

2016

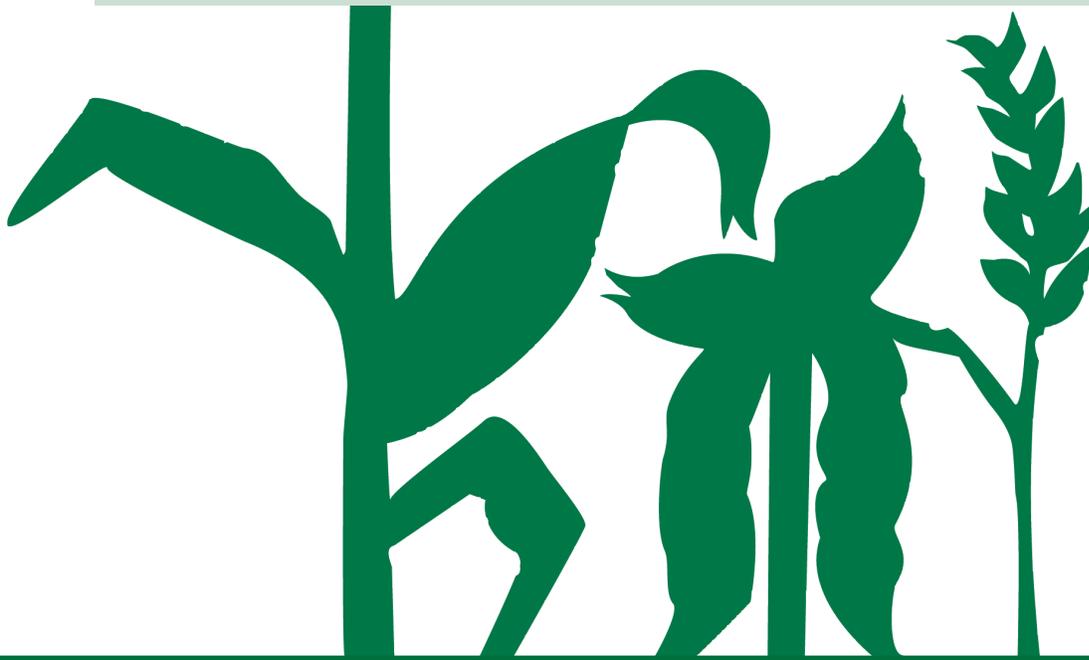
Seed Analyst Short Course

Purity: April 18 – 21, 2016
Germination: April 25 – 28, 2016

Corn and Soybean Quality Evaluation Workshop

August 16 – 18, 2016

Seed Testing Laboratory
Iowa State University | Ames, Iowa



Presented by
Iowa State University Seed Testing Laboratory
Iowa State University Extension and Outreach

IOWA STATE UNIVERSITY
OF SCIENCE AND TECHNOLOGY

Seed Analyst Short Course

Overview

This short course is for persons interested in a solid introductory course that covers many species and topics in seed analysis and for those preparing to take an analyst accreditation exam (SCST: CPT, CVT, RST, CGT, RGT or AOSA: CSA – Purity, Germination, or both).

Benefits

The Seed Analyst Short Course is designed to provide

- basic information regarding seed quality evaluation;
- a broad course of study covering many seed species;
- excellent training for the Registered Seed Technologist Examination or the AOSA CSA Exam;
- an opportunity to attend either the session on purity, the session on germination, or both;
- an educational experience valuable to both the participants and their employers; and
- a chance to interact and share information with other seed analysis professionals.

Purity Week

Class: April 18-21, Exam: April 22

Participants will have the opportunity to work with 32 desired species (in addition to weed species included in purity exercises). In addition to conducting purity exams and seed identification, hands-on activities include using seed blowers, mechanical dividers, moisture meters, and seed counters. Lecture topics include AOSA Rules, uniform blowing procedures, multiple unit procedure, purity tolerance tables, varietal purity, coated seed procedures, and sampling.

Germination Week

Class: April 25-28, Exam: April 29

Participants will gain hands-on experience evaluating seedlings of 16 species (crops, vegetables, flowers, grasses) and working with warm and cold germination, accelerated aging, fluorescence, herbicide bioassay and ELISA for biotech crops, tetrazolium (TZ) and more. Two highlights of the week are a full day of TZ testing (six families) and a three-hour session moving between stations in the Germination Lab.

Special Requests

Those interested in working with species in addition to 32 desired species during Purity Week and 16 species during Germination Week should contact Mike Stahr (mgstahr@iastate.edu, 515-294-6826) at least three weeks

prior to the start of that week of the short course. A list of species worked with during the short course is available by contacting Mike.

Exams:

- Short course exam each week
- Seed analyst/technologist exams (Apply to AOSA & SCST)
- Genetic technologist exams (Apply to SCST)

Find agendas on the Seed Lab website:

www.seeds.iastate.edu/seedtest/training.html

Suggested Reading

- *Seed Technologist Training Manual*. For purity short course, especially review chapters 3 and 7. For germination short course, chapters 8, 9, 10, 11, and 12. Available from SCST at www.seedtechnology.net.
- *Principles of Seed Science and Technology, 3rd edition*, by L.O. Copeland and M.B. McDonald. Browse chapters on seed formation, seed germination, and seed testing.

Corn and Soybean Quality Evaluation Workshop

Overview

This workshop is for persons interested in hands-on experience with most available testing methods for corn and soybeans. Seed analysts, genetic technologists, lab managers, seed brokers, journalists, and others will benefit from taking this workshop.

Participants will evaluate seedlings from testing methods on two seed lots of corn and two soybean seed lots and will see how their results compare to the class average, high and low results. Traditional seed testing methods include warm germination (sand, rolled paper towels, VersaPak), tray cold, towel cold, saturated cold, accelerated aging (AA), tetrazolium (TZ), fast green on corn, bleach test on soybeans, and electrical conductivity.

Lecture topics include seed and seedling morphology, evaluation rules (AOSA, ISTA, Canada), sampling, seed vigor, and vigor testing methods, identification of common fungi, TZ, seed count, moisture, seed conditioning, and testing for biotech traits.

This workshop will include segments on seed health testing and biotech trait testing (trait purity, AP/LLP testing). Hands-on segments will include herbicide bioassay, ELISA and lateral flow strips.

PARTICULARS

It's Easy to Register!

Online at www.cpm.iastate.edu/event

Mail your registration to

Registration Services
Iowa State University
1601 Golden Aspen Drive, Suite 110
Ames, Iowa, 50010

Register via **fax** (515) 294-6223.

Because this is a hands-on learning situation, enrollment is limited to 14 for the Purity week, 21 for Germination, and 21 for the Seed Quality Workshop. Registration is on a first-come, fees-paid basis. Registration and special request deadline for the Purity short course and for Germination short course is April 4, and the Quality workshop is August 1.

Registration Fees

The registration fee is \$350 for the purity session, April 18–21; \$350 for the germination session, April 25–28; or \$630 for both sessions. The registration fee for the Seed Quality Workshop is \$300. Your registration fee includes all program handouts and breaks. Lunch is provided all three days of the quality workshop and on the Thursday of each short course. Morning and afternoon breaks provided all days. Pay with check, credit card, or purchase order. Online registration is by credit card only. To pay by check or purchase order, please complete registration form and return with payment.

Exams

The AOSA & SCST Purity exam will be offered on April 22 and the Germination exam will be offered on April 29.

NOTE: Attendance at short course not required to take exams.

You must contact AOSA/SCST to apply to take the exams.

Application forms and materials are available from the following websites, www.aosaseed.com and www.seedtechnology.net, or by contacting the AOSA/SCST office at (309) 736-0119.

Suggested Materials to Bring:

- AOSA Rules for Testing Seeds
 - | Volume 1 “Principles” (P, G, Quality)
 - | Volume 4 “Seedling Evaluation” (G, Quality)
 - | AOSA Tetrazolium Testing Handbook (G, Quality)
- Hand lens, if you prefer – dissecting scope provided.
- Forceps will be provided or bring your own.
- Calculator

P = Purity, G = Germination

AOSA publications available at www.aosaseed.com/publications.htm.

Suggested Reading

- Seed Technologist Training Manual
Available from SCST at www.seedtechnology.net
- *Principles of Seed Science and Technology (3rd edition)*
Copland and McDonald

Change in Plans?

If you cannot attend the short courses or workshop, you may send a substitute. If you cancel your registration at least one week in advance of the event, your registration fee will be refunded, less a \$25 processing charge. For cancellations made within a week of the workshop, you'll be reimbursed 50% of your fee. No refunds are provided for cancellations made after the start of the workshop.

Travel

Centrally located in the Midwest, Ames is easily accessed by U.S. Highways 30 and 69, as well as Interstate 35. The Des Moines International Airport is located 40 minutes south of Ames, and is served by major commercial airlines. Several car rental agencies maintain offices in the airport.

Lodging in Ames

Best Western Plus University Park Inn and Suites (515) 296-2500. The Seed Lab provides a shuttle from Best Western Plus University Park Inn and Suites to the short courses in April. (There will not be a shuttle for the Quality workshop in August).

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

Time

Short courses and the workshop begin at 8:00 a.m. each day of class and conclude at 5:00 p.m., except Registration is from 8:00-8:30 a.m. on the first day of each session.

Location and Parking

The sessions will be held in the Seed Science Center, located in the northeastern part of the Iowa State University campus. Parking permits will be issued. You will receive your parking permit with the confirmation of your registration.

Further Information

For questions about program content, contact Mike Stahr at the Seed Science Center, mgstahr@iastate.edu or (515) 294-6826.

For registration questions, contact Registration Services, (515) 294-6222 or registrations@iastate.edu.

Special Needs

If you need accommodations for a disability, call Registration Services at (515) 294-6222 or email registrations@iastate.edu.

Continuing Education Credit

Continuing education credits will be given as appropriate from AOSA, SCST, and Iowa State University.

Iowa State University does not discriminate on the basis of race, color, age, ethnicity, religion, national origin, pregnancy, sexual orientation, gender identity, genetic information, sex, marital status, disability, or status as a U.S. veteran. Inquiries can be directed to the Director of the Office of Equal Opportunity, 3350 Beardshear Hall, (515) 294-7612.

IOWA STATE UNIVERSITY

Conference Planning & Management
1601 Golden Aspen Dr., Ste. 110
Ames, Iowa 50010
P304-4218

UCS1066.1115

2016 Seed Analyst Short Course • April 18–21 and April 25–28, 2016 2016 Corn and Soybean Quality Evaluation Workshop • August 16–18, 2016

Registration deadline is appreciated by April 4, 2016, for short course; August 1, 2016, for Corn and SB Quality Workshop

1. Participant Information

First Name _____ Last Name _____

Company / Affiliation _____

Day Phone _____ Fax _____

Evening Phone _____ E-mail _____

Mailing Address _____

City _____ State _____ Zip Code _____

3. Method of Payment

- Check payable to Iowa State University
 Visa Mastercard Discover

Card Number _____ Exp Date _____ 3-Digit Security Code _____

Cardholder Name _____ Signature _____

Purchase Order Number _____

Send Invoice To _____

Mailing Address _____

2. Fees

- ONLY Purity April 18–21 \$350
 ONLY Germination April 25–28 \$350
 BOTH Weeks \$630
 Corn and Soybean Seed Quality WS \$300

TOTAL \$ _____

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Online www.cpm.iastate.edu/event

By Mail Registration Services
Iowa State University
1601 Golden Aspen Drive
Suite 110
Ames, Iowa 50010

By Fax (515) 294-6223

Iowa State University requests this information to preregister you in a conference. No one outside the university, with exception of participants in the conference, is routinely provided this information. If you fail to provide the required information, we cannot promise accurate registration. (Reference: Iowa Code, Chapter 22.11; Iowa Fair Information Practices Act 11-1003.)