

The **Alcohol School** **Concise**

The Alcohol School **Extra Credit** Troubleshooting & Optimization Workshop

The Alcohol School Concise and Extra Credit 2017 - Bangkok Recap

Based on the initial success of the inaugural course held in 2015, The Ethanol Technology Institute decided to hold another course in the Far East again. We have just completed the 2017 Alcohol School Concise and Extra Credit held in Bangkok, Thailand from May 16-19th. Delegates from over 14 different countries from 4 continents attended the 3-4 day course making this a truly international event.

Course Agenda

This course is designed for both fuel ethanol and distilled spirits producers to cover a wide range of important topics relevant to both industries. To kick off the event, the delegates listened to a Fuel Ethanol Industry overview from both a Global and Far East perspective. This set the stage to better understand the current situation and what future challenges are facing both markets. We also received a policy update and how things are progressing in establishing a thriving fuel ethanol market in the region. Other presentations ranged, from substrate selection and composition, storage and processing, and subsequent mash preparation. Lectures on enzyme requirements, fermentation basics and nutrition and the processing of sugar cane and molasses based feedstocks for fermentation were featured.



One of the new additions to this course was the breakout sessions. The sessions involved the areas of fuel, beverage and cellulosic alcohol production. Presentations ranged from processing consistencies and optimization to new

novel biotech yeasts and their benefits. Hygiene, process control, congener formation and control based on environmental conditions (Temperature and pH) as well as a number of 5 carbon fermentation advances were given as well. The breakout sessions were well received and attended.

Other presentations placed emphasis on yeast production, propagation, and nutritional requirements were discussed as well as processing basics such as distillation, molecular sieves, and waste water treatment technologies.

The finale consisted of looking at the challenges facing the alcohol industry and some of the technical opportunities for the future.



There were a number of networking opportunities that were available for the delegates. A reception was held for the delegates at the beginning of the course and a closing certificate ceremony allowing a chance for the delegates to mingle with both other delegates and industry experts.



LBDS and affiliated staff (see above) helped to make this event a success!



Extra Credit

Also new to the agenda for this course was the addition of an Extra Credit session based on optimization and troubleshooting on various topics ranging from milling and mashing, enzymes, fermentation, substrates and distillation. One of the highlights was the BYOP exercise that brought real world practical problems and solutions using the troubleshooting techniques learned in this one day course. This exercise consisted of any and all aspects that were covered and how it applies to customers own plants. The workshop was very well attended as well and received good praise.

Next Course

Following on the success of the Concise and Extra Credit courses, we are happy to announce that we will do another series of courses dedicated solely to the distilled spirits market. We are happy to announce The Alcohol School Concise: Distilled Spirits to be held October 24-26, 2017 at the Hannah MacLure Centre at Abertay University in Dundee, Scotland. We hope to see you there! Look for more information on our website at www.lbds.com.