



Centre Prouve, 1 place de la République, F – 54000 NANCY

## Programme

### Wednesday 5 June 2019

#### Morning

8:30 Registration and coffee

#### 10:00 - Opening session

10:00 - **Pascal VIGIER**, Chairman of the Board, INRS

10:10 - **Louis LAURENT**, Director of Studies and Research, INRS

10:20 - **Philippe DUQUENNE**, co-president of the conference

#### 10:30 - Introductory session

10:30 - **Keynote Speakers: Isabelle THAON**, Centre Hospitalier Régional Universitaire Nancy (France) and **Jean-François GEHANNO**, Centre Hospitalier Universitaire Rouen (France)

*Biological risks in the workplace: health effects*

11:20 - **Keynote Speaker: Caroline DUCHAINE**, Institut universitaire de cardiologie et de pneumologie de Québec (Canada)

*Bioaerosols and microbiota: promises and challenges*

12:10 - Lunch

#### Afternoon

### Session 1 - Effects of biological agents on the health of workers

**Chairpersons:** Isabelle THAON & Mylène TROTTIER

13:30 - **Keynote Speaker: Caroline HERR**, Bavarian Health and Food Safety Authority, (Germany)  
*Relevance of exposure to infectious agents via inhalation and dermal contact at the workplace*

14:20 - **Keynote Speaker: Elisabeth BOUVET**, Haute Autorité de Santé, Université Paris-Diderot (France)  
*Examination of risks to healthcare workers throughout the world: emerging viruses and other infectious agents*

15:00 - **Dominique ABITEBOUL**, INRS (France)  
*CMV infection for early childhood jobs – state of progress*



- 15:20 - **Gaëtan DEFFONTAINES**, CCMSA (France)  
*Medical monitoring of workers after exposure to bovine TB – recommendations 2018*
- 15:40 - **Véronique CARON**, INRS (France)  
*Health effects of mould in the work environment*
- 16:00 - *Coffee break*

## Session 2 - Methods for qualitative and quantitative assessment

**Chairpersons:** Annette KOLK & Xavier SIMON

- 16:30 - **Keynote Speaker: Anne Mette MADSEN**, National Research Centre for the Working Environment (Denmark)  
*Methods and strategies for the qualitative and quantitative assessment of biological risks*
- 17:20 - **Sarah BURZONI**, INRS (France)  
*Review of existing approaches for assessing biological risks in the workplace and a critical analysis*
- 17:40 - **Stefan MAYER**, Berufsgenossenschaft Handel und Warenlogistik (Germany)  
*Assessment of health risks due to airborne bioaerosol exposure at workplaces – the new TRBA 400 of the German Federal Committee on Biological Agents (ABAS)*
- 18:00 - **Corine DE SOUZA & Corinne LE-CAER**, Centre de recherche Sanofi (France)  
*Biological risk assessment methodology adapted to research and development activities*
- 18:20 - **Stefanie KLAR**, Federal Institute for Occupational Safety and Health (Germany)  
*Measuring toxic effects of bacterial secondary metabolites on human lung cells – a link to the risk assessment of bioaerosol exposure in the workplace?*
- 18:40 - End of the day
- 18:50 - *Icebreaker party*



**Thursday 6 June 2019**

## **Morning**

08:30 - *Registration*

### **Session 2 (cont'd) - Methods for qualitative and quantitative assessment**

**Chairpersons:** *Caroline DUCHAINE & Sergey GRINSHPUN*

09:00 - **Annette KOLK**, Institute for Occupational Safety and Health of the German Social Accident Insurance (Germany)  
*Evaluation of 10 years measurement of endotoxin with LAL- and rFC-Test*

09:20 - **Xavier SIMON**, INRS (France)  
*Measurement of microorganism concentrations in the work atmosphere: sampling by filtration vs collection in liquid*

09:40 - **Clara POGNER**, Center for Health & Bioresources, (Austria)  
*Evaluation of novel quantitative bioaerosol detection systems under controlled conditions in a bioaerosol chamber*

10:10 - *Coffee break*

**Chairpersons:** *Anne Mette MADSEN & Anne OPPLIGER*

10:40 - **Carla VIEGAS**, Health & Technology Research Center (Portugal)  
*Assessment of occupational exposure to mycotoxins – Relevance of biomonitoring tools*

11:00 - **Olivier SCHLOSSER**, SUEZ, (France)  
*Predicting endotoxin exposure by measuring dust concentration: a reliable approach?*

11:20 - **Verenna LIEBERS**, Institute for Prevention and Occupational Medicine (Germany)  
*Determination of endotoxin activity – Comparison of recombinant Factor C assay with chromogen kinetic Limulus amoebocyte lysate test*

11:40 - **Dierk-Christoph POTHER**, Federal Institute for Occupational Safety and Health (Germany)  
*Assessment of occupational risks related to biological agents. What can exposure analyses tell us?*

12:00 - *Lunch*



## Afternoon

13:00 - Poster session and computer presentation

### Session 3 - Occupational exposures to biological agents

**Chairpersons:** Pierre LE CANN & Carla VIEGAS

14:00 - **Keynote Speaker: Philippe DUQUENNE**, INRS (France)

*Characteristics of bioaerosols emitted at the workplace*

14:50 - **Sigolène MORAND & Sarah MEMMI**, Inspection Médicale du Travail - Dares (France)

*Occupational exposure to biological agents: results of the Sumer survey*

15:10 - **Dierk-Christoph POTHER**, Federal Institute for Occupational Safety and Health (Germany)

*Changes in the composition of bioaerosols of workplaces in biogas plants revealed by multiplex analyses*

15:30 - **Patricia DIRRENBARGER**, INRS (France)

*Occupational exposure to bioaerosols and ammonia in biogas plants*

15:50 - **Sophie NDAW**, INRS (France)

*Liquid chromatography – high resolution mass spectrometry method for monitoring mycotoxins in urine for exposure studies*

16:10 - Coffee break

**Chairpersons:** Hélène HIRZEL & Maosheng YAO

16:40 - **Carla VIEGAS**, Health & Technology Research Center, (Portugal)

*Nasal swab as a tool to assess occupational exposure to fungi in a cork industry*

17:00 - **Anne STRAUMFORS**, National Institute of Occupational Health (Norway)

*Airborne mycobionne in the Norwegian grain industry*

17:20 - **Anne OPPLIGER**, Institut Universitaire Romand de Santé au Travail (Switzerland)

*Airborne microbiota in pig farms and impact on farmer's nasal microbiota*

17:40 - **Michèle TREMBLAY**, Direction régionale de santé publique de Montréal, (Canada)

*Monitoring of accidental occupational exposure to biological liquids (Montreal, 1999-2018): analysis strategy and designing messages of prevention*

18:00 - End of the day

19:15 - Evening event



**Friday 7 June 2019**

## **Morning**

08:15 - Registration

### **Session 4 - Prevention of biological risks in the workplace**

**Chairpersons:** Ronan LEVILLY & Beatrice SPOTTKE

- 09:00 - **Keynote Speaker: Sergey GRINSHPUN**, University of Cincinnati (United States)  
*Controlling exposure to bioaerosol particles: from air purification and microbial inactivation to respiratory protection*
- 09:50 - **Alan BESWIK**, Health & Safety Laboratory (United Kingdom)  
*The testing of decontamination systems – cross sector approaches for dealing with microbiological hazards*
- 10:10 - **Marie-Eve DUBUIS**, Université Laval (Canada)  
*Inactivation of airborne viruses using ozone*
- 10:30 - **Isabelle BALTY**, INRS (France)  
*Prevention of dust exposure risk at hanging stations in poultry slaughterhouses*
- 10:50 - Coffee break

**Chairpersons:** Isabelle BALTY & Alan BESWICK

- 11:20 - **Marie-Cécile BAYEUX-DUNGLAS**, INRS (France)  
*Implementation of airborne precautions in healthcare settings: the importance of choosing a well-adjusted respirator*
- 11:40 - **Alex BIRRELL**, CleanSpace Technology Pty Ltd (Australia)  
*An inbuilt real time respirator protection check for healthcare workers and emergency responders*
- 12:00 - **Brigitte FACON**, CRAMIF (France)  
*Exposure to bioaerosols in sorting centres for recyclable household waste. Observations and prevention measures*
- 12:20 - **Christine DAVID**, INRS (France)  
*Exposure to potentially infectious risks in sorting centres for recyclable household waste*
- 12:40 - Closing session**
- 13:00 - End of the conference**