More Good Things are Happening in the Department of Grain Science & Industry!!!

GSI State of the Department Seminar
Manhattan, Kansas
April 30, 2010

Dr. Dirk E. Maier Professor and Head





THANK YOU!!!

CONGRATULATIONS!!!



KSU Milling Industry Department – A PRACTICAL DEPARTMENT

- "The Department of Milling Industry is one of the most practical and beneficial departments in the college, none the less so because it is unique in the West and almost so in the United States. Particularly appropriate is it that such a department should be in existence in the wheat growing state of Kansas. It represents not only public service on the part of the college as an institution but also public service on the part of the students who are prepared by the department to do efficient work for the benefit of Kansas and her people."
 - Published in The Kansas Industrialist, the weekly newspaper of the Kansas State Agricultural College, which was the name of Kansas State University when this article was published on *May* 30, 1914



Vision for K-State's Grain Science & Industry Department

"The global education, research and technology transfer leader for the grain & plant-based food, feed, fiber, fuel and bio-products supply chains."

"Good is the enemy of great!" - Jim Collins



Good to Great...

- Transformation of an organization from good to great is a <u>process</u> of build up followed by <u>break-through</u>, broken into three broad stages:
 - Disciplined <u>people</u>
 - Disciplined <u>thought</u>
 - Disciplined <u>action</u>



Disciplined People...

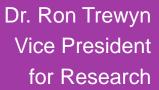
- Level 5 Leadership
 - University/College administrators
 - Department head
 - Committed faculty
 - Experienced staff
 - Student leaders
- → Focus is on building a great organization
- → Ambition is for the cause, the organization, the work to be done



New K-State Administration

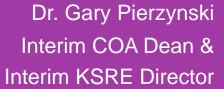


Dr. Kirk Schulz President





Dr. April Mason
Provost &
Senior Vice President







Disciplined People...

- First Who then What
 - Full contingent of the right faculty expertise
 - Optimum mix of support staff expertise & experience
 - Undergraduate and graduate students with whom we can partner to successfully complete their BS, MS and PhD degrees
 - Committed stakeholders who support us through thick and thin
- → Focus on having the right people on the bus and in the right seats



Staff Changes



Brenda Heptig Undergraduate Student Services Coordinator



Liz Savage **Human Resource** Specialist





Rick Umscheid **Business Manager**



Naaz Yasmin **Business Office Accounting Specialist**



Heather Markson Department Head Administrative Assistant





KSU Grain Science & Industry Faculty
August 2009

- 2009 Commerce Bank
 Outstanding Teacher
 Award @ Kansas State
 University
- COA Fall 2009
 Commencement Speech

Prof. Dave Krishock
Bakers National
Education Foundation
Instructor of Baking
Science & Management





2010 AACC International Young Scientist Award

Dr. Sajid Alavi Associate Professor of Grain Science & Industry





2010 AACC International Fellow Award

Dr. David Wetzel
Professor of
Grain Science & Industry





Elite group of K-State Professors who are AACCI Fellows: Ponte, Hoseney, Seib, MacRitchie, Lookhart, Walker

American Feed Industry
Association Distinguished
Service Award

Dr. Keith Behnke
Professor of
Feed Science & Management





Elite group of K-State Professors who are AFIA Hall of Famers: Shellenberger, Pfost, McElliney, Schoeff

2010 IAOM Thaddeus B. Bownik Outstanding Service Award

Dr. Jeff Gwirtz G.M. Ross Associate Professor of Milling Science & Management





Achievements and Recognitions



Hyma Gulya PhD Brabender Fellowship



Daniela Nath deOlivera MS Brabender Fellowship





E Xi 2010 National Starch Outstanding MS Graduate Student





Achievements and Recognitions



Kelsie McGie 2010 Outstanding Senior MSM Student

Dr. Dick Hahn Student Leadership Awardee

Sarah Butler 2010 Outstanding Senior BSM Student



"Nothing is more important in changing an attitude of a team than honesty. I've never been a believer in saying, "Everything is good." I believe in being positive, but I believe more in being honest!"

- Coach Bill Snyder



Disciplined Thought...

- Confront the Brutal Facts
 - Lack of financial discipline
 - Indebtedness and spending beyond our means
 - Living off our past glory
 - Taking stakeholder support for granted
 - Neglecting importance of our teaching mission
 - Failing and antiquated facilities (incl labs, classrooms)
- → Identifying and acknowledging our weaknesses and threats to our future success



Our BIG Budget Challenge...

- → How did we deal with ~\$350,000 in funding cut in FY'10 and what about FY'11?
- Gave up three faculty positions for FY'10
 - protected faculty, staff, GRAs/GTAs, operating funds
- No further budget cut expected for FY'11 but...
 - obtained permission to refill 2 faculty positions open due to retirements of Drs. Behnke and Haque
 - plan to rehire Bob Bennett as part-time recruiter
 - Huseyin Dogan will continue as Instructor
 - will need to hire replacement for Sam Hanni
 - need additional Instructor to support MSM program

Alumni, Friends & Stakeholder Support...



2nd Annual
Outstanding Alumni
& Service Awards
and
Scholarship &
Awards Banquet
April 14, 2010

Department of Grain Science & Industry

> International Grains Program Building

Disciplined Thought...

- Hedgehog Concept
 - See updated vision and mission statements
 - See our top initial priorities
 - See our Strategic Plan
- → Being the best we can be at what we are best at in the world
- → Being deeply passionate about what we do
- → Building on our strengths; taking advantage of new opportunities



Mission of K-State's Grain Science & Industry Department

"To <u>educate</u> students and professionals, conduct innovative <u>research</u>, <u>transfer</u> new technologies and knowledge, offer high-quality <u>outreach</u> programs and services to meet the needs of the global grain & plant-based food, feed, fiber, fuel and bio-products supply chains."

Initial / Continued Priorities

Grow our student enrollment

Grow our research enterprise

Grow our outreach efforts



Strategic Plan Themes (DRAFT)

- 1. Educate undergraduate and graduate students, and industry professionals.
- 2. Conduct innovative basic and applied <u>research</u>, and <u>transfer</u> new technology and knowledge to end users.
- 3. Offer high-quality <u>outreach</u> programs and services to meet domestic and international customer needs and stakeholder expectations.
- 4. Recruit, retain, reward and develop high quality faculty, and professional and classified staff.
- 5. Develop, maintain and utilize state-of-the-art <u>facilities</u> and equipment.
- 6. Broaden <u>funding</u> base and improve financial stewardship.

Kansas State University
GRAIN SCIENCE

Strategic Plan Themes (DRAFT)

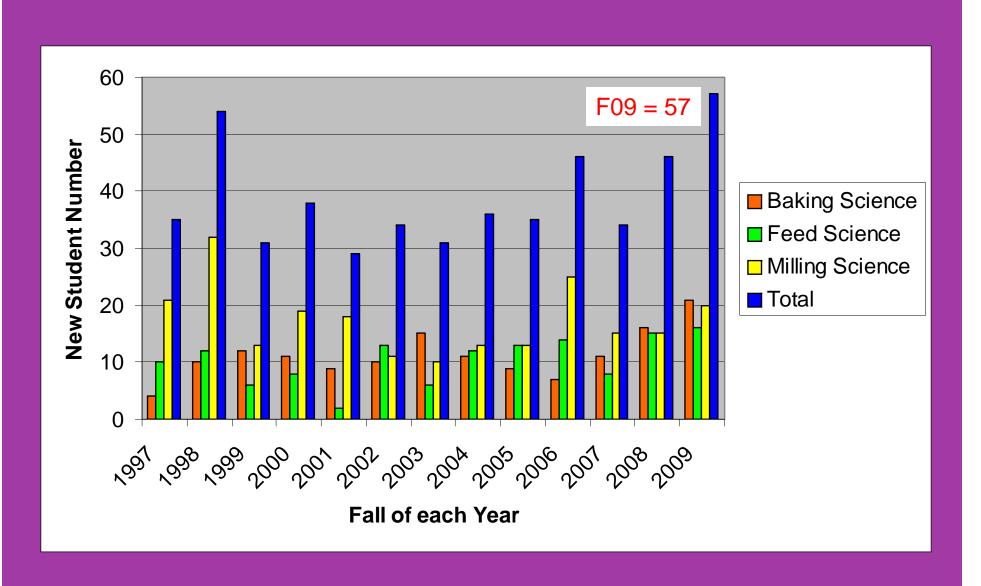
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GRAIN SCIENCE



"The Next Generation of Professionals for the Global Grain & Feed Industry"

New Student Enrollment - Fall 1997-2009



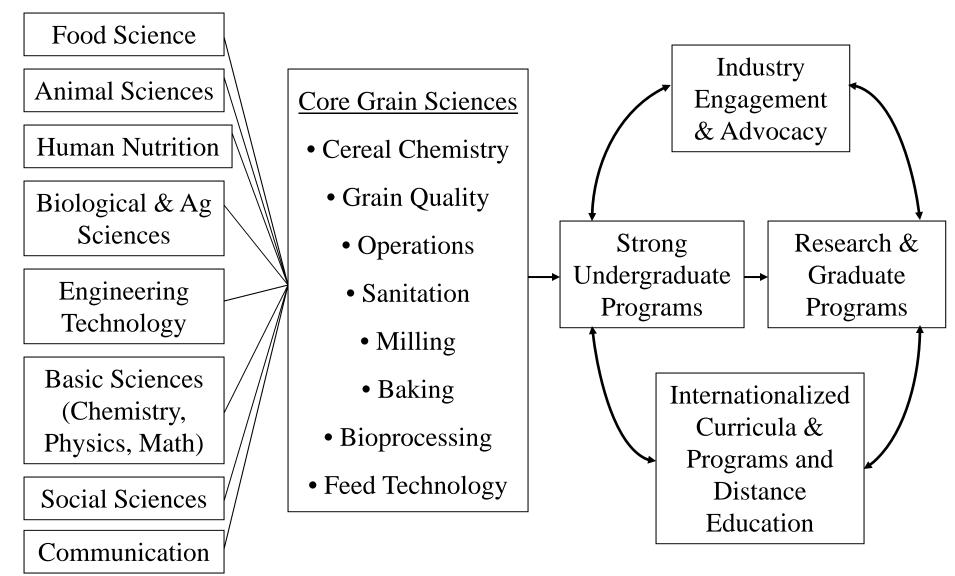
Keys to Increasing UG Student Enrollment in Grain Science & Industry

- Partnership btw K-State GSI and the Grain Industry
 - realize recruitment and retention of future employees starts by helping to fill the MSM, BSM and FSM pipelines at K-State
- Intentional and systematic recruitment plan
 - effective recruiting strategies; "Every one recruit one!"
 - Brains for Grains Recruitment and Scholarship Program
- Scholarship support
 - need to continue to grow scholarship pool
- Employment opportunities
 - Need internship opportunities and full-time job offers
- → More Out-of-State Recruiting Events...



May 17, 2010 – Mill Museum, Minneapolis, Minnesota Fall 2010 – Chicago Area Agricultural High School Fall 2010 – Cereal City, Battle Creek, Michigan

A <u>Model</u> of a successful interdisciplinary program in conjunction with international perspective, distance education and strong industry engagement & advocacy



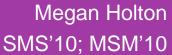
First GSI Study Abroad Course – China 2009



Study Abroad: Swiss Milling School



Mary Gleason SMS'09; MSM'09







Other Study Abroad Students: Kehley Pfrang (Austria); Caitlin Powell (Australia); Austin Bosse (Ireland); Ryan Baker & Ethan Miller (Czech Republic)

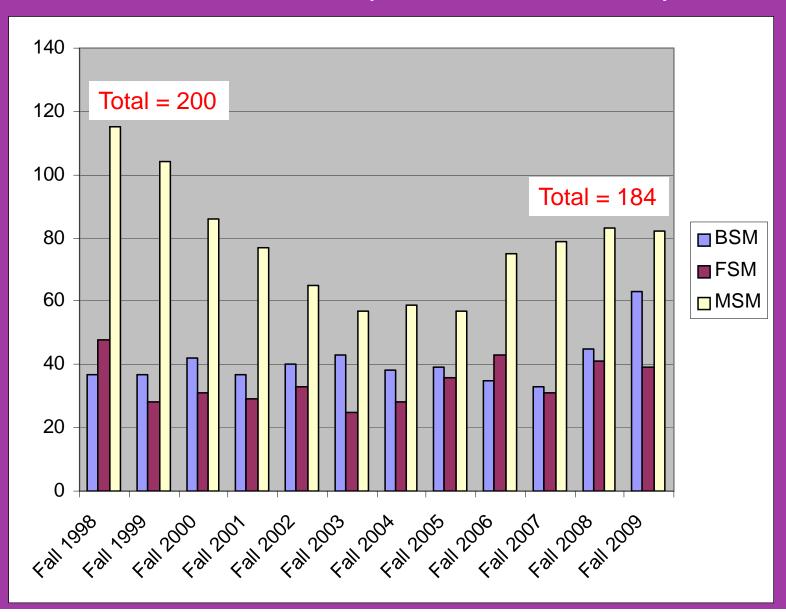
Student Competitions: Next BIG Thing





2009 – 1st, 2nd, 3rd place in product category 2010 – 2nd place in product category

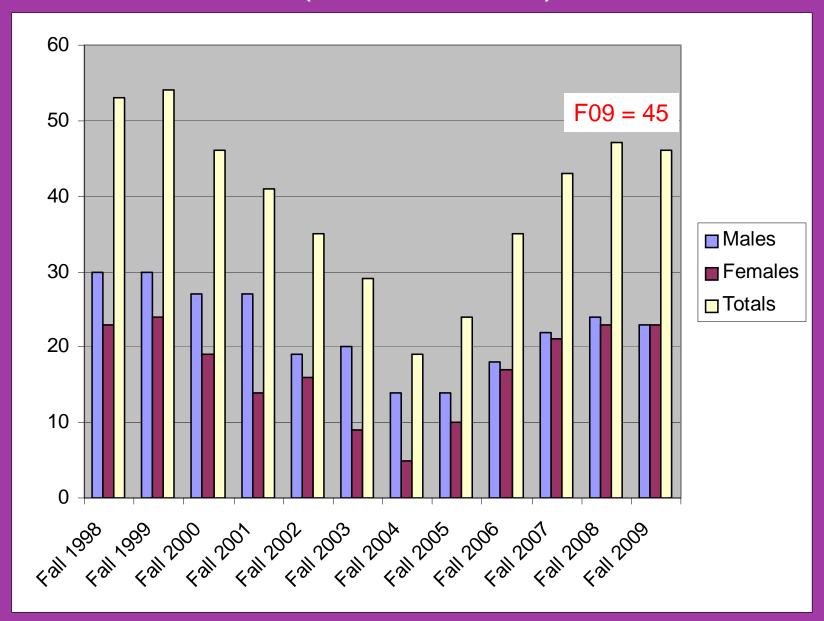
Grain Science Undergraduate Student Enrollment Fall 1998-2009 (Fall'09: 41%F vs 59%M)





Some of our Outstanding Graduate Students

Grain Science Graduate Student Enrollment - Fall 1998-2009 (F'09: 50%F vs 50%M)



2009 IGP Accomplishments

- 25 courses conducted at IGP Conf Center
 - 486 course participants
 - from more than 51 countries

2009 Extrusion Short Course Participants in the KSU Extrusion Pilot Plant





GEAPS-KSU Distance Education Program - Participants

- Participants = 600 from 17 countries
- Individuals = 451
- Organizations = 224
- Companies with most enrolled:
 - CGB = 26
 - Cargill = 23
 - The Andersons = 22
 - Bunge / Bunge Milling = 20
- Most courses completed:
 - Jim Rossman, Kokomo Grain Co = 5

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GRAIN SCIENCE

GSI Patents Issued

- Since the KSU Research Foundation was started in 1942, the faculty in the GSI Department has accounted for about 24% of patents issued to KSURF
 - 51 out of 217 U.S. Patents
 - our faculty is ~1% of the KSU faculty
- 1st patent issued in 1954 to Miller & Johnson
- most patents issued to Dr. Paul Seib (20)
- IP licensing generates ~\$60,000/year for dept
 - most profitable patent generated \$400,000 to the dept



Extramural Funding Support

	2003	2004	2005	2006	2007	2008	2009	2010	5-yr avg
HORT			\$325,671	\$387,539	\$633,383	\$1,046,426	\$1,082,763	\$514,216	\$732,865
AGEC	\$1,491,552	\$1,439,771	\$1,773,947	\$2,028,162	\$2,292,428	\$2,529,003	\$1,350,847	\$2,408,959	\$2,121,880
ASI	\$1,686,012	\$1,300,851	\$1,568,014	\$1,707,054	\$2,988,255	\$2,855,594	\$1,882,156	\$1,327,458	\$2,152,103
GSI	\$2,883,078	\$2,476,275	\$815,578	\$2,376,352	\$2,058,140	\$1,408,563	\$3,396,240	\$1,582,167	\$2,164,292
ENTM	\$1,295,809	\$1,670,454	\$1,507,496	\$2,784,940	\$2,848,309	\$2,075,416	\$1,560,774	\$1,898,520	\$2,233,592
AGRY	\$2,554,102	\$3,150,195	\$3,069,983	\$3,732,199	\$7,031,838	\$3,402,577	\$4,892,905	\$6,779,713	\$5,167,846
PP	\$3,363,112	\$5,322,627	\$4,105,332	\$4,214,156	\$5,343,061	\$3,714,770	\$7,607,972	\$6,754,886	\$5,526,969
COA totals	\$19,626,161	\$23,848,651	\$15,413,931	\$20,599,579	\$25,515,848	\$19,324,431	\$24,476,049	\$34,905,715	\$24,964,324



Areas of Expertise



Grain & Feed Operations & Processing

Dr. Keith Behnke

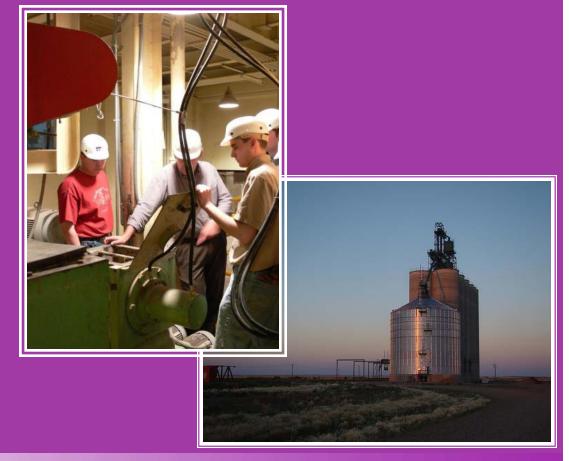
Dr. Leland McKinney

Prof. Fred Fairchild

Dr. Sajid Alavi

Dr. Subramanyam Bhadriraju

Dr. Dirk Maier





Feed Manufacturing, Ration Formulation, Extrusion, Petfoods, Aquafeeds, Process Efficiency, Grinding, Mixing, Biorefinery Operation, Identification, Quality, Preservation, Stored Product Protection, Segregation, Marketing, Rapid Analysis, Safety & BioSecurity

Milling & Extraction



Dr. Jeff Gwirtz

Dr. Hulya Dogan

Dr. Ekramul Haque

Prof. Chris Miller

Prof. Huseyin Dogan



Milling, Component Extraction, Purification, Characterization, Dryfractionation

Cereal & Bakery Sciences

Dr. Jon Faubion

Dr. Rebecca Miller

Prof. Dave Krishock

Dr. Yong-Cheng Shi

Dr. David Wetzel





Protein Chemistry, Starch Chemistry, Characterization,
Measurement Technologies, Ingredients, Product
Development, Formulation, Ingredients, Flour and Dough
Quality, Process Improvement, Quality and Prototype Testing



Biobased Products & Bioenergy

Dr. X. Susan Sun

Dr. Sajid Alavi

Dr. Ron Madl

Dr. Praveen Vadlani





Nonfood Products, Biomaterials, Biopolymers, Enzymes, Fermentation, Extrusion, BioEthanol, Formulation & Prototype Development

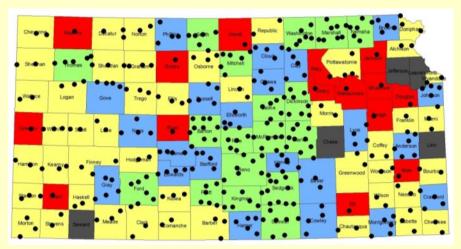
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GRAIN SCIENCE

2009 Wheat Quality Survey Description

- Approximately 120 wheat samples collected from across Kansas
- Elevator managers collect a representative wheat sample of their area
- The samples are evaluated for end-use quality
- Harvest information is made available to domestic and international wheat buyers to promote Kansas wheat



Kansas Grain Elevators

AFIA-KSU Feed Manufacturing Short Courses



Principles of Feed Manufacturing **Short Course** June 10-13, 2008

Presented by Kansas State University, the American Feed Industry Association and the National Grain and Feed Association

Background
The Department of Grain Science and Industry at
Kansas State University has held Feed Manufacturing
Short Courses since 1976. These courses are taught by a
unique blend of individuals from Kansas State University
and within the feed industry and provide in-depth training
on all aspects associated with feed manufacturing.

Location and Registration Information The course will be held in Manhattan, Kansas, at the

Department of Grain Science and Industry at KSU. Travel information will be provided upon registration.

The registration fe for this course is \$950. This includes a copy of Feed Manufacturing Technology V.

Leland McKinney, Program Coordinator Dept. of Grain Science & Industry Kansas Stale University 201 Shellenberger Hall Manhattan KS 66506-2201 Phone: 785-532-4080

E-mail: lelandm@ksu.edu

Room block available until May 11, 2008, at: Holiday Inn At The Campus

1641 Anderson Avenue Manhattan, KS 66502 Phone: 785-539-7531 Fax: 785-539-3909

ntion that you are attending the K-State Feed

Additional Information
JUNE 2016 I HE LAST DAY TO
REGISTER. Class size is limited so
register early. The course is subject to
cancellation if there are less than 15
cedicated to making short courses
accessible to all persons. To increase our
ability to assist you in finding necessary
services of if you have a detairy
proper produce the sub-fine registerine.

- June 10th Starting at 5:00 pm

 Registration
 Dinner
 An Overview of the Feed Industry

- Review of Animal Nutrition Feed Processing Flow Equipment Types and Selection
- Feed Mill Design
- Receiving & Quality Control Sanitation & Pest Manageme

June 12th - 7:30 am to 5:30 pm

Principles of Steam Generation and Conditioning Fundamentals of Pelleting Pellet Cooling and Post-Pellet Liquid



April 8-11, 2008

Kansas State University Feed Manufacturing Short Course

Presented in cooperation with the American Feed Industry Association, the National Grain and Feed Association, and the

Background
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Who Should Attend
This course is designed for feed mill supervisors, managers and individuals from allied industries who wish to sharpen their management skills.

Location and Registration Information
The course will be held in Kansas City, Missouri, near
the Kansas City International Airport (MCI). The
registration fee for this course is \$750. This includes short
course handout materials, all kinches, break referentments,
and one dinner. Feed Manufacturina Technology V will be
available for purchase at a reduced rate.

Anita McDiffett

Dept of Grain Science & Industry Dept. of Grain Science & Inc Kansas State University 201 Shellenberger Hall Manhattan KS 66506-2201 Phone: 785-532-4080 E-mail: almgret@ksu.edu

urse Location

m block reserved until March 3, 2008, at:
Fairfield inn by Marriot Kansas City Airport
11820 NW Plaza Circle
Kansas City, Missouri 64153

Additional Information
Class size is limited so register early.
The course is subject to cancellation if there are less than 15 errollments.
Kansas State University is dedicated to making short courses accessible to all persons. To increase our ability to assist

- Schedule April 8th– Starting at 5:00 pm
- Registration

 Registration

 Dinner

 Being an Effective Leader

 Overview of the Exercise

- April 9th 8:00 am to 5:30 pm

 A Manager's Roie in Feed Mill Operations
 Regulations Governing the Feed Industry (FDA, OSHA, & EPA)
 Ingredient Purchasing, Logistics and Inventory Control

April 10th - 8:00 am to 5:30 pm

- 10" 8:00 am to 5:30 pm Quality Control, Product Liabilities and Risk Management Equipment and Parts Purchasing Hiring Practices Motivating and Training Employees Sales and Marketing Office Management

- April 11th 8:00 am to 12:00 pm
- Employing HACCP in the Feed Mill
 Certificate Presentation

AFIA-KSU Feed Manufacturing Distance Education Program





Advanced Pelleting Concepts

Presented by Kansas State University, the American Feed Industry Association and the National Grain and

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The Department of Grain Science and Industry at Kansas State University has held Feed Manufacturing Short Courses since 1976. These courses are bugst by a unique Defend of individuals from Kansas State University and within the feed industry and provide in depth stating on all appects associated with feed manufacturing.

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Leland McKinney, Program Coordinator Dept. of Grain Science & Industry Kansas State University 201 Shellenberger Hall Manhattan KS 66506-2201 Phone: 785-532-4080 E-mail: lelandm@ksu.edu

Fax: 785-539-3909

July 10-13, 2007

Additional Information Class size is limited so register early. The

class size is limited so register early. This rourse is subject to cancellation if there are less than 15 errollments. Kansas State University is dedicated to making short courses accessible to all persons. To increase our ability to assist you in finding necessary services or if you have a dietary preference please indicate this when registering.

- Schedule July 10th Starting at 5:00 pm
- An Overview of the Feed Industry
- July 11th 8:00 am to 5:30 pm

 Why Pellet Feed
 The Pelleting Process: Past, Present,

- The Pelleting Process: Past, Presen and Future
 Pelleting System Design & Equipment
 Pellet Roll and Die Design
 Pellet Mill Maintenance
 Factors Intencing Pelleting
 Production Rate and Pelleti Quality
 Detelleting General Pelleting Characteristics of Feed

Ingredients July 12th - 8:00 am to 5:30 pm

- Pellet Cooling
- Boiler Operation

- Boiler Operation
 Boiler Water Treatment
 Steam and Steam Systems
 July 13th 8:00 am to 11:30 am
 Automation of Pelleting Lines
 Crumbling and Post Pellet Liquid



FEED MILL MAINTENANCE June 2-5, 2009

Kansas State University

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This course is designed for feed mill maintenance managers, shift supervisors, and feed mill managers.

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Manhattan, Kansas. The registration fee for this course is \$800. This includes short course handout materials, all lunches, refreshments, and one dinner. Food Manufacturing Technology V will be available for purchase

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- June J
 The Importance of Having an Effective Maintenance Program
 Establishing a Preventative Maintenance
- Maintenance Safety
 Maintenance Safety
 Parts Purchasing and Inventory Management
 Magnets Design, Testing, and Investigation.

Motor Bearing Maintenance

- Ellectrical Marintenance
 Dust Filter Maintenance
 Conveyor Maintenance
 Liquid Pump Maintenance
 Maintenance of Compressed Air
 Systems
 Maintenance of Hammer Mills and Roller
- Batching Systems and Mixer

International Center for Grain Industry Operations @ K-State

- Purpose: The International Center for Grain Industry Operations will serve as the primary partner to the international grain industry in providing a current, complementary and comprehensive knowledge resource for the world of grain industry operations and processing.
- Partners: GEAPS, Grain Handling & Processing Companies, Iowa State University, Purdue University, USDA-ARS CGAHR, AFIA, NAMA,...



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Kansas State University
GRAIN SCIENCE

Faculty Retirements (June 2010)



Dr. Ekramul Haque
Professor of
Milling Science & Management







Faculty Positions

- 3 open faculty positions were cut to meet 10% FY10 budget cut
 - all three in Cereal Science
- 2 eligible for retirement
- 2 retirements for end of FY10
 - Milling/Grain Science (Haque) → Search Committee established
 - Feed Science (Behnke) → will be replaced by Dr. Leland McKinney
 - Grain/Feed Extension & Research (McKinney) → Exploring targeted hire
- 1 Research Assistant Professor added for FY10 (R. Miller)
- 1 Instructor added to support UG teaching (Hus. Dogan)
- 1 Instructor position re-filled
 - Buhler Instructor of Milling (C. Miller)
 - supports MSM teaching program (70%) and IGP (30%)
- 1 more Instructor needed to fully support MSM program needs
- → Strategic hiring of 5-7 new Faculty in next 1-5 yrs



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Kansas State University
GRAIN SCIENCE



GSI North Complex on Kimball Ave

(View from top of East Stadium)



O.H. Kruse Feed Mill & Biorefinery Teaching and Research Center

- estimated \$12.5 million project
 - \$2 million lead gift by Mr. Ron Kruse
 - \$0.5 million cash from grain, feed and biofuels industry so far
 - plus >\$2.5-3 million in equipment commitments
 - Seeking \$5 million in NBAF relocation funds from State of Kansas
 - Seeking additional \$2.5-3 million cash and equipment from domestic and international grain, feed, biofuels and animal nutrition industry and allied trades





Project Timeline:

Summer 2010 - complete fund raising

Oct 2, 2010 - break ground as part of Centennial Celebration





Envisioned GSI North Complex

Strategic Plan Themes (DRAFT)

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GRAIN SCIENCE

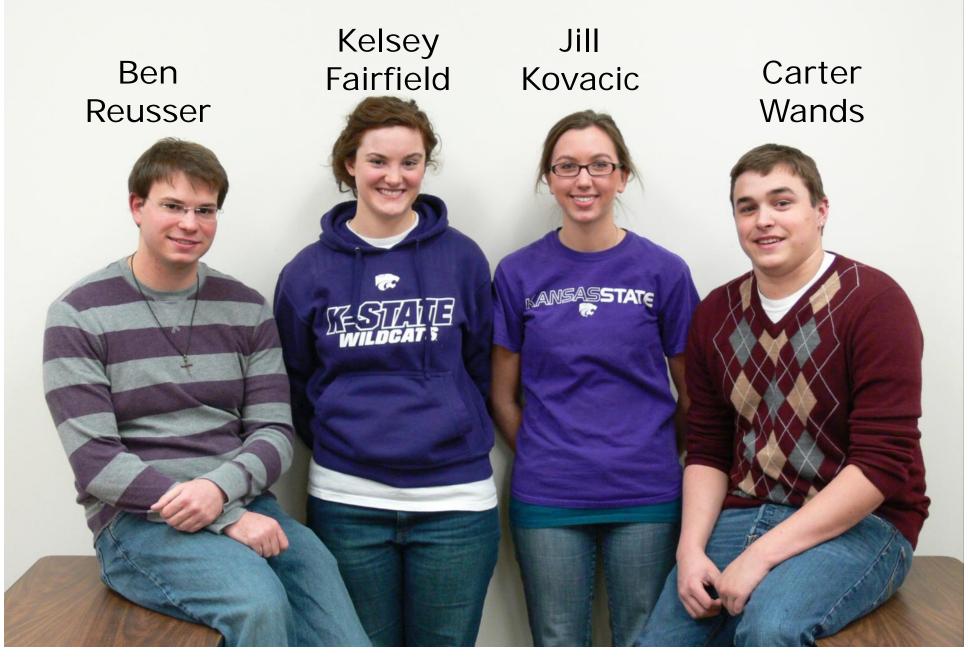
Centennial Celebration Initiative

- Increase scholarship support for our students
 - Goal: \$50,000
 - \$20,000 MSM; \$20,000 BSM; \$10,000 FSM
- Improve learning environment for our students
 - Goal: \$500,000
 - Renovate Shellenberger class rooms (301, 311, WA09)
 - Establish a Student Collaborative Work and Study Area (FT202)
- Establish Two (2) Endowed Faculty Chairs
 - Goal: \$5,000,000
 - National funds to support *unique programs* with national impact
 - National funds to supply <u>future talent</u> for the grain industry
 - NEW: Jim & Carol Brown Endowed Professorship in FSM (\$1 million)



Centennial Celebration Weekend – October 1-2, 2010

American Society of Baking



2009-2010 GSI Undergraduate Student Scholarships

<u>Program</u>	<u>#</u>	<u>Amount</u>	<u>Average</u>
BSM	45	\$87,825	\$1,951
MSM	38	\$57,505	\$1,513
FSM	38	\$30.525	\$ 803

TOTAL **121 \$175,555** \$1,450



Faculty Recognition & Sustainability



Dr. Jon Faubion
Charles D. Singleton
Professor of Grain
Science & Industry



Dr. Jeff Gwirtz
G.M. Ross Associate
Professor of Milling
Science &
Management



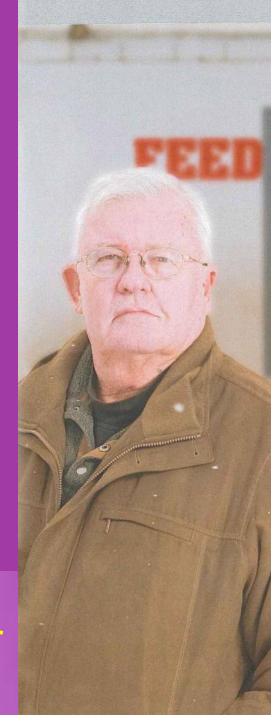


Prof. Chris Miller Bühler Instructor of Milling Science & Management





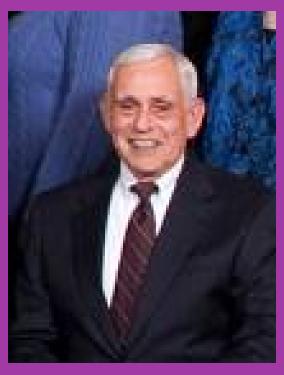
Jim & Carol Brown Endowed Professorship in Feed Science & Management





Jim Brown
\$1 million Deferred Gift Donor
Clay Center, Kansas

Don Wilbur Endowed Professorship in Stored Product Protection





\$2.5 million Endowed Gift Target
Joint with Dept of Entomology

NAMA Endowed Instructor of Milling Science & Management





\$2.5 million Endowed Gift Target

Budget Information



Disciplined Action...

- Culture of Discipline
 - Being good stewards of our resources
 - Being effective and efficient
 - Committed to excellence in everything we do
 - Approaching challenges with a can-do attitude
 - Taking advantage of opportunities
 - Thinking marathon rather than sprint
 - Consistently delivering what we promise and when
- Operating with academic freedom, collegiality, creative thinking and an entrepreneurial spirit



Disciplined Action...

- The Flywheel
 - No single defining action
 - No one killer innovation
 - No miracle moment
 - No one single person



→ Relentlessly pushing a giant, heavy flywheel in one direction, turn upon turn, building momentum until a point of breakthrough, and beyond



Strategic Plan Themes (Top Goals)

- 1. <u>Educate</u> undergraduate and graduate students, and industry professionals
 - increase quantity & quality of UG & graduate students
 - increase out-of-state UG students (Brains for Grains; dist ed courses)
 - strategic dist ed partnerships with industry
- 2. Conduct innovative basic and applied <u>research</u>, and <u>transfer</u> new technology and knowledge to end users
 - increase grants, contracts & IP royalty income
- 3. Offer high-quality <u>outreach</u> programs and services to meet domestic and international customer needs and stakeholder expectations
 - build on / expand IGP success

Strategic Plan Themes (Top Goals)

- 4. Recruit, retain, reward and develop high quality faculty, and professional and classified staff
 - fill 2 open faculty positions ASAP
 - pursue GEAPS Endowed Chair opportunity
 - pursue NAMA Milling Instructor opportunity
- 5. Develop, maintain and utilize state-of-the-art facilities and equipment
 - get new feed mill/biorefinery built
 - pursue North Complex completion
- 6. Broaden <u>funding</u> base and improve financial stewardship
 - encourage and support entrepreneurial efforts

"Greatness is largely a matter of conscious choice, and discipline!" - Jim Collins



"Nothing in the world can take the place of persistence.

Talent will not; nothing is more common than unsuccessful men with talent.

Genius will not; unrewarded genius is almost a proverb.

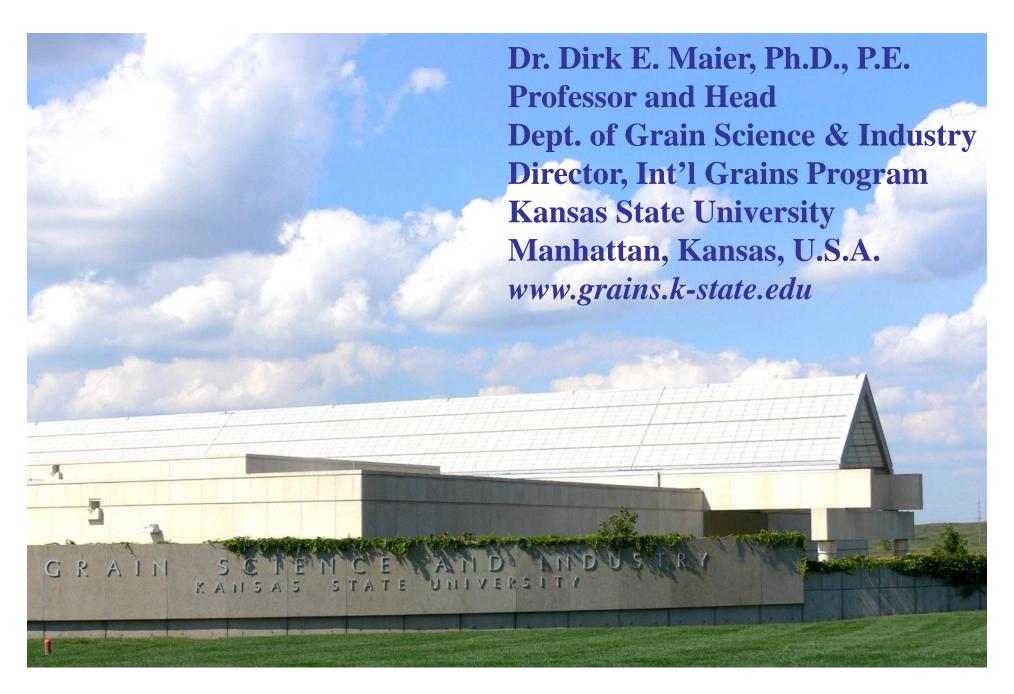
Education will not; the world is full of educated derelics.

Persistence and determination alone are omnipotent.

The slogan "Press On" has solved and will always solve the problems of the human race!"

- President Calvin Coolidge





"Leaders & Knowledge for the Global Grain Industry"