



2009

Seed Quality Workshop Seed Conditioning Workshops



SPONSORS

SEED SCIENCE CENTER
SEED TESTING LABORATORY
AGRICULTURAL AND BIOSYSTEMS ENGINEERING
COLLEGE OF AGRICULTURE / PLANT SCIENCES INSTITUTE
IOWA STATE UNIVERSITY EXTENSION

INSTRUCTORS

Alan Gaul; Susana Goggi, Ph.D.; M.K. Misra, Ph.D.;
Gary Munkvold, Ph.D.; Kim North; Lisa Shepherd; Mike Stahr;
and industry guest speakers

IOWA STATE UNIVERSITY

2009 PROGRAMS

Schedule

Workshop schedule is from 8 a.m. to 4:30 p.m. with registration from 8 to 8:30 a.m. on the first day of each workshop. Lunch is provided with each full day program.

Location and Parking

The workshops will be held in the Seed Science Center at Iowa State University. Parking is available nearby. You'll receive a map and parking permit with your registration confirmation.

Registration

Enrollment is limited in workshops. Registration will be accepted on a first-come, fees-paid basis. The coordinator of the workshops reserves the right to limit the number of persons attending per company or institution. If you have questions about registration, contact Continuing Education and Professional Development (CEPD) at (515) 294-6222.

Change in Plans

If you cannot attend a workshop, you may send a substitute. Cancellations made at least one week in advance will be subject to a \$20 handling fee. For cancellations made within a week of the workshop, you'll be reimbursed 50 percent of your fee. No refunds are provided for cancellations made after the start of the workshop. Contact CEPD at (515) 294-6222 to report a substitute or cancel your registration.

Messages

During the workshop, messages may be left at (515) 294-6821.

On-Location Workshops

Special arrangements may be made for the workshops to be held on location at your plant or place of operation if four or more employees are involved.

Customized Workshops

Special arrangements may be made for customized workshops designed to suit your company needs. These workshops are held in the Seed Science Center and can vary in duration and content, based on your company's specific needs.

Hotels

For a complete listing of hotels in Ames, call the Ames Convention and Visitors Bureau at 800-288-7470 or go to www.visitames.com

SEED QUALITY WORKSHOP

SEED CORN AND SOYBEAN QUALITY EVALUATION

August 19-20, 2009

Limit of 24 people

FEE: \$175

LAST DAY TO REGISTER: August 12

The Quality Evaluation Workshop offers lecture and laboratory hands-on training for both corn and soybean seeds.

The following topics are covered:

- Seed and seedling morphology
- Viability: Germination tests (rolled towels, sand, crepe cellulose paper)
- Vigor: Accelerated Aging, tray and saturated cold
- Tetrazolium test
- Fungi identification/seed health testing
- Special tests: electrical conductivity
hypochlorite soak (soybeans)
fast green (corn)
- Trait testing: herbicide bioassay
ELISA/lateral flow strips
Electrophoresis
PCR
- Purity test and Sampling

WHO SHOULD ATTEND

- Those studying to take CSA, RST, or RGT exams
- Beginning seed analysts
- Quality Assurance Managers
- Production Managers
- Field Production Managers
- Interested Personnel

SEED CONDITIONING WORKSHOPS

The workshop series offers "hands on" training with typical seed conditioning machinery and a detailed review of seed conditioning operations. Group size is limited to 24 attendees per session for better equipment access and discussion. Workshops include a mix of classroom presentations and equipment demonstrations. The workshops are suitable for training new personnel or as a refresher course for experienced operators. Workshop fee includes a box or catered lunch each day.

Our traditional "crop specific" workshops are offered for soybean seed, commercial seed corn, popcorn, and research seed corn conditioning and include basic "hands on" demonstrations of typical conditioning operations. Current "process specific" workshop offerings include color sorting, gravity separation, and seed treatment, providing more detail and time for demonstrations than similar topics within "crop specific" programs.

WHO SHOULD ATTEND

- Conditioning Machine Operators
- Quality Assurance Managers
- Production Personnel
- Seed Plant Management
- Equipment Representatives
- Other Interested Personnel

COLOR SORTING

SATAKE workshop – June 3-4, 2009

SORTEX workshop – June 10-11, 2009

FEE: \$175

Brand specific workshops intended to provide advanced color sorter training for equipment operators and other interested personnel. "Hands-on" training will be provided using corn and soybean seed. Company representatives will be available to assist with class presentations, equipment operation, and technical support.

- Technology Review
- Color Sorting Demonstrations
- Equipment Operation Training
- Basic Machine Maintenance



COMMERCIAL SEED CORN CONDITIONING

June 15-18, 2009

FEE: \$300

General “crop specific” workshop covering typical operations required for conditioning seed corn in lot sizes typical of larger foundation and commercial production.

- Seed Corn Conditioning Review
- Basic Harvest Operations
- Ear Corn Receiving, Husking, and Sorting
- Ear Corn Dryer Operation and Management
- Ear Corn Shelling and Material Handling
- Bulk Storage and Aeration
- Air Screen Cleaning and Aspiration
- Seed Corn Sizing
- Gravity Separation
- Color Sorting
- Seed Treatment
- Packaging and Palletizing

SEED TREATMENT

June 24-25, 2009

FEE: \$200

Intended for seed plant personnel requiring more detailed coverage of current seed treatment products, typical seed pests and pathogens, application equipment, and calibration procedures. The program will include video sessions and live presentations by University personnel and company representatives.

- Seed Treatment Review
- Commercial Treatment Products
- Typical Pests and Pathogens
- Chemical Premix Procedures
- Batch and Continuous Flow Treaters
- Calibration and Verification Procedures
- Iowa Pesticide Applicator Recertification (Category 4 – Seed Treatment)

SOYBEAN AND SMALL GRAIN SEED CONDITIONING

July 7-9, 2009

July 28-30, 2009

FEE: \$235

General “crop specific” workshop covering typical operations required for conditioning soybean seed with additional information related to edible beans, small grains and select specialty crops.

- Seed Conditioning Review
- Basic Harvest Operations
- Sampling and Material Handling
- Bulk Storage and Aeration
- Air Screen Cleaning and Aspiration
- Debearding and Brushing
- Sizing and Length Grading
- Spiral and Belt Separation
- Destoning and Gravity Separation
- Color Sorting
- Seed Treatment
- Packaging and Palletizing

GRAVITY SEPARATION

August 4, 2009

August 6, 2009

FEE: \$110

Detailed review of the operation, adjustment, and effectiveness of the destoner and gravity table for removing foreign material and upgrading seed quality. The primary focus will be on typical seed corn and soybean separation issues with additional discussion regarding other seed and food grade applications.

- Fluidized Bed Technology Review
- Destoner Operation and Adjustment
- Gravity Separator Operation and Adjustment
- Basic Machine Maintenance
- “Hands On” Gravity Separator Training
- Oliver, Heid, LMC, and Forsberg Gravities

RESEARCH SEED CORN CONDITIONING

August 11-13, 2009

FEE: \$235

General workshop covering typical operations required for conditioning seed corn in small lot sizes typical of research stations, parent seed, and smaller foundation seed operations. Typical small scale research seed conditioning and treating hardware will be available for demonstration and “hands on” training sessions.

- Seed Corn Conditioning Review
- Field Operations
- Ear Corn Dryer Operation and Management
- Ear Corn Shelling and Material Handling
- Air Screen Cleaning and Aspiration
- Seed Corn Sizing
- Destoner and Gravity Separation
- Color Sorting
- Seed Treatment
- Seed Counting and Packeting Equipment
- Climate Controlled Storage

Special Needs

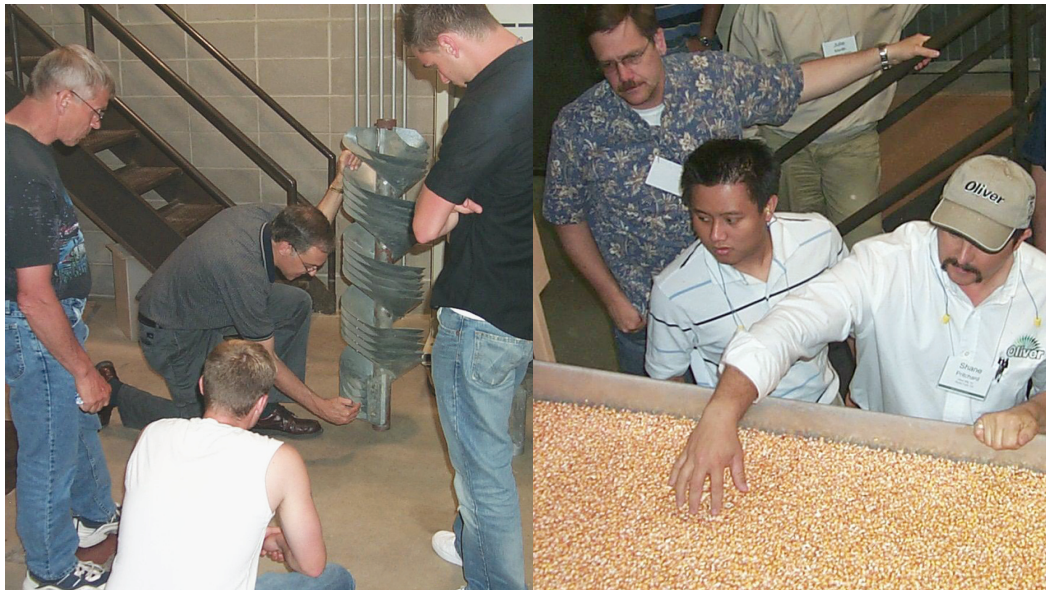
If you need special disability or dietary accommodations, call CEPD at (515) 294-6222

Register Today!

All workshops have a maximum attendance of 24 people, so register today to ensure your enrollment in this year's workshop. Please call 515-294-6222 to check availability for workshops if you are registering less than a week prior to the workshop.

For More Information

Connie Sandve, Iowa State University, 102A Seed Science Center, Ames, Iowa 50011-3228; (515) 294-6821; csandve@iastate.edu



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(515) 294-6223

BY FAX

Ames, Iowa 50011-1112
 Iowa State University
 102 Scheman Building
 Development
 and Professional
 Continuing Education

BY MAIL

www.ucs.iastate.edu

ONLINE

It's Easy to Register!



IOWA STATE UNIVERSITY
 Continuing Education and Professional Development
 102 Scheman Building
 Ames, Iowa 50011-1112
 P300-1801

REGISTRATION — SEED WORKSHOPS

June – August 2009

Mark the session(s) you will attend. **Lunch is provided with each full day program.** Please register early – at least one week prior to workshop. Seed treatment workshop includes recertification credit for the Iowa Commercial Pesticide Applicator program (Categories 4 and 10). **One person per registration form. Please make copies if needed.**

Conditioning and Quality Workshops

<input type="checkbox"/> Color Sorting – Satake	June 3-4	\$175.00
<input type="checkbox"/> Color Sorting – Sortex	June 10-11	\$175.00
<input type="checkbox"/> Commercial Seed Corn Conditioning	June 15-18	\$300.00
<input type="checkbox"/> Seed Treatment	June 24-25	\$200.00
<input type="checkbox"/> Soybean & Small Grain Seed Conditioning	July 7-9	\$235.00
<input type="checkbox"/> Soybean & Small Grain Seed Conditioning	July 28-30	\$235.00
<input type="checkbox"/> Gravity Separation	August 4	\$110.00
<input type="checkbox"/> Gravity Separation	August 6	\$110.00
<input type="checkbox"/> Research Seed Corn Conditioning	August 11-13	\$235.00
<input type="checkbox"/> Seed Corn/Soybean Quality	August 19-20	\$175.00

TOTAL \$ _____

First Name _____ Last Name _____

Job Title _____ Company / Affiliation _____

Day Phone _____ Evening Phone _____

E-mail _____ Fax _____

Work Mailing Address _____

City _____ State _____ Zip _____ Iowa County _____

Please list any special disability or dietary needs _____

CHECK (payable to Iowa State University)

CREDIT CARD Visa Mastercard Discover

Cardholder Name _____ Card Number _____

Expiration Date _____ Signature _____

PURCHASE ORDER Name _____ Phone _____

Billing Address _____