



IGP Institute

2021 Year in Review



IGP Supporters and Partners

Supporters



Partners



Table of Contents

Director's Message	2-3
------------------------------	-----

IGP Institute Participant Map	4-5
---	-----

2021 Features

Soybean Excellence Emerges	6-7
--------------------------------------	-----

Guiding Grain Buyers	8-9
--------------------------------	-----

Focus on Safety	10-11
---------------------------	-------

Demand and Disruptions	12-13
----------------------------------	-------

Teaching with Technology	14-15
------------------------------------	-------

2021 IGP Institute Year in Photos	16-19
---	-------

2021 By the Numbers	20-23
-------------------------------	-------

Our Facilities	24-25
--------------------------	-------

Faculty and Staff Directory	26-27
---------------------------------------	-------

Course Supporters	28
-----------------------------	----



Director's Message



Gordon Smith
Director

This year has proven to be almost as interesting as 2020, as it was chock-full of challenges, change, and resilience. As the year draws to an end, it is full of promise and potential as the Kansas Board of Regents just announced Dr. Richard Linton, a fellow

food scientist, and current Dean of the College of Agriculture and Life Sciences at North Carolina State University, as the 15th President of Kansas State University.

After more than a year of being unable to offer on-site courses at IGP, we hosted nine courses in Manhattan this year. Student and sponsor interest in returning to campus is strong but still impacted by COVID, especially the emerging new variants.

Our distance learning initiatives have continued to evolve from their pre-pandemic format of simply watching pre-recorded videos. In some courses, live online lectures are followed by breakout sessions where participants address real situational problems. In other courses, students work through written materials

on their own before joining live video conversations to engage with others and offer different perspectives on ideas and concepts from the readings. We remain committed to finding innovative ways to provide relevant and impactful training and outreach opportunities.

In partnership with a national commodity group, we have developed and executed a model for courses focused on business management. This effort is targeted to the next generation of agricultural business leaders. The curriculum is designed to cultivate expertise in concepts and processes ranging from strategic thinking and business plan development to procurement, sourcing, and contracts.

Finally, the IGP Institute, under Carlos Campabadal, Feed Manufacturing and Grain Quality Management Curriculum Manager, was selected as the center lead for the Soy Excellence Center of the Americas. The selection is a testament to the consortium's efforts to feature the best-in-class technical instructors who are recognized in their respective fields not only in the region but around the world. In this center lead role, we will collaborate with

the USSEC and other university partners to meet the program vision of "improving the health and nutrition of local communities in budding markets by building capacity and market potential of businesses in the food and agricultural supply chain through professional development training and course curriculum."

On behalf of all of us at the IGP Institute, we thank you for your support of our educational training and outreach. Additionally, I would be remiss if I did not thank our outgoing President, Dr. Richard Myers for his service to our country and Kansas State University. He has been a friend and staunch supporter of the Department of Grain Science and Industry.

We look forward to seeing you in person again and collaborating in the future.

Sincerely,

Gordon Smith
IGP Institute Director
Professor and Head,
Department of Grain Science and Industry



The IGP Institute and the department host many visitors during a typical year, but a highlight in 2021 was a visit by United States Senator, Jerry Moran of Kansas, who toured the Hal Ross Flour Mill in September. Pictured from left to right are Ernie Minton, Dean of the College of Agriculture, Gordon Smith, IGP Institute Director and Grain Science and Industry Department Head, Senator Moran, Paul Blodgett, Hal Ross mill manager, and Jason Watt, Buhler Instructor of Milling.

IGP Institute Mission

*To provide
technical,
research-
based training
benefiting
industry
professionals
globally and
enhancing
the market
preference
for U.S. grains
and oilseeds.*

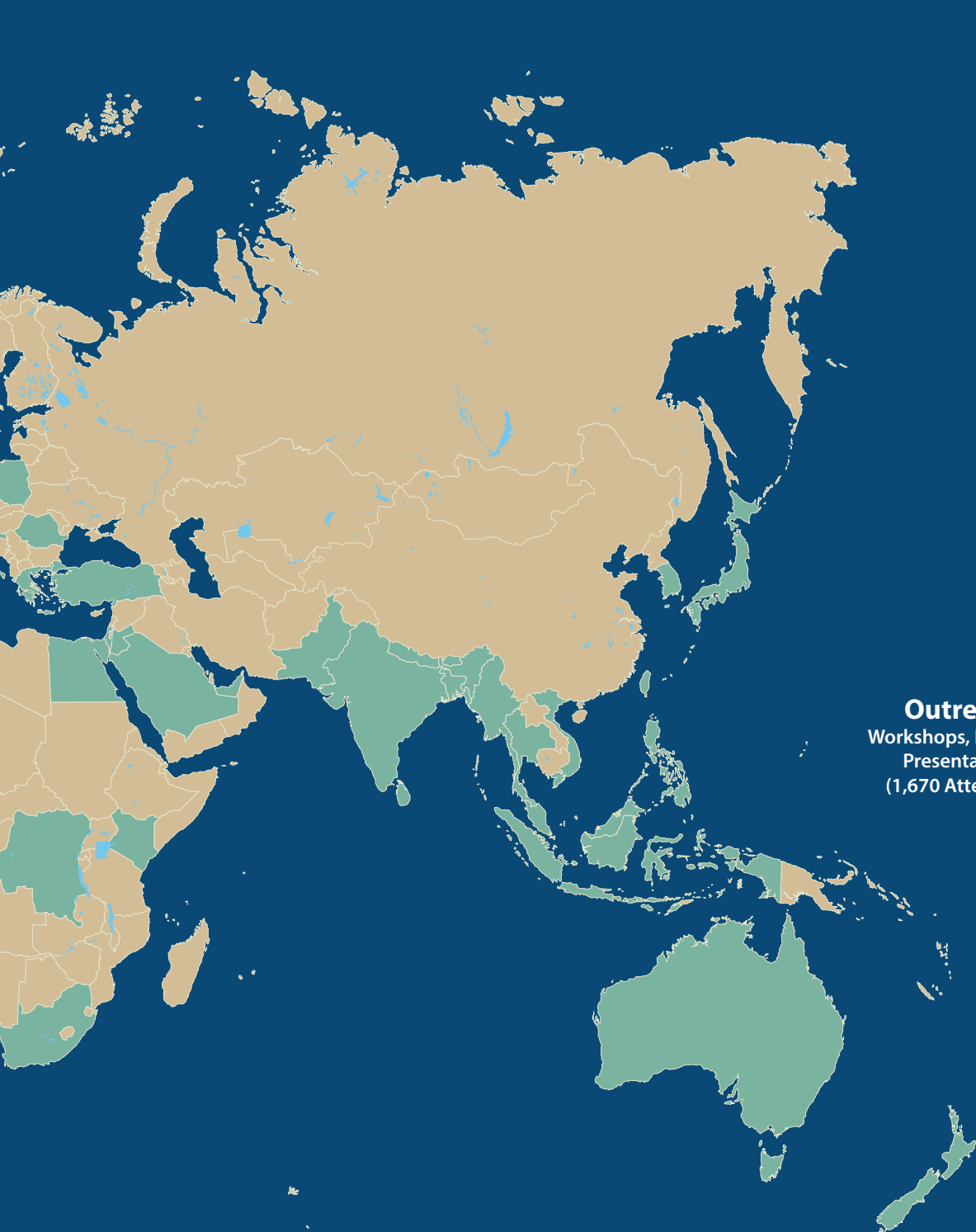
2021

1,401 Participants

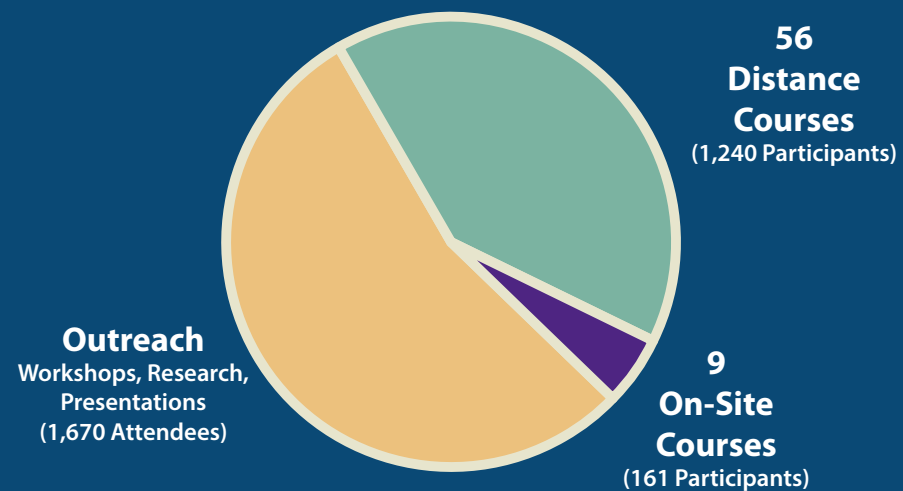
59 Countries

Algeria	Italy	South Korea
Australia	Jamaica	Spain
Bangladesh	Japan	Sri Lanka
Belgium	Jordan	Switzerland
Bhutan	Kenya	Taiwan
Brazil	Malaysia	Thailand
Canada	Mexico	Tunisia
Chile	Morocco	Turkey
Colombia	Myanmar	United Arab Emirates
Costa Rica	Nepal	United States
Croatia	New Zealand	Uruguay
Dominican Republic	Nicaragua	Venezuela
Ecuador	Nigeria	Vietnam
Egypt	Pakistan	
El Salvador	Panama	
Germany	Peru	
Greece	Philippines	
Guatemala	Poland	
Honduras	Romania	
India	Saudi Arabia	
Indonesia	Senegal	
Ireland	Singapore	
Israel	South Africa	





Total Participants





Soybean Excellence Emerges

New project with USSEC and academic partners benefits Latin American professionals.

The IGP Institute mission states our goal is “to provide technical, research-based training benefiting industry professionals globally and enhancing the market preference for U.S. grains and oilseeds.” Another key step to enhance our outreach and reputation was recently completed as the United States Soybean Export Council (USSEC) named IGP as the Center Lead of the Soybean Excellence for the Americas region.

USSEC has created Soybean Excellence Centers in multiple locations around the world to help train industry professionals on topics related to animal production and nutrition, and feed manufacturing with an in-depth curriculum and academic perspective which differs from their traditional training courses. USSEC will provide the main funding.

The IGP Institute has created a consortium with Auburn University and Zamorano University in Honduras to meet the goals of the new center. IGP will lead and manage the overall efforts while creating and teaching the technical curriculum based on the

needs of the animal production and feed manufacturing industry. Auburn University will assist with technical teaching, and Zamorano University will serve as the on-site host and assist with teaching and marketing the training courses regionally. The Martinez Media Group will oversee marketing for the project.

In 2021, the Poultry Track Basic Level courses were held virtually due to the pandemic. The course was offered as two separate sessions with a total of 70 participants. For 2022 the courses are planned to be held on-site at Zamorano University assuming international travel does not incur additional restrictions related to the pandemic. Course topics are set for poultry nutrition, feed manufacturing, aquaculture, and there may potentially be a swine nutrition track offered.

Carlos Campabadal, IGP Institute Feed Manufacturing and Grain Quality Management Curriculum Manager, will lead the project from the Kansas State University campus. “Being selected as

the lead center for this project results from our successful previous training opportunities and partnership with USSEC. The Soybean Excellence Center will allow IGP and our academic partners to provide educational opportunities to industry professionals in Latin America while promoting the preference for U.S. and Kansas soy products to this expanding export market,” says Campabadal.

The future for the center is bright. Throughout 2022 and beyond, additional courses will be developed to expand on the current curriculum by offering intermediate and advanced level classes for all of the poultry, feed manufacturing, aquaculture, and swine tracks available to participants.





Carlos Campabadal, IGP Institute Feed Manufacturing and Grain Quality Management Curriculum Manager (top) participates in the live virtual meeting to introduce team members from the Soybean Excellence Center partnership.



Guiding Grain Buyers

Rising global demand for U.S. grains provides expanded audiences for IGP courses.

The world is a hungry place, and the U.S. grain export market is the primary supplier of raw grains and oilseeds that many countries rely on as a source of human and animal nutrition. The U.S. continues to set new annual records in exports of corn, DDGS, grain sorghum, soybeans, and soybean oil as the global demand increases.

In 2021, the IGP Institute partnered with the United States Grains Council (USGC) and the United States Soybean Export Council (USSEC) to provide additional courses to educate international buyers on grain buying and risk management strategies. The IGP-KSU Grain Procurement and Purchasing series led by Guy Allen, agricultural economist and grain marketing and risk management curriculum manager, offered participants an in-depth look at the U.S. grain marketing supply chain while teaching buying and risk management strategies to foster greater confidence and effectiveness in the workplace.

More than 200 participants from 36 countries took part in the virtual attendance courses. Materials were

offered online through the Canvas learning management system provided by Kansas State University's Global Campus. Participants and course contributors met on a scheduled basis using Zoom to review materials and discuss current topics. The courses covered the U.S. grain production and export system, shipping



methods including containers and bulk vessels, and USDA grain grading standards to educate foreign buyers about the high quality and safety standards of U.S. grains.

In addition, the courses provided insight into creating contracts guaranteeing that buyers receive the correct products. This section focused on understanding and writing various contracts covering NAEGA, FOSFA, and GAFTA regulations, as well as important aspects of the arbitration

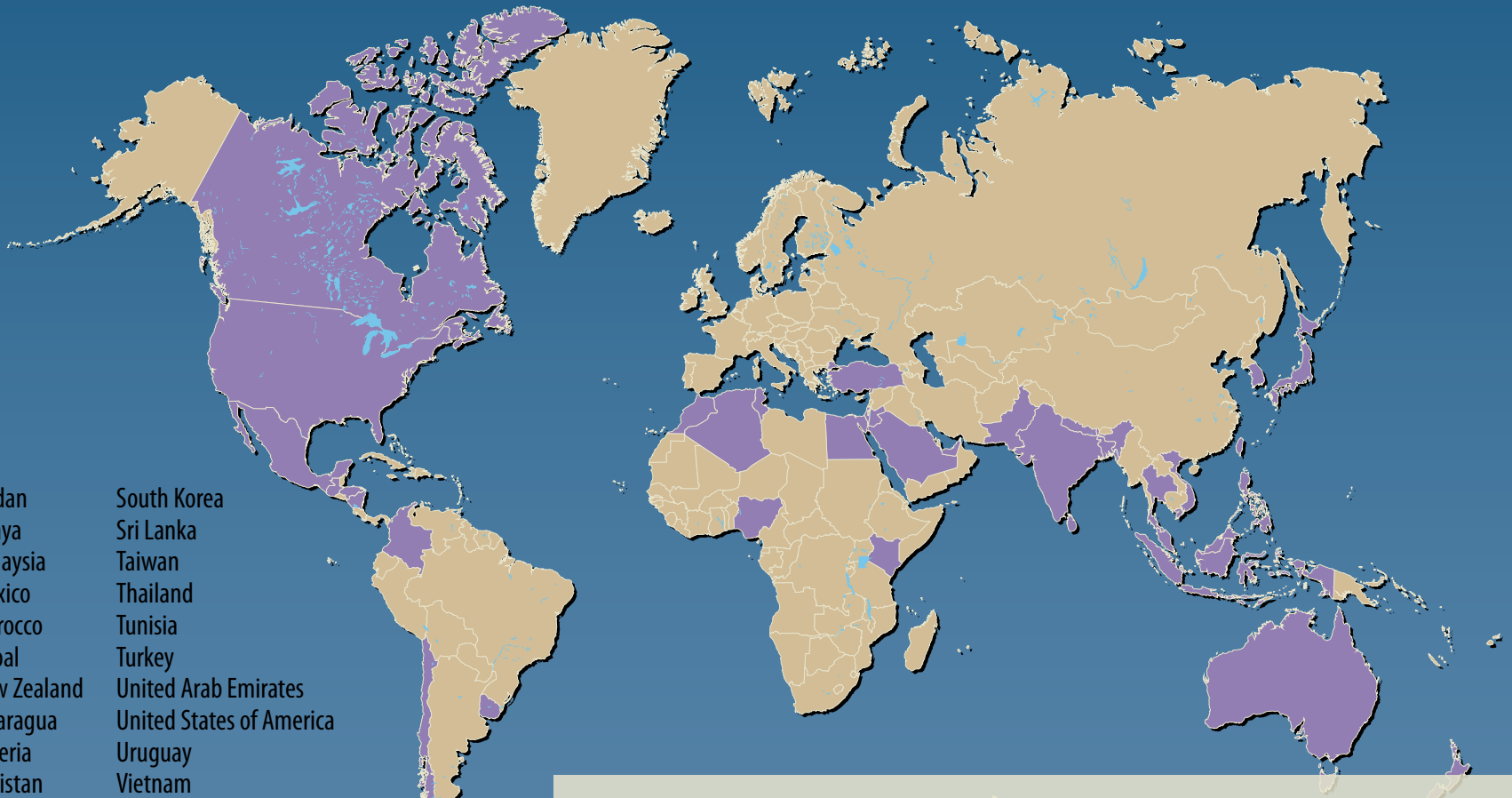
process used to resolve disagreements between exporters and buyers.

Finally, the course included a section focused on technical analysis of the markets with an overview of CME Group futures, derivatives, and OTC markets. Additional information was discussed regarding USDA reports, basis trading and hedging, fundamental analysis, and ended with a market overview and outlook session based on current trends.

Allen said the overall goal of the procurement and purchasing courses is to provide participants with a better understanding of current market and supply chain issues while learning important buying and risk management skills. This is a key part of the IGP mission to provide technical, research-based training benefiting industry professionals globally and enhancing the market preference for U.S. grains and oilseeds.

IGP–KSU Grain Procurement and Purchasing

March – June 2021



Algeria	Jordan	South Korea
Australia	Kenya	Sri Lanka
Bangladesh	Malaysia	Taiwan
Canada	Mexico	Thailand
Chile	Morocco	Tunisia
Colombia	Nepal	Turkey
Egypt	New Zealand	United Arab Emirates
Guatemala	Nicaragua	United States of America
Honduras	Nigeria	Uruguay
India	Pakistan	Vietnam
Indonesia	Philippines	
Israel	Saudi Arabia	
Japan	Singapore	

Guy Allen, IGP Agricultural Economist and Grain Marketing and Risk Management Curriculum Manager, held five virtual grain procurement and purchasing courses that educated 207 participants from 36 countries about the process of buying grain.



Focus on Safety

The IGP Institute and WISHH provide mill safety training for developing countries.

Regional feed mills provide animal nutrition resources for developing countries, and in turn, the animals nourished by the feed contribute to the sustainable food supply for humans. The feed mills are a key element in feeding the local population, so safe operation and quality feed products are critical for success.

The IGP Institute has partnered with the World Initiative for Soy in Human Health (WISHH) through funding from the Kansas Soybean Commission to provide training in making safe animal feed in developing countries. The resulting course was developed for WISHH as a webinar to focus on the prevention of feed contamination from pathogens in feed mills in Southeast Asia and Africa. The course used a virtual setting featuring short videos recorded at the O.H. Kruse Feed Technology and Innovation Center on the K-State campus for demonstration purposes. Students could also join one of two live question and answer sessions offered at two different times to address the different time zones of the audience.

The goal of the course was to educate participants about the potential risks involved in feed mills. This covered the physical, biological, and chemical factors that can enter the feed mill through feed ingredients, pests, supplements, workers, trucks, and other means to contaminate the final feed product. The short videos identified potential risks and provided instructions on how to avoid contamination and create a safer workplace.

Carlos Campabadal, IGP Institute Feed Manufacturing and Grain Quality Management Curriculum Manager, was pleased with the course and thought it provided important information on the topics and practices used in modern feed manufacturing. He said the videos focused on training to prevent and mitigate the presence of contaminants in the feed while placing an emphasis on worker safety including, electrical and mechanical lockout/tagout, belts and conveyors, and personal safety gear (PPE). Specific equipment and areas of the mill including the control room, dump pit,

and visitor entrance areas were explained in detail. Grain sampling and cleaning methods were shown along with an overview of micro-ingredients and the feed batching system. The course also stressed the importance of sanitation throughout the mill as the first and most important step to reduce the chance of contamination.

Overall, 14 participants from countries in Southeast Asia and Africa took part directly in the course. In addition, the presentation was streamed to a larger audience through YouTube and Facebook Live. WISHH also shared the presentation with their in-country partners and will use it with potential clients in the future.





Carlos Campabadal, IGP Institute Feed Manufacturing and Grain Quality Management Curriculum Manager, leads a recorded safety demonstration on the steam pelleting equipment used to create animal feed in the O.H. Kruse Feed Technology and Innovation Center.



Demand and Disruptions

Worldwide supply chain issues create challenges for U.S. wheat exports.

International trade has experienced massive supply chain disruptions and high demand throughout the past two years. Orders of many goods including grain are delayed by shortages of available vessels and containers in the shipping industry and further impacted by long delays waiting in line to unload at port facilities.

To help educate buyers of U.S. wheat about the potential delays and educate them regarding the current challenges and issues, the IGP Institute partnered with U.S. Wheat Associates to present the Export Supply Chain Issues and Challenges Series. These presentations were presented to more than 30 U.S. Wheat regional office employees from locations around the world including Africa, the Dominican Republic, Panama, and Venezuela.

IGP Institute agricultural economist, Guy Allen, said the course was developed to provide a better understanding of current market and supply chain issues facing importers of U.S. wheat. The presentations took a closer look at how the issues were affecting key trading partners.

Topics covered in detail included an examination of the U.S. grain supply chain from on-farm production through transportation and export. Additional



coverage of USDA grain grading standards and how they are implemented led to a focused discussion of contract negotiation and the key elements to consider when writing NAEGA, FOSFA, and GAFTA contracts to ensure that clients receive the desired products.

The presentations concluded with an in-depth look at the OTC markets specifically related to wheat futures and how supply issues affect pricing. Hedging and risk management strategies were discussed concerning basis contract decisions along with investment tools and methods to improve profitability.

Allen stated, “Strategically targeted ‘in-house’ presentations to individual companies ... can be very effective. They facilitate open and frank discussion on core business activities, strategic procurement, purchasing, and marketing issues that a company would not like to discuss in a public forum. They are also strategically conducive to engaging a cross-section of key business decision-makers in the discussion including procurement and sales managers, business unit managers, quality, safety, and operational personnel, as well as CEOs, CFOs, COOs, and general managers.”





A grain vessel loads wheat at Cargill's Port of Houston export facility. Worldwide disruptions in the supply chain in 2021 due to the pandemic have led to high demand and longer wait times at port facilities around the globe.



Teaching with Technology

Technology options lead to integrating 3D and immersive education.

The worldwide pandemic travel restrictions have stayed in place throughout 2021, so the IGP Institute has continued to provide distance education and virtual attendance courses to educate domestic and international participants. IGP course managers and staff have worked closely with external partners including USSEC, USGC, WISHH, AFIA, JBS Live Pork, and commercial pet food contributors to hold training activities online.

Instructors and staff have expanded their familiarity with the technology used to present information and gather statistical information behind the scenes. Data indicates ten percent of views were iPhones and other mobile devices. Desktop views were driven primarily by PC users. This information is valuable as we plan production and support for various operating systems.

Distance education team members contributing to the course vary from three to five depending on the services selected by course managers and partnering organizations. The team establishes and maintains courses within the Canvas Learning Management System offered

by Kansas State University's Global Campus, schedules Zoom meetings, manages documents and file sharing through Dropbox, monitors interpreters using Zoom's interpretation mode, and collects Qualtrics surveys to analyze participant feedback. One of the larger courses included a team of 18 contributors responsible for content development and Zoom meeting production, registration and certificate management, dual language support, and financial accounting.

The IGP team is grateful for the available technology which continues to allow the sharing of expertise with participants around the globe. We wrap up 2021 with confidence in our technology plus pride as we offered education to 1,240 participants across 59 countries. The distance education team continues to build upon the current technology foundation as we work to implement 3D images and immersive experiences.

Trina Adams, IGP Distance Education Manager, commented, "IGP's success in moving multiple courses into online formats in 2020 and 2021 has led to adding a new technology option to our

services. A Matterport Pro2 3D Camera is now available for scanning the interior of facilities. This technology produces a 3D model of the facility which allows for a virtual walk-through of the facility with enhanced details available to the participants. The Hal Ross Flour Mill and the Bakery Science Lab in Shellenberger Hall have each been scanned to produce a 3D model. One of the primary advantages of integrating 3D models is offering a safe environment for participants to investigate facilities. Secondly, previewing the 3D model leads to higher-order thinking when experiencing the physical facility. Lastly, the 3D model allows for the physical asset to be used more strategically. For example, an introductory activity can be completed using the 3D model. This leads to more efficient use of time when working within the physical facility. Using the time and equipment of the physical facility more efficiently leads to improved balance of course activity, live production runs, and research. The 3D models contribute to improved safety, more intense thinking, and potential cost savings."





The Matterport Pro2 3D Camera has been used to digitally map the Hal Ross Flour Mill and create a 3D model of the facility. Course participants can virtually tour the mill and explore individual pieces of milling equipment to learn specifics about how the mill operates.



2021 IGP Institute Year in Photos

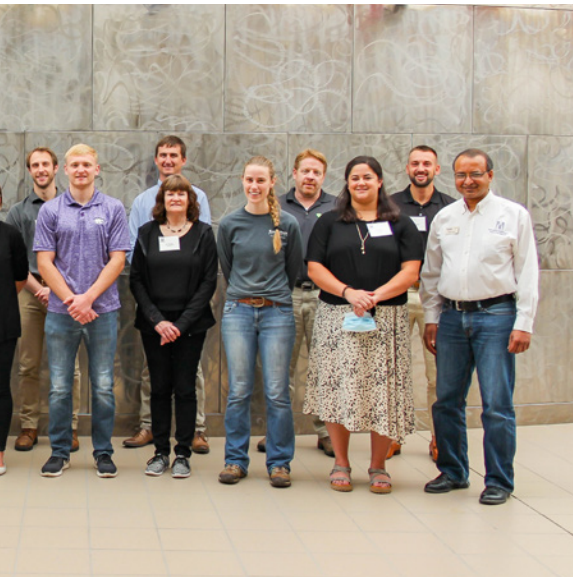






2021 IGP Institute Year in Photos







2021 By the Numbers

9 On-site Courses • 161 Participants | 56 Distance Courses • 1,240 Participants

On-site Courses	Month	Participants	Countries
IAOM–KSU Introduction to Flour Milling	January	9	U.S.
IGP–KSU Grain Elevator Managers	May	20	U.S.
IGP–KSU Pet Food Workshop	August	11	U.S.
IGP–KSU Extrusion Processing: Technology and Commercialization	August	16	Peru, U.S.
IAOM–KSU Flour and Dough Analysis	August	11	Germany, Nigeria, U.S.
IAOM–KSU Introduction to Flour Milling	August	10	U.S.
NGFA–KSU Food Safety Modernization Act Training for the Feed Industry	August	38	U.S.
IAOM–KSU Advanced Milling Principles	September	8	U.S.
NGFA–KSU Food Safety Modernization Act Training for the Feed Industry	November	38	U.S.
Distance Courses	Month	Participants	Countries
IGP–KSU Pet Food Formulation for Commercial Production	January	31	Australia, Canada, Ecuador, Germany, Spain, Thailand, U.S.
AFIA/KSU 500: Fundamentals of Feed Manufacturing	February	35	Brazil, Canada, Ireland, Malaysia, U.S.
SEC Nigeria Poultry Track (Basic Level)	February	30	Nigeria
AFIA/KSU 500: Fundamentals of Feed Manufacturing	March	40	U.S.
IGP–USSEC Singapore: Grain Procurement and Purchasing	March	49	Indonesia, Malaysia, Philippines, Singapore, Thailand, Vietnam
Fundamentals of Commercial Pet Food Production for Veterinary Clinical Nutritionists	March	21	Belgium, Canada, Croatia, Germany, Greece, Italy, Switzerland, U.S.
IGP–USGC MENA: Grain Procurement and Purchasing	March	21	Algeria, Egypt, Israel, Jordan, Kenya, Morocco, Nigeria, Saudi Arabia, Tunisia, Turkey, United Arab Emirates
AFIA 500A: Overview of U.S. Feed Industry and History*	Jan.–March	2	N/A
AFIA 500B: Batching, Mixing and Particle Size Reduction*	Jan.–March	3	N/A
AFIA 500C: Pelleting Process*	Jan.–March	2	N/A

Distance Courses	Month	Participants	Countries
AFIA 500D: Finished Product Packaging and Bulk Loadout*	Jan.–March	2	N/A
AFIA 500E: Basics of Quality Assurance*	Jan.–March	4	N/A
AFIA 500F: Boilers and Boiler Efficiency*	Jan.–March	2	N/A
AFIA 500G: Preventive Maintenance, Sanitation and Energy Conservation*	Jan.–March	2	N/A
IGP–KSU Grain Procurement and Purchasing	April	55	Canada, Chile, Colombia, Guatemala, Honduras, Indonesia, Japan, Nicaragua, Singapore, South Korea, Taiwan, U.S., Uruguay
USSEC Aquaculture Feed Manufacturing and Nutrition	April	32	Colombia, Ecuador, Guatemala, Honduras, Mexico, Nicaragua, Panama, Peru, Venezuela
SEC Nigeria Poultry Track (Basic Level)	April	30	Nigeria
IGP–USGC SEA: Grain Procurement and Purchasing	April	33	Australia, Bangladesh, Indonesia, Malaysia, New Zealand, Philippines, Taiwan, Vietnam
IGP–USGC South Asia: Grain Procurement and Purchasing	May	25	Bangladesh, India, Nepal, Pakistan, Sri Lanka, U.S.
USSEC 360 Degree View Animal Nutrition	May	77	Brazil, Chile, Colombia, Costa Rica, Dominican Republic, Ecuador, El Salvador, Guatemala, Honduras, Jamaica, Mexico, Nicaragua, Panama, Peru, U.S., Venezuela
SEC Nigeria Poultry Track (Intermediate Level)	May	14	Nigeria
USSEC Feed Manufacturing and Nutrition in Aquaculture	June	48	N/A
IGP–KSU Pet Food Formulation for Commercial Production	June	15	Algeria, Belgium, Canada, Ecuador, India, Malaysia, Myanmar, Philippines, U.S.
WISHH Feed Safety Webinar for African and Asia	June	14	N/A
AFIA 500A: Overview of U.S. Feed Industry and History*	April–June	4	N/A
AFIA 500B: Batching, Mixing and Particle Size Reduction*	April–June	8	N/A
AFIA 500C: Pelleting Process*	April–June	4	N/A
AFIA 500D: Finished Product Packaging and Bulk Loadout*	April–June	4	N/A



2021 By the Numbers

Distance Courses Continued

Distance Courses	Month	Participants	Countries
AFIA 500E: Basics of Quality Assurance*	April–June	3	N/A
AFIA 500F: Boilers and Boiler Efficiency*	April–June	2	N/A
AFIA 500G: Preventive Maintenance, Sanitation and Energy Conservation*	April–June	3	N/A
USSEC Practical and Strategic Education for the Next Generation of Ag Business Leaders (Colombia)	July	40	Colombia
USSEC Practical and Strategic Education for the Next Generation of Ag Business Leaders (Latin America)	July	22	El Salvador, Honduras, Nicaragua, Venezuela
SEC Southeast Asia Poultry Track (Basic Level)	July	51	Bangladesh, India, Indonesia, Malaysia, Myanmar, Pakistan, Philippines, Singapore, Sri Lanka, Thailand, Vietnam
AFIA/KSU 500: Fundamentals of Feed Manufacturing	August	40	Brazil, South Korea, U.S.
AFIA/KSU 500: Fundamentals of Feed Manufacturing (USSEC)	August	40	Japan, Nigeria, Tunisia, Turkey, U.S.
SEC Americas Poultry Track (Basic Level)	August	38	Colombia, Costa Rica, Dominican Republic, Ecuador, El Salvador, Guatemala, Honduras, Mexico, Nicaragua, Peru, Venezuela
SEC Nigeria Poultry Track (Basic Level)	August	25	Nigeria
SEC Americas Poultry Track (Basic Level)	September	53	Colombia, Costa Rica, Dominican Republic, Ecuador, El Salvador, Guatemala, Honduras, Mexico, Nicaragua, Peru, Venezuela
USSEC Soybean Oil Meal Production and Usage Workshop for South Asia	September	96	Bangladesh, Bhutan, India, Nepal, Pakistan, Sri Lanka
AFIA 500B: Batching, Mixing and Particle Size Reduction*	July–Sept.	6	N/A
AFIA 500C: Pelleting Process*	July–Sept.	7	N/A
AFIA 500D: Finished Product Packaging and Bulk Loadout*	July–Sept.	6	N/A
AFIA/KSU 500: Fundamentals of Feed Manufacturing	October	40	Guatemala, Morocco, Poland, Romania, South Africa, Turkey, U.S.
AFIA/KSU 500: Fundamentals of Feed Manufacturing (USSEC)	October	41	Bangladesh, India, Nepal, Pakistan, Poland, Senegal, Sri Lanka, U.S.
SEC Nigeria Poultry Track (Basic Level)	October	25	Nigeria
SEC Nigeria Poultry Track (Intermediate Level)	November	25	Nigeria, United Arab Emirates
SEC Nigeria Feed Manufacturing Track Train the Trainer (Basic Level)	December	6	Nigeria, U.S.



2021 By the Numbers

Distance Courses Continued

Distance Courses	Month	Participants	Countries
AFIA 500A: Overview of U.S. Feed Industry and History*	Oct.–Dec.	4	N/A
AFIA 500B: Batching, Mixing and Particle Size Reduction*	Oct.–Dec.	4	N/A
AFIA 500C: Pelleting Process*	Oct.–Dec.	8	N/A
AFIA 500D: Finished Product Packaging and Bulk Loadout*	Oct.–Dec.	6	N/A
AFIA 500E: Basics of Quality Assurance*	Oct.–Dec.	5	N/A
AFIA 500F: Boilers and Boiler Efficiency*	Oct.–Dec.	3	N/A
AFIA 500G: Preventive Maintenance, Sanitation and Energy Conservation*	Oct.–Dec.	4	N/A
JBS Fundamentals of Feed Manufacturing	Sept.–Dec.	30	U.S.

*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



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



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



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



Shellenberger Milling Laboratory – small-scale milling and sifting equipment are used to explain the milling process before course participants work in the commercial Hal Ross Flour Mill



Faculty and Staff Directory

Core Staff



Trina Adams

Distance Education Manager
trinaadams@ksu.edu



Pat Hackenberg

Educational Media Coordinator
phack@ksu.edu



Gordon Smith

IGP Institute Director, Grain Science
and Industry Department Head
glsmith@ksu.edu



Guy H. Allen

Grain Marketing and Risk Management
Curriculum Manager, Agricultural
Economist
guyhallen@ksu.edu



Cassidy Haines

Distance Education Coordinator
cassidya@ksu.edu



Shawn Thiele

Flour Milling and Grain Processing
Curriculum Manager, Associate Director
smt9999@ksu.edu



Carlos A. Campabadal

Feed Manufacturing and Grain Quality
Management Curriculum Manager,
Spanish Outreach Coordinator
campa@ksu.edu



Lisa Markley

Events Coordinator
llong@ksu.edu



Naaz Yasmin

Business Services Coordinator
naaz@ksu.edu

Contributing Faculty

Grain Science and Industry

Sajid Alavi

Grain Science and Industry
Kansas State University

Greg Aldrich

Grain Science and Industry
Kansas State University

Paul Blodgett

Grain Science and Industry
Kansas State University

Fran Churchill

Grain Science and Industry
Kansas State University

Aaron Clanton

Grain Science and Industry
Kansas State University

Chad Paulk

Grain Science and Industry
Kansas State University

Kaliramesh Siliveru

Grain Science and Industry
Kansas State University

Jason Watt

Grain Science and Industry
Kansas State University

Other Faculty

Vincent Amanor-Boadu

Agricultural Economics
Kansas State University

Art Barnaby

Agricultural Economics
Kansas State University

Allen Featherstone

Agricultural Economics
Kansas State University

Bob Goodband

Animal Sciences and Industry
Kansas State University

Keith Harris

Agricultural Economics
Kansas State University

Mary Knapp

Agronomy
Kansas State University

Brian Lindshield

Food, Nutrition, Dietetics and Health
Kansas State University

Romulo Lollato

Agronomy
Kansas State University

Dan O'Brien

Agricultural Economics
Kansas State University

Tom Phillips

Entomology
Kansas State University

Harold Trick

Plant Pathology
Kansas State University

2021 IGP Institute Faculty and Staff





Course Supporters

Thank you for another great year.

<p>A.P.C. ACI Godrej Agrovet Private Limited ACN, Inc. ADM Animal Nutrition ADM Milling AFABA - Asociación Ecuatoriana de Alimentos Balanceados Aftab Bahumukhi Farms Ltd. AG Agro Industries Ltd Agfinity Inc. - Feed and Grain AGP Grain Marketing, LLC Agricola Colombiana S.A. Agrifeed, S.A.S. Agripac S.A. AGRITA Agro Resources Worldwide Sdn. Bhd. Agro Solution Agropecuaria El Guasimo SAS Agropecuaria El Llanito SAS Agrosania, S.A. de C.V. Agthia Group PJSC AIT Feed Ajinomoto Health & Nutrition North America, Inc. ALBACA ALBATEQ SA ALEN+PRO Alianza Avicola Del Valle SAS Alimentación Balanceada Alibal, C.A Alimentos Concentrados Raza Ltda Alimentos Finca SAS Alimentos MOR Alimentos Polar Colombia Alimentos, S.A. Alipac Alma Cooperative Oil Assn ALPESUR (Grupo Porres) Alphia Aman Feed Limited Anagro Consult Ltd. ANDI - Camara de Alimentos para Animales Animal Care Services Konsult Limited Anitox Corporation Anmol Feed Industry Pvt Ltd Anova Feed JSC Ardent Mills</p>	<p>ARECA, Vitali Aimentos Arena Agro Andalan ASPE ASPORC Atyab Foodtech LLC (Oman Flour Mills) Aves Emaus Aviagen India Poultry Breeding Company (P) Ltd AVIASA Avicampo SPR de RL de CV. Avícola Campestre SA de CV. Avícola del Sur Avicola El Cortijo Avicola La Barranca S.A. Avicola Rio Amarillo Avicola Salvadorena, S.A. DE C.V. AVICONSA Avidesa Mac Pollo S.A. Avimol S.A.S AVINSA S.A DE C.V Ayamas Intergrated Poultry Industry Sdn Bhd Aynes Gida sanayi ve Tic. A.Ş B.Foods Product International ,Ltd. Bairaha Farms PLC Balanceados Lamar Balchem Corporation Bangkok Produce Merchandising Public Co., Ltd. Barchemy Barilla BarkBox Bartlett Co-op BASF Beachner Grain, Inc. Because Its Better Inc. BENEO Bil Yem Gida San.Tic.LtdŞti Bio Farm SG Co. Ltd Bioalimentar BIO-CAT Biomar Bluebonnet Feeds BluePearl VSH Carolinas Boston Treat House Bounty</p>	<p>BRF BANVIT BUCHI Corporation Buhler Inc. C.P. YEM Caledonia Farmers Elevator California Pellet Mill Cameronera del Lago - CAMALAGO CAMPI ALIMENTOS Canature Processing Candi Farm Canidae Petfood Cargill (South Korea) Cargill Animal Nutrition Cargill Feed & Nutrition Cargill Pakistan Agri Food Pvt. Ltd Cargill Taiwan Corp. Cargill, Inc. Carval Dominicana CEFETRA Polska Spzoo Central Valley Ag Central Garden & Pet Ceylon Grain Elevators PLC (Prima) CGB Enterprise Charoen Pokphand Group Co., Ltd. Chasing Our Tails Inc. Chelsea Milling Company Chemuniqé (Pty) Ltd Chhuya Agro Products Ltd. CHI Farms Ltd. CIC Feeds (Pvt) Ltd Cintazul Cipa S.A. CJ Feed & Care CMI Alimentos COMAYMA ConAgra Foods Concentrados Raza S.A. Consorcio Oleaginoso Portuguesa, S.A. (COPOSA) Contegral S.A. Corbion Cornell University Cortez Milling Co Inc Costa Atlantica Countryside Feed LLC Crystal Valley Cooperative</p>	<p>D1 Resources, Inc. Dabaco Group Daehan Feed Co., Ltd. Daejoo Inc. Dalma Mangimi SpA De Heus Animal Nutrition Delmo Breeders Pvt. Ltd Department of Animal Nutrition Dept. of Agriculture, Babcock University Dept. of Animal Production & Health Dept. of Veterinary Science, University of Turin Devenish Nutrition Diagro S.A. Dindings Poultry Development Centre Sdn Bhd Dirección General de Ganadería Don Pollo Dr Siani Nutrizione Veterinaria DSM Nutritional Products Ltd. EASY HOLDINGS Co., Ltd. EcuaPork S.A. EL BARAKA NUTRICAP Elanco Poland Spzoo Electro-sensors Inc. Elmira Pet Products Equalivet Incorporated Er Yem Gida Tarm Ürünleri Sanayi ve Ticaret A.Ş Essentia Protein Solutions Eurofish Ever Extruder Evonik Brasil Ltda. Exportadores de Carne de Chile (Chilecarne) Fabrica de Alimentos concentrados MEZA S. DE R.L Farmers Coop Farmers Co-op Society Farmers Cooperative Association Farmisco FEDEACUA Federal College of Veterinary Technology, National Veterinary Research Institute Feed Strategy - WATT Global Media Feedco Co. FENAVI</p>	<p>Ferma Kuzniar FFM Berhad FKS Multi Agro Fleming Feed and Grain Flint Hills Resources Flora Biochem Pvt Ltd. Flour Mills of Nigeria Plc Fola Afe Agrovet Services Foodchina Company Formosa Oilseed Processing Company Forrajes y Granos Agropecuarios de Yucatán, S.A. de C.V. FOSS North America FORTUNE AGRO INDUSTRIES PVT LTD Foster Farms Freie Universität Berlin, Institute of Animal Nutrition Fsqr consultores Gavilon GELITA AG Gemelli Scientific General Milling Corporation General Mills George's Inc. Gerente de Produccion Ghent University Global Agro Milling Corporation Global Storage & Animal Feed Co. 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Indus Valley Chakki Atta Industrias Avicolas Integradas INOLASA Inprosa Insta-Pro International Instinct Pet Food Institut für Tierernährung Zürich Integrated Proteins Inteqc Feed Co., Ltd. Inversiones Agropecuarias las Carolinas S.A.de C.V. Inversiones Avicolas, C.A Islamabad Farms & Feeds ITALCOL S.A. ITOCHU FEED MILLS CO., LTD. JA HIGASHI NIHON FEED MILLS Jacobs Corporation Jamaica Broilers Group Ltd.</p>
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JAPFA Comfeed Indonesia
K&N's Feed Mill
Kansas Department of Agriculture
Kansas State University
Kansas Wheat Innovation Center
Kanza Cooperative
Kazi Farms Group
Kent Nutrition Group
KHAI ANH BINH THUAN JSC
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Kreamer Feed, Inc.
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Leong Hup (Malaysia) Sdn Bhd
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Lincoln Premium Poultry
Livestock Feeds Plc
Livingston Enterprises
Lockton Companies
Lortscher
Los Teques S.A. de C.V.
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Lotus Pet Foods
Lucky Feed Ltd
Malayan Flour Mills Bhd
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Mennel Milling Company
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Niswin Foods Pvt Limited
Nonghyup Feed, Inc.
Northside Elevator
Nourish Agro Ltd
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Office of Agricultural Affairs (FAS)
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Okeene Milling Company
Om Chao Biro Feed Industries Pvt Ltd
ONAB NUTRITION
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Ontario Veterinary College, University of Guelph
Organize Tavukculuk ve Yem Sanayi A.S.
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Oversea Feeds Corp.
Pan Ocean
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Patra Consult
Perkin Elmer
Perum BULOG
Pet Snax
PetSmart
Petsource by Scoular
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Planta del Prado S.A.
POET Biorefining
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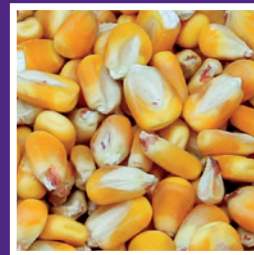
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IGP Institute
Department of Grain Science and Industry

1980 Kimball Avenue, 102 IGP Institute Conference Center | Manhattan, KS 66506-7000
Tel. 785-532-4070 | Fax 785-532-6080 | www.grains.k-state.edu/igp | igp@ksu.edu