IGP Supporters and Partners

Supporters

Partners
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2022 was a year of change for IGP as we transitioned into a post-COVID-19 environment and gained new leadership within the Department of Grain Science and Industry and at the IGP Institute.

The lifting of international travel restrictions allowed many of our courses and projects to shift from virtual online delivery back to on-site delivery. Through this shift back we noted an increase in the value placed on traditional face-to-face training and hands-on education. We saw a return to on-site feed and flour milling courses hosted in our mills and labs, and many of our clients and partners expressed that they were happy to be back to meeting in person.

The continuing supply chain disruptions caused by COVID-19 along with the February invasion of Ukraine by Russia had an immediate and profound impact on the international trade flow of wheat, coarse grains, and oilseeds. Historically tight supplies across all agricultural commodities have heightened the concern for food security. In addition, a rise in inflation and increasing interest rates have challenged established agribusiness activities.

Summer months saw dry weather impact crop production across the western North American grain belt, and transportation issues came to the front late in the year as low river levels on the Mississippi River and the threat of a pending rail strike complicated logistical concerns. These events have again highlighted the vulnerability of supply chains.

As international issues and trade flow changed, so did the delivery of IGP programs. This summer IGP initiated its inaugural Grain Export Supply Chain Expedition course commencing in Chicago and following the path of grain commodities from farm to international export. This course gave international buyers a chance to experience the different aspects of the supply chain including the opportunity to meet the farmers who grow the crops and the industry people responsible for organizing, storing, and transporting their grain to overseas destinations.

IGP helped fill another need by creating the first baking-specific course offered in partnership with industry personnel and the K-State grain science baking faculty on campus. The IGP–KSU Baking Basics: Breads, Cakes, and Cookies course provided a broad overview of the ingredients and processes needed to make some of the popular baked products in today’s markets. Participants learned through lectures and hands-on sessions how to identify the basic functions of ingredients, their effects on the final products, and demonstrations of the equipment used in the baking process.

We’re excited about the new courses we have developed and implemented this year and will continue to work with our commodity and industry partners to meet their needs as we move forward in 2023.

Sincerely,

Hulya Dogan
IGP Institute Interim Director
Professor and Interim Head,
Department of Grain Science and Industry
The IGP Institute and the department hosted many visitors during 2022 including a delegation from the Taiwan Agricultural Trade Goodwill Mission in September. The group included Kansas Secretary of Agriculture, Mike Beam, and other state government representatives. During their visit to IGP, the grain science department provided an overview of our programs and gave them a tour of the Hal Ross Flour Mill.

Before arriving in Manhattan, the group met with Kansas Governor, Laura Kelly, in Topeka and signed an agreement to purchase 66 million bushels of wheat from U.S. farmers over the next two years. The grain deal, which is worth approximately $576 million, will be fulfilled significantly by Kansas wheat farms.
2022

1,242 Participants
51 Countries

Algeria, Australia, Bangladesh, Belgium, Brazil, Cambodia, Canada, Chile, China, Colombia, Costa Rica, Dominican Republic, Ecuador, El Salvador, England, Ghana, Guatemala, Honduras, India, Indonesia, Ireland, Japan, Malaysia, Mexico, Morocco, Myanmar, Nepal, Netherlands, New Zealand, Nicaragua, Nigeria, Pakistan, Panama, Peru, Philippines, Poland, Romania, Saudi Arabia, Senegal, Singapore, South Africa, South Korea, Sri Lanka, Taiwan, Thailand, Turkey, United Arab Emirates, United States, Venezuela, Vietnam
Total Participants

- 30 On-Site Courses (594 Participants)
- 35 Distance Courses (648 Participants)

Impact

Additional IGP Institute Outreach
Workshops, Research, Presentations (8,685 Attendees)
As the years have passed, the need for training within the baking industry worldwide has increased tremendously. With fewer baking training programs being offered across the U.S., the IGP Institute stepped in to provide a new baking training course focused on Baking Basics: Breads, Cakes, and Cookies.

Shawn Thiele, Associate Director; Flour Milling and Grain Processing Curriculum Manager at the IGP Institute came up with the idea and managed the course. Bakery Science and Industry faculty developed the content and assisted with hands-on training in the department labs. Grain Craft also provided training in their lab located at the Kansas Wheat Innovation Center in Manhattan, Kansas.

The course was introduced this year to help industry professionals understand the basic functions of baking ingredients, recognize key pieces of equipment in the baking process, and use key production steps to create bread, cakes, and cookies.

Participants learned through classroom activities including lectures ranging from flour quality to production processing, and hands-on activities within the baking lab where they produced the three selected products.

Although it was the course’s first year for participants, there was an overwhelming response from industry professionals to join the training. The course capacity was met at 15 people, with numerous others on the waiting list. Although the number of participants couldn’t be increased at the time, Thiele believes that this course is essential for the future of the grain industry.

“It’s important for IGP to continue to expand its training activities to meet the needs of the grain industry. By creating baking training opportunities through IGP, we can further educate participants on the entire grain supply chain beginning with purchasing, flour milling, grain processing, and all the way to finished products now,” Thiele says. “This will also allow IGP to provide technical training to international clients who purchase U.S. grains and help them optimize their finished products.”

The IGP Institute plans to host this course next year, as well as offer other baking courses including advanced baking courses in the areas of breads, cakes, and cookies, and create an online virtual and on-demand baking program for industry professionals.
Course participants measure the results from baking cakes with various types of flour to see how different ingredients and types of flour affect the final characteristics of baked products.
Learning on Location
Grain export supply chain expedition follows the grain from farm to export.

From farms to export facilities, course participants of the IGP–KSU Grain Export Supply Chain Expedition saw firsthand how the U.S. grain supply chain works full circle. Hosted by the IGP Institute, the course was led by Guy Allen, grain marketing and risk management curriculum manager and agricultural economist. Joining him were 11 members from the Korea Overseas Agro-Resources Development Association and representatives from the U.S. Department of Agriculture and Kansas Department of Agriculture.

Beginning the course in Chicago, Illinois, participants began their thorough look into the supply chain and its components. The group drove south to visit grain and oilseed producers, a local grain elevator, rail facilities, and river terminals along the Mississippi and Illinois rivers. They learned about commercial barge transportation and toured a container loading facility before completing the first part of their trip in St. Louis, Missouri. They flew from St. Louis to Portland, Oregon to see a grain export terminal as the final destination to end the course.

These locations provided participants with better insight and understanding of the operations within the grain export supply chain and how the daily activities are driven by market pricing dynamics.

“The course was valuable in that we had the opportunity to visit every important stage of the grain supply chain in the United States,” says Yongzik Lee, participant and grain trader for POSCO International Corporation. “I had prior knowledge of the grain supply chain in a general sense from books and lectures, but visiting the sites and talking to real professionals conducting everyday operating and merchandising jobs was a completely whole new level.”

Allen expects this course to be held annually alongside other similar courses reach niche audiences and interests upon request.

“This course, training, and experience is unique and one that is always worth the time and effort to see the value chain firsthand and gain a deeper understanding of the U.S. system, the farmers producing the grain, the terminals and transportation sector moving the grain, and the grading system analyzing the grain they purchase,” Allen says.
Guy Allen, IGP Agricultural Economist and Grain Marketing and Risk Management Curriculum Manager (right), and course participants visited Encompass Grain – Allen Station in San Jose, Illinois, as one of the stops during the course.
The IGP Institute’s mission stresses the importance of educating industry professionals globally. To complete the mission, custom courses have been created to meet the specific needs of industry professionals around the world through partnerships with the USDA Cochran Fellowship Program, U.S. Wheat Associates, and other industry and commodity organizations.

The goal of these courses is to promote the sales and use of Kansas and U.S. grain commodities by educating international buyers and consumers on the values and benefits of U.S. grains.

In 2022, the IGP Institute hosted four partnership courses for custom wheat training. This included the U.S. Wheat Associates programs; IGP Advanced Milling course for South Korea, with five participants from South Korea, and the Core Competency Training for U.S. Wheat staff that hosted 16 participants from 10 countries. The USDA Cochran program also worked with IGP to hold the U.S. Wheat Promotion for Vietnam course with seven participants, and the U.S. Wheat Marketing and Promotion course for Morocco and Tunisia hosted nine participants from the two respective countries.

The courses provided an understanding of the process of buying U.S. wheat for their respective countries, the value of U.S. wheat as an imported product, wheat production and specifications, grain handling and milling, and the effects of grain quality on finished products. Participants visited farms and commercial company locations including elevators, mills, and export facilities for an overview of the entire industry.

“The programs expose the Fellows to the U.S. wheat supply chain and industry and assists with identifying new market opportunities for U.S.-grown wheat and wheat products,” says Shawn Thiele, program instructor and associate director of the IGP Institute. “The programs help expand market access for U.S. wheat classes in foreign locations and increase the capacity for extension and participation in international trade.”

The IGP Institute plans to build upon its relationships with national commodity partners and organizations to continue to provide technical training promoting the quality and uses of U.S. grains.

“We strive to be the go-to institute for our partners and to deliver the highest quality and all-around best training experience available today,” Thiele says.
Shawn Thiele, IGP Associate Director and Flour Milling and Grain Processing Curriculum Manager, listens along with participants from South Korea as a Cargill employee explains the board that tracks grain stored in their Salina, Kansas, elevator.
Excellence in education begins with the IGP Institute. In 2021, the IGP Institute was awarded as the Center Lead for the Soybean Excellence Center (SEC) for the Americas by the United States Soybean Export Council (USSEC). With this title, the IGP Institute helped initiate on-site courses in Latin America to continue education through the SEC Professional Certificate.

The on-site courses were held at Zamorano University in Honduras after COVID-19 travel restrictions lifted to Latin America. In conjunction with Zamorano University and Auburn University, the courses taught were based on two different track focuses including Poultry Production and Nutrition, and Feed Manufacturing to build knowledge and train industry professionals.

Carlos Campabadal, IGP Institute Feed Manufacturing and Grain Quality Management Curriculum Manager serves as the SEC Americas Center Lead Director. In this role, Campabadal is the course manager and organizer for all SEC Professional Certificate courses and taught through the Feed Manufacturing Basic Level Course.

Each course had around 30 participants from 11 Latin American countries, for a total of 120 participants throughout the four courses. This reach impacted many industry professionals who may have not had the opportunity to attend educational courses in their technical field.

Overall, the courses were well received by the participants. USSEC supports continuing this type of education through SEC programs to benefit industry members. Campabadal believes that if there is more funding, the number of courses offerings will increase for 2023.

Zamorano University is a private university that specializes in secondary education within agriculture, including majors from food science to agribusiness. Throughout the years, Zamorano has developed many relationships with Land Grant Universities across the United States to build upon student success.
SEC Americas Poultry Basic Course participants visited Zamorano University Poultry Research Facilities as part of the hands-on learning experience.
Feed millers and nutritionists benefit from sorghum-based feed course.

As one of the most drought-resistant grains on the market, the use of sorghum in feed has become more prevalent. To learn the benefits and mechanisms of using sorghum in animal feed, the IGP Institute held the IGP Feed Manufacturing course, emphasizing the use of sorghum throughout specialized lectures.

Twelve participants from Mexico representing jobs ranging from animal nutritionists to feed millers participated in the course led by Carlos Campabadal, feed manufacturing and grain management curriculum manager.

During their time at IGP, the participants attended lectures and hands-on demonstrations to visualize basic feed manufacturing techniques as well as extra activities aimed at understanding how sorghum is grown and then used in the feed mill.

These activities included visiting a grain elevator that handles sorghum, a Kansas farm specializing in growing sorghum, and meeting staff from the U.S. Sorghum Checkoff Program to learn more in-depth concepts about sorghum and the way it can be used.

Topics covered within the course stressed the importance of grain storage and pest control, particle size reduction, extrusion, pelleting, feed ingredient handling, and the effects of feed processing on animal nutrition.

“The Mexican sorghum trade team took advantage of the IGP Feed Manufacturing course to clear their technical questions and we addressed them in detail in relation to sorghum. Questions asked ranged from particle size reduction of sorghum to the overall effects of using sorghum in the different animal nutrition diets,” says Campabadal.

This course was sponsored by the U.S. Grains Council, Kansas Grain Sorghum Commission, and the U.S. Sorghum Checkoff Program to help promote and increase knowledge of using sorghum in animal feed products. Campabadal hopes that this will increase interest to have a future course dedicated to sorghum development.
Carlos Campabadal, IGP Institute Feed Milling and Grain Quality Management Curriculum Manager, explains maintenance and sanitation procedures during a tour of the O.H. Kruse Feed Technology and Innovation Center.
2022 IGP Institute Year in Photos
# 2022 By the Numbers

## 30 On-site Courses • 594 Participants

<table>
<thead>
<tr>
<th>On-site Courses</th>
<th>Month</th>
<th>Participants</th>
<th>Countries</th>
</tr>
</thead>
<tbody>
<tr>
<td>IGP–KSU Flour Milling for State Wheat Commissioners and Staff</td>
<td>January</td>
<td>12</td>
<td>U.S.</td>
</tr>
<tr>
<td>IGP–KSU Pet Food Formulation for Commercial Production</td>
<td>January</td>
<td>30</td>
<td>Canada, China, Indonesia, Pakistan, U.S.</td>
</tr>
<tr>
<td>IAOM–KSU Introduction to Flour Milling</td>
<td>January</td>
<td>9</td>
<td>U.S.</td>
</tr>
<tr>
<td>NGFA–KSU Food Safety Modernization Act Feed Industry Training</td>
<td>February</td>
<td>32</td>
<td>U.S.</td>
</tr>
<tr>
<td>Buhler–KSU Expert Milling</td>
<td>February</td>
<td>10</td>
<td>Canada, Indonesia, U.S.</td>
</tr>
<tr>
<td>Buhler–KSU Executive Milling (English)</td>
<td>March</td>
<td>10</td>
<td>U.S., Indonesia, Nigeria</td>
</tr>
<tr>
<td>SEC Americas Poultry Basic</td>
<td>March</td>
<td>22</td>
<td>Colombia, Costa Rica, Dominican Republic, Ecuador, El Salvador, Guatemala, Honduras, Mexico, Nicaragua, Peru, Venezuela</td>
</tr>
<tr>
<td>U.S. Wheat–IGP Core Competency Workshop</td>
<td>March</td>
<td>16</td>
<td>Morocco, Mexico, South Korea, Philippines, Chile, South Africa, Singapore, Taiwan, Netherlands, U.S.</td>
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<tr>
<td>USSEC Stepping Up with Soy –Olathe Campus</td>
<td>April</td>
<td>37</td>
<td>Guatemala, Mexico, El Salvador, Panama, Dominican Republic, Peru, Honduras, Colombia, Costa Rica, Ecuador, Venezuela</td>
</tr>
<tr>
<td>IGP–USSEC South Asia: Grain Procurement, Purchasing and Supply Chain</td>
<td>May</td>
<td>10</td>
<td>India, United Arab Emirates, Pakistan, Sri Lanka, Bangladesh, England</td>
</tr>
<tr>
<td>USSEC Feed Manufacturing and Nutrition in Aquaculture*</td>
<td>May</td>
<td>42</td>
<td>Hybrid; numbers counted for distance AND on-site</td>
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<tr>
<td>IGP–KSU Baking Basics</td>
<td>May</td>
<td>15</td>
<td>U.S.</td>
</tr>
<tr>
<td>SEC Americas Poultry Basic</td>
<td>June</td>
<td>27</td>
<td>Colombia, Costa Rica, Dominican Republic, Ecuador, El Salvador, Guatemala, Honduras, Mexico, Nicaragua, Peru, Venezuela</td>
</tr>
<tr>
<td>IGP–KSU Feed Manufacturing</td>
<td>June</td>
<td>65</td>
<td>Brazil, Saudi Arabia, U.S., Costa Rica, Ghana, Nigeria, Senegal, Cambodia, Mexico</td>
</tr>
<tr>
<td>IAOM–KSU Introduction to Flour Milling</td>
<td>July</td>
<td>18</td>
<td>Canada, U.S.</td>
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<tr>
<td>Cochran U.S. Wheat Promotion for Vietnam</td>
<td>July</td>
<td>7</td>
<td>Vietnam</td>
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<tr>
<td>Buhler–KSU Executive Milling (Spanish)</td>
<td>August</td>
<td>7</td>
<td>U.S., Chile, Colombia</td>
</tr>
<tr>
<td>Pet Food Workshop</td>
<td>August</td>
<td>26</td>
<td>Algeria, U.S., Ireland, Colombia</td>
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<tr>
<td><strong>On-site Courses</strong></td>
<td><strong>Month</strong></td>
<td><strong>Participants</strong></td>
<td><strong>Countries</strong></td>
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<tr>
<td>Extrusion Workshop</td>
<td>August</td>
<td>41</td>
<td>U.S., Ireland, India, Canada, Colombia, El Salvador, Costa Rica</td>
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<tr>
<td>NGFA–KSU Food Safety Modernization Act Feed Industry Training</td>
<td>August</td>
<td>37</td>
<td>U.S.</td>
</tr>
<tr>
<td>IAOM–KSU Flour and Dough Analysis</td>
<td>August</td>
<td>19</td>
<td>U.S., Canada, New Zealand, Japan</td>
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<tr>
<td>IAOM–KSU Basic Milling Principles</td>
<td>September</td>
<td>14</td>
<td>U.S.</td>
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<tr>
<td>IAOM–KSU Advanced Milling Principles</td>
<td>September</td>
<td>15</td>
<td>U.S., Japan, Guatemala, El Salvador</td>
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<td>U.S. Wheat–IGP Advanced Flour Milling for South Korea</td>
<td>September</td>
<td>5</td>
<td>South Korea</td>
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<td>Cochran U.S. Wheat Market - Morocco and Tunisia</td>
<td>October</td>
<td>9</td>
<td>Morocco, Tunisia</td>
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<tr>
<td>Buhler–KSU Executive Milling (English)</td>
<td>November</td>
<td>9</td>
<td>U.S., Canada, Pakistan</td>
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<tr>
<td>NGFA–KSU Food Safety Modernization Act Feed Industry Training</td>
<td>November</td>
<td>25</td>
<td>U.S.</td>
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<tr>
<td>Buhler–KSU Flowsheet Technology</td>
<td>November</td>
<td>7</td>
<td>U.S., Guatemala</td>
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<tr>
<td>Flour Milling for Wheat Commissioners and Staff</td>
<td>December</td>
<td>18</td>
<td>U.S.</td>
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## 2022 By the Numbers

### 35 Distance Courses • 648 Participants

<table>
<thead>
<tr>
<th>Distance Courses</th>
<th>Month</th>
<th>Participants</th>
<th>Countries</th>
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<tr>
<td>SEC Nigeria Poultry Basic</td>
<td>March</td>
<td>25</td>
<td>Nigeria</td>
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<tr>
<td>SEC Asia Poultry Basic</td>
<td>March–April</td>
<td>37</td>
<td>India, Indonesia, Malaysia, Myanmar, Nepal, Pakistan, Philippines, Sri Lanka, Thailand, Vietnam</td>
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<tr>
<td>SEC Nigeria Poultry Basic</td>
<td>April</td>
<td>25</td>
<td>Nigeria</td>
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<tr>
<td>IGP–USGC SEA: Grain Procurement and Purchasing</td>
<td>April</td>
<td>33</td>
<td>Australia, Bangladesh, Indonesia, Malaysia, New Zealand, Philippines, Taiwan, Vietnam</td>
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<tr>
<td>AFIA 500A: Overview of U.S. Feed Industry and History*</td>
<td>April–June</td>
<td>4</td>
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<tr>
<td>AFIA 500B: Batching, Mixing and Particle Size Reduction*</td>
<td>April–June</td>
<td>8</td>
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<tr>
<td>AFIA 500C: Pelleting Process*</td>
<td>April–June</td>
<td>4</td>
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<tr>
<td>AFIA 500D: Finished Product Packaging and Bulk Loadout*</td>
<td>April–June</td>
<td>4</td>
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<tr>
<td>AFIA 500E: Basics of Quality Assurance*</td>
<td>April–June</td>
<td>3</td>
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<tr>
<td>AFIA 500F: Boilers and Boiler Efficiency*</td>
<td>April–June</td>
<td>2</td>
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<tr>
<td>AFIA 500G: Preventive Maintenance, Sanitation and Energy Conservation*</td>
<td>April–June</td>
<td>3</td>
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<td>IGP–USGC South Asia: Grain Procurement and Purchasing</td>
<td>May</td>
<td>25</td>
<td>Bangladesh, India, Nepal, Pakistan, Sri Lanka, U.S.</td>
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<td>SEC Asia Feed Manufacturing Basic</td>
<td>May</td>
<td>64</td>
<td>India, Indonesia, Malaysia, Nepal, Philippines, Sri Lanka, Thailand, Vietnam</td>
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<tr>
<td>USSEC Feed Manufacturing and Nutrition in Aquaculture</td>
<td>June</td>
<td>42</td>
<td>See on-site course list</td>
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<tr>
<td>IGP–KSU Pet Food Formulation for Commercial Production</td>
<td>June</td>
<td>15</td>
<td>Algeria, Belgium, Canada, Ecuador, India, Malaysia, Myanmar, Philippines, U.S.</td>
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<tr>
<td>SEC Nigeria Poultry Intermediate</td>
<td>June</td>
<td>25</td>
<td>Nigeria</td>
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<tr>
<td>AFIA 500B: Batching, Mixing and Particle Size Reduction*</td>
<td>July–Sept.</td>
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<tr>
<td>AFIA 500C: Pelleting Process*</td>
<td>July–Sept.</td>
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<tr>
<td>AFIA 500D: Finished Product Packaging and Bulk Loadout*</td>
<td>July–Sept.</td>
<td>6</td>
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<td>Distance Courses</td>
<td>Month</td>
<td>Participants</td>
<td>Countries</td>
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<td>SEC Nigeria Poultry Basic</td>
<td>August</td>
<td>25</td>
<td>Nigeria</td>
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<tr>
<td>AFIA/KSU 500: Fundamentals of Feed Manufacturing</td>
<td>August</td>
<td>40</td>
<td>Brazil, South Korea, U.S.</td>
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<td>AFIA/KSU 500: Fundamentals of Feed Manufacturing (USSEC)</td>
<td>August</td>
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<td>Japan, Nigeria, Tunisia, Turkey, U.S.</td>
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<td>SEC Nigeria Poultry Basic</td>
<td>September</td>
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<td>SEC Nigeria Poultry Basic</td>
<td>October</td>
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<td>AFIA/KSU 500: Fundamentals of Feed Manufacturing</td>
<td>October</td>
<td>40</td>
<td>Guatemala, Morocco, Poland, Romania, South Africa, Turkey, U.S.</td>
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<tr>
<td>AFIA 500A: Overview of U.S. Feed Industry and History*</td>
<td>Oct.–Dec.</td>
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<td>AFIA 500B: Batching, Mixing and Particle Size Reduction*</td>
<td>Oct.–Dec.</td>
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<tr>
<td>AFIA 500C: Pelleting Process*</td>
<td>Oct.–Dec.</td>
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<tr>
<td>AFIA 500D: Finished Product Packaging and Bulk Loadout*</td>
<td>Oct.–Dec.</td>
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<td>AFIA 500E: Basics of Quality Assurance*</td>
<td>Oct.–Dec.</td>
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<td>AFIA 500F: Boilers and Boiler Efficiency*</td>
<td>Oct.–Dec.</td>
<td>3</td>
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<td>AFIA 500G: Preventive Maintenance, Sanitation and Energy Conservation*</td>
<td>Oct.–Dec.</td>
<td>4</td>
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<tr>
<td>SEC Nigeria Poultry Intermediate</td>
<td>November</td>
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<td>SEC Nigeria Feed Manufacturing Track – Train the Trainer Intermediate Level</td>
<td>December</td>
<td>6</td>
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<td>SEC Nigeria Feed Manufacturing Basic (1 of 2)</td>
<td>December</td>
<td>25</td>
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<td>SEC Nigeria Feed Manufacturing Basic (2 of 2)</td>
<td>December</td>
<td>25</td>
<td>Nigeria</td>
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</tbody>
</table>

* on-demand courses from the Global Campus Canvas Catalog
Our Facilities

IGP Institute Conference Center – our primary building for hosting course participants featuring meeting spaces, technology-enhanced classrooms, and dining facilities

Hal Ross Flour Mill – state-of-the-art pilot scale flour mill used for teaching, research, and industry training on full-scale equipment and control systems found in commercial flour mills

Bioprocessing and Industrial Value Added Products (BIVAP) Innovation Center – research facility for bioprocessing and renewable energy, biomaterials, and extrusion laboratories

O.H. Kruse Feed Technology Innovation Center – a modern feed mill used for teaching feed production, pet food development, grain handling, and featuring an embedded BSL-2 research facility
Shellenberger Hall – home of offices and classrooms for the Department of Grain Science and Industry on the Kansas State University main campus

Shellenberger Milling Laboratory – table-top milling equipment provides a hands-on understanding of the basic grinding techniques used in the flour milling process

Shellenberger Baking Laboratory – IGP course participants bake cakes, bread, and cookies with different types of flour to see the effects on the finished products

Shellenberger Milling Laboratory – small-scale milling and sifting equipment is also available for teaching and research use
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Kansas State University

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2022 IGP Institute Faculty and Staff
Course Supporters
Thank you for another great year.

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