JUNE 6-9, 2016

wmf meets IUPAC 2016

Joint meeting of the 9th Conference of The World Mycotoxin Forum® and the XIVth IUPAC International Symposium on Mycotoxins

Winnipeg Canada

www.WMFmeetsIUPAC.org
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*(at time of printing)*
WINNIPEG AND CANADA

Winnipeg is the capital of the province of Manitoba, one of the most productive places in the world to grow wheat. The long warm summer days characteristic of the Canadian prairies coupled with adequate moisture levels and fertile soil provide producers with ideal wheat-growing conditions.

Located in the geographic centre of Canada, Winnipeg is easily accessible by air from almost anywhere in the world. Winnipeg James Armstrong Richardson International Airport welcomes 3.4 million passengers annually. With in excess of 120 flights per day, the airport is serviced by major and local carriers.

Known for its friendly and welcoming spirit, Winnipeg is a diverse multicultural city with a rich and varied history. You are invited to become immersed in Winnipeg’s creative landscape of things to see and do. Visit the iconic Canadian Museum for Human Rights designed by Antoine Predock and the world-class Journey to Churchill polar bear exhibit at Assiniboine Park Zoo. Stroll through The Forks, the city’s meeting place with 54 sprawling acres of shopping, parkland, restaurants and entertainment, and a history that spans more than 6,000 years. Explore Winnipeg’s diverse neighborhoods, such as the historic Exchange District or the boho chic Osborne Village – a replica trading ship at The Manitoba Museum, or visit the Winnipeg Art Gallery, home to the world’s largest collection of Inuit art. The Winnipeg visitor guide and other information can be found at www.tourismwinnipeg.com

For those wishing to take full advantage of traveling to WMFmeetsIUPAC we recommend to enjoy Canada after the conference. Canada’s top spots include cities and landscapes, from the cosmopolitan streets of Toronto to the peaks of the Canadian Rockies: Vancouver & Vancouver Island, Banff National Park, Jasper National Park, Calgary, Okanagan, Montreal, Ottawa, Quebec City, Halifax, Niagara Falls... too numerous to mention! Places to go, things to do, and trip ideas can be found at http://uk-keepexploring.canada.travel

Mayor’s Message

On behalf of the City of Winnipeg and my city council colleagues, it is my pleasure to welcome delegates of WMFmeetsIUPAC2016 to our city. We’re proud to be your host for this event.

Winnipeg has a diverse cultural and arts community, as well as a variety of restaurants, shopping experiences, and sporting events for you to explore and enjoy. I hope that you will enjoy our warm hospitality and visit some of our iconic attractions, including our stunning Canadian Museum for Human Rights and the unique Journey to Churchill exhibit at the Assiniboine Park Zoo, and discover our vivacious communities, including Osborne Village (voted one of the best neighbourhoods in Canada).

Best wishes for a professionally rewarding conference and a great stay in our city.

Sincerely,

Brian Bowman
MAYOR
WMFmeetsIUPAC, the unique event combining the 9th Conference of The World Mycotoxin Forum® and the XIVth IUPAC International Symposium on Mycotoxins, takes place in Winnipeg, Canada, June 6-9, 2016. The conference will build on the success of the previous edition held in Rotterdam, the Netherlands (2012).

The aim of WMFmeetsIUPAC – the world’s largest mycotoxin event – is to increase the awareness of human and animal health risks due to mycotoxin contamination. It offers a platform for the food and feed industry, science and regulatory authorities to exchange current knowledge, to promote harmonization of food and feed safety regulations and control procedures, and to make recommendations for integrated strategies ensuring the safety and security of food and feed supply chains.

WMFmeetsIUPAC offers an excellent way to network and to share ideas, providing a reference source for anyone involved in this field. The event will include:

- presentations and discussions in plenary meetings and parallel sessions
- poster sessions
- spotlight presentations covering a wide range of topics including case studies and industry updates
- a concurrent instrument/manufacturers exhibition providing information on products, equipment, and services.

As a comprehensive overview, WMFmeetsIUPAC is a vital source of acquiring knowledge and information for everyone involved in the food and feed chain. High-quality speakers, ample time for discussions, and every opportunity to establish rewarding contacts are values WMFmeetsIUPAC wants to uphold. Join us for the WMFmeetsIUPAC event in Winnipeg, Canada. The members of the International Advisory Committee and the Organizing Committee are looking forward to meeting you!

Hans P. van Egmond
Rudolf Krska
Helena B. Bastiaanse

ABOUT THE WORLD MYCOTOXIN FORUM®
The World Mycotoxin Forum® is the leading international meeting series on mycotoxins where food and feed industry representatives meet with people from universities and governments from around the world. The main objectives of The World Mycotoxin Forum® are: to provide a unique platform for the food and feed industry, regulatory authorities and science; to exchange information and experiences on the various aspects of mycotoxins; to review current knowledge related to mycotoxins in food and feed; to discuss strategies for prevention and control of mycotoxin contamination ensuring safety and security of food and feed supply; and to initiate the systems approach for the control of mycotoxin contamination along conventional and organic supply chains.

ABOUT IUPAC
The International Union of Pure and Applied Chemistry (IUPAC) serves to advance the worldwide aspects of the chemical sciences and to contribute to the application of chemistry in the service of humankind. As a scientific, international, non-governmental and objective body, IUPAC can address many global issues involving the chemical sciences.
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Canadian Grain Commission, Canada

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Canadian Grain Commission, Canada

Prof.dr. Rudolf Krska  
Department IFA-Tulln, BOKU Vienna, Austria

Dr. Sheryl Tittlemier  
Canadian Grain Commission, Canada
# Program at a Glance

**Monday, June 6, 2016**

<table>
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<tr>
<th>Time</th>
<th>Event</th>
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| 13:45 – 17:30| **Plenary meeting**  
*Mycoxotins in a changing world* |
| 17:30        | Welcome reception sponsored by R-Biopharm                             |

**Tuesday, June 7, 2016**

| Time         | Parallel session 1  
*Regulations, economics and trade*  
| Parallel session 2  
*Human and animal health* |
| 08:30 – 12:30 | Lunch break  
Poster viewing |
| 12:30 – 14:00 |                                                      |
| 14:00 – 18:15| **Parallel session 3**  
*Changing trends in occurrence*  
| **Parallel session 4**  
*Practical solutions in the spotlight* |
| 18:15         | Poster viewing  
Wine tasting sponsored by Biomin and Romer Labs |

**Wednesday, June 8, 2016**

| Time         | Parallel session 6  
*Sampling*  
| Parallel session 7  
*Prevention and control: pre-harvest* |
| 08:30 – 12:30 | Lunch break  
Sampling course  
Poster viewing |
| 12:30 – 14:00 |                                                      |
| 14:00 – 17:30| **Parallel session 8**  
*Novel techniques in mycotoxin analysis*  
| **Parallel session 9**  
*Prevention and control: post-harvest* |
| 19:00         | Visit to the Canadian Museum for Human Rights  
Conference dinner |

**Thursday, June 9, 2016**

| Time         | Parallel session 10  
*EmTOX, a research network on emerging mycotoxins*  
| Parallel session 11  
*ILSI North America: Risk-based assessment of mycotoxins mitigation* |
| 08:30 – 12:30 | Lunch break  
Poster viewing |
| 12:30 – 13:30 |                                                      |
| 13:30 – 15:30| **Parallel session 12**  
*Omics of fungi-plant-environment interaction*  
| **Parallel session 13**  
*The future of mycotoxin detoxification strategies* |
| 16:00 – 17:00| **Plenary meeting**  
*Challenges and opportunities ahead* |

**Friday, June 10, 2016**

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<th>Time</th>
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CONFE R ENCE PR OG RAM

PLENARY MEETING

Mycotoxins in a changing world

13:45 Welcoming remarks

14:00 Introduction and overview of the conference
   Prof. dr. Rudolf Krska, Department IFA-Tulln, BOKU Vienna, Austria
   Hans van Egmond, M.Sc., retired from RIKILT Wageningen UR, the Netherlands

14:30 IUPAC – 100 years of creating the common language of chemistry
   Dr. Laura McConnell, President Division VI, International Union of Pure and
   Applied Chemistry (IUPAC) and Bayer CropScience, USA

15:00 Networking break & exhibition

15:30 Mycotoxins in food and feed: an FDA perspective in a changing world
   Dr. Nega Beru, U.S. Food and Drug Administration, USA

16:00 Risk assessment of mycotoxins in a changing world
   Dr. Mari Eskola, European Food Safety Authority (EFSA), Italy

16:30 Perspectives on FAO’s work on mycotoxins in a changing world
   Dr. Vittorio Fattori, Food and Agriculture Organization of the United Nations (FAO),
   Joint FAO/WHO Expert Committee on Food Additives (JECFA), Italy

17:00 Mycotoxin testing in a changing world: trends in mycotoxin analysis
   Ronald Niemeijer, M.Sc., R-Biopharm, Germany

17:30 WELCOME RECEPTION SPONSORED BY R-BIOPHARM

Monday June 6, 2016

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PARALLEL SESSION I

Regulations, economics and trade

Chairs: Dr. Mary Torrence, U.S. Food and Drug Administration, USA
Frans Verstraete, M.Sc., European Commission-Directorate General Health and Food Safety, Belgium

08:30 Chair’s introduction
Dr. Mary Torrence

08:45 A North American perspective on deoxynivalenol management in grains considering new Codex guidelines
Dr. Andreia Bianchini, University of Nebraska, USA

09:10 Economic impact of aflatoxins – situational analysis in six African countries
Dr. Amare Ayalew, African Union Commission, Ethiopia

09:35 The impacts of regulations, economics, and trade on human health
Prof. Dr. Felicia Wu, Michigan State University, USA

10:00 Regulation of mycotoxins in Canada
Health Canada speaker

10:30 Networking break & exhibition

11:00 Mycotoxins in cereals: regulation and risk management techniques – a Chinese view
Dr. Songxue Wang, Academy of State Administration of Grain, China (invited)

11:20 EU regulations and mycotoxins in the food chain: more than a drop in the ocean?
Frans Verstraete, M.Sc., European Commission-Directorate General Health and Food Safety, Belgium

11:40 FDA Food Safety Modernization Act (FSMA) rules: what do they mean for producer and consumer?
Dr. Gerardo Morantes, Cargill, USA

12:00 New ways of measuring mixtures of mycotoxins cast doubt on conventional regulatory procedures
Prof. Dr. Chris Elliott, Queen’s University Belfast, UK

12:20 Chair’s summary
Frans Verstraete, M.Sc.

12:30 Lunch break & exhibition
Poster viewing
**PARALLEL SESSION 2**

**Human and animal health**

*Chairs:* Dr. Genevieve Bondy, *Health Canada, Canada*
Dr. Isabelle Oswald, *INRA, France*

08:30 Chair’s introduction
Dr. Genevieve Bondy

08:45 **Health-based guidance levels for mycotoxins in animal diets: the challenge to identify critical endpoints**
Prof.dr. Johanna Fink-Gremmels, *Utrecht University, the Netherlands*

09:05 **The effect of mycotoxins on susceptibility to viral disease and vaccinal response in animals**
Dr. Younes Chorfi, *University of Montreal, Canada*

09:25 **In vivo fate of acetylated and modified trichothecenes in broiler chickens and pigs: a toxicokinetic approach**
Prof.dr. Siska Croubels, *Ghent University, Belgium*

09:45 **Evaluating joint effects of binary mixtures of Penicillium mycotoxins by using bovine macrophage cell line proliferation**
Dr. Niel Karrow, *University of Guelph, Canada*

10:05 **Genome-wide analysis of gene expression: a tool to investigate the toxicity of mycotoxins**
Dr. Imourana Alassane-Kpemb, *INRA, France*

10:30 Networking break & exhibition

11:00 **Combined exposure to multiple mycotoxins in food: are we ready for risk assessment and risk management?**
Dr. Paula Alvito, *National Health Institute Doctor Ricardo Jorge, Portugal*

11:20 **Incidence of acute and chronic co-exposure of fusariotoxins on human hepatocytes**
Dr. Marie-Caroline Smith, *Université de Bretagne Occidentale, France*

11:40 **Biomarkers: aflatoxin exposure and child health**
Dr. Yun Yun Gong, *Queen’s University Belfast, UK*

12:00 **Human biomonitoring and its application to mycotoxin exposure assessment: revealing the toxicokinetics of deoxynivalenol in humans**
Dr. Ellen Heyndrickx, *Ghent University, Belgium*

12:20 Chair’s summary
Dr. Isabelle Oswald

12:30 Lunch break & exhibition
Poster viewing
**PARALLEL SESSION 3**

**Changing trends in occurrence**

*Chairs:* Dr. Mark Sumarah, Agriculture and Agri-Food Canada, Canada  
Dr. Amare Ayalew, African Union Commission, Ethiopia

14:00  Chair’s introduction  
Dr. Mark Sumarah

14:05  Changing trends in the occurrence of ergot mycotoxins in Western Canada  
Prof.dr. Barry Blakley, University of Saskatchewan, Canada

14:25  Mycotoxins in pet food: the occurrence and significance  
Dr. Larry Thompson, Nestlé Purina PetCare, USA

14:45  Trends in occurrence of masked mycotoxins in food and feed  
Dr. Franz Berthiller, Department IFA-Tulln, BOKU Vienna, Austria

15:05  Expect the unexpected – common mycotoxins in uncommon places  
Carrie Maune, Trilogy Analytical Laboratory, USA

15:25  Chair’s summary  
Dr. Amare Ayalew

15:30  Networking break & exhibition

**PARALLEL SESSION 5**

**Speed presentations**

*Chairs:* Prof.dr. Hans-Ulrich Humpf, University of Münster, Germany  
Prof.dr. Carlos Mallmann, Federal University of Santa Maria, Brazil

**RECENTLY LAUNCHED PROJECTS:**

16:00  MyToolBox – Safe food and feed through an integrated (e-)ToolBox for mycotoxin management  
Prof.dr. Rudolf Krska, Department IFA-Tulln, BOKU Vienna, Austria

16:15  From MycoRed to MycoKey: integrated and innovative key actions for mycotoxin management in the food and feed chain  
Dr. Antonio Logrieco, Institute of Sciences of Food Production, Italy

16:30  The mycotoxin metrology capacity building and knowledge transfer (CBKT) project  
Dr. Ralf Josephs, International Bureau of Weights and Measures, France

**POSTER PRESENTATIONS:**

16:45  Short presentations (7 minutes) by selected poster presenters to provide an overview of their research and inspire the audience to visit their posters

18:15  Poster viewing

**WINE TASTING SPONSORED BY BIOMIN AND ROMER LABS**
**Parallel Session 4**

**Practical solutions in the spotlight**

**Chairs:** Prof. dr. Gonzalo J. Diaz, *National University of Colombia, Colombia*  
Dr. Lei Bao, *General Administration of Quality Supervision, Inspection and Quarantine (AQSIQ), China*

14:00 **Mycotoxin analysis in your hand**  
Ronald Niemeijer, M.Sc., *R-Biopharm, Germany*

14:15 **The present and the future of mycotoxin risk management**  
Dr. Christina Schwab, *Biomin, Austria*

14:30 **Mycotoxin analysis of food and feed: old problems and new challenges require innovative solutions**  
Dr. Kurt Brunner, *Romer Labs, Austria*

14:45 **Redefining mycotoxin occurrence and control strategies**  
Dr. Alexandros Yiannikouris, *Alltech, USA*

15:00 **Correlation in the occurrence of fusariotoxins in different contaminated feed materials**  
Julia Laurain, *Olmix, France*

15:15 **Jump in, the water’s fine – aqueous extraction for mycotoxin rapid tests**  
Dr. Stephen Powers, *Vicam, A Waters Business, USA*

15:30 **Networking break & exhibition**

16:00 **Sample preparation for LC-MS/MS analysis of mycotoxins**  
Emily Barrey, *Sigma-Aldrich, USA*

16:15 **Overcoming matrix interference in the detection of mycotoxins in foods**  
Dr. Thu Huynh, *Helica Biosystems, USA*

16:30 **Best practices for rapid mycotoxin testing**  
Kyle Donovan, *EnviroLogix, USA*

16:45 **The use of biomarkers to assess efficacy of mycotoxin eliminators in vivo**  
Dr. Astrid Koppenol, *Impextraco, Belgium*

17:00 **New developments in the Neogen mycotoxin portfolio**  
Tony Lupo, *Neogen Corporation, USA*

17:15 **Mycotoxin risk management in the grain supply chain**  
Dr. Scarlett Biselli and Mareike Reichel, *Eurofins, Germany*

17:30 **Master-curve calibrated immunoassay for cost-effective detection of mycotoxins**  
Maurizio Paleologo Oriundi, *Tecna, Italy*

17:45 **Biochip array technology for the reliable performance of multi-mycotoxin determination in animal feed materials**  
Janine McMullan, *Randox Food Diagnostics, UK*

18:00 **Smart reader technology and data management for mycotoxin analysis**  
Dr. Mark Tess, *Charm Sciences, USA*

18:15 **Poster viewing**

**Wine tasting sponsored by Biomin and Romer Labs**
PARALLEL SESSION 6

Sampling

Chairs: Dr. Sheryl Tittlemier, Canadian Grain Commission, Canada
Dr. Gerardo Morantes, Cargill, USA

08:30 Chair’s introduction
Dr. Sheryl Tittlemier

08:35 The importance of sampling in food and feed safety assessment
Dr. Claudia Paoletti, European Food Safety Authority (EFSA), Italy

08:55 Development of an online FAO mycotoxin sampling tool and its application to aflatoxin sampling protocol for corn and groundnuts in Africa
Dr. Andy Slate, NC State University, USA

09:15 Sampling of grain for mycotoxins: understanding the factors that control sampling precision
Geoffrey Lyman, Materials Sampling & Consulting, Australia

09:35 Sampling of cereals – development of a sampling protocol for mycotoxin analysis
Dr. Brigitte Mahaut, Arvalis-Institut du Végétal, France

09:55 Sources of variability in measuring aflatoxin and the role of sampling
Prof.dr. Timothy Herrman, Texas A&M University, USA

10:15 Sampling for mycotoxins in feed – correct heterogeneity characterization
Dr. Claas Wagner, Lucerne University of Applied Sciences and Arts, Switzerland and Wagner Consultants, Germany

10:35 Networking break & exhibition

11:00 Development for aflatoxin sampling plans for Brazil nuts
Dr. Eugenia Azevedo Vargas, Ministry of Agriculture, Livestock and Food Supply, Brazil

11:20 Real-world application and implementation of sampling plans for mycotoxins in pistachios
Dr. Bob Klein, Administrative Committee for Pistachios, USA

11:40 Challenges presented by sampling and low level detection of storage molds in bulk grain
Dr. Tom Gräfenhan, Canadian Grain Commission, Canada

12:00 Which sampling protocol is the most cost-effective?
Dr. Ine van der Fels-Klerx, RIKILT Wageningen UR, the Netherlands

12:20 Chair’s summary
Dr. Gerardo Morantes

12:30 Lunch break & exhibition
Poster viewing

COURSE: REPRESENTATIVE SAMPLING IN PRACTICE

Samples are extracted for various reasons, using many different sampling procedures in a wide range of application fields addressing a bewildering array of different material types. But what is the meaning of analysing any sample if it cannot be documented to be representative?

The answer is 'none'! This short course gives an introduction to the Theory of Sampling (TOS), the only fully comprehensive approach to representative sampling. Rather than focusing on the theoretical aspect of TOS, the course covers the main practicalities of representative sampling, including a set of scale-invariant...
**Parallel Session 7**

**Prevention and control: pre-harvest**

*Chairs:* Prof.dr. Arthur Schaafsma, *University of Guelph, Canada*
Prof.dr. Simon Edwards, *Harper Adams University, UK*

08:30  **Chair’s introduction**
Prof.dr. Arthur Schaafsma

08:40  **Pre-harvest management strategies for mycotoxins in cereals in the USA: adapting to change**
Prof.dr. Ruth Dill-Macky, *University of Minnesota, USA*

09:05  **Cropping factors: the key for sustainable mycotoxin management in cereals – a European perspective**
Dr. Susanne Vogelgsang, *Agroscope, Switzerland*

09:30  **Recent advances in adoption of aflatoxin biocontrol by farmers in Africa**
Dr. Ranajit Bandyopadhyay, *International Institute of Tropical Agriculture, Nigeria*

09:50  **The role of endophytes in biological control of toxigenic fungi: new hope for success?**
Dr. Manish Raizada, *University of Guelph, Canada*

10:10  **The effect of corn plant density and water availability on fumonisin-producing *Fusarium* spp. infection and fumonisin synthesis**
Dr. Belinda Janse van Rensburg, *Agricultural Research Council, South Africa*

10:30  **Networking break & exhibition**

11:00  **Ergot management solutions: an integrated approach in Western Canada**
Dr. James Menzies, *Agriculture and Agri-Food Canada, Canada (invited)*

11:20  **Cisgenic wheat, through genome editing, to reduce *Fusarium* mycotoxins in grains**
Dr. Ajjamada Kushalappa, *McGill University, Canada*

11:40  **Support from modeling in climate change scenarios**
Prof.dr. Paola Battilani, *Università Cattolica del Sacro Cuore, Italy*

12:00  **Is organic farming a suitable approach to reduce mycotoxins in agricultural crops?**
Dr. Gunnar Sundsøl Eriksen, *Norwegian Veterinary Institute, Norway*

12:20  **Chair’s summary**
Prof.dr. Simon Edwards

12:30  **Lunch break & exhibition**

**Poster viewing**

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**THE THEORY OF SAMPLING**

Sampling operations, which allow to tackle the main problem of representative sampling: heterogeneity.

*Course presenter:*
Dr. Claas Wagner is an international sampling consultant, founder of Wagner consultants and lecturer at the Lucerne University of Applied Sciences and Arts, Switzerland. He has published various peer-reviewed articles on representative sampling and chemometrics and is the editor of the Sampling Column in Spectroscopy Europe/Asia, as well as editor of the proceedings of the 7th World Conference on Sampling and Blending.
SESSION 8

Novel techniques in mycotoxin analysis

Chairs: Dr. Chris Maragos, U.S. Department of Agriculture, USA
        Prof. Dr. Sarah De Saeger, Ghent University, Belgium

14:00  Chair’s introduction
        Prof. Dr. Sarah De Saeger

14:10  Validation of the planar waveguide biosensor for multimycotoxin analysis of wheat
        Dr. Sheryl Tittlemier, Canadian Grain Commission, Canada

14:30  Dried blood spots analysis of mycotoxins in blood samples
        Prof. Dr. Hans-Ulrich Humpf, University of Münster, Germany

14:50  Progress and challenges in aptamer-based mycotoxin sensing
        Dr. Maria de Rosa, Carleton University, Canada

15:10  Optimization and validation of LC-MS/MS based methods for the simultaneous
determination of hundreds of fungal metabolites
        Dr. Michael Sulyok, Department IFA-Tulln, BOKU Vienna, Austria

15:30  Networking break & exhibition

16:00  Safe foods from farm to table: how IR laser technology and chemometrics spot trace
        level mycotoxins
        Dr. Gregor Kos, McGill University, Canada

16:20  Entering the ppq levels in mycotoxin biomarker analysis
        Dr. Bojan Sarkanj, University of Osijek, Croatia

16:40  Electrochemical immunosensors based on polyanilino-carbon nanotubes
        and/or palladium telluride quantum dots for fumonisins detection in corn samples:
a comparative study
        Dr. Milua Masikini, University of Western Cape, South Africa

17:00  Luminescence-based immunochemical techniques for rapid screening of
        (multi)mycotoxins in different matrices
        Dr. Natalia Beloglazova, Ghent University, Belgium

17:20  Chair’s summary
        Dr. Chris Maragos

19:30  VISIT TO THE CANADIAN MUSEUM FOR HUMAN RIGHTS &
        CONFERENCE DINNER AT THE MUSEUM

CANADIAN MUSEUM FOR HUMAN RIGHTS

The Museum’s building itself is a ‘wow’ experience. The unique architecture designed by Antoine Predocek parallels a human rights journey – it requires some effort and has a few twists and turns, but can be very rewarding to complete. Before dinner, you will have time to visit the Museum. You will enter the Museum at ground level, into a space that has a subterranean feel. You gradually work your way higher on a series of inclined ramps that reveal more and more daylight. Keep your camera ready – natural light combined with lit, alabaster-covered ramps is always a favorite for photographers.
SESSION 9
Prevention and control: post-harvest

Chairs: Dr. Karen Churchill, Cereals Canada, Canada
Dr. Michele Suman, Barilla Advanced Laboratory Research, Italy

14:00 Chair’s introduction
Dr. Karen Churchill

14:10 Real-time monitoring of stored commodities for better post-harvest mycotoxin management
Prof. dr. Naresh Magan, Cranfield University, UK

14:30 Sorting of mycotoxin-contaminated products with hyperspectral imaging
Prof. dr. Habil Kalkan, Suleyman Demirel University, Turkey

14:50 Decontamination and detoxification of mycotoxins in grain to improve feed quality and animal health
Dr. Natacha Hogan, University of Saskatchewan, Canada

15:10 Corn grain ensiling is a process conducive to fumonisin B1 degradation: which microbial consortia are responsible?
Dr. Sylvain Chéreau, INRA, France

15:30 Networking break & exhibition

16:00 Distribution of deoxynivalenol in wheat during milling
Prof. dr. Dojin Ryu, University of Idaho, USA

16:20 Impact of processing techniques on mycotoxin occurrence in food
Dr. Michele Suman, Barilla Advanced Laboratory Research, Italy

16:40 Promising detoxification strategies to mitigate mycotoxins
Dr. Isabelle Oswald and Dr. Jean-Denis Bailly, INRA, France

17:00 Management of food industrial technologies reducing mycotoxins while keeping the quality of finished products
Dr. Johan De Meester, Cargill, Belgium

17:20 Chair’s summary
Dr. Michele Suman

19:30 VISIT TO THE CANADIAN MUSEUM FOR HUMAN RIGHTS & CONFERENCE DINNER AT THE MUSEUM
PARALLEL SESSION 10

EmTOX: A research network on emerging mycotoxins of potential importance for Canadian agriculture

Chair: Dr. Keith Seifert, Agriculture and Agri-Food Canada, Canada
Dr. Tom Gräfenhan, Canadian Grain Commission, Canada

08:30 Chair’s introduction
Dr. Tom Gräfenhan/Dr. Keith Seifert

08:35 Taxonomy of fungi producing emerging mycotoxins
Dr. Keith Seifert, Agriculture and Agri-Food Canada, Canada

08:55 Non-targeted screening as a method for profiling mycotoxins
Dr. Justin Renaud, Agriculture and Agri-Food Canada, Canada

09:15 Using yeasts to study mycotoxin toxicity and interactions
Dr. Steve Gleddie, Agriculture and Agri-Food Canada, Canada

09:35 Discovery of novel Fusarium secondary metabolites
Dr. Adilah Bahadoor, Agriculture and Agri-Food Canada, Canada

10:55 Mycotoxins and Fusarium interspecies interactions
Dr. Linda Harris, Agriculture and Agri-Food Canada, Canada

10:15 New fumonisins from Aspergillus niger and A. welwitschiae
Dr. Kevin Burgess, Agriculture and Agri-Food Canada, Canada

10:30 Networking break & exhibition

11:00 Genomics and epigenetics of toxin production in Fusarium
Dr. Gopal Subramaniam, Agriculture and Agri-Food Canada, Canada

11:20 An integrated approach to patulin reduction in food
Dr. Rong Cao, Agriculture and Agri-Food Canada and University of Guelph, Canada

11:40 MALDI-TOF and proteomics of mycotoxigenic fungi
Dr. Kumaran Sivagnanam, Canadian Grain Commission, Canada

12:00 Ergot alkaloids on the Canadian prairies
Dr. Sheryl Tittlemier, Canadian Grain Commission, Canada

12:20 Chair’s summary
Dr. Tom Gräfenhan/Dr. Keith Seifert

12:30 Lunch break & exhibition
Poster viewing
**PARALLEL SESSION II**

**ILSI North America: Risk-based assessment of mycotoxins mitigation**

*Chair:* Dr. Mansi Krishan, *ILSI North America, USA*
Dr. Paul Hanlon, *Abbott Nutrition, USA*

**08:30** Chair’s introduction and session overview
Dr. Mansi Krishan

**08:40** Man vs. Nature: prevalence of mycotoxins and climate change
Dr. Anne R. Bridges, *AACC International, USA*

**09:00** Avoiding the unavoidable: regional impact and human counter measures to control mycotoxins
Dr. Amare Ayalew, *Partnership for Aflatoxin Control in Africa, Ethiopia*

**09:20** Global regulatory interventions in the war against mycotoxins
Dr. Paul South, *U.S. Food and Drug Administration, USA*

**09:40** Impact of mycotoxin regulations on world food trade
Prof. Dr. Felicia Wu, *Michigan State University, USA*

**10:00** Impact of regulatory mycotoxin mitigation efforts
Prof. Dr. Samuel Godefroy, *Université Laval, Canada and Global Food Safety Partnership, World Bank, USA*

**10:30** Networking break & exhibition

**11:00** Introduction of proactive risk-based decision making to mitigate mycotoxin risk
Dr. Paul Hanlon, *Abbott Nutrition, USA*

**11:25** Use of state-of-the-art exposure assessment for mycotoxins
Cian O’Mahony, *Crème Global, Ireland*

**11:50** Mycotoxin mitigation as a model for risk-based decision making
Dr. Joseph V. Rodricks, *Ramboll Environ, USA*

**12:20** Chair’s summary
Dr. Paul Hanlon

**12:30** Lunch break & exhibition
Poster viewing
**SESSION 12**

**Oomics of the organized complexity of fungi-plant-environment interaction in mycotoxin production**

*Chairs:* Prof.dr. Paola Battilani, *Università Cattolica del Sacro Cuore, Italy*
Dr. Deepak Bhatnagar, *U.S. Department of Agriculture, USA*

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<th>Time</th>
<th>Session</th>
<th>Presenter</th>
<th>Institution/Location</th>
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<tbody>
<tr>
<td>13:30</td>
<td>Chair's introduction</td>
<td>Prof.dr. Paola Battilani</td>
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<tr>
<td>13:40</td>
<td>Aflatoxin biosynthesis and the related metabolism(s)</td>
<td>Prof.dr. Kimiko Yabe</td>
<td><em>Fukui University of Technology, Japan</em></td>
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<td>14:00</td>
<td><em>Aspergillus flavus</em> secondary metabolites: the good, the bad, and the bashful</td>
<td>Dr. Jeffrey Cary</td>
<td><em>U.S. Department of Agriculture, USA</em></td>
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<td>14:20</td>
<td>Ochratoxin A biosynthetic pathway and its regulatory mechanisms</td>
<td>Prof.dr. Yang Liu</td>
<td><em>Chinese Academy of Agricultural Sciences, China</em></td>
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<td>14:40</td>
<td>Lipid-mediated signaling between fungi and plants govern production of mycotoxins</td>
<td>Prof.dr. Michael Kolomiets</td>
<td><em>Texas A&amp;M University, USA</em></td>
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<td>15:00</td>
<td>Breeding corn for resistance to <em>Fusarium</em> ear rot: an integrated approach of transcriptomics, metabolomics and genomics</td>
<td>Dr. Alessandra Lanubile</td>
<td><em>Università Cattolica del Sacro Cuore, Italy</em></td>
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<td>15:20</td>
<td>Chair’s summary</td>
<td>Dr. Deepak Bhatnagar</td>
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<td>15:30</td>
<td>Networking break &amp; exhibition</td>
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**PLENARY MEETING**

**Challenges and opportunities ahead**

*Chairs:* Prof.dr. Rudolf Krska, *Department IFA-Tulln, BOKU Vienna, Austria*
Hans van Egmond, M.Sc., *retired from RIKILT Wageningen UR, the Netherlands*

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<td>After 125 years of mycotoxin research, what is expected from researchers now?</td>
<td>Prof.dr. David Miller</td>
<td><em>Carleton University, Canada</em></td>
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<td>16:30</td>
<td>Presentation of the Best Poster Award</td>
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<td>16:40</td>
<td>Top five answers learned at WMFmeetsIUPAC</td>
<td>Prof.dr. Rudolf Krska and Hans van Egmond, M.Sc.</td>
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<td>17:00</td>
<td>Closing of WMFmeetsIUPAC</td>
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SESSION 13
The future of mycotoxin detoxification strategies

Chairs: Dr. Gerd Schatzmayr, Biomin Research Center, Austria
Dr. Larry Thompson, Nestlé Purina PetCare, USA

13:30  Chair’s introduction
Dr. Gerd Schatzmayr

13:40  Mycotoxin binders for the reduction of aflatoxins in animals and humans
Sarah Elmore, M.Sc., Texas A&M University, USA

14:00  Recent advances in microbial and enzymatic mycotoxin detoxification
Dr. Ting Zhou, Agriculture and Agri-Food Canada, Canada

14:20  Novel approaches to assess mycotoxin detoxification methods in feed – biomarkers of exposure and effects
Dr. Heidi Schwartz-Zimmermann, Department IFA-Tulln, BOKU Vienna, Austria

14:40  Round table discussion: Current and future legislation of mycotoxin binding and detoxifying products
Dr. Gerald Schultheis, EU Association of Specialty Feed Ingredients and their Mixtures (FEFANA), Belgium
Frans Verstraete, M.Sc., European Commission-Directorate General Health and Food Safety, Belgium
Dr. Michael Henry, U.S. Food and Drug Administration, USA
Additional panel members to be announced

15:20  Chair’s summary
Dr. Larry Thompson

15:30  Networking break & exhibition

PLENARY MEETING
Challenges and opportunities ahead

Chairs: Prof.dr. Rudolf Krska, Department IFA-Tulln, BOKU Vienna, Austria
Hans van Egmond, M.Sc., retired from RIKILT Wageningen UR, the Netherlands

16:00  After 125 years of mycotoxin research, what is expected from researchers now?
Prof.dr. David Miller, Carleton University, Canada

16:30  Presentation of the Best Poster Award

16:40  Top five answers learned at WMFmeetsIUPAC
Prof.dr. Rudolf Krska and Hans van Egmond, M.Sc.

17:00  Closing of WMFmeetsIUPAC
**EXCURSION** (optional)

Visit to a grain elevator!

A half-day excursion is organized on Friday June 10, 2016. The excursion will include:

- A visit to a nearby commercial grain elevator. How do grain elevators work? How is grain transported and stored? Participants will gain an understanding of the operation of a grain elevator.
- Hands-on demonstration. At the grain elevator’s laboratory, participants will have a chance to learn about equipment and methods used in the Canadian grain industry for sampling whole grain, visually inspecting grain for grading factors related to fungal infection, as well as how industry manages and mitigates risks due to the presence of mycotoxins in grains.

The excursion will end around noon, leaving enough time to catch late afternoon flights out of Winnipeg.

The excursion is facilitated by the Canadian Grain Commission, a federal government agency. The Commission regulates grain handling in Canada and certifies the quality, safety and quantity of export shipments of Canadian grain. It is Canada’s scientific research organization on grain quality.

*WMF meets IUPAC* would like to acknowledge the help from Richardson Pioneer – Southlakes in the excursion.

**Important note:** The number of participants in this excursion is limited to 35 on a first-come, first-served basis. Reservations can be made on the Conference Registration Form.
Website
The latest details of WMFmeetsIUPAC can be found at the conference’s website
www.WMFmeetsIUPAC.org

Who should attend
WMFmeetsIUPAC is bringing together businesses and food/feed professionals in all stages of the agrifood chain, regulatory authorities and inspectors, consulting agencies and advisors, and science from all over the world.

Venue
WMFmeetsIUPAC will be held at the RBC Convention Centre, Winnipeg’s premier event facility. The facility is located in the centre of the city’s bustling downtown within walking distance to various hotels. The ground floor in the newly built South Building of the RBC Convention Centre will be the place hosting the conference.

Registration
Please go to the conference’s website www.WMFmeetsIUPAC.org for all relevant information on registration fees and on-line registration.

Hotel accommodation
All information on hotel accommodation can be found on the conference’s website www.WMFmeetsIUPAC.org
It is important to note that June is a very busy period in Winnipeg. Therefore, it is strongly advised to book your hotel early.

Excursion
A half-day excursion to a grain elevator is organized on Friday June 10, 2016. Important note: The number of participants in this excursion is limited to 35 on a first-come, first-served basis. For more information and registration, go to www.WMFmeetsIUPAC.org

Call for posters
Abstract submission
Interested participants are strongly encouraged to submit poster abstracts (max. 400 words) by no later than March 1, 2016! There is a limit of 2 abstracts which can be submitted by one participant. Abstracts should be submitted only as a Microsoft Word file attached to an e-mail message sent to the Secretariat: WMF@bastiaanse-communication.com
The Organizing Committee of WMFmeets IUPAC will evaluate the abstracts and inform the participants of the acceptance. Posters will be displayed throughout the conference. Poster size: A0 portrait (841 mm x 1189 mm). A number of posters will be selected for 7-minute talks (‘speed presentations’).

Best Poster Award
There will be a Best Poster Award to encourage scientists to display outstanding posters during the conference. The prize winner will receive a certificate signed by the IUPAC President, a copy of the ‘Green Book’ and a two year subscription to ‘Chemistry International’ (sponsored by IUPAC), and € 500 (sponsored by WMFmeets IUPAC). The Best Poster Award will be presented at the closing ceremony.

Business opportunities
WMFmeetsIUPAC offers various business opportunities, including:
☆ Sponsorship: Benefit from excellent name recognition by sponsoring the conference. Sponsoring opportunities covering lunch, evening functions and conference program material also exist.
☆ Exhibition: Gain valuable direct exposure!
Parallel to the conference a commercial exhibition will be organized in which presentations of equipment, products and services related to mycotoxins are given. Participants of the conference have ample opportunity to visit the exhibition during the various breaks.

More information on the business opportunities can be found at www.WMFmeetsIUPAC.org

Language
English will be the official conference language. No simultaneous interpretation will be provided.

It may be necessary for reasons beyond the control of the organizers to alter the content and timing of the program or the identity of the speakers.
WMFmeetsIUPAC2016 is combined with the 2nd conference of The World Plant Toxin Forum.

Winnipeg, Canada