



Frozen Dessert Center

2021 ANNUAL
TECHNICAL CONFERENCE

October 25th & 26th, 2021



Conference Content

The University of Wisconsin-Madison, Frozen Dessert Center hosts an annual conference focused on sharing the latest science-based details pertinent to the frozen dessert industry.

This year finds us with a face-to-face program with highlights of:

- The latest in frozen dessert tomography
- A review of “creaminess” in frozen desserts
- Consumer preference studies
- Novel homogenization technologies
- The physics, performance and future of emulsifiers in ice cream
- Plus, various tastings, student research posters and networking

Registration Information

Fee : \$299

<https://uwccs.eventsair.com/frozen21/reg>

Program Contact:

Professor Scott Rankin
Dept. of Food Science UW-Madison
Babcock Hall 1605 Linden Drive
Madison, WI 53706
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Speakers

Grace Lewis

Assistant Professor,
Department of Animal and
Food Science, University of
Wisconsin- River Falls

Sergio Martinez

Monteagudo

Assistant Professor,
Department of Family and
Consumer Sciences,
Chemical and Engineering
Materials, New Mexico State
University

Kaavya Rathnakumar

Director - Frozen Dessert
Center, University of
Wisconsin, Madison

Mark Lindsay

Product Development
Technologist
Wells Enterprises
Le Mars, IA

Graciela ALVAREZ

Director of Research,
INRAE, Refrigeration
Research Unit

Scott Rankin

Chair and Professor,
Department of Food
Science, University of
Wisconsin, Madison

Lauren Sipple

PhD Student, Department
of Food Science, University
of Wisconsin, Madison

Donna Berry

Food Scientist, Editor and
Consultant

Jodi Price

Senior Application
Specialist, IFF

Program Contact:

Dr.Scott Rankin - sarankin@wisc.edu
Dr.Richard Hartel - rwhartel@wisc.edu
Dr.Kaavya Rathnakumar - rathnakumar@wisc.edu

Held at: Dept. of Food Science UW-Madison
Babcock Hall 1605 Linden Drive, rm 205
Madison, WI 53706

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*Cancellation policy: Refunds, minus a \$100 administrative fee, will be made for cancellations received on or before October 5, 2021. Cancellations received after October 5, 2021, will not receive a refund. Substitute registrations are not accepted. Contact Heather Cooper for all registration issues at heather.cooper@wisc.edu. If the course is cancelled for any reason, your registration fee will be refunded. The course organizers are not responsible for the refund of any other costs.

If there is a discrepancy in the above information, please contact CALS Conference Services via email at conference@cals.wisc.edu.

*Credit card payments are accepted online.

Presentations

Monday, October 25, 2021

1pm Microtomography for Ice-cream and Sorbet

❖ Graciela Alvarez

2 Understanding the multimodal sensory character of creaminess

❖ Scott Rankin

230 Consumer perception of ice cream and frozen desserts in the “better-for-you” category

❖ Lauren Sipple

3 Providing Permission to Indulge

❖ Donna Berry

4 Posters, tasting, networking

Poster Presentations *UW-M Graduate Students*

- ❖ Sam VanWees - **Understanding shrinkage in Frozen desserts: the role of proteins at the air interface**
- ❖ Biqing Wu - **Characterization and modeling of frozen dessert meltdown behavior**
- ❖ Dimuth Panditharatne - **Assessment of Scraped Surface Freezer Design and Operation to Produce Healthier Frozen Desserts using Computational Modeling**
- ❖ Cameron Wicks - **The effect of polyphenols on ice-cream structure and their impact on melting behavior**

Tuesday, October 26, 2021

9am High pressure jet processing in ice cream manufacture

❖ Grace Lewis

930 Hydrodynamic cavitation: Process opportunities for ice-cream formulations

❖ Sergio Martinez

10 Emulsification application in Non-dairy Frozen desserts

❖ Jodi Price

1030 Utilization of dairy by-products in the manufacturing of Ice-cream

❖ Kaavya Rathnakumar

11 A better whey: the production of multiple high-value products from Greek yogurt acid whey via filtration and acid-catalyzed lactose hydrolysis

❖ Mark Lindsay

1130 Program evaluation, adjourn