

2017 INTERNATIONAL NONTHERMAL PROCESSING WORKSHOP AND SHORT COURSE

Applications and Commercialization of Novel and Nonthermal Food Processing

REGISTER | nonthermal2017.org



MAY 23-25, 2017 CHICAGO, ILLINOIS



WELCOME!

Short Course, Workshop and Field Trip, May 23-26, 2017 IFSH and Chicago Marriott Southwest at Burr Ridge, IL, USA

Theme: Applications and Commercialization of Nonthermal Food Processing Technologies

On behalf of the Workshop Organizing Committee, it is my great pleasure to welcome you to the 2017 International Nonthermal Processing Workshop to be hosted by the Institute for Food Safety and Health, Illinois Institute of Technology, May 24-25, 2017, at the Chicago Marriott Southwest, Burr Ridge, IL, USA.

The International Nonthermal Processing Workshop is a yearly event organized by the Nonthermal Processing Division of the Institute of Food Technologists (IFT) and the European Federation of Food Science and Technology (EFFoST). The Workshop is the leading international forum for professionals from academia, industry and government agencies to share the latest development of nonthermal processing technologies and their applications in the food industry. The Workshop attracts a strong world-wide audience from the industry, government, education, research institutions, consulting laboratories and service providers.

The 2017 Workshop will highlight the theme of Applications and Commercialization of Nonthermal Food Processing Technologies. The Workshop will feature presentations from government, academia, and the food industry, providing the audience with the latest development of nonthermal and innovative food processing technologies, best practices for process validation, and approaches and case studies for commercializing these technologies in the global marketplace. In addition, a Nonthermal Processing Technology Short Course will be held on May 23, 2017 at the Institute for Food Safety and Health.

We look forward to seeing you at the 2017 International Nonthermal Processing Workshop and Short Course.

Jason Wan, Ph.D., Professor, IIT Department Food Science and Nutrition

Chair – 2017 Workshop Organizing Committee

Associate Director – Institute for Food Safety and Health



Overview

Short Course, Workshop and Field Trip, May 23-26, 2017 IFSH and Chicago Marriott Southwest at Burr Ridge, IL, USA

Theme: Applications and Commercialization of Nonthermal Food Processing Technologies

Short Course, May 23, 2017

The short course (May 23, 2017) will be held at the “Institute for Food Safety and Health” (IFSH), the organizer of the short course and workshop. “The Institute for Food Safety and Health (IFSH) is a one-of-a-kind applied food science research consortium comprised of the Illinois Institute of Technology (IIT), the U.S. Food and Drug Administration (FDA), and the food industry. In collaboration with the FDA, we provide stakeholders with the opportunity to develop and exchange knowledge, experience, and expertise in the areas of food safety, food defense, food processing, and nutrition.” To know more about IFSH, visit www.ifsh.iit.edu. IFSH works on various nonthermal and advanced thermal technologies such as high pressure processing, pulsed light processing, cold plasma treatment, ultrasound treatment, and microwave processing.

*Address of Institute for Food Safety and Health:
6502 South Archer Road
Bedford Park, IL 60501*

Workshop, May 24-25, 2017

The workshop (May 24 to 25, 2017) will be held at the Chicago Marriott Southwest at Burr Ridge. The hotel is about 21 miles from the O’Hare international airport and 13 miles from the Midway international airport. To make a reservation at the hotel at a discounted rate, please visit the [Hotel reservations link](#).

*Address of Chicago Marriott Southwest at Burr Ridge:
1200 Burr Ridge Pkwy
Burr Ridge, IL 60527-0869*

Field Trip (Optional), May 26, 2017

On Friday, May 26, 2017, an optional field trip (separate registration is required) will be organized to visit the various nonthermal food processing facilities at IFSH and a commercial high pressure processing toll facility. Transportation will be provided to the registrants of the field trip.

Workshop and Short Course Event Organizers



Short Course Program Outline*, May 23, 2017
Institute for Food Safety and Health, Moffett Campus, Bedford Park, IL

Theme: Applications and Commercialization of Nonthermal Food Processing Technologies

Tuesday, May 23, 2017 (Short Course)

8:00 – 9:00 AM Registration
9:00 – 9:30 AM Introductory remarks
9:30 – 10:00 AM Overview of novel and processing technologies
10:00 – 10:30 AM Coffee break
10:30 – 11:00 AM High pressure processing
11:00 – 11:30 AM Pulsed electric field processing
11:30 – 12:00 PM Food irradiation
12:00 – 1:00 PM Lunch
1:00 – 1:30 PM UV and LED light processing
1:30 – 2:00 PM Pulsed light processing
2:00 – 2:30 PM Cold Plasma
2:30 – 3:00 PM Coffee break
3:00 – 3:30 PM Ozone and other novel processing technologies
3:30 – 4:00 PM Pulsed electric field processing
4:00 – 4:30 PM Industrial applications of nonthermal processing
4:30 – 5:30 PM Tour of the nonthermal processing laboratories at IFSH
5:30 – 6:00 PM Participants dropped off at Courtyard Marriot

*Subject to revision

Workshop and Short Course Event Organizers



**International Workshop Program*, May 24-25, 2017
Chicago Marriott Southwest at Burr Ridge, IL, USA**

**Theme: Applications and Commercialization of Nonthermal Food
Processing Technologies**

Wednesday, May 24, 2017 (Workshop – Day 1)

7:00 – 8:00 AM Registration

8:00 – 8:15 AM Welcome Address

Workshop Session 1

Keynote addresses: Latest Developments and Needs for Nonthermal Processing Technologies

8:15 – 8:40 AM Keynote Presentation 1.1: Industry perspective

8:40 – 9:05 AM Keynote Presentation 1.2: Regulatory perspective

9:05 – 9:30 AM Keynote Presentation 1.3: Academic perspective

9:30 – 10:30 AM Coffee Break

Workshop Session 2

Food Safety Application and Validation of Nonthermal Processing Technologies

10:00 – 10:30 AM Keynote Presentation 2

10:30 – 10:50 AM Invited presentation

10:50 – 11:10 AM Invited presentation

11:10 – 11:30 AM Invited presentation

11:30 – 11:45 AM Presentation

11:45 – 12:00 PM Presentation

12:00 – 1:00 PM Lunch

Workshop Session 3

Nonthermal Technologies for Texture, Extraction and Functionality Applications

1:00 – 1:30 PM Keynote Presentation 3

1:30 – 1:50 PM Invited presentation

1:50 – 2:10 PM Invited presentation

2:10 – 2:30 PM Invited presentation

2:30 – 2:45 PM Presentation

2:45 – 3:00 PM Presentation

3:00 – 3:15 PM Coffee Break

***Program Subject to Revision**

Wednesday, May 24, 2017 (Workshop – Day 1 continued)

Workshop Session 4

Breakout session I

3:15 – 4:15 PM 4 Concurrent Breakout Sessions on Key Nonthermal Technologies

High pressure processing Pulsed electric field Cold plasma Other technologies

4:15 – 4:45 PM Break – Assemble in front of the hotel by 4:30 PM

Buses will leave hotel by 4:45 PM sharp

4:45 – 5:45 PM Bus ride to the dinner venue

5:45 – 6:30 PM Navy Pier

6:30 PM Board the cruise

7:00 – 9:30 PM Dinner and networking reception in a cruise (Spirit of Chicago) onboard at Lake Michigan

9:30 – 10:15 PM Bus ride to hotel

Thursday, May 25, 2017 (Workshop – Day 2)

Workshop Session 5

Commercialization and Industrial Applications

8:30 – 9:00 AM Keynote Presentation 5

9:00 – 9:20 AM Invited presentation

9:20 – 9:40 AM Invited presentation

9:40 – 10:00 AM Invited presentation

10:00 – 10:15 AM Presentation

10:15 – 10:30 AM Presentation

10:30 – 11:00 AM Coffee Break

Workshop Session 6

Breakout Session II

11:00 – 12:00 PM 4 Concurrent Breakout Sessions on Key Nonthermal Technologies

High pressure processing Pulsed electric field Cold plasma Other technologies

12:00 – 1:00 PM Lunch

Workshop Session 7

Student Presentations and Posters

1:00 – 1:30 PM Keynote Presentation 7

Underpinning science and future research needs for nonthermal processing technologies

1:30 – 2:00 PM Student oral presentations and judging

2:00 – 2:30 PM Poster viewing and vendor exhibition

2:30 – 3:00 PM Coffee Break

Thursday, May 25, 2017 (Workshop – Day 2 continued)

Workshop Session 8

Future Prospects of Nonthermal Technologies

3:00 – 3:30 PM Keynote Presentation 8

3:30 – 3:50 PM Invited presentation

3:50 – 4:10 PM Invited presentation

Workshop Session 9

Workshop Summary

4:10 – 4:35 PM Summary of Workshop

Student Presentation Awards

4:35 – 5:00 PM Presentation on 2018 Nonthermal Processing Workshop & the Symposium at Cornell University

Friday, May 26, 2017 (Optional Field Trip)

7:00 – 8:00 AM Registration

8:00 – 8:30 AM Shuttle to the Institute for Food Safety and Health (IFSH)

8:30 – 10:30 AM Tour of the nonthermal processing facilities at IFSH

10:30 – 11:30 AM Shuttle to Liberty Cold – high pressure processing toll facility

11:30 – 1:30 PM Tour of the facility

1:30 – 2:15 PM Debriefing, Questions & Answers

Boxed lunch (potentially be sponsored by the hosting company)

2:15 – 3:00 PM Shuttle to Marriot, Burr Ridge

Invited Speakers

The confirmed list of invited speakers will be available soon. All members of the international scientific committee are invited. We expect that most of them will be available to present.

Members of the International Scientific Committee:

Lilia Ahrne, Ph.D., Swedish Institute for Food and Biotechnology, Sweden

Bala Balasubramaniam, Ph.D., Ohio State University, USA

Gustavo Barbosa-Canovas, Ph.D., Washington State University, USA

Glenn Black, Ph.D., FDA, USA

Roman Buckow, Ph.D., CSIRO, Australia

Christopher Doona, Ph.D., US Army Natick Soldier RD&E Center, USA

Volker Heinz, Ph.D., German Institute of Food Technologies (DIL), Germany

Marc Hendrickx, Ph.D., Catholic University of Leuven, Belgium

Larry Keener, Ph.D., International Food Safety Consultant, USA

Invited Speakers (continued)

Dietrich Knorr, Ph.D., Berlin University of Technology, Germany
Kathiravan Krishnamurthy, Ph.D., Illinois Institute of Technology, USA
John Larkin, Ph.D., Food Protection and Defense Institute, USA
Xiaojun Liao, Ph.D., China Agricultural University, China
Olga Martin-Belloso, Ph.D., Universidad de Lleida, Spain
Carmen Moraru, Ph.D., Cornell University, USA
Indrawati Oey, Ph.D., University of Otago, New Zealand
Errol Raghubeer, Ph.D., Avure, USA
Hosahalli Ramaswamy, Ph.D., McGill University, Canada
Amauri Rosenthal, Ph.D., EMBRAPA, Brazilian Corporation for Agricultural Research, Brazil
Petros Taoukis, Ph.D., National Technical University of Athens, Greece
Carole Tonello, Ph.D., NC Hiperbaric, Spain
Jamie Valenti-Jordan, Ph.D., Hampton Creek, USA
Marcia Walker, Ph.D., Lab 915, USA
Jason Wan, Ph.D., Illinois Institute of Technology, USA (Chair)
Howard Zhang, Ph.D., United States Department of Agriculture, USA

Workshop and Short Course Event Organizers



Registration Information for Workshop, Short Course and Events

We invite you and your colleagues to attend the 2017 IFT-EFFoST International Nonthermal Processing Workshop and short course. You can register for the event online using our secure Eventbrite site by clicking the link: [REGISTER via Eventbrite](#)

Registration type	Workshop	Short course ¹	Optional Field Trip ²	Dinner May 24 ³
Professionals (non-student)				
Early bird deadline (April 3, 2017) ⁴	\$499	\$199	\$50	Included in the workshop registration
Online full registration (May 15, 2017)	\$599	\$249	\$75	Included in the workshop registration
Onsite registration (May 23-25, 2017)	\$649	\$299	\$100	Included in the workshop registration
Students				
Early bird deadline (April 3, 2017) ⁴	\$249	\$99	\$30	Included in the workshop registration
Online full registration (May 15, 2017)	\$349	\$149	\$50	Included in the workshop registration
Onsite registration (May 23-25, 2017)	\$399	\$199	\$75	Included in the workshop registration
Spouse and guests				
Early bird deadline (April 3, 2017) ⁴	N/A	N/A	\$50	\$130
Online full registration (May 15, 2017)	N/A	N/A	\$75	\$150
Onsite registration (May 23-25, 2017)	N/A	N/A	\$100	\$175

¹Registration for the short course will be limited to 40 registrants. Therefore, we urge you to register for the short course ASAP.

²The optional industry tour to high pressure processing toll facility and nonthermal processing laboratories of the Institute for Food Safety and Health will take place on Friday, May 25, 2017. The fees cover the transportation costs **and boxed lunch**.

³The cruise dinner will be held on Wednesday, May 24, 2017. Dinner with light music will be served onboard of Spirit of Chicago" cruise line in Lake Michigan. The fees covers the actual cost of the dinner, **soft drinks**, and transportation (**cash bar will be available**). Workshop registration fee includes the dinner. **Spouses/guests need to purchase their dinner ticket to attend the event.**

Workshop and Short Course Event Organizers



Nonthermal Workshop Venue, May 24-25, 2017 Chicago Marriott Southwest at Burr Ridge, IL, USA

Theme: Applications and Commercialization of Nonthermal Food Processing Technologies

Chicago Marriott Southwest at Burr Ridge

The workshop will be held at the “Chicago Marriott Southwest at Burr Ridge”. This category 4 hotel is located at “1200 Burr Ridge Parkway, Burr Ridge, IL 60527, which is just 21 miles south of the O’Hare International Airport and 13 miles west of the Midway International Airport. The hotel offers over 130 rooms.

We secured a special discounted rate (\$182 to \$212 per night based on the type of room) at the hotel. To take advantage of the discounted price, please use the link below.

The discounted rate will be available until **May 1, 2017**. Therefore, we encourage you to make the reservations ASAP.



To learn more about the hotel, please visit -

- <http://www.marriott.com/hotels/travel/chisw-chicago-marriott-southwest-at-burr-ridge/>
- https://www.tripadvisor.com/Hotel_Review-g35742-d483292-Reviews-Chicago_Marriott_Southwest_at_Burr_Ridge-Burr_Ridge_DuPage_County_Illinois.html

Workshop and Short Course Event Organizers



Workshop Program, May 24-25 Chicago Marriott Southwest at Burr Ridge, IL, USA

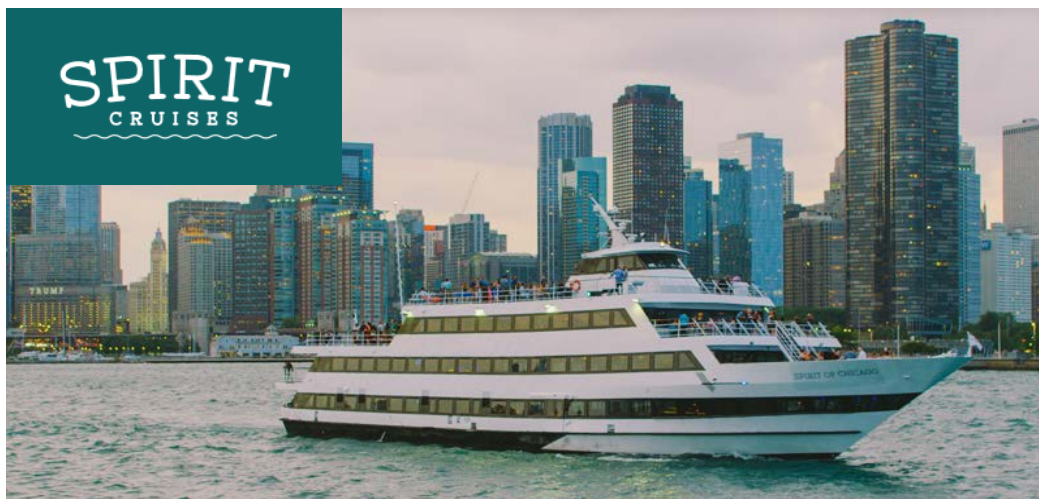
Theme: Applications and Commercialization of Nonthermal Food Processing Technologies

Sprit of Chicago Dinner Cruise

On Wednesday, May 24, 2017 night, we will take a dinner cruise (Spirit of Chicago cruises) on Lake Michigan. You will get an opportunity to enjoy the Chicago skyline while enjoying a delicious dinner. DJ Music and interactive games will be provided. The cruise is estimated to last for two and half hours.

We will assemble in front of the hotel (Chicago Burr Ridge Marriott) by 4:30 PM and the buses will leave the hotel sharply at 4:45 PM. The boarding time for the cruise is 6:30 PM at Navy Pier. The cruise will depart at 7:00 PM. We are expected to be back In Navy Pier at 9:30 PM.

To know more details about the cruise, please visit <https://www.spiritcruises.com/chicago>.



Workshop and Short Course Event Organizers

