



The Seed Technologist Newsletter

A newsletter for

**The Association of Official Seed Analysts
& The Society of Commercial Seed Technologist**

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NOTES FROM THE EDITORS

The Newsletter Committee is happy to welcome Sue Alvarez as the new SCST editor.

Please consider submitting an article to the newsletter. Articles can be submitted at any time. Don't wait for the deadline! Anyone can submit an article, but we consider the appropriateness and timing, and will not break copyright laws. We reserve the right to edit, but will not change content.

Some suggestions for articles:

Seed testing or method ideas, Analyst news, Lab spotlight, General interest, Technical information, Workshop announcements, Seed school announcements and Meeting summaries or announcements.

Cindy Finneseth, AOSA Editor and Sue Alvarez, SCST Editor

Deadline for the February 2009 Newsletter Issue: January 15, 2009

Submit articles by email to Cindy Finneseth, Sue Alvarez or your regional editor. Find the names and contact information on page 4.

Websites

AOSA (www.aosaseed.com)
SCST (www.seedtechnology.net)

EXECUTIVE BOARD REPORTS

SCST Presidential Report

Letter from the SCST President:

The annual meeting in St. Paul was a historic meeting. I would like to thank all who worked to host this meeting for us. Both organizations voted to continue the consolidation process. There is still much work to be done, but significant progress has been made. This summer, while traveling to the ASTA, AASCO and the AOSCA annual meetings, the issue of consolidation for our organizations was well received. From my perspective at this time, most people I talk to inside SCST and AOSA, as well as affected people in the seed industry, see consolidation as beneficial and eminent. Your ideas and participation are encouraged throughout the process, as they will help guide us to a well structured entity.

I would like to thank all of our committee chairs for the work they put into their committees. Any member can become involved in most committees by contacting the appropriate committee chair. The committees can be found on the SCST web page, with the contact information of the committee chair. We have many highly knowledgeable people in our society, and we need to utilize all of our talent. Sharing your time is what makes our society strong.

We must continue to strive toward uniformity in seed testing. I hope the rules review process helps us achieve this goal. I was reminded at one of the meetings this year that the seed industry relies on uniformity in our test results. We may think we are helping a customer by bending the rules a little bit, but this can cause disruption in seed commerce. The seed market must be an even playing field for all who are buying and selling seed. I was asked by an attorney to "Wholly encourage your members to test by the Rules. The industry insists and relies on it."

SCST will be marketing a set of 4 DVD's that were produced by Dr. Miller McDonald. They can be purchased by contacting Anita Hall. There is an excellent AASCO Seed Sampling Handbook which every seed lab should have in its library. You can also obtain this by contacting Anita.

Respectfully submitted:
Gil Waibel

SCST Membership Update

May 1-September 1

Please visit the SCST website for complete updated contact information

New RSTs- Congratulations!!

Angie Croft, GROWMARK, Inc., Bloomington, IL

Sarah Graybill, SGS Mid West Seed Services, Brookings South Dakota

Lynn Robinson, Dairyland Seed Co., Homedale, ID

Nicollette Rusch, BioDiagnostics, Inc., River Falls, WI

NEW CVT- Congratulations!!

Kim Honold, Syngenta Seeds, Coon Rapids, IA

Josh Keating, SGS Mid West Seed Services, Brookings South Dakota

Mike Kvidera, Mycogen Seeds, Marshalltown, IA

Nathan Rosenau, SGS Mid West Seed Services, Brookings South Dakota

Steve Schaefer, Illinois Foundation Seeds, Champaign, IL

RMI to RST- Welcome back!

Jennifer Pernsteiner, Minnesota Crop Improvement Association

RST to RMI- We will miss you!

Diane Mesa, RST, CGT, Syngenta Seeds, Inc.

On the Move

DaNell Jamieson, RST, CGT has joined BioDiagnostics, Inc. River Falls, WI

Russ Rasmussen, RGT, has joined RiceTech, Inc., Alvin, TX

Jeremy Sharp, RST has joined Pioneer Hi-Bred Intl. in Mankato, MN



AOSA/SCST 2008 ANNUAL MEETING HIGHLIGHTS

Eighth Annual Native Seed Symposium

The native seed symposium in St. Paul MN was again a successful mix of Seedsmen, Researchers, and Seed Analysts. The one day symposium addressed testing issues and suggested means of overcoming them along with a brief discussion of the Native

Seed Bulletin that is nearly completed and in the final editing stages prior to publication. We also brought in a diverse group of Minnesota and Wisconsin researchers to discuss eco-regions, diversity of a species within those regions, homogeneity of species across wide geographic areas, and carbon credit programs making alternative income sources available for native seed producers.

Interesting discussions resulted from presenting both the “lumper” and “splitter” sides of the diversity of species within eco-regions, and the seemingly arbitrary subdividing of Minnesota and other states into small vegetatively similar eco-regions or zones. Overall, the session was productive, goals were set for upcoming activities, and those attending walked away with new information and a better understanding of the complexity of some of the botanical issues related to native species.

Larry Prentice
SGS-MWSS

Genetic Technology Workshop

The 2008 Genetic Technology Workshop had a slightly different orientation than the typical methods focus. This workshop was focused on **Method Validation for Biotech Trait Detection**. In other words, how to develop a test and validate that test results can be verified and replicated. Once the process is validated then the lab can establish a testing program for that trait test.

A general introduction to developing and validating methods in Agriculture was presented by Ray Shillito, Bayer Crop Science. This focused on understanding how to set up criteria to determine if the process was correct. Ray then talked about validating the method and setting up proficiency testing standards. Finally an understanding of establishing reference materials and the difficulties encountered based off the need to meet ISO 17025 and CODEX standards.

Case studies in method development and validation were presented following break. Clara Alarcon, Pioneer, presented a specific case study in ELISA method development and validation. This was followed by Kyle Keller, BASF, with development and validation of the CLEARFIELD CONFIRM herbicide bioassay. The proficiency testing protocol was explained so that laboratories could be certified for the CLEARFIELD CONFIRM herbicide bioassay. StarLink was the primary example of method validation for the detection of inadvertent release of grains into the marketplace presented by Ron Jenkins, USDA-GIPSA.

Variability in results and why and where the variability arose were discussed in the afternoon session. Yelena Dudin, Monsanto, presented understanding types of errors and sources of variability in ELISA. Ron Jenkins, USDA-GIPSA, presented results of the USDA/GIPSA proficiency program for capability of detection and/or quantification of

transgenic traits in corn and soybeans. Herbicide bioassay is excluded from this program since the samples are very carefully milled and constructed. Nick Friant, Cargill, discussed putting the variability into context within the supply chain. The immense risk of incorrect sampling or poor testing procedures was discussed along with the implications of that result potentially resulting in dumping an entire shipload of grain due to an error.

The perspective of kit or reagent suppliers on method validation was in the final session for the workshop. Lee Daughtry, Envirologix, presented the perspective on validation of USDA/GISPA or Trait Provider Test Kits. AgDia's Brett Roberts talked about the role of beta sites in method validation. The final presenter was Sohba Pisharody, explaining how Applied Biosystems builds quality into their enzyme products. This was followed by a question and answer session for the speakers.

Harold Armstrong
Monsanto Seed Technology Center

Bean Buddy Walk



pointed out sites along the way. Brenda informed us that caves were formed in the sandstone cliff banks along the Mississippi River. On the River further north the caves

The Bean Buddy Walk was almost rained out but a few analysts showed up to walk rain or shine. Three analysts braved the rain at 6 am Sunday morning but the analysts that waited until 7 am only encountered a few rain drops and a very pleasant stroll to Harriet Island Park. Brenda and Wendy of BioDiagnostics lead us through the Park and



that were formed were used by gangsters for their hideouts in the 1920s. Today you can take tours of the area and learn about all the gangster stories. The walk was very pleasant and a great way to start our day and the beginning of the AOSA/SCST Convention.



Donna Grubisic
MD Seed Analysis, Inc.

2008 AOSA-SCST Annual Meeting
Opening Session
ST. Paul, Minnesota
June 8, 2008

Master of Ceremonies included Michael Muggli of the Minnesota State Seed Lab and Quentin Schultz of BioDiagnostics, Inc.

Michael Stahr of the Iowa State University Seed Lab gave the invocation.

Charles Dale of the Minnesota Department of Agriculture welcomed the attendees to Minnesota. He mentioned numerous facts about Minnesota. The name Minnesota means "sky blue waters" originating from the Dakota Indians. The state has nearly 12,000 lakes. The states high and low temperature span for the year is 174 degrees. The growing period spans from 90 days in the north to 160 days in the south. Minnesota is ranked 1st in sugar beets, 1st in turkeys, 2nd in canola, 2nd in oats, 2nd in spring wheat, 3rd in soybeans, 3rd in dry edible beans, 4th in corn, 4th in sunflowers, 6th in barley, 6th in milk cows. It also has a thriving beef industry. It is his hope to have more proactive seed regulations based on mutual trust and voluntary compliance, given the scope of the tasks needed to test seeds now, and into the future.

AOSA President, Dr. Brent Turnipseed spoke on the need for AOSA to stay relevant and adapt. Throughout the 100 year history of AOSA the association has always been able to do this. He urged attendees to attend the AOSA/SCST Long Range Planning Session to provide input on whether to continue consolidation plans for the future. Since it is AOSA's 100th anniversary, he extended an offer to archive any old documents that seed labs think may be of importance. He also urged those who aren't on committees to think about serving on a committee.

SCST President, Gil Waibel spoke on the need for SCST to stay relevant. He stressed the need for all seed labs to follow AOSA rules to help reduce stop-sales. He expressed the need for more trained seed technologists. He suggested that everyone attend the open rules committee to make a more informed vote on the rules.



Affiliate Organizations were introduced and gave a brief overview of their association's work this past year. Invitations to their meetings were extended to AOSA/SCST members along with best wishes for a productive meeting here in ST. Paul, Minnesota. The following spoke at the opening session:

Association of American Seed Control Officials: Dave Buckingham
Association of Official Seed Certification Agencies: Chet Boruff
American Seed Trade Association: Leslie Cahill
Commercial Seed Analysts Association of Canada: Terry McIntee
Independent Professional Seed Association: Bill Latham
International Society of Seed Technologists: Michael O'Neil
International Seed Testing Association: Dr. Katalin Ertsey

Ethan Waltermire from the Colorado State Seed Lab gave the 2009 meeting presentation. The 2009 AOSA/SCST annual meeting will be held in Fort Collins, Colorado. The city provided a short movie about local attractions found in or near Fort Collins. The AOSA/SCST annual meeting was last held here in 1993.

Aaron Palmer
Arkansas State Plant Board

Mississippi Riverboat Dinner Cruise St. Paul, MN

On June 8, 2008, 155 people traveled either by foot or by bus to Padelford Landing on Harriet Island in St. Paul. At 6 pm we boarded the *Jonathan Padelford* Packet Boat for a pleasant cruise up a beautiful portion of the Mississippi River, which has its headwaters in the northern portion of Minnesota. The packet boat has two levels, and both indoor and outdoor seating. On board, we were treated to a delicious buffet, which included roast beef and baked walleye.



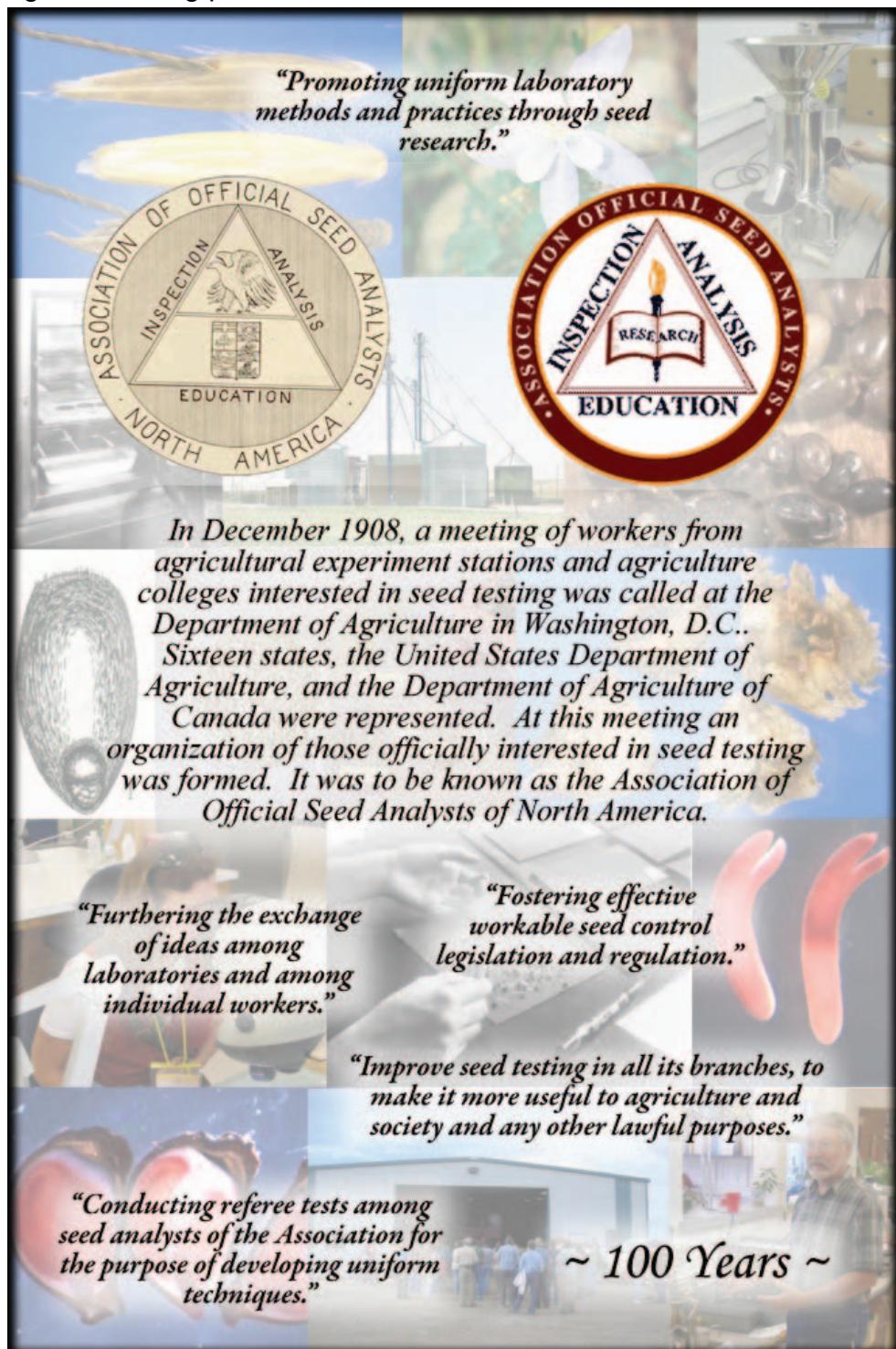
Although our entire journey was within the city of St. Paul, it was impossible to imagine that we were in a large city. Both sides of the river were lined with trees, with no buildings in sight for most of the way. We traveled upstream past the confluence of the Minnesota and Mississippi Rivers, and past the historic Fort Snelling. Along the way, we saw people fishing. We also viewed many great blue herons, egrets, a beaver, and even a bald eagle. The boat traveled as far as the Ford Lock and Dam,

where we turned around and headed back to Padelford Landing. Although we experienced some sprinkles and saw some distant lightning, the weather was mostly pleasant, and we were rewarded with a beautiful sunset.

Sue Alvarez
Seminis Vegetable Seed

AOSA 100 Centennial Lunch

AOSA celebrated its 100th anniversary as an organization with a luncheon on Monday June 9th. AOSA President Brent Turnipseed provided a history of AOSA, and a slide show of meeting pictures and other memories was shown. Special thanks go to Ethan Waltermire, AOSA Historian, for setting up a lovely historical display and to Jan Osburn for assisting in collecting pictures and other memorabilia.



Seed Issues Forum

The 2008 Seed Issues Forum was a huge success. Tables were well spaced to allow excellent interaction with the crowd. There was a free exchange of questions and comments. Several tables were set up for the joint presenters from different labs and locations. Sue Alvarez, Seminis, worked with Norma Rossel, Johnny's Select Seeds, to ensure that meeting participants had an understanding of the problems encountered with various peppers in the germination test. This was a chance for many to talk to Dr. Miller McDonald about the finalized version of the Seed Analyst interactive training DVD. Johnny Zook, Pennsylvania State Seed lab, and I, Harold Armstrong, Monsanto Seed Technology Center, were so busy explaining and answering questions about taking photos of seed and seedlings that I was not able to look at all the exhibits. I believe that there were seven tables.

The poster session is incorporated into the Seed Issues Forum. It allowed presenters an informal environment to talk about their projects. The posters were placed between most of the tables. I think that I counted eight tables.

Some of the presenters were still finalizing their set up when the first of the crowd entered the large ballroom. There was a constant stream of meeting participants circulating around the room. I noticed that there was a sufficient crowd that some people came by three times before they could get close enough to talk to the presenters. The room was constantly full for the scheduled time. The finger food trays still had food on them at when things started to slow down. The wait staff actually closed the doors while the last stragglers were still talking at the tables. The doors were finally locked and all the participants were out of the room about twenty minutes after the scheduled closing of the session.

I would urge anyone with an interesting project, problem to share, or tricks and techniques to make the analyst job more effective and timely to prepare for next years Seed Issues Forum. Solicitations for projects are announced in the newsletter at the same time that rules proposals are announced. This is like talking to another analyst, so much of the organizational problems and concerns with speaking to a large group are alleviated. Think about a presentation for next year.

Harold Armstrong
Monsanto Seed Technology Center

Como Park Tour



On Tuesday, June 10th, there was an afternoon trip to Como Park Zoo & Conservatory. About a dozen analysts and family members attended the trip. It was a little chilly so a few of us made a sweatshirt or jacket purchase at the souvenir shop! We began at the zoo, which was a small, donation only admission attraction. It seems to be very popular with the local schools because there were lots of kids enjoying the zoo, too. We spent part of the morning walking through the zoo and admiring the different animals. Right before our box lunches, we attended the Sparky the Sea Lion show and toured the blooming butterflies exhibit. The butterfly exhibit has just opened that week and was held in a tented area that was shaped like a giant caterpillar. They had a wide variety of butterflies such as the Owl Butterfly, Blue Morpho, Emerald Swallowtail and the Lacewing. After lunch we wandered over to the Marjorie McNeely Conservatory. The summer flower show was in progress at the conservatory which included an exhibit with such flowers as Salpiglossis, Roses, Begonias, Heliotropes and Oriental lilies. They were gorgeous blooms and we took a group photo here to prove we went on the trip! The conservatory also has a bonsai exhibit, tropical garden and a group favorite the Como Ordway Memorial Japanese Garden. Overall, it was a great way to spend the day and see a little more of what St. Paul had to offer.

Janice Zimmer
Kentucky Seed Laboratory

On Tuesday, June 10th, there was an afternoon trip to Como Park Zoo & Conservatory. About a dozen analysts and family members attended the trip. It was a little chilly so a few of us made a sweatshirt or jacket purchase at the souvenir shop! We began at the zoo, which was a small, donation only admission attraction. It seems to be very popular with the local schools because there were lots of kids enjoying the zoo, too. We spent part of the



STRF Auction

On Tuesday, June 10 the silent auction was held to raise money for funding STRF projects. Many people donated their talents to make the auction very successful. Items included photographs, paintings, hand sewn items, Wine bottles and accessories, handmade jewelry, books and many others. Seed analysts contributed their favorite recipes to create a cookbook (assembled by Barbara Cleave) that created quite a stir, and was sold for \$15 each.

The event raised \$2772! Thank you to everyone who contributed their time and talents!

Reprints of the cookbook will be available for \$15 plus shipping. Date of release is yet to be determined. Contact Anita Hall.

Sarah Graybill, RST
SGS Mid-West Seed Services, Inc.

AOSA/SCST Banquet

June 10, 2008 – St. Paul, MN



Gil Waibel & Dennis Tekrony

Honorary Membership Award. Annette Miller presented the Front Range Seed Analysts' Anna Lute Award to Pat Brownfield.

During the dinner celebration, Julie Gore (of Biodiagnostics) led a fundraising game for the STRF, in which participants were asked to

The 2008 annual meeting banquet was held in the Great River Ballroom in the Crowne Plaza Hotel in St. Paul, Minnesota. The banquet followed the STRF Silent Auction and social hour. Michael Thompson of Biodiagnostics was the Master of Ceremonies. The invocation was given by Kenneth Nicholas of Nicholas Seed Testing. SCST president Gil Waibel presented the SCST Meritorious Service Awards to Barbara Atkins (in absencia) and to Dave Stimpson. He also presented Dr.

Dennis TeKrony
with the SCST



Dave Stimpson & Gil Waibel



Annette Miller & Pat Brownfield

Entertainment for the evening was provided by a wonderful group of young Irish dancers from the "Scoil na dTri" Irish Dance Academy. There were a total of 15 young women (ages 6 and up) and two young boys, who performed numerous dances and even sang a couple of Irish folk tunes as well. Along with their fabulous costumes and bouncing curls, this talented group of young people was definitely the highlight of the evening.

Sue Alvarez
Seminis Vegetable Seed

contribute a dollar bill each to the collection. The participants were then asked to guess whether Jeremy Sharp (of Syngenta) would flip heads or tails on a coin. Those who guessed correctly remained standing and those who didn't were out of the game. The game continued until two participants remained out of the whole room. They were asked if they would rather go one last round or split half of the collection – they chose to split the winnings (\$35 each), and the remaining \$70 went to STRF.



100th AOSA Anniversary Lapel Pins Still Available

If you attended the annual AOSA/SCST meeting in St. Paul and did not receive a 100th Anniversary Lapel pin in your registration packet, please contact Jan Osburn at aosaoffice@sbcglobal.net.

Or, if you would like to order additional AOSA 100th Anniversary Pins, there are still some available. The cost is \$3 per pin. Shipping will vary depending on the number of pins you order: 1 pin \$2.00; 3 - 5 pins \$3.00; 6- or more \$6.00.

Jan Osburn
AOSA Executive Assistant



COMMITTEE REPORTS

Changes to the AOSA Rules for Testing Seeds

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2008 AOSA Rules Changes

Twenty-three of the 26 proposals for changes or additions to the AOSA Rules for Testing Seeds passed at the annual meeting as published in the February issue of the Newsletter or as amended prior to or at the annual meeting. The changes have been incorporated into the respective Rules documents and go into effect October 1, 2008. Updated CDs will be sent as soon as completed.

2009 AOSA Rules Change Proposals

The deadline for submission of 2009 Rules Change Proposals is **October 15, 2008**. Submissions after this deadline will not be considered. Rule change proposals must be submitted in electronic format (WordPerfect or MS Word) via e-mail or on diskette or CD to the AOSA Rules Chair. Supporting evidence should also be submitted in an electronic format (WordPerfect, MS Word or MS Excel).

Please note: Proposals submitted without following these guidelines will be returned to the author and will not be considered by the Rules Committee. Following committee review, text of the proposals will be published in the February edition of *The Seed Technologist Newsletter* for review. All proposals will be posted online, accessed via the Rules Committee webpage: (http://www.aosaseed.com/rules_committee.htm). Written comments (preferably via email) following publication may be submitted to the Rules Committee Chair.

For detailed information regarding developing and submitting proposals, please visit the AOSA Rules Committee webpage. The Rules Committee members are identified below:

<i>Member</i>	<i>Term Expiration</i>	<i>Location</i>
Cindy Finneseth, Chair	2011	Kentucky State Seed Lab

Mark Hafdahl	2011	North Dakota State Seed Lab
Joanne Hinke	2011	CFIA Saskatchewan
Patty Jackson	2009	USDA-AMS, Seed Regulatory and Testing Branch
Nancy Ashby	2010	WA Department of Agriculture
RULES COMMITTEE- Ex-officio Members		
<i>Member</i>	<i>Ex officio</i>	<i>Location</i>
Dr. Sabry Elias	Research Committee	Oregon State Seed Lab
Ken Greger	Referee Committee	Idaho State Seed Lab
Dr. Dennis TeKrony	Editorial Committee	University of Kentucky
Michael Gerdes	SCST Representative	Syngenta Seeds
Steve Jones	ISTA Rules Committee	CFIA

What is the Purpose for Rule Change Proposals?

Rule change proposals are required for changes to be made to the AOSA Rules for Testing Seeds, the Uniform Classification of Weed and Crop Seeds Contribution No. 25 to the Handbook on Seed Testing, the Seedling Evaluation Handbook Contribution No. 35 to the Handbook on Seed Testing and The Uniform Blowing Procedure Contribution No. 24 to the Handbook on Seed Testing. Changes to other documents are handled at the respective committee level.

When preparing a proposed change to the AOSA Rules, the following criteria must be met.

- The proposed method is equal to or better than one currently in the AOSA Rules.
- The proposed method is repeatable within a laboratory and among laboratories.
- The proposed method is necessary to meet the needs of seed analysts or the seed industry or regulatory agencies.

Supporting data shall be used to determine that the above criteria have been met.

Who May Submit A Rule Change Proposal?

Rule change proposals must be sponsored by an AOSA Laboratory, AOSA Committee, AOSA Subcommittee, or SCST Registered Member. Collaborations are strongly encouraged.

RULE CHANGE PROPOSAL FORMAT

PURPOSE OF PROPOSAL

PRESENT RULE

PROPOSED RULE

HARMONIZATION AND IMPACT STATEMENT

SUPPORTING EVIDENCE

SUBMITTED BY

DATE SUBMITTED

How to Complete the AOSA Rule Change Proposal Form

Detailed information regarding completion of Rules proposals is available at the AOSA Rules Committee webpage:

http://www.aosaseed.com/rules_committee.htm#RULES%20COMMITTEE

1. **PURPOSE OF PROPOSAL:** Please give a concise reason for submitting the rule proposal. If appropriate, include a financial impact statement (i.e., who and what will be affected by the proposal).
2. **PRESENT RULE:** If the rule proposal is to change or amend a present rule, please provide the wording of the present rule as it appears in the current AOSA Rules. If the proposal is a new rule, state "New Rule."
3. **PROPOSED RULE:** Please provide your proposed rule change as you would like to see it worded in the AOSA Rules. If the proposal is to add a purity testing method, the author must also submit a proposal for a germination testing method for the kind, and in addition must also provide the appropriate rule change to Handbook 25. The same is true for adding a germination method for a new species; all three areas must be uniformly addressed.
4. **HARMONIZATION AND IMPACT STATEMENT:** Does this proposal harmonize with the Federal Seed Act, Canadian Methods & Procedures, and the ISTA Rules? If not, please explain. Maintain consistency between publications and state how the proposal will impact other documents and publications (e.g., Handbook 25 or TZ handbook).
5. **SUPPORTING EVIDENCE:** If proposing a change to a current rule, the author must provide data that substantiates the change; when proposing a new rule, data must

support the test or procedure. Data collected can be completed within a laboratory or in cooperation with other laboratories. Referee projects are acceptable and encouraged and, in the case of germination proposals, required. If a referee was not conducted, an explanation as to why the proposal should be accepted without having gone through the referee process must be included with the proposal. See the online documentation for additional information.

6. **SUBMITTED BY:** Name(s) of individual(s) submitting the proposal or committee name and contact person, address, phone, fax and email address.
7. **DATE SUBMITTED:** The date of submission to the Rules Committee. If revised, the revision date must also be stated.

TZ Handbook Revision

Work on the 2010 edition of the TZ handbook has begun. The 2010 TZ handbook project objectives are:

1. Incorporate all the sets of updates since 2000.
2. Create an electronic edition that has all pages and illustrations compatible with current software.
3. Reorient all embryo drawings with radicles down and cotyledons up (when not coiled or curved).
4. Update laboratory references for each page.
5. Reformat pages/icon placements/chart placements/fonts etc. to be as consistent as possible throughout. Standardize numbering/naming system for family pages.
6. Add photos wherever possible.
7. Conduct literature search to update bibliography: need references from 1996-present.

Reviewers are needed as well as a volunteer to conduct a literature search to update our bibliography. The 2000 edition was a great jump forward for this important resource. The 2010 edition will be even better if we can all work together on it.

To volunteer or for more information, please contact:

Annette Miller, AOSA/SCST TZ Subcommittee Chair
USDA/ARS
National Center for Genetic Resources Preservation (NCGRP)
1111 South Mason St.
Fort Collins, CO 80521-4500
phone: 970-495-3240
fax: 970-221-1427
email: Annette.Miller@ars.usda.gov

GENERAL AND TECHNICAL INFORMATION

Turf-type and Forage-type Varieties of Tall Fescue

Johnny Zook
Pennsylvania State Seed Lab

In the Seed Technologist Newsletter Volume 78 No1 page 74-76, there was published a listing of turf-type and forage-type varieties of tall fescue. The list is made available to seed analysts for proper testing and labeling of tall fescue seed which is to be sold in Delaware, Maryland, Pennsylvania, New Jersey, Virginia and West Virginia.

The following is a revised list of tall fescue varieties as approved by the six states whose seed laws have special labeling requirements for tall fescue varieties. The list is not necessarily complete as new varieties are constantly being released. Additions or deletions are welcome at any time. For changes please e-mail jzook@state.pa.us .

TURF TYPE TALL FESCUE

5MN	ARROYO	BARRERA	BROOKSTON
ACCORD	ASHVILLE	BARROBUSTO	BULL
ACEQUICA	AST 7001	BARRINGTON	BULL II
ADMIRAL	ASTRO	BARTES	BULLDAWG
ADOBE	ASTRO 2000	BARUNDI	BULLDOG 51
ADORA	ATF 707	BARVADO	CAMARILLO
ADVANTAGE	ATF799	BEACON	CAMBRIDGE
ADVENTURE	ATF 806	BEAGLE	CAREFREE
ADVENTURE II	ATHENS	BEAVO	CAREFREE II
AIRLIE	AUSTIN	BENTON	CAVALCADE
ALAMO	AVALON	BILTMORE	CAYENNE
ALAMO E	AVANTI	BINGO	CHAPEL HILL
AMBASSADOR	AVANTI II	BLACK	CHESAPEAKE
AMIGO	AVENGER	BEAUTY	CHIEFTAIN
ANTHEM	AVID	BLACK MAGIC	CHIEFTAIN II
ANTHEM II	AXIOM	BLACKWATCH	CHINOOK
APACHE	AZTEC	BLADE RUNNER	CHIPPER
APACHE II	AZTEC II	BONANZA	CIMARRON
APACHE III	BAJA	BONANZA II	CLASS ACT
AQUARA	BANDANA	BONSAI	CLEMFINE
ARABIA	BARANZA	BONSAI 2000	COCHISE
ARID	BARBIZON	BONSAI 3000	COCHISE II
ARID 3	BARCELINA	BONSAI E	COCHISE III
ARID II	BARFELIX	BONSAI PLUS	CODY
ARISTOTLE	BARLEXAS	BRAHMA	COLONEL
ARIZONA	BARLEXAS II	BRANDY	COMPANION
ARRIBA	BARNONE	BRAVO	COMSTOCK

CONESTOGA	EXCALIBUR	HILLTOP	MAGELLAN
CONSTITUTION	EXPEDITION	HOMESTEAD	MARATHON
CORGI	FALCON	HOUNDOG	MARKSMAN
CORONADO	FALCON II	HOUNDOG 5	MARKSMAN II
CORONADO	FALCON III	HOUNDOG 6	MASTERPIECE
GOLD	FALCON IV	HOUNDOG II	MATADOR
CORTEZ	FATIMA	HUBBARD 87	MATADOR GT
CORTEZ II	FIDELITY	HUNTER	MAVERICK
COVENANT	FINELAWN	INFERNO	MAVERICK II
COYOTE	FINELAWN 5GL	INNOVATOR	MB 215
COYOTE II	FINELAWN 5LZ	INSIGNIA	MEDALLION
CREWCUT	FINELAWN 88	ISI 8952	DWARF
CREWCUT II	FINELAWN 8851	JAGUAR	MILLENNIUM
CROSSFIRE	FINELAWN ELITE	JAGUAR 3	2 ND MILLENNIUM
CROSSFIRE II	FINELAWN I	JAGUAR II	MERIDIAN
DARLINGTON	FINELAWN	JB-2	MESA
DAVINCI	PETITE	JT-3	MIC 18
DAYTONA	FINESSE	JT-9	MIRAGE
DEBUTANTE	FINESSE II	JUBILEE	MICRO
DEFIANCE	FIREBIRD	JUSTICE	MICRO DD
DELMARVA	FIVE POINT	KALAHARI	MINI-MUSTANG
DESIRE	FLORIDIAN	KICKOFF	MINK
DOMINION	FOCUS	KITTY HAWK	MINX
DUKE	FORTE'	KITTYHAWK 2000	MIRAGE
DUR	FORTUNE	KITTYHAWK SST	MOHAWK
DURANA	GALA	L-89	MOJAVE
DURANGO	GALWAY	LABARINTH	MONACO
DUSTER	GAZELLE	LANCER	MONARCH
DYNAMIC	GENESIS	LANCER-E	MONTAUK
DYNASTY	GLEN EAGLE	LANCER 31	MONTEBELLO
EARTHSAVE	GOOD-EN	LARAMIE	MORGAN
EINSTEIN	GQ	LEGEND	MURIETTA
ELDORADO	GRANDE	LEGITIMATE	MUSTANG
ELDORADO GOLD	GRANDE II	LEOPARD	MUSTANG II
ELISA	GRASSLANDS	LEPRECHAUN	MUSTANG 3
EMPEROR	GARLAND	LEXINGTON	MYSTIX
EMPEROR II	GREENKEEPER-	LEXUS	N.D.
EMPRESS	WAF	LF220	N-25
ENDEAVOR	GREMLIN	LINDBERGH	NINJA
ENDURE	GREYSTONE	LION	NINJA II
EQUINOX	GUARDIAN	LONGHORN	NK 82508
ERA	GUARDIAN 21	LS-1000	NOBEL
ESCALADE	HELIX	MA127	NORDIC
EVERGREEN	HERITAGE	MA158	NUICRO

OASIS	REBEL PRO	SOUTHERN	TF-66
OBSIDIAN	REBEL SENTRY	CHOICE II	THOROUGHBRED
OL' GLORY	REDCOAT	SOUTHERN	THUNDERBIRD
OLYMPIC	REGIMENT	COMFORT	TIP
OLYMPIC GOLD	REGIMENT II	SOUTHERN	TIPTON
OLYMPIC II	REMBRANDT	COMFORT II	TITAN
ONCUE	RENDITION	SOUTHLAND	TITAN 2
ONYX	RENEGADE	SPHINX	TITAN Ltd.
P58	RENEGADE II	SR 8000	TITANIUM
PACER	RESERVE	SR 8100	TOCCOA
PADRE	RICHMOND	SR 8200	TOMAHAWK
PALISADES	RIVERSIDE	SR 8210	TOMAHAWK-E
PARAISO	SAFARI	SR 8250	TOMAHAWK
PEDESTAL	SAMSON	SR 8300	GOLD
PEDASTAL II	SANTA FE	SR 8400	TOMAHAWK GT
PEGASUS	SAPPHIRE	SR 8500	TOMAHAWK RT
PENN1901	SAVANNAH	SR 8550	TOMBSTONE
PENN PRO	SAVOY	SR 8600	TOMCAT
PETITE	SCORPIO	SR 8650	TORPEDO
PHOENIX	SCORPION	SRX 8350	TOTAL
PICASSO	SCORPION II	ST. ANDREWS	TRACER
PICK 127	SDB	STAGECOACH	TRADITION
PICK ZMG	SENTINEL	STARFIRE	TRAILBLAZER
PIEDMOUNT	SERENGETI	STARLET	TRAILBLAZER II
PIXIE	SHANNON	STETSON	TRANSITION
PIXIE E+	SHELBY	STONEWALL	TRAVELER
PLANTATION	SHENANDOAH	SUCCESS	TRIBUTE
PLATO	SHENANDOAH II	SUNDANCE	TRIDENT
POLY 6-38	SHERIDAN	SUNDANCE II	TROOPER
POLY DUR	SHORTCUT	SUNPRO	TULSA
PRIDE	SHORTSTOP	TAHOE	TULSA II
PROSPECT	SHORTSTOP II	TAHOE II	TURBO
PURE GOLD	SIESTA	TALISMAN	TURNBERRY
PYRAMID	SIGNIA	TALLADEGA	UXEDO
QUEST	SILVERADO	TAOS	TWILIGHT
RAPTOR	SILVERADO II	TAR HEEL	TWILIGHT II
REBEL	SILVERSTAR	TAR HEEL II	ULTIMATE
REBEL 2000	SITKA	TAURUS	VEGAS
REBEL 3D	SIX POINT	TEMPEST	VELOCITY
REBEL EXEDA	SOLARA	TEMPO	VENANZIO
REBEL II	SOUTHPAW	TEMPO II	VERANDA
REBEL III	SOUTHEAST	TENACITY	VIRTUE
REBEL IV	SOUTHERN	TERRANOVA	VIRTUOSO
REBEL JR.	CHOICE	TF 8805	WAF

WATCHDOG
WILDCAT
WILDFIRE
WILLAMETTE

WINCHESTER
WINCHESTER II
WINDSOR
WINDSOR II

WOLFPACK
WOLVERINE
WPEZE
WRANGLER

WRANGLER II
WYATT
YOSEMITE
ZANZIBAR

FORAGE TYPE TALL FESCUE

ADVANCE	DESPERADO	HYMARK	QUANTUM
ALTA	DOVEY	JESUP	QUANTUM MAXP
ALTA II	DROVER	JOHNSTONE	QUANTUM II MAXP
ARKPLUS	EMERAUDE	KENHY	RESOLUTE
ARONDE	ENDO FREE	KENMONT	RESOLUTE II
AU TRIUMPH	ENFORCER	KENTUCKY 31	
BARCARELLA	ENHANCE	KENWELL	SAFE
BARCEL	FAWN	KOKANEE	SEINE
BARDURM	FESTIVAL	KORA	SELECT
BARELITE	FESTORINA	MANADE	SIBILLA
BARFA 6FRD	FORAGER	MARTIN	SOUTHERN
BARIANE	FRAYDO	MARTIN 2	CROSS
BAROLEX	FUEGO	MAX	STAG
BARVETIA	GEORGIA 5	MAXIMIZE	STARGRAZER
BRONSON	GLORIA	MAXQ-JESUP	STEF
BULL	GOAR	MISSOURI-96	STELLAR
BULL II	GRASSLANDS	MONTENDRE	STOCKMAN
CAJUN	ADVANCE	MOZARK	TETON
CAJUN 2	GRASSLANDS	NANRYO	TUSCANY
CARMIRE	FLECHA	OREGON 99	TUSCANY II
CATTLE CLUB	GRASSLANDS	ORYGUN	TYphoon
CHALLENGER	ROA	PENNGRAZER	YAMANAMI
COURTENAY	HIMAG	PENNINGTON	
DEMETER	HOEDOWN	63-70	
DESOTO	HOKURYO	PHYTER	

Rev. 08/2008

References:

AOSA Newsletter Vol. 60 No. 4 71-72
AOSA Newsletter Vol. 61 No. 1 99-101

Update to Ryegrass Variety Fluorescence Levels

The AOSCA National Grass Variety Review Board has published the reviewed variety fluorescence levels, certified variety name changes and OECD synonym name

additions. The VFL list created August 19, 2008, supercedes all prior reports which have been issued. The VFL list is available at:

[http://www.aosca.org/VarietyReviewBoards/NGVRB%20VFL%20list0808%20\(2\).pdf](http://www.aosca.org/VarietyReviewBoards/NGVRB%20VFL%20list0808%20(2).pdf)

The full report is available on the AOSCA website at:

<http://www.aosca.org/VarietyReviewBoards/Grass.html>

For further information or questions contact, Dennis Lundein at 541-737-4513, e-mail: dennis.lundein@oscs.oregonstate.edu, or, Neal Foster, Chair of the NGVRB at 605-688-4606, e-mail: neal.foster@sdstate.edu.

ISST Dissolution

The ISST board met on July 30, 2008 and voted to dissolve ISST as a corporation. The two remaining ISST chapters, SCST and CSAAC had voted to disband as chapter at their respective annual meetings earlier in the summer.

All dues collected by SCST for the 2008-2009 fiscal year will be reimbursed. Please note that the title 'IST' and the ISST Seal should no longer be used on reports of analysis. If you received an ISST seal this must be returned to the SCST Executive Director. Please contact Anita Hall if you have any questions.

SCST and CSAAC would like to commend and thank all the volunteers who donated their time and energy to ISST over the past eleven years.

ISST Conference Call Minutes

July 30, 2008

Present: President Michael O'Neil, Vice President Pat Brownfield, Directors Laurie Conradson, Dianne Gilhuly, Secretary-Treasurer Barbara Cleave, CSAAC Executive Director Doug Ashton, SCST President Gil Waibel and SCST Executive Director Anita Hall.

President Michael O'Neil called the meeting to order at 10:42am CDT.

I. Recall Seals

Each chapter will be responsible for contacting its members and asking them to return their ISST seals. Members will be asked to contact their chapter executive director if it will take them longer than 30 days to return the seal or to remove any electronic seals from the computer programs. Anita Hall will try to locate a list of SCST and CSAAC members that received seals and share this with Doug Ashton.

The South Africa chapter has collected and destroyed the seals they distributed to members.

II. Press release

Information will need to be sent to the International Seed Federation and other appropriate organizations announcing the dissolution of ISST. Anita Hall will draft a statement for review.

III. ISST Dissolution

Pat Brownfield moved that the current ISST funds be dispersed at current membership rates with 40% distributed to CSAAC and 60% distributed to SCST, Laurie Conradson seconded, motion passed.

Discussion:

The final books will be audited and stored at the SCST office until the dissolution is complete and will be retained for a minimum of three years.

Anita Hall will forward Michael O'Neil the dissolution form for the State of Wisconsin and Barbara Cleave will issue a check for the \$10 filing fee. Barbara Cleave will assist with filing the appropriate paper work with the IRS.

The website resources will be utilized by CSAAC and SCST, Anita Hall will send Doug Ashton a CD of the website content.

Laurie Conradson moved that ISST dissolve as a corporation and organizations, Dianne Gilhuly seconded, motion passed.

Discussion:

Anita and Doug will draft a statement for members of both chapters announcing the final dissolution of ISST.

SCST is forming an international committee with the goal of promoting RSTs and the AOSA rules internationally. Pat Brownfield will chair this committee and invited CSAAC members to join as well. Anita Hall will contact the current Canadian RSTs and invite them to participate. Michael O'Neil and Laurie Conradson volunteered to join the committee as well.

BOOKSHELF

Seed Purity & Taxonomy, Baxter & Copeland, Michigan State University Press, 2008 finally arrived, all 719 pages. This publication has been eagerly awaited since pre-release information came out in 2002. Undoubtedly this publication is well worth the price tag; however, technology has rapidly progressed since the inception of the publication. I would now expect color photographs for a publication of this cost.

I would **strongly encourage any seed lab testing natives** to add this book to your reference library. I would also encourage **analysts studying for purity to use the descriptions enclosed in conjunction with your herbarium samples** to organize your study. There is a lot of very valuable information in the publication. The price may preclude many analysts from purchasing a personal copy. If so, make sure that the lab budget will cover the cost.

Expansion of the turf trade into counter seasonal seed production has lead to analysts encountering Southern Hemisphere crops and weeds. I will be covering in the future some of the publications that may provide some help with seed identification.

The large format paperback Australian Seeds, A Guide to Their Collection, Identification and Biology, Editors: Sweedman and Merritt, CSIRO Publishing, 2006, 258 pp. is an extremely moderately priced publication for the price. Seed analysts will appreciate the **Chapter 9, Australian seeds: a photographic guide**. The 105 page chapter contains color photographs of the seeds covered. Each page covers twelve different species. Seed measurements are included with each photograph. The seeds are presented in genus order, which initially threw me because I was expecting to see the seeds by family. Some of these families are not found in the United States.

Appendix 1: Seed germination records, contains a table of time to germinate and recommended pre-treatment for germinating many of these species. Unfortunately no germination temperatures listed.

I found the chapter on Australian seeds through time fascinating. I do not ever remember viewing such exquisite photos of seed cupules and fossils. The Australian environment and isolation has lead to many unique species. Chapter 3 is titled: Seed and fruit structure. This chapter provides a different approach to seed morphology. I think that I would have analysts studying for the RST exam review this chapter for the different approach that it conveys.

There are chapters on seed biology and ecology as well as seed collection in the field that would be very helpful to anyone making a collection while in Australia. Some of the techniques carry over to the United States. Once the seed is collected you need to dry and clean the seed, there is a chapter on this subject. Seed storage and testing and Seedbank preservation of endangered species are additional chapters in this publication.

I found this publication to be: well written, very informative and an exceptional value.

Harold Armstrong, RST, IST
Monsanto Seed Technology Center

ANNOUNCEMENTS

Barbara Atkins Retirement from STA Labs

Barbara Ann Atkins began her career by attending the University of Denver, Colorado where she received a BA in Botany. Barbara continued her education at Cornell University earning a Masters in Vegetable Crops. She then went on to receive additional training from Iowa State University.

She was manager of Nebraska Crop Improvement, Applewood Seed Lab, her own lab, BA Atkins Seed Testing, and STA's Colorado Seed Lab.

Barbara became a Registered Seed Technologist in 1979 and served on the Membership, Research, Standardization and Documentation Committees for SCST. She served on the Advisory board for the Front Range Community College and High School Training Program. She is also a member of ISST having served on the executive board and as membership chair.

Barbara belonged to AOSA serving as Historian. While part of AOSA she served on the Rangegrass, Flower, TZ, and Vigor committees. She also participated in many of the critical improvements to the AOSA rules.

Barbara was one of the founding members of the FRSA where she will continue to be active even into retirement. She looks forward to spending more time with the BPOE Elks and on her hobbies of embroidery and knitting

We at STA wish Barbara the best as she enters retirement although we will miss her knowledge of seed testing and all around knowledge of the agriculture industry.

A NEW SEED TESTING LAB

MD Seed Analysis, Inc. is a new independent seed testing laboratory that opened its germinator doors on March 3, 2008 in Santa Barbara, California. The Lab performs germination and purity exams on vegetables, herbs and flowers. The MD comes from a partnership between Myrna Smith and Donna Grubisic (RST) who have a combined work experience of 42 years in seed testing. "We may not have youth on our side but we do have the wisdom to provide an excellent seed testing service", proclaimed Donna.



Donna doing purity work and using Pure Harvest



Myrna showing our new germinators

The seed testing service uses PureHarvest software that allows for same day test results through email and online tracking of the seed test from start to finish. "The use of PureHarvest has made it possible for our Lab to join the 21st century, plus it has brought report standardization with the other labs that use the software", stated Myrna. The Lab is not large but there is adequate room for all the needed equipment, even a cool location for the germinators which is a must.

Myrna and Donna are both excited about their endeavor. They find opening a business has a very big learning curve which can be challenging as well as rewarding. "In opening our seed testing lab I am able to have direct contact with customers which enables me to form a more rewarding business relationship with them", stated

Donna. Myrna also pointed out that it is much more rewarding to work hard for yourself. The Lab is in its infancy but Myrna and Donna are positive that success in the business is in the near future.

MD Seed Analysis, Inc.
Mailing Address:
P.O. Box 40335
Santa Barbara, CA 93140

Shipping Address:
123 N. Salinas Street
Santa Barbara, CA 93103

805-962-0739 (phone)
805-962-0927 (fax)

Email:
mdseedanalysis@verizon.net

Donna Grubisic
MD Seed Analysis, Inc.



Donna checking on the Lab's finances

SGS North America, Inc. announces new seed testing laboratory

SGS North America, Inc. Agriculture Services Division opened a new seed testing facility at its Memphis facility. The new SGS Seed Laboratory manager is David Johnston. David is originally from SE Missouri and is very excited to get back to his home area. He is a Registered Seed Technologist (RST) with the Society of

Commercial Seed Technologists organization and has over 25 years of experience in performing numerous tests on a wide variety of seed kinds.

Johnston was born and raised in rural Southeast Missouri and brings over 25 years of seed testing knowledge and experience to the organization. He is a Registered Seed Technologist (RST) and has a broad range of practical experience performing various tests on agricultural, turf, native species, vegetable, and flower seed. Johnston formerly served as a Certified Seed Analyst (CSA) at the Missouri Dept. of Ag. Seed Lab for over five years and the Michigan Dept. of Ag. Seed Lab for over 20 years. Along with his seed testing knowledge, Johnston also has college degrees in Agri-Business and in Business Administration.

David M. Johnston, RST
Seed Lab Manager
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SGS Opens New Seed Testing Laboratory in Winnipeg, Manitoba

SGS is pleased to announce the opening of their newest laboratory in the North America Agricultural Services network. The lab is located in Winnipeg but it will service all of Canada through their many offices in Saskatchewan, Alberta, British Columbia, Ontario and Quebec.

The new seed lab is managed by Glen Green, former owner of Green Seed Lab in Winnipeg, Manitoba.

Glenn Green
Seed Laboratory Manager Winnipeg
SGS Canada Inc
103-138 Portage Ave. East
Winnipeg MB. R3C 0A1
Phone: (204) 257-2299
FAX: (204) 257-2321
Email: greenseedlab@shaw.ca



STA California Moves To New Facility

STA Laboratories is pleased to announce the relocation to a new facility in Gilroy, California. The facility located on Holsclaw Road greatly expands our lab and greenhouse space.

The buildings and greenhouses are modern and more efficient than our previous location. This will allow STA to keep pace with increased demands from our seed and plant testing services clients.

May 1, 2008 was our official move in date. The staff is very excited about our new location where our business will have room to grow. We will continue to monitor mail at our previous location for those samples that may not have been forwarded.

We welcome our clients to drop by and visit our new site at 7240 Holsclaw Road, off of Highway 152 in Gilroy, CA 95020. Our contact numbers remain the same.

Phone: 408-846-9964 Fax: 408-846-9954



2008 North East Seed Analysts Workshop Reminder

The North East Seed Analyst Workshop will be held in Harrisburg Pa on Wednesday, October 8 and Thursday October 9, 2008. The Thursday session will be a half day session. The workshop announcement can be found at:
<http://www.aosaseed.com/docs/2008-NESAW.pdf>.

Attending this workshop will earn an analyst 3 points towards the education credits required to maintain certification. The points earned are 1 point for each half day session (3 hours). Tentative agenda items include a hands on separation of meadow

fescue, tall fescue and ryegrass. We are also planning another virtual germination practical examination.

We are now seeking other items that you would like to see on the agenda and we need people willing to make presentations. This workshop is only as good as those people willing to make a contribution. You can contact me with suggestions and ideas at jgarvey@state.pa.us.

Joe Garvey
Seed Program Supervisor
Pennsylvania State Seed Laboratory

SGS Mid-West Seed Services, Inc. Seed Sampler Training Workshop
September 24-25, 2008
Brookings, SD

SGS Mid-West Seed Services, Inc. (SGS MWSS) announces a seed sampling workshop to be held in Brookings, SD, on September 24-25, 2008. ISTA, AOSA and CFIA sampling rules will be reviewed, as will sampling methods, sealing seed lots, subdividing samples and a review of ISTA certificates. Participants completing the workshop will be taking the first step towards accreditation to sample for ISTA certificates. This workshop is an excellent education experience for anyone sampling seed, regardless if it will be exported or not. Milt Haugen, Croplan Genetics, participated in a seed sampling workshop and suggests “To do justice to your customer and your company’s product, everyone should attend a sampler workshop.”

The session will begin at 8:00 a.m. on September 24th and conclude at noon on September 25th. The workshop will be held at SGS Mid-West Seed Services, Inc. Please see our website, www.mwseed.com, or contact us at 605-692-7611 for more details.

Principles of Seed Testing DVDs
Developed by Ohio State University and Dr. Miller McDonald

SCST is pleased to announce the availability of a unique new training product: Principles of Seed Testing DVDs. This set of four DVDs is a comprehensive review of the most common techniques used by seed analysts to assess seed quality. Text, figures, animations, and videos are used to effectively explain each testing procedure, which makes this collection unique and valuable for training and education of seed analysts as well as others interested in the techniques of seed testing.

Visit the SCST website to view 2-3 minute previews of the DVDs:
<http://www.seedtechnology.net/DVDs.htm>

Principles of Seed Testing - Volume I: Importance of Seed Testing

- Importance of Seed Testing	(15 min)
- Seed Identification	(26 min)
- Seed Sampling	(13 min)
- Seed Moisture Testing	(29 min)
- Seed Testing Tolerances	(15 min)
- Seed Pathology	(30 min)

Principles of Seed Testing - Volume II: Seed Quality Testing

- Physical Purity	(42 min)
- Germination	(88 min)
- Seed Vigor	(11 min)

Principles of Seed Testing - Volume III: Tetrazolium Testing

- Tetrazolium	(95 min)
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Principles of Seed Testing - Volume IV: Genetic Purity Testing

- Traditional Genetic Purity	(9 min)
- Herbicide Trait Testing	(10 min)
- Electrophoresis	(28 min)
- Enzyme Linked Immunosorbent Assay (ELISA)	(14 min)
- Polymerase Chain Reaction (PCR)	(18 min)

Principles of Seed Testing DVDs Order Form

Publication	Cost	No.	Total
Principles of Seed Testing - Volume I: Importance of Seed Testing	\$70		
Principles of Seed Testing - Volume II: Seed Quality Testing	\$70		
Principles of Seed Testing - Volume III: Tetrazolium Testing	\$70		
Principles of Seed Testing - Volume IV: Genetic Purity Testing	\$70		
Complete Four Volume Set	\$200		
Shipping:	\$5		
Shipping rates: \$5 for USA and Canada, \$10 for international orders- up to 12 DVDs. For bulk orders contact Anita Hall for shipping rates.		TOTAL DUE	

Billing Address
Shipping Address:

Name/contact:	Name/contact:		
Agency or Company:	Agency or Company:		
Address:	Address:		
City, State, Postal Code:	City, State, Postal Code:		
Phone Number:	Fax Number:	Phone Number:	Fax Number:
Email Address:	Email Address:		

Payment methods: **Checks** should be made payable "SCST" or "Society of Commercial Seed Technologists" (US funds only), **Credits Cards:** Visa and Mastercard only

Credit card number:	Expiration date:
Card issued to (name on card):	CID# (three digit code on signature line of card)

(a 3% processing fee will be added to all credit card transactions)

Please send order and payment to:

SCST

101 East State St., PMB #214

Ithaca, NY 14850

Email: SCST@twcny.rr.com, Phone/fax #607-256-3313

Questions? Contact Anita Hall, SCST Executive Director

Seed Production DVDs
Developed by Ohio State University and Dr. Miller McDonald

SCST is please to announce the availability of three CDs detailing seed production practices.

Seed Production in Brazil

Brazil is noted for its ability to produce high quality coffee and tropical grass forage seeds that are marketed around the world. How they successfully accomplish this task is the subject of this production. This DVD includes seed production practices for coffee, *Panicum maximum*, and *Brachiaria* spp.

The coffee presentation includes the following:

- Choosing trees
- Harvesting
- Seed Processing (washing, peeling, fermentation)
- Seed Drying and Storage
- Seed Germination Testing
- Tetrazolium Chloride Testing
- Producing Coffee Seedlings
- Greenhouse Production

The *Panicum* and *Brachiaria* presentations emphasize the advantages and disadvantages of different harvesting alternatives, along with a presentation of the seed cleaning and quality evaluation procedures.

Duration: approximately 30 minutes

Hybrid Maize Seed Production

This DVD is a comprehensive presentation of hybrid maize seed production in the heart of USA's Corn Belt. The film highlights the principles and practices of this important activity in today's agriculture, showing how state of the art technologies and machineries are used in high quality hybrid seed production.

Duration: approximately 46 minutes

Sunflower Seed Production in Chile

This DVD is a comprehensive presentation of certified sunflower seed production for export in the central zone of Chile. The film highlights the advantages of producing seeds in this area and reviews each of the production steps from seed receipt and field selection to harvest, cleaning, and shipment.

Duration: approximately 47 minutes

Seed Production DVDs Order Form

Publication	Cost	No.	Total
Hybrid Maize Seed Production	\$70		
Sunflower Seed Production in Chile	\$70		
Seed Production in Brazil (DVD includes Spanish, English & Portuguese versions)	\$70		
Complete Three Volume Set	\$150		
Shipping:	\$5		
Shipping rates: \$5 for USA and Canada, \$10 for international orders- up to 12 DVDs. For larger bulk orders contact Anita Hall for shipping rates.		TOTAL DUE	

Billing Address		Shipping Address:	
Name/contact:		Name/contact:	
Agency or Company:		Agency or Company:	
Address:		Address:	
City, State, Postal Code:		City, State, Postal Code:	
Phone Number:	Fax Number:	Phone Number:	Fax Number:
Email Address:		Email Address:	

Payment methods: Checks should be made payable "SCST" or "Society of Commercial Seed Technologists" (US funds only), **Credits Cards:** Visa and Mastercard only

Credit card number:	Expiration date:
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Questions? Contact Anita Hall, SCST Executive Director



Agenda for the U.S. Accredited Seed Grader Training Workshop

Tuesday October 28, 2008

8:00-8:15 Introduction and Overview of the Program

8:15-9:15 Review of Canadian and U.S. Documents (*Tabs 1 & 2*)

9:15-10:00 Review of Grading Process (*Tab 2*)

10:00-10:15 Break

10:15-11:30 Review of Grade Tables I-VI* (*Tab 3*)

11:30-12:00 Lunch

12:00-1:00 Review of Grade Table VII (*Tab 4*)

1:00-1:45 Review of Grade Tables VIII-X (*Tab 5*)

1:45-2:30 Review of Grade Tables XI-XII (*Tab 6*)

2:30-2:45 Break

2:45-3:30 Review of Grade Tables XIII-XV (*Tab 7*)

3:30-4:15 Review of Grade Tables XVI-XX (*Tab 8*)

4:15-4:30 Summary and Questions

*All Reviews of Grade Tables include grading exercises

The examination for the U.S. Seed Grader will be given Wednesday October 29, 2008 from 8-4:30 PM. I will be in the office from 7-8 AM for those who have questions or would like to start the test early in order to leave early. The examination usually takes 6+ hours if all areas of the test are taken. Some individuals have finished the test in as little as 4 hours.

Registration information can be found at: <http://www.seedtechnology.net/workshops.htm> or <http://www.aosaseed.com/workshops.htm>

CALENDAR

2008

September

24-25 SGS Mid-West Seed Services, Inc. Seed Sampler Training Workshop Brookings, SD. Information: www.mwseed.com or 605-692-7611.

October

8-9 North East Seed Analyst Workshop. Pennsylvania Dept. of Agriculture Seed Program, Harrisburg PA. Information: <http://www.aosaseed.com/docs/2008-NESAW.pdf> or contact Joe Garvey (jgarvey@state.pa.us or 717-787-4843).

2009

May 30-June5, 2009 AOSA/SCST Annual Meeting, Ft. Collins, CO. Information: www.aosaseed.com.

June 15-18 - ISTA Annual Meeting 2009, Zurich, Switzerland. Information: www.seedtest.org

2010

June 16-22 - 29th ISTA Congress 2010, Cologne, Germany. Information: www.seedtest.org