CORNELL UNIVERSITY INTERNATIONAL SYMPOSIUM

Validation of Nonthermal Technologies

SYMPOSIUM AGENDA

(Schedule subject to slight changes)

CHAIRMAN			
SUNDAY,		15455	

Cornell Institute for Food Systems Industry Partnership Program (CIFS-IPP) & Department of Food Science Reception at Stocking Hall

4:00-5:00 PM Registration & Networking

5:00-5:30 PM Welcome remarks:

Olga Padilla-Zakour, Department Chair

Julie Stafford, CIFS-IPP Industry Liaison Officer

Carmen I. Moraru, Symposium Chair

5:30-6:30 PM Cornell Food Science facilities tours

6:30-8:00 PM **Networking Dinner**

Monday, October 30

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8:00-8:30 AM Registration and continental breakfast

8:30-9:00 AM Welcome remarks:

Carmen I. Moraru, Symposium Chair

Kathryn Boor, Dean, College of Agriculture and Life Sciences

9:00-9:45 AM Keynote talk: "Validation of novel processing methods for microbial

inactivation to ensure compliance with the FSMA preventive controls

requirements"

Jenny Scott, Senior Adviser, Center for Food Safety and Nutrition, US Food and

Drug Administration

<u>Session 1</u>: Overview of non-thermal processing technologies and critical process factors

Moderators: Carmen I. Moraru, Cornell University and Gustavo Barbosa-Canovas, Washington State

University

9:45-10:15 AM Current Status of Nonthermal Processing Technologies

Gustavo Barbosa-Canovas, Washington State University

10:15-10:30 AM Coffee Break

10:30-10:50 AM High Pressure Processing (HPP, HPH)

Bala Balasubramaniam, The Ohio State University

10:50-11:10 AM	Pulsed Electric Field Processing (liquid and solid state) Speaker to be confirmed soon
11:10-11:30 AM	Light Based Treatments (UV, PL, LED) Carmen I. Moraru, Cornell University
11:30-11:50 AM	Cold Plasma Speaker to be confirmed soon
11:50 AM-12:10 PM	Irradiation Rosana Morreira, Texas A&M University
12:10-12:30 PM	Combination Treatments Based on Nonthermal Technologies Olga Padilla-Zakour, Cornell University
12:30-1:30 PM	Lunch
kinetics	orobo, Cornell University
1:30-1:50 PM	Inactivation of Bacteria: vegetative cells vs. spores Ahmed Yousef, The Ohio State University
1:50-2:10 PM	Inactivation of Viruses and Protozoa Dallas Hoover, University of Delaware
Session 3: Regulatory technologies	framework and requirements for validation of non-thermal processing
_	dilla-Zakour, Cornell University and Roman Buckow, CSIRO
2:10-2:30 PM	Validation for Regulatory Approval of Nonthermal Technologies Randy Worobo, Cornell University
2:30-2:50 PM	Practical Aspects of Processing Methods Validation from a Regulatory Agency Perspective Nate Anderson, US-FDA
2:50-3:10 PM	Regulatory Aspects of Novel Technologies and their Validation in the European Union Lilia Ahrné, University of Copenhagen & EFFoST President
3:10-3:30 PM	Regulatory Aspects of Novel Technologies in Canada Tatiana Koutchma, Agriculture and Agri-Food Canada
3:30-4:00 PM	Coffee Break and Poster Viewing (part I)

Session 4 (Part I): Examples of validation studies for nonthermal technologies

Moderator: Lilia Ahrné, University of Copenhagen & EFFoST President

4:00-4:20 PM	Validation of Commercial HPP Treated Products: successes and challenges Jessie Usaga, University of Costa Rica and Randy Worobo, Cornell University
4:20-4:40 PM	Validation of Thermally Assisted High Pressure Processing Jason Wan, IFSH
4:40-5:00 PM	Validation of High Pressure Processing in Australia: the case of HPP treated raw milk Roman Buckow, CSIRO, Australia
5:00-5:30 PM	Q&A with all speakers
6:30-7:00 PM	Happy Hour & Networking
7:00 PM	Dinner begins
7:40-8:00 PM	Dinner speaker: Larry Keener, President and CEO, International Product Safety Consultants A History of Validation of Food Processing Technologies: success stories and lessons learned

8:30 PM Adjourn

TUESDAY, OCTOBER 31

Symposium Continued at The Statler Hotel

8:00-8:30 AM Continental breakfast

Session 4 (Part II): Examples of validation studies for nonthermal technologies

Moderator: Jason Wan, IFSH

8:30-8:50 AM	Challenge Trials in Foods with Controlled Microbiota Michael Gänzle, University of Alberta, Canada
8:50-9:10 AM	Models for Validation with Nonthermal Technologies Christopher Doona, US Army – Natick
9:10-9:30 AM	One Technology – Multiple Regulatory Approvals Speaker to be confirmed soon
9:30-10:00 AM	Coffee Break and Poster Viewing (part II)

Session 5 Roundtables: Challenges for the commercialization of non-thermal processing

Moderators: Olga Padilla Zakour and Julie Stafford, Cornell University

10:00-10:30 AM Regulatory & Inspection Agencies Perspective

Panel Lead: **Nate Anderson**, FDA Participants to be confirmed soon

10:30-11:00 AM Equipment Manufacturers Perspective

Panel Lead: **Carole Tonello**, Hiperbaric Participants to be confirmed soon

11:00-11:30 AM Food Processors, Product Developers and Retailers Perspective

Panel Lead: Marcia Walker, 915 Labs Participants to be confirmed soon

11:30 AM-12:30 PM Lunch

Optional Site Visit and Dinner (additional charge)

1:00 PM Departure for Geneva (transportation provided)

Stop at Taughannock Falls

3:00-4:00 PM Visit of the Cornell HPP Validation Center and other nonthermal technologies

(Geneva, NY)*

Tour led by Olga Padilla-Zakour

*The tour is free. Those interested in attending the tour, but not the dinner, can

join us in Geneva but will have to have their own transportation.

4:30 PM Departure for Glenora Wines on Seneca Lake

6:00-8:00 PM Wine-food Pairing Dinner at Glenora Wines

8:00 PM Return to Ithaca

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