



Organized by the
 Fats and Oil Program
 Process Engineering Research & Development Center
 Texas A&M Engineering Experiment Station
 The Texas A&M University System

**Trends in Margarine and
 Shortening Manufacture,
 Non-Trans Products**
 May 12-16, 2019

SCHEDULE

Sunday, May 12, 2019

- 4:00 PM Registration, Hampton Inn
- 5:15 PM Short Course Orientation
 "How To Get The Most Out of a Training Program"
 – Staff, Process Engineering R&D Center
- 5:30 PM Dinner, Rudy's BBQ (optional)

Monday, May 13, 2019

- 7:40 AM Bus leaves hotel to Rudder Tower, Texas A&M University
- 8:00 AM "Chemistry of Vegetable Oils" – M.S. Alam
- 9:00 AM "Margarines and Spreads: Product Quality and Safety
 Evaluation" – R. Gnanasambandam
- 10:00 AM Break
- 10:15 AM "Lecithin and It's Application in Margarine and
 Shortening" - A. Rumayor
- 11:15 AM **Group Photo**
- 11:30 AM Lunch
- 12:15 PM "Oxidative Stability of Shortenings and Spreads" - M. Hu
- 1:15 PM "Use of Enzymatic Interesterification for the Production of
 Non-Trans Margarines" – L. Espinosa
- 2:15 PM "Crystallization of Palm Oils" – L. Espinosa
- 2:45 PM Campus/MSC Tour
- 3:45 PM Bus leaves for George Bush Library/Museum Tour
- 5:00 PM Bus leaves for hotel

Tuesday, May 14, 2019

- 7:40 AM Bus leaves hotel for Process Engineering R&D Center,
 RELLIS Campus
- 8:00 AM "Crystallization and Processing Technology" – K.F. Hoyer
- 9:30 AM "Functional Ingredients for Margarines and Shortenings"
 – J. Neddersen
- 10:50 AM "Crystallization of Fats/Crystallizer" – J. Neddersen
- 11:35 AM Break
- 11:45 AM "Quality Preservation Systems in Shortening and Spreads"
 – B. Binbuga
- 12:30 PM Lunch
- 1:45 PM Demo (Soft tables Margarine) – K.F. Hoyer
- 2:30 PM Break
- 2:45 PM "Global Oils and Fats Supply for Solid Fats/Margarine
 Production" – F. Hidzir
- 3:45 PM "Oil Palm Sustainability" – T. Tangavelu
- 4:45 PM Bus leaves for hotel

Wednesday, May 15, 2019

- 7:40 AM Bus leaves hotel for Process Engineering R&D Center,
 RELLIS Campus
- 8:00 AM "Processing Equipment Evaluation" – A. Sievers
- 9:00 AM Demo (Puff Pastry Margarine) – K.F. Hoyer
- 10:30 AM Break
- 10:45 AM "Introduction to DSC, NMR & TA" – K.F. Hoyer
- 11:45 AM Graduation Lunch
- 2:15 PM Demo (Optimization Trials Table Margarine) – K.F. Hoyer
- 3:15 PM Break
- 3:30 PM "Applications of FT-NIR in Margarine and Shortening
 Analyses" – J. Hudson
- 4:30 PM Bus leaves for hotel

Thursday, May 16, 2019

- 7:40 AM Bus leaves hotel for Process Engineering R&D Center,
 RELLIS Campus
- 8:00 AM Demo (N2 Incorporation in Margarine/Shortening
 Products) and (Process Understanding) - K.F. Hoyer/M.
 Sorensen
- 9:30 AM Break
- 9:45 AM Product Evaluation – K.F. Hoyer
- 10:45 AM Final Remarks and questions from participants –
 MS Alam
- 11:00 AM Short course Adjourns



You can register online at <http://perdc.tamu.edu/fatsoils/>

OBJECTIVES OF SHORT COURSE

Train production personnel in principles and practices of:

- Production of margarines and low fat spreads
- Formulation of Non-trans and functional products
- Ensuring product quality
- Demonstrate margarine manufacture techniques using soybean, interesterified and palm oils

ACCOMMODATIONS

Reservations for lodging should be made directly by attendee. A block of rooms has been reserved at the **Hampton Inn** for short course participants at the special rate of **\$99/night** plus tax for single or double occupancy. Ask for the rate specifically and mention the **Group Code "MAR."** **Hotel reservations must be received before May 2, 2019** in order to get special rate. You can make your reservation by telephone, fax, or the internet:

When faxing or emailing hotel reservations, please include a credit card number to confirm your reservation, and also include your departure and arrival dates.

Hampton Inn
320 South Texas Avenue
College Station, Texas 77840, USA
Tel: 979-846-0184; FAX: 979-268-5807
www.collegestation.hamptoninn.com

TRANSPORTATION

Easterwood Airport at College Station is easily reached by about 10 flights daily. From Dallas/Ft. Worth International Airport connect via American Airlines. From Houston Intercontinental Airport connect via Continental Airlines. **The airport code for Easterwood Airport is CLL.** To get to the hotel in College Station, participants can call the **Hampton Inn (979-846-0184)** upon arrival at Easterwood Airport for courtesy van service or schedule a pickup with GroundShuttle.com (855.303.4415) from George Bush Intercontinental airport (IAH) or Houston Hobby airport (HOB).

REGISTRATION

The registration fee for the short course and pilot plant demonstrations includes Sunday evening mixer, daily lunch, refreshments at breaks, local transportation, a short course eBook manual, and certificate of completion. **Registration fee is \$1575. Registration fees are not refundable**, but substitute personnel may be sent by the same firm. Space is limited; therefore, applications will be accepted on a first-come, first-served basis. Rights to substitute speakers, change topics and schedules as necessary to expedite the course are reserved. Participants must be pre-registered before arrival in College Station.

You can register online at
<http://perdc.tamu.edu/fatsoils/>

You can pay by credit card (American Express, Visa, or Master Card).

If paying by check, make payable to **TEES (Texas A&M Engineering Experiment Station) and mail to TEES Fiscal Office, 3124 TAMU, College Station, TX 77843-3124.** Mail the registration form and a photocopy of your check to Cyndi Casanova, Short Course Coordinator (see address below).

For registration inquiries, contact:

Cyndi Casanova
Short Course Coordinator
Process Engineering R&D Center
2476 TAMU
College Station, Texas 77843-2476 U.S.A.
Tel: 979.845.2741

Fax: 979.845.2744
Email: shortcourse@tamu.edu

LOCATION AND FACILITIES

All lectures will be held at Rudder Tower, Texas A&M University Campus and RELLIS campus. College Station temperatures are from 80 - 90 °F (26-32 °C) in April. Participants will be taken by bus to the Texas A&M University's Rudder Tower and the Fats & Oils Pilot Plant at Texas A&M's RELLIS Campus for classes.

SHORT COURSE CONDUCT

All short course sessions will be informal. Insurance policies do not allow non-university personnel, other than original manufacturers, to operate equipment. Questions are encouraged during the lectures, breaks, and social periods. **Laptops are allowed in the classroom to follow the presentations in the short course eBook manual.** If you require WiFi access during the conference, please inform the Short Course Coordinator when you register (the hotel has its own WiFi access and is separate from the conference). Rights to cancel this course with refund, to deny service, to substitute speakers, and to change schedules, as necessary to expedite the course, are reserved. Texas A&M University System policy does not allow inclusion of alcoholic beverages in registration fees.

INSTRUCTORS

Dr. MS Alam, Head, Fats & Oils Program, Process Engineering R&D Center, Texas A&M University
Leon Espinosa, Regional Sales Manager, DeSmet Ballestra
Ravin Gnanasambandam, Principal Scientist-Ingredients Technology; Dairy Foods R&D, Land O Lakes, Inc.
Klaus Funch Hoyer, Innovation Centre Manager, SPX Flow Technology
Fairus Hidzir, Regional Manager, MPOB, Washington D.C.
Dr. Josh Hudson, Southwest Regional Manager, Perten and Delta Instruments Inc.
Dr. Min Hu, Senior Application Scientist, DuPont Nutrition and Health
John Neddersen, Senior Applications Specialist Fats & Oils, DuPont Nutrition & Health
Andres Rumayor, Lipids Area Manager, Palsgaard Mexico
Alf Sievers, Process Category Sales Manager & Product Development Coordinator Global Fats & Oils, SPX Flow Technology
Dr. Tiger Tangavelu, Technical Director, Olera Shortening and Oils
Stacy Williams, Technician, Process Engineering R&D Center, Texas A&M University

UPCOMING PRACTICAL SHORT COURSES

For details, visit <http://perdc.tamu.edu/short-courses/>

Vegetable Oil Frying
TBA 2019

Vegetable Oil Processing
October 7-11, 2018

For additional technical information, contact:

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