



# PERDC

PROCESS ENGINEERING RESEARCH  
& DEVELOPMENT CENTER  
TEXAS A&M ENGINEERING EXPERIMENT STATION

## 2<sup>nd</sup> Annual Practical Short Course

Formerly "Food Protein Research & Development Center"

Organized by the  
Process Engineering Research & Development Center  
Extrusion Technologies Program  
Texas A&M Engineering Experiment Station  
The Texas A&M University System  
College Station, Texas 77843-2476 U.S.A.

## Extruded Pet Foods and Treats July 10-13, 2017

### SCHEDULE

#### Monday, July 10, 2017

- 6:00 PM Registration, hotel
- 6:30 PM "Welcome, Introduction, & Announcements"  
- Mian N. Riaz
- 7:00 PM Dinner with Cash Bar, hotel (optional)

#### Tuesday, July 11, 2017

- 7:40 AM Bus leaves hotel for Rudder Tower, Texas A&M University
- 8:00 AM "Introduction to Extrusion" - Mian N. Riaz
- 9:15 AM "Overview of Pet Food Nutrition" - Fabiano Cesar Sá
- 10:15 AM Break
- 10:30 AM "Raw Materials for Extrusion Processing"  
- Galen Rokey
- 11:45 AM **Group Photo**
- 12:00 PM Lunch
- 1:15 PM "Bulk Material Handling in Extrusion Processes"  
- Jonathan Thorn
- 2:15 PM "Non-Extruded Treats" - Galen Rokey
- 3:00 PM Break
- 3:15 PM "Additives to Optimize Pet Food Quality"  
- Lynn Deffenbaugh
- 4:00 PM Bus leaves for PERDC for Multiple Demonstrations:
  - **Pet Treat on Single Screw Extruder**
  - **Pet Treat on Twin Screw Extruder**
- 5:00 PM Bus Leaves for Hotel

#### Wednesday, July 12, 2017

- 7:40 AM Bus leaves hotel for Rudder Tower, Texas A&M University
- 8:00 AM "Extrusion Hardware and Die Design for the Production of  
Pet Food Products" - Galen Rokey
- 9:15 AM "Preconditioning: Effects on Extrusion of Pet Food"  
- Topher Dohl
- 10:00 AM Break
- 10:15 AM "Extruded Treats" - Galen Rokey
- 11:00 AM "Automated Control of Extrusion Systems" - Topher Dohl
- 11:45 PM Lunch
- 1:00 PM "Software Parameters and Operating Parameters"  
- Galen Rokey
- 2:00 PM "Product Analysis and Laboratory Techniques"  
- Topher Dohl
- 2:45 PM Break
- 3:00 PM "Pet Food and Treat Shelf Life" - Sara Cutler
- 4:00 PM Bus Leaves for PERDC for Multiple Demonstrations:
  - **Multi Shaped Pet Food on Single Screw Extruder**
  - **Pet Food with Fresh Meat on Twin Screw Extruder**
- 5:00 PM Bus leaves for hotel

#### Thursday, July 13, 2017

- 7:40 AM Bus leaves hotel for Rudder Tower, Texas A&M University
- 8:00 AM "Drying, Cooling and Enrobing Systems" - Keith Erdley
- 9:00 AM "Meat and Meat Handling in the Pet Food Industry"  
- Patrick Burke
- 10:00 AM Break
- 10:15 AM "Food Safety and Extrusion Systems" - Leah Wilkinson
- 11:15 AM "Cutting and Sizing of Pet Food and Treats"  
- Tim Reminga
- 12:00 PM **Graduation Lunch**
- 1:15 PM "Baked Pet Foods" - Brett Cutler
- 2:15 PM "Pet Food Color 101: Synthetic and Natural Colors for Pet  
Products" - Jeff Plodzien
- 2:45 PM Break
- 3:00 PM "NIR Analyzer on Ingredients and Pet Feed"  
- Josh Hudson
- 3:30 PM "Troubleshooting: Ensuring a Smooth Running Extrusion  
Operation" - Galen Rokey
- 4:30 PM Bus leaves for PERDC for Multiple Demonstrations:
  - **Baked Pet Food Treats**
  - **Surface Coating of Pet Foods**
  - **NIR Analyzer on Ingredients and Pet Feed**
- 5:30 PM Bus Leaves for Hotel



You can register online at <https://perdc.tamu.edu/extrusion/>

## OBJECTIVES OF SHORT COURSE

- Train production personnel in principles and characteristics of extruders and support systems for effective selection and operation.
- Review current practices for preparation of pet foods and pet treats.
- Demonstrate equipment in operation and familiarize attendees with practical aspects of extrusion technology for pet food manufacturing.

## ACCOMMODATIONS

Reservations for lodging should be made directly by attendee. A block of rooms has been reserved at the College Station Hilton and Conference Center for short course participants at the special rate of **\$119/night** plus tax for single or double occupancy. Ask for the rate specifically and mention the **Group Code "PET17."** **Hotel reservations must be received before June 16, 2017** in order to get special rate; the special rate DOES NOT APPLY before July 10 or after July 13. You can make your reservation by telephone, fax, or the internet:

College Station Hilton & Conference Center  
801 University Drive East  
College Station, Texas 77840, USA  
Tel: 979.693.7500; FAX: 979.846.7361 & 979.260.1931  
www.hiltoncs.com

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

## TRANSPORTATION

Easterwood Airport at College Station is easily reached by about eight flights daily. From Dallas/Ft. Worth International Airport connect via American Airlines. From Houston Intercontinental Airport connect via United Airlines. **The airport code for Easterwood Airport is CLL.** To get to the hotel in College Station, participants can call the **Hilton hotel (979.693.7500)** 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 include Monday evening mixer, daily lunch, refreshments at breaks, local transportation, a short course eBook manual, and certificate of completion. **Registration fee is \$1195 if paid in full by June 16, 2017. After this date, registration fee is \$1295.** Continuing Education Units (CEUs) are available upon request. An **OPTIONAL** black&white paper manual/binder is available for an additional \$200 fee. There is a 10% registration discount if three or more individuals from the same organization register for the short course. Academic discounts may be applicable if space is available. **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.

You can register online at

**<https://perdc.tamu.edu/extrusion/>**

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

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](mailto:shortcourse@tamu.edu)

## LOCATION AND FACILITIES

All lectures will be held at Rudder Tower, Texas A&M University Campus. College Station temperatures in July are from 75-95°F (24-35°C). Participants will be taken by bus to the Process Engineering R&D Center (Texas A&M RELIS Campus) for afternoon demonstrations. Manuals and lectures will be in English.

**Translation equipment is available by prior arrangement for organized groups willing to provide their own translators.**

## 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

**Patrick Burke**, President and CEO, Omaha Industries, Inc.

**Brett Cutler**, Field Service Manager, Baker Perkins Inc.

**Dr. Sara Cutler**, Technical Service Manager, Kemin Nutrisurance

**Dr. Lynn Deffenbaugh**, Technical Services Manager, Kemin Nutrisurance, Inc.

**Christopher (Topher) Dohl**, Research Coordinator, Wenger Manufacturing Company

**Keith Erdley**, Technical Manager, Drying Technology, Wenger Manufacturing Company

**Gerry Hertz**, Research Coordinator & Technical Service, Wenger Manufacturing Company

**Dr. Josh Hudson**, Southwest Regional Manager, Perten Instruments

**Chris Mack**, Senior Research Associate, Extrusion Technology Program, Process Engineering R&D Center

**Jeff Plodzien**, Chemist III Confections and Pet Food, Sensient Food Colors LLC.

**Stephen D. Prince**, Research Assistant, Extrusion Technology Program, Process Engineering R&D Center

**Dr. Mian N. Riaz**, Head, Extrusion Technology Program, Process Engineering R&D Center

**Tim Reminga**, Account Manager, Baker Perkins Inc.

**Galen Rokey**, Process Technology Director, Companion Animal Division, Wenger Manufacturing Company

**Dr. Fabiano Cesar Sá**, Companion Animal Nutritionist, Wenger Manufacturing Company

**Kerry Thomas Sr.**, Technical Assistant, Extrusion Technology Program, Process Engineering R&D Center

**Jonathan Thorn**, Executive Director of Process Technology, Schenck Process LLC

**Leah Wilkinson**, Vice President of Legislative, Regulatory and State Affairs, American Feed Industry Association

## UPCOMING PRACTICAL SHORT COURSES

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

### **Aquaculture Feed Extrusion, Nutrition, & Feed Management**

August 20-25, 2017

### **Food Extrusion**

September 24-28, 2017

### **Feeds and Pet Food Extrusion**

January 28 - February 2, 2018

### **Snack Food Processing**

March 2018

### For additional technical information, contact:

**Dr. Mian N. Riaz**

Process Engineering R&D Center

Texas A&M University System

Tel: 979.845.2774

Email: [mnriaz@tamu.edu](mailto:mnriaz@tamu.edu)