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## **SEED TECH WEEK**

**May 7-11, 2018**

**At SoDak Labs in Brookings, SD**

This three part course is a great opportunity for participants to select training specific to their area of interest. The week is composed of three 1 1/2 day training workshops that provide valuable education and experience on physical purity, genetic purity and seed viability/vigor testing. While many species, tests and topics are covered, we also cover specific species and tests per your request.

Both new and experienced seed technologists will benefit from these workshops. This is also an excellent preparation course for candidates who plan to take the registered or certified seed technologist test. This is a classroom style workshop with a mix of lectures on principles along with hands-on experience.

### **Seed Purity Workshop**

(SA302)

**May 7-8**

In this workshop you will learn about seed anatomy, morphology, biology, flower morphology, seed development and how these processes aid in seed identification. Families covered will include: Asteracea, Fabaceae, Poaceae and other crop and weed families with emphasis on common noxious weed seed identification. Practical experience with: Herbarium usage, purity testing aids, AOSA Rules, seed blower usage, and multiple units classification. Hands on experience includes separating mixed seed packets identification of key seed ID characteristics.

### **Genetic Purity Workshop**

(SA303)

**May 8-9**

Gain experience by conducting herbicide bioassays, herbicide spray over, ELISA plate tests, lateral flow strip ELISA, Isoelectric Focusing (IEF) Electrophoresis, PCR and SNP DNA testing. Demonstrations of visual cultivar purity tests include: hilum purities, peroxidase soybean seed coat test, waxy and dent corn separations, ryegrass root florescence, soybean hypocotyl color and NaOH test for wheat. Hands-on experience for soybean hilum, waxy corn and other cultivar purity separation.

### **Seed Viability and Vigor**

(SA304)

**May 10-11**

Detailed information will be presented on using AOSA Rules and the Seedling Evaluation Handbook for viability evaluation of various species on several germination media types. Sand tests, rolled towel, blotter and petri dish methods will be demonstrated. Identification of microbes including field and storage fungi will be reviewed and demonstrated. Tetrazolium tests (TZ) will be conducted on several species and additional species of interest to you can be requested. Principles of vigor testing will be covered along with hands on experience with tests: tray cold, saturated cold, accelerated aging and electrical conductivity testing.



**Instructors:**

**Tim Gutormson** (Purity and Seed Viability)

Tim is an Agronomist and Registered Seed Technologist with over 35 years of experience in the seed testing industry including roles as editor of the first and second editions of the Seed Technologist Training Manual (STTM) and instructor in Seed Biology, Seed Technology and Seed Identification.



**Kalyn Brix**, (Genetic Purity)

Kalyn Brix, is a Registered Genetic Technologist, Certified Quality Auditor (CQA), Agronomist, RMI, RST, and is an expert in ELISA and trait testing plus she co-authored the chapter on ELISA testing in the second edition of the STTM. Kalyn has over 25 years of experience in seed testing, specializing in genetics and quality.



**Laura Carlson**, (Purity)

Laura has instructed various workshops on seed identification, germination, tetrazolium testing and seed sampling. She has 16 years of experience in the seed industry specializing in



\$200 per person for one workshop or \$400 per person for full week. Classroom materials included. Limited to 12 participants per workshop session. Please register before **Tuesday, May 1, 2018**.

**References:**

*Seed Technologist Training Manual*. [www.analyzeseeds.com/publicaitons/](http://www.analyzeseeds.com/publicaitons/).  
*Principles of Seed Science and Technology*, 4<sup>th</sup> edition, by L.O. Copeland and M.B. McDonald.

Please register before **Tuesday, May 1, 2018**. Questions? Email Kathy at [Registrations@SoDakLabs.com](mailto:Registrations@SoDakLabs.com)

Three ways to register:

(1) Online [www.seedacademyonline.com](http://www.seedacademyonline.com) (2) Fax this form to: 605-692-2756 (3) Call Le Walls at 605-692-2758

NAME: \_\_\_\_\_ PHONE: \_\_\_\_\_

COMPANY: \_\_\_\_\_

EMAIL: \_\_\_\_\_

Check       Bill My Account       Credit Card (Call Le with info)

- Physical Purity May 7-8      \$200
- Genetic Purity May 8-9      \$200
- Viability/Vigor May 10-11      \$200
- Best Deal—all three      \$400