santos-Rodrigues, Centro de Investigação de Montanha (CIMO), Instituto Politécnico de Bragança, Bragança, Portugal and José M. Lorenzo and Roberto Bermúdez Piedra, Fundación Centro Tecnolóxico da Carne, Parque Tecnolóxico de Galicia, San Cibrao das Vióas, Spain

### FOOD\_SAFE\_02

# Meta-Regression Models describing The Effects of Added Lactic Acid Bacteria on Pathogen Inactivation in Milk and Cheese

Beatriz Nunes Silva and José António Teixeira, Centre of Biological Engineering (CEB), Univ. of Minho, Braga and <u>Ursula Gonzales-Barron</u> and Vasco Cadavez, Centro de Investigação da Montanha (CIMO), IPB, Bragança, Portugal

17.30 - 18.30

### ROOM A – L226 – 17.30-18.30 INNOVATIVE FOOD PRODUCTION AND PROCESSING TECHNOLOGIES III – DRYING TECHNIQUES

INNOV

### FOOD\_INNOV\_03

Temperature Uniformity during Microwave Thawing: A Computational Study for Geometry and Rotation Effects

<u>Ozan Altin</u>, Huseyin Topcam, <u>Ozan Karatas</u> and <u>Ferruh Erdogdu</u>, Department of Food Engineering, Ankara University, Golbasi-Ankara, Turkey and Francesco Marra, Dipartimento di Ingegneria Industriale, Universita degli studi di Salerno, Salerno, Italy

### FOOD\_INNOV\_05 Data Acquisition for Modeling Convective Drying of Yacón (Smallanthus sonchifolius) Slices

<u>Bianca Cristine Marques</u> and Carmen Cecilia Tadini, University of São Paulo, Escola Politécnica, and FoRC/NAPAN Food Research Center, SP, Brazil and <u>Artemio</u> <u>Plana-Fattori</u>, Université Paris-Saclay, INRAE, AgroParisTech, UMR SayFood, Massy, France

### ROOM B – M228 - 17.30-18.30 FOOD SAFETY FOOD SAFETY III - ENVIRONMENTAL RISK ASSESSMENT II

### FOOD\_SAFE\_04

# Computational Heat Transfer during Horizontal Rotation Process of Particulate Canned Foods

Ferruh Erdogdu, Department of Food Engineering, Ankara University, Golbasi-Ankara, Turkey and Angela De Vivo and Fabrizio Sarghini, University of Naples Federico II, Department of Agricultural Sciences, Naples, Italy

### FOOD\_SAFE\_06

# Impact of LED Light on Pseudomonas Fluorescens and Staphylococcus Epidermidis Biofilms

<u>Valeria Angarano</u>, Cindy Smet, Simen Akkermans, Charlotte Watt and Jan F.M. Van Impe, BioTeC+, Chemical and Biochemical Process Technology and Control Department of Chemical Engineering, KU Leuven, Ghent, Belgium and Andre Chieffi, Procter&Gamble Newcastle, United Kingdom

19.30 - 23.00

### 19.30 - 23.00 CONFERENCE DINNER





Brasserie de Foyer
Sint-Baafsplein 17
9000 Gent
Tel:+ 32.9 234 13 54
Email: info@foyerntgent.be

Website: http://foyerntgent.be

Dinner - Tuesday

# Wednesday, 9<sup>th</sup> September 2020

REGISTRATION

08.30 - 16.00

IN FRONT OF ROOM L226, BUILDING L, 2ND FLOOR

09.00 - 10.00

**ROOM A – L 226 – 09.00-10.00 KEYNOTE ADDRESS**  **KEYNOTE** 



KEY\_04\_ONL <u>Risk of underestimating the Power of</u> <u>Communication in the Area of Food Safety</u> Masami T. Takeuchi, FAO, Rome, Italy

10.00 - 10.30 COFFEE BREAK

10.30 - 12.30

ROOM A – L 226 - 10.30-12.30 CLIMATE CHANGE CLIMATE CHANGE I - THE INFLUENCE OF CLIMATE CHANGE

### FOOD\_CLIM\_ENV\_01\_ONL

**Can Food Consumption Studies help in Modelling Climate Change?** <u>Ilija Djekic</u> and Igor Tomasevic, Faculty of Agriculture, University of Belgrade, Belgrade - Zemun, Republic of Serbia

# Wednesday, 9<sup>th</sup> September 2020

### ITN\_PROTECT\_03\_ONL

Framework for Decision Support System (DSS) on The Influence of Climate Change on Food Safety

<u>Gopaiah Talari</u>, Cronan McNamara, Enda Cummins, John O'Brien, Creme Global, University College Dublin, Dublin, Ireland

ITN\_PROTECT\_04 Towards a Climate Change Resilient Industry: Application to Dairy

Manufacturing

<u>Rodney J. Feliciano</u>, Géraldine Boué, and Jeanne-Marie Membré, Secalim UMR1014, INRA, ONIRIS, Nantes, and Jean-Cristophe Augustin, Danone Food Safety Center, Palaiseau, France

### ITN\_PROTECT\_05\_ONL

### Modeling Future Scenarios within the Life Cycle Assessment Framework under Climate Change Conditions: Dairy Sector as a Study Case

<u>Paola Guzmán</u>, Miguel Mauricio-Iglesias and Almudena Hospido, Universidade de Santiago de Compostela, Santiago de Compostela, Spain and Anna Flysjö, Arla Foods, Viby J, Denmark

### ITN\_PROTECT\_06\_ONL

**Considerations in Modelling Energy Demand in the Dairy Supply Chain** <u>Maria Ioanna Malliaroudaki</u>, Becca Ferrari, Rachel Gommes, Serafim Bakalis, Department of Chemical and Environmental Engineering, University of Nottingham, Nottingham, United Kingdom

12.30 - 13.30 LUNCH BREAK

13.30 - 14.30

ROOM A – L 226 - 13.30-14.30 CLIMATE CHANGE - SOFTWARE DEMO SOFWARE DEMO

### 14.30 - 16.00

### ROOM A – L 226 - 14.30-16.00 CLIMATE CHANGE CLIMATE CHANGE II – CLIMATE CHANGE AND MICROBIAL DYNAMICS

# Wednesday, 9<sup>th</sup> September 2020

### ITN\_PROTECT\_08

### ITN\_PROTECT\_ESR#3: Multi-scale Modelling Approaches for Microbial Dynamics in the Context of Climate Change: a Needs Analysis Lydia Katsini, Simen Akkermans, Satyajeet Bhonsale, <u>Styliani Roufou</u>, Sholeem

Griffin, <u>Vasilis Valdramidis</u> and <u>Jan Van Impe</u>, Katholieke Universiteit Leuven, Ghent, Belgium

### ITN\_PROTECT\_07\_ONL

### Microbial Changes in Dairy Wastewater under Climatic Stress Conditions

<u>Styliani Roufou</u> and Juan Attard, Department of Food Sciences and Nutrition, University of Malta, and Jan Van Impe, Department of Chemical Engineering, BioTec- Chemical & Biochemical Process Technology & Control, Katholieke Universiteit Leuven, Ghent, Belgium and Sholeem Griffin Vasilis P. Valdramidis, Department of Food Sciences and Nutrition; University of Malta, Malta

### ITN\_PROTECT\_01\_ONL

**Feed-to-Food Chain Framework Model for the Risk Assessment of Mycotoxins** <u>Rhea Sanjiv Chhaya</u> and Enda Cummins, Agriculture and Food Science Centre, University College Dublin, Belfield, Dublin, Ireland

### ITN\_PROTECT\_02\_ONL

### Development and validation of an Expanded Model of Geobacillus stearothermophilus Growth as a Function of Temperature, pH and Water Activity

<u>Ourania Misiou</u> and Konstantinos Koutsoumanis, DepT of Food Science and Technology, Aristotle University of Thessaloniki, Thessaloniki, Greece

### FOOD\_CLIM\_ENV\_03

# Moisture Sorption Isotherms of Coriander Leaves and Estimation of Shelf Life of Dried Coriander Leaves (Coriandrum Sativum)

Tchonkouang, R. D. N. Tchonkouang, A. M. B. Arocha and <u>M.M.C.Vieira</u>, Higher Institute of Engineering, University of Algarve, Campus da Penha, Faro, Portugal

### FOOD\_CLIM\_ENV\_04

### Effect of Temperature and Delayed Packaging on The Shelf Life of late Crop Greek Peaches and Nectarines

<u>Efstathia Tsakali</u>, Melina Aroni, Mavra Marouda, Anastasia Kanellou, John Tsaknis, <u>Dimitra Houhoula</u>, Spiridon Konteles and Dimitrios Timpis, Dept of Food Science and Technology, Univ. of West Attica, Egaleo, Athens, Greece

16.00 – 16.30 COFFEE BREAK

SUSTAIN

### 16.30 - 18.00

### ROOM A – L226 - 16.30-18.00 SUSTAINABLE FOOD SYSTEMS

### FOOD\_ECON\_02

# **Regression Analysis of Ukraine's Grain Production Transformation in Context of Climate Change**

<u>Viktor Zhukovskyv</u>, Larysa Bachyshyna and Nataliya Zhukovska, Dept of Computer Science and Applied Mathematics and Yelyzaveta Mykhailova, National University of Water and Environmental Engineering, Ukraine

### FOOD\_CHAIN\_01\_ONL

A Generic Software to support Collective Decision in Food Chains and in Multi-Stakeholder Situations

<u>Rallou Thomopoulos</u> and Julien Cufi, INRAE (IATE lab) / INRIA (GraphIK lab), Montpellier and Maxime Le Breton, Montertelot, France

### FOOD\_CHAIN\_03

# Data Driven Modelling of the Beer Aging. Formation and Release of Beer Staling Aldehydes

<u>Carlos Andre Muñoz</u>, Paula Bustillo Trueba, Barbara Jaskula-Goiris and Jan Van Impe, KU Leuven, Dept., BioTeC+, (M2S), Laboratory of Enzyme, Fermentation and Brewing Technology (EFBT), Ghent, Belgium

### FOOD\_SUSTAIN\_01\_ONL

# Silage Production from the Residues of Plantain (Musa AAB Simmonds): A Nutritional Analysis through Process Simulation

<u>James A. Gómez</u> and Óscar J. Sánchez, Research Group on Food and Agro-industry, Dept of Engineering, Universidad de Caldas, Manizales, Colombia and José A. Teixeira and Clarisse Nobre, Centre of Biological Engineering, University of Minho, Campus de Gualtar, Braga, Portugal

### 18.00 - 18.15

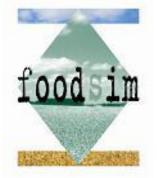
### **ROOM A – L226 - 18.00-18.15 CLOSING SESSION**

**Closing Session and Best Paper Award** 

ITN\_PROTECT

# FOODSIM'2022

# FOODSIM'2022



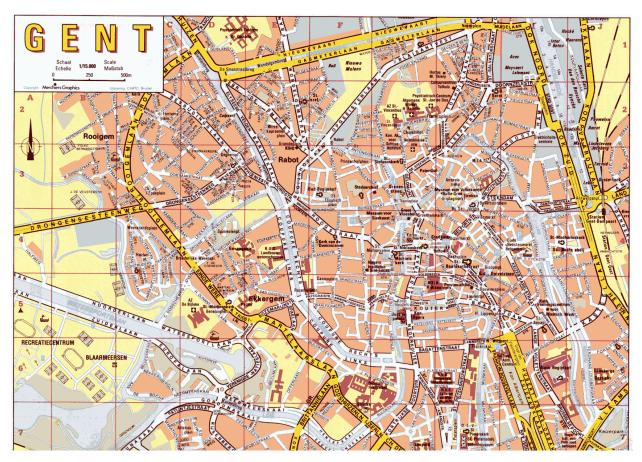
Proposals for workshops, special tracks, exhibitions etc. can be sent in by **December 2020** to <u>Philippe.Geril@eurosis.org</u> & <u>Jan.VanImpe@cit.kuleuven.be</u>

# **Conference Site Map**



The conference takes place in rooms L 226 and M 228 in Buildings L&M. The coffee breaks and lunches are in Building L in the meeting space in front of room L226

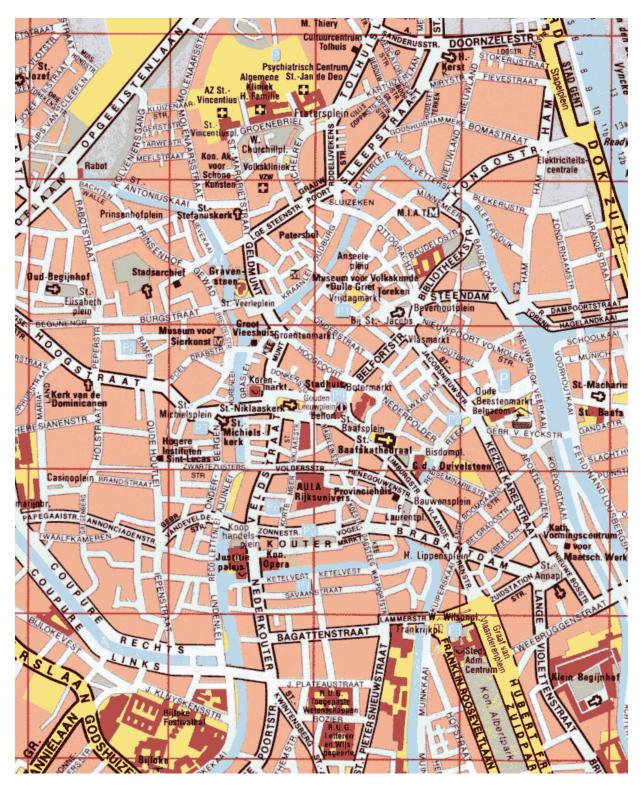
# **Conference Site Map**



You will find the conference location on this map in quadrant E3 (KIHO/ODISEE)

# **Conference Site Map**

### Conference Dinner site location from left 2 down/3 across



# NOTES

# **Conference Notes**

# **FOODSIM'2020 At-Conference Registration Form**

Please legibly print or type and fill out completely. (Check appropriate boxes where necessary)

| FIRST NAME  | LAST NAME | M.I. |   |
|---|-----------|------|---|
| COMPANY OR AFFILIATION  |           |      |   |
| Mailing address (tick one): [ ] HOME [ ] BUSINESS   |           |      |   |
| STREET  |           |      |   |
| CITY  |           |      |   |
| ZIPCODE   | COUNTRY   |      |   |
| TELEPHONE   | FAX       |      |   |
| E-MAIL  | 1         |      |   |
| DATE SIGNATURE  |           |      |   |
| <b>1. [ ] EUROSIS member</b> € 615 Member   | Number:   |      | € |
| 2. [] Members of Sponsor or Affiliate Society € 615   |           |      | € |
| 3. [ ] Non-Member Participant € 665   |           |      | € |
| 4. [] Student Participant € 515   |           |      | € |
| <b>5.</b> [] Students, who are not authors but who wish to attend the conference, or ONE DAY PARTICIPANTS pay: $\in$ 445  |           |      | € |
| (Above registration fees include, one copy of the PROCEEDINGS, all midday meals, cocktail, refreshments, coffees and social program,) One Day Participants and Non-Author Students cannot participate in the conference dinner. |           |      |   |
| 6. [ ] Tutorial registration ONLY - €30 (students) Or €80 (non students)/ per tutorial  |           |      |   |
| 6. [ ] Conference Dinner Ticket for Companion € 80 [] Lunch Ticket for Companion € 25/day []  |           |      | € |
| 7. [] Extra Conference Proceedings ${f \in}$ 50 Cash and Carry  |           |      | € |
| VAT Number if applicable:   |           |      |   |
| TOTAL AMOUNT DUE  |           |      | € |
| ADD 21% VAT (Value Added Tax) OBLIGATORY €  |           |      | € |
| TOTAL AMOUNT REMITTED   |           |      | € |

 []2)
 Pay by CREDIT CARD and fill in the information below:

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EUROSIS was borne out of discussions with the European Community to set up a new kind of Society, which would be project driven instead of driven by pure membership and conferences.

The aim of EUROSIS is to set up topic related Technical Committees which will link directly to European Projects in the field of computer simulation and related areas and to act as a knowledge pool for future European Networks of Excellence, like MOSAIC.

If you would like to receive more information about EUROSIS, please contact

Philippe Geril EUROSIS-ETI European Simulation Office Bluebridge – Ostend Science Park Wetenschapspark 1 Plassendale 1. B- 8400 Ostend, Belgium Tel: +32.59.255.330 ✓ Email: Philippe.Geril@eurosis.org

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