



University of Illinois



## Corn Processing Workshops and 9<sup>th</sup> International Starch Technology Conference

Registration now open! Visit <https://ecommerce.aces.illinois.edu/cornprocessing/>

### Tentative Program

#### Monday, February 2

8:00-5:00	<b><i>Corn Wet Milling Short Course</i></b>	<i>Heritage Room, ACES Library</i>
	A fundamental understanding of technology and science associated with corn wet milling. We will cover topics from the whole kernel to finished starch products, discuss industry trends and provide laboratory demonstrations. Course is designed for a broad audience and is taught by experts from industry, academia and federal research agencies.	
8:00	The corn refining industry Kernel structure, composition and cereal chemistry Overviews of corn processes: dry grind and dry milling Mycotoxins	
12:00	<i>Lunch (included in registration fee)</i>	<i>Heritage Room, ACES Library</i>
1:00	The corn wet milling process Steeping Process simulation Methods to predict wet milling yields NIR prediction of starch yield Laboratory methods: introduction Wet milling laboratory demonstrations Starch hydrolyzates	
Evening	Reception with hot buffet (included in registration) Poster presentations	<i>Hawthorn Suites</i>

#### Tuesday, February 3

8:00-3:00	<b><i>Corn Wet Milling Short Course (conclusion)</i></b>	<i>Heritage Room, ACES Library</i>
	Enzymatic wet milling and alternative corn fractionation processes Modified starch products and applications	
12:00	<i>Lunch (included in registration fee)</i> Separations: germ, fiber, gluten, starch; hydrocyclones, screens and centrifuges Removal of water: steepwater, corn gluten feed, corn gluten meal	
3:00	Certificate awards and adjournment	
4:00	<b><i>International Starch Technology Conference (ISTC)</i></b>	<i>Hawthorn Suites</i>
	A conference to facilitate interactions among international representatives from the starch processing industry, government research agencies and allied industries. The conference is unique as we will focus on technology issues of concern to corn processors. Pauline Teunissen, DuPont Industrial Biosciences Dell Hummel, Alfa Laval	
Evening	Reception with hot buffet (included in registration) Poster Presentations	<i>Hawthorn Suites</i>

#### Wednesday, February 4

8:00-12:00	<b><i>International Starch Technology Conference (cont.)</i></b>	<i>Hawthorn Suites</i>
	Jeremy Saunders, Novozymes Jeroen Poldervaart, Andritz Gouda	
12:00	<i>Lunch</i>	<i>Hawthorn Suites</i>
1:00-5:00	<b><i>New Technologies in Ethanol Production</i></b>	<i>Heritage Room, ACES Library</i>
	A fundamental understanding of technology and science associated with biofuels production from cereal grains and biomass. Presenters will cover feedstock development, unit operations, process design and simulation, enzymatic technologies, coproducts, fractionation and other technologies. The course is designed for a broad audience to serve representatives from dry grind ethanol, cellulosic ethanol and allied industries.	

1:00	<b>New Technologies in Ethanol Production (cont.)</b> Welcome, course introduction Corn structure and composition Overview of corn wet milling, dry milling and dry grind Corn quality, cleaning and milling Conversion of starch into sugars Corn fractionation, dry grind ethanol and corn quality laboratories	<i>Heritage Room, ACES Library</i>
Evening	Reception with hot buffet (included in registration) Poster presentations	<i>Hawthorn Suites</i>

#### Thursday, February 5

8:00-5:00	<b>New Technologies in Ethanol Production (cont.)</b>	<i>Heritage Room, ACES Library</i>
8:00	Saccharification and fermentation Distillation and coproduct recovery Water use in ethanol production Biomass deconstruction, cellulosic ethanol, microbiology Fermentation and new technologies	
12:00	Lunch (included in registration)	<i>Heritage Room, ACES Library</i>
1:00	NIR for prediction of corn quality and process optimization New coproducts in bioethanol production Corn and DDGS fractionation technologies Conventional and modified DDGS in swine and poultry diets	
Evening	Reception with hot buffet (included in registration) Poster presentations	<i>Hawthorn Suites</i>

#### Friday, February 6

8:00-11:00	<b>New Technologies in Ethanol Production (conclusion)</b> Technologies to increase rate of fermentation and final ethanol concentration New enzymatic technologies in dry grind ethanol Biobutanol production in dry grind	<i>Heritage Room, ACES Library</i>
11:00	Certificate awards and adjournment	

#### Short Course Faculty:

Bruce Dien, NCAUR/ARS/USDA  
Dell Hummel, Alfa Laval  
Hans Blaschek, University of Illinois  
Yong-Su Jin, University of Illinois  
David Johnston, ERRC/ARS/USDA  
John Mathews, Novozymes  
Carl Parsons, University of Illinois

Marvin Paulsen, University of Illinois  
Kishore Rajagopalan, Illinois Sustainable  
Technology Center  
Kent Rausch, University of Illinois  
Eric Shinsato, Ingredion  
Matt Reboli, DuPont  
Vijay Singh, University of Illinois  
Hans Stein, University of Illinois  
Mike Tumbleson, University of Illinois

#### Contacts:

Kent Rausch	(217) 265-0697	krausch@illinois.edu	<a href="http://www.starchconference.org">www.starchconference.org</a>
Vijay Singh	(217) 333-9510	vsingh@illinois.edu	
Mike Tumbleson	(217) 333-9786	mtumbles@illinois.edu	

Registration for each event includes: bound notebook of presentations and proceedings for each event, lunch and hot buffet reception. To guarantee notebooks and proceedings, register by January 6.

A. Wet Milling course only	\$995	D. Wet Milling + Starch Conference	\$995
B. ISTC only	\$150	E. Corn Ethanol + Starch Conference	\$995
C. Corn Ethanol course only	\$995	F. All 3 events (save \$540)	\$1600

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