SUGGESTIONS TO CONTRIBUTORS TO THE
JOURNAL OF SEED TECHNOLOGY

General Requirements. Articles should be original reports covering some area of seed science and technology not previously or simultaneously published in any other scientific or technical journal. Three kinds of articles may be considered for publication: (1) research papers, (2) brief communications covering new techniques or developments, and (3) review articles by special arrangement with the editor.

Page Charges. Eight pages of each article accepted will be printed free of charge. Page charges in excess of eight pages will be based on the actual printing costs.

Manuscripts. The manuscript must be typed on good-grade bond paper approximately 21 x 28 cm. The lines of type must be numbered on each page. Two carbon or xeroxed copies, also on line-numbered paper, are required. The entire manuscript must be double spaced. Each table must be typed on a separate sheet. An Abstract and list of Additional Index Words must be included at the beginning.

Order. Assemble the manuscript in the following order: Title (no separate title page), Author(s), Abstract, Additional Index Words, Text, Literature Cited (begin on a new page), Table, Captions for Figures (begin on a new page), and Figures. Although the text is most commonly divided into the following sections: Introduction, Materials and Methods, Results and Discussion, and Acknowledgements, the specific arrangement for articles submitted to the Journal of Seed Technology will vary. Place headings in the center of the page and capitalize throughout. Begin the subsection headings at the left hand margin (do not indent), capitalize the first letter, underline, and follow with a period. Begin the first sentence on the following line with the first word indented five spaces. Do not include a summary or list of conclusions.

Numbers. Use arabic numerals for all number with two or more digits and for all measurements such as time, weight, or degrees except when the number is the first word in a sentence. Spell out numbers when they are the first word in a sentence or when they are less than 10 and not measurements, except when in a series in which one figure has two or more digits.

Authors(2). Place the name(s) of the author(s) in full caps below the title and footnote with a superscript arabic two (2). In listing the authors, do not leave a space between the period after each initial and the next letter. Give the place where the study was conducted and the title and address including the zip code of each author in footnote two at the bottom of the page.

Footnotes. Footnotes are numbered consecutively and typed at the bottom of the pages. Number 1 should contain identification of the article or research project. It includes the “date received” supplied by the editor. Number 2 identifies the author(2).

Table. Tables are numbered consecutively. Use the following symbols for
footnotes, in this order, a, b, c, d, etc. Use asterisks (*, **, etc.) to indicate statistical significants (5%, 1%, etc.). Do not duplicate matter that is presented in charts or graphs.

Figures. Photographs for half-tone reproduction should be glossy prints with good dark and light contrast. Prepare drawings for graphs and charts with India ink on white drawing paper or blue tracing cloth. Typewritten matter should be avoided on graphs and charts. Label each figure with name of author, title of author, and number of figure. Do not use figures which duplicate matter presented in tables.

Style Manual. The Style Manual for Biological Journals prepared by the Committee on Form and Style of the Council of Biology Editors and published by the American Institute of Biological Sciences (AIBS) shall be followed for writing papers submitted to the Journal of Seed Technology.

Abbreviations. Use standard abbreviations listed in the AIBS Style Manual without definition. Other abbreviations should be defined at first usage and may be used thereafter without further definition. State names should be abbreviated following city names, using the two letter abbreviations of the U.S. Post Office Department.

Nomenclature. The Latin binomial or trinomial and authority must be shown for all plants, insects, and pathogens at first listing (in title, abstract, or text). Crop varieties should be identified by single quotations marks at first listing only, e.g., ‘Ranger’ alfalfa (Medicago sativa L.) or Medicago sativa L. ‘Ranger’; Bothriochloa ischaemum var. songarica (Bupr.) cel. et Harl, ‘King Ranch.’

Units of Measure. Metric units must be used for all measurements.

References. All citations whether to published literature or to unpublished work are to be listed alphabetically by senior authors at the end of the manuscript. Citations to published works should include names of all authors, the year, complete title, publication, volume number, and inclusive pages, as appropriate.


Vol. 3, No. 2 of the Journal of Seed Technology was printed with the wrong year (1979) printed at the top of every second page. The year (1978) appearing on the cover and title page was correct as printed.

Subscription Information

Subscription information to the Journal of Seed Technology (JOST) may be obtained by writing to the Secretary-Treasurer, Association of Official Seed Analysts (AOSA). Back issues to the JOST, as well as other AOSA publications are also available.

Dr. Charles C. Baskin
Secretary Treasurer
Association of Official Seed Analysts
Mississippi State Univ.
P. O. Box 5425
Mississippi State, MS 39762
ASSOCIATION OF OFFICIAL SEED ANALYSTS
OFFICERS AND COMMITTEES FOR 1978–79

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Vice President .................................................. A. L. Larsen
Secretary-Treasurer ............................................. C. C. Abbott

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79
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MINUTES OF THE ASSOCIATION OF OFFICIAL SEED ANALYSTS MEETINGS

Sixty-Ninth Annual Meeting

Saskatoon, Saskatchewan

June 18-23, 1979

EXECUTIVE BOARD MEETING

June 18, 1979

The AOSA Executive Board Meeting was called to order by President J. C. Delouche at 10:20 a.m., Saturday, June 16, 1979; recessed for lunch at 12:15 p.m., re-convened at 1:30 p.m., recessed again at 6:15 p.m., and re-convened again at 9:30 p.m., after the SCST President's Coffee Hour. The June 16th meeting adjourned at 11:50 p.m. A second meeting of the Executive Board was convened at 3:30 p.m., June 18. Final adjournment was at 5:30 p.m.

Board Members Present

J. C. Delouche  A. L. Larsen  C. C. Abbott
J. A. Bloodgood  A. B. Ednie  R. Marx

Observers Present

E. W. Belcher  R. Danielson  W. N. Rice
F. W. S. Dale  P. Hall  G. Spain
W. Ditmer  W. M. Lowry  D. V. Baxter
E. E. Hardin  J. F. Harrington  W. R. Vaughan
D. W. Lambert

The Minutes of the Executive Board Meeting held in Lincoln (June 10 and 13th, 1978) were read and approved. The Secretary-Treasurer's Reports had to be postponed until June 18th, because the records were being held in customs.

President Delouche made the following committee appointments:

Resolutions  .....................  E. E. Hardin, Chairperson
George Spain
E. W. Belcher

Auditing  ..........................  Charles Baskin, Chairperson
Pat Mulligan
Dwight Lambert

President Delouche reviewed the Executive Board actions since the 1978 meeting. The Board observed a period of contemplation in memory of Peter Grainger, Executive Board Member, who died December 7, 1978.
Reports of Standing and Special Committees were presented, discussed, and approved for presentation at the Association Meeting, June 21.

Motions were made and approved as follows:

1. That, as a matter of Policy, Associate Member dues be periodically adjusted to a level adequate to recover the costs of publications received by them.
2. That the annual dues for Associate Members be set at $25 per year.
3. That the dues of Member Laboratories be increased to $60 per year.
4. That the number of Newsletters per year be reduced from four to three issues with publication dates of February, May and September.
5. That Contribution No. 31 to the Handbook on Seed Testing (Radiographic Analysis of Agricultural and Forest Tree Seeds) be priced at $15 per copy.
6. That the revision of Contribution No. 24 to the Handbook (Uniform Blowing Procedures) be priced at $3 per copy.
7. That $1,000 be budgeted for reprinting of the Tetrazolium Testing Contribution to the Handbook, the supply of which is exhausted.
8. That the Sand Test Contribution to the Handbook be reviewed to determine its suitability for reprinting. (SSB-Seed Biology Unit)
9. That $1,000 per year be budgeted to partially defray the expenses incurred by designated representatives of AOSA in attending meetings of allied associations and organizations.
10. That Norah Vankleeck and Helen Allman be accepted for Honorary Membership.
11. That the Board recommend acceptance of Norman W. Hopper, for Associate Membership.
12. That the Association accept the invitation from Florida to meet there in 1981.
13. That the Association continue its support of CAST.
14. That the price of Volume 3, No. 1, of the JOST be $9.
15. That the selection of the recipient of the Merit Award be accepted.
16. That the Membership Committee continue its study of membership categories and the requirements for each.
17. That resolution be drafted and adopted by the Association requesting that the designated U.S. representatives to ISTA keep AOSA informed on issues to be discussed at the 1980 ISTA meeting, and provide an opportunity for input from AOSA in the formulation of the U.S. position on the issues.

The second meeting of the Executive Board convened at 3:30 P.M., June 18, 1979 and adjourned at 5:30 P.M.

The reports of the Secretary-Treasurer were received and accepted.
The Budget Committee report was discussed and the budget adopted.
The Executive Board has reviewed problems arising from the implementation of the new testing methods adopted for Bouteloua gracilis, B. curtispendula, and Schizachrium scoparium at the Amherst meeting in 1977, effective October 1, 1977.

In view of the discrepancy in the pure live seed reduction for B. gracilis as projected by the AOSA Subcommittee on Rangegrass Analysis and data
presented by rangegrass seedsmen at the November 18, 1978 meeting in Denver, Colorado, the AOSA Executive Board presents the following motion to the Association:

The Executive Board moves that *B. gracilis* be tentatively excluded from section 2.7 g (1) in the AOSA Rules For Testing Seeds as published in Volume 3, No. 3 of the Journal of Seed Technology for a period not to exceed the date of the close of business at the 1981 AOSA meeting, after which this exclusion will expire unless sufficient evidence is provided to the AOSA Rules Committee to justify a permanent change in the testing procedure for *B. gracilis*. It is further moved that the effective date of this action be July 1, 1979.

Charles C. Abbott, *Secretary-Treasurer*

**ASSOCIATION MEETING**

*June 21, 1979*

Saskatoon, Saskatchewan

The sixty-ninth annual business meeting was called to order by President James C. Delouche at 1:36 p.m. in the Sheraton Centre of the Hotel Sheraton-Saskatoon. The Roll Call was taken by the Secretary and the following member laboratories were recorded present:

**CANADIAN LABORATORIES-4**

- Plant Products Seed Laboratory, Winnipeg, Manitoba
- Seed Biology Laboratory, Ottawa, Ontario
- Plant Products Seed Laboratory, Saskatoon, Saskatchewan
- Extraction Plant & Seed Laboratory, Edmonton, Alberta

**USDA LABORATORIES-4**

- Federal Seed Laboratory, Sacramento, California
- National Seed Storage Laboratory, Fort Collins, Colorado
- Eastern Tree Seed Laboratory, Macon, Georgia
- Seed Standardization Branch Laboratory, Beltsville, Maryland

**STATE LABORATORIES-32**

- Alaska
- Arkansas
- California
- Colorado
- Florida
- Georgia
- Illinois
- Indiana
- Kentucky
- Louisiana
- Massachusetts
- Michigan
- Minnesota
- Mississippi State Lab.
- Mississippi Seed Tech. Lab.
- Missouri, Columbia
- Missouri, Jefferson City
- Montana
- New Jersey
- New Mexico
North Carolina  South Dakota
North Dakota  Texas
Ohio  Utah
Oklahoma  Virginia
Oregon  Wisconsin
Pennsylvania  Wyoming

(Representatives of some states such as Nebraska and New York left early and were not represented at the business meeting.)

ASSOCIATE MEMBERS-4

C. C. Baskin  J. F. Harrington
C. M. Hanson  Miller MacDonald

C. C. Baskin and A. B. Ednie were appointed by the President to act as Parliamentarians.

The Minutes of the two meetings of the Executive Board were presented by Vice President Larsen and accepted. Motions for the approval of raising of the annual dues to $60 for Member Laboratories and $25 for Associate Members were passed. A motion to exclude *Bouteloua gracilis* from Section 2.7 g (1) of the AOSA Rules for Testing Seeds for a period of two years (until the close of the annual meeting in 1981) and to mark analysis reports of this seed, “Hand Method” was passed.

Norah van Kleeck and Helen Allman were accepted for Honorary Membership and Norman W. Hopper for Associate Membership.

The reports of the Secretary-Treasurer were approved and the report of the Auditing Committee, presented by the Chairperson Baskin, was accepted.

Reports of the following standing committees, special committees and subcommittees were presented and accepted:

**Standing Committees**

- Editorial
- Science Education
- Liaison
- Referee
- Newsletter
- Bibliographies
- Membership
- Research Rules
- Handbook
- Legislative
- Public Service

**Special Committees**

- Budget
- C.A.S.T.
- Constitution
- Necrology
- Meeting Place
- S.S.B. Advisory
- Merit Award
- Nomenclature
- Program
- Resolutions
- Teaching & Training
- Accreditation of Laboratories
- AOSA Symposium
- Administrative Procedures
- Secretary’s Work-Load
The recommendation by the Research Committee that a Red-Hard Fescue Subcommittee be established and a Pathology Studies Subcommittee also be established was accepted.

The Necrology Committee report announced the passing of Jessie L. Anderson, Peter N. Grainger, Olive Kelk and Albina F. Musil. A moment of silence was observed in their memory.

"Buddy" Vaughan, Chairman of the Meeting Place Committee announced that Florida had extended an invitation for the 1981 meeting which probably will be held near Orlando. Texas will host the 1982 meeting in San Antonio and the invitation to Alaska is still open. Mark Johnson announced that the Eddie Webster Inn in Des Moines would be our headquarters in 1980 with the Executive Inn just across the street taking the over-flow.

The Merit Award Committee chose Ed Hardin for that honor.

Under old business, the proposed labeling for coated seed by the Southern Seed Control Officials Association was discussed and with assurances that the Coated/Pelleted Seed Subcommittee would have no disagreement, President Delouche reported to the Legislative Committee our support of the proposal.

The report of the Nominations Committee showed C. C. Abbott elected Vice President with Dr. A. L. Larsen automatically moving up to President. Dr. C. C. Baskin was elected Secretary-Treasurer; Gail Fenderson and Loren Wiesner to the Board of Directors for three-year terms and Walter Westrin to the Board for a one-year term.

Dr. Arnold Larsen accepted the gavel and office of President along with the congratulations of the assembled members. He spoke briefly of the needs of the Association and listed his committee appointments.

The meeting adjourned at 4:50 p.m.

Charles C. Abbott, Secretary-Treasurer

SECRETARY’S REPORT

A Secretary’s Report should be just that and no more, but combining with it the duties of Treasurer and “Custodian of Publications” and including them helps make this report much more impressive. One might say that publications aren’t everything, but certainly they were close to it. We distributed four issues of the Journal this year compared to one last year. We published a new edition of the Rules compared to none last year. Our expense figure this year was three times that of last and orders filled were 714 this year compared to 548 last year.

The filling of many orders was often delayed because there was not enough hours in the day. My only help was that hired outside to type invoices. Supervising a small laboratory and inspection staff is easy when no one else appreciates what you should be doing and this made it possible to absorb most of the work, although it was not carried on as well as I would have liked.
There was a sizeable amount of correspondence relating to the Journal by subscribers wanting to know why they had received Volume 3, No. 3 (Rules) and not Volume 3, Nos. 1 or 2. This required letters of explanation. I had many requests from school counselors for the pamphlet explaining the work of seed analysts which usually were returned with a cryptic “Out of Print” memo.

I have revamped the price list of current publications and added to it the Beltsville inventory which Dwight Lambert was good enough to prepare for me. Dwight, incidentally, has been most cooperative in helping me fill orders from the Beltsville storage.

The greatest headaches have come from subscription agencies and from some foreign subscribers who insist on proforma invoices or paying in advance for publications. They often pay the wrong amount and that takes time to correct. Let me suggest that the Association is happy to supply what we can and glad to get the money, but when you do pay in advance, please send the correct amount.

As is customary, I sent invitations to our Honorary Members and I have received several replies expressing regrets about not being able to attend and also, a couple of notifications of the passing away of members.

I am winding up a three year term during which time I have often felt inadequate. I am joyfully anticipating turning the job over to my successor and I know he will manage it much better than I did.

C. C. Abbott, Secretary-Treasurer

TREASURER’S REPORT
June 1, 1978–May 31, 1979

Cash on Hand, June 1, 1978  $ 16,706.26

Receipts:
Dues, Active ........................ $ 3,200.00
Dues, Assoc. ........................ 75.00  3,275.00
Publications:
   Handbook ........................ 692.29
   News Letter ....................... 1,887.00
   Journal ........................ 4,398.75
   Rules ........................ 3,213.50  10,191.54
Interest:
   C.D. ........................ 815.15
   Savings ........................ 179.21  994.36
Miscellaneous:
   A.I.B.S. Dividend ................ 11.00
   Postage ........................ 7.59
   1978 Meeting ..................... 2,479.94  2,498.53
TOTAL RECEIPTS:  $33,665.69
Total Disbursements: $27,751.64

Cash:
- Checking account: 2,646.51
- Savings account: 3,171.27
- Savings account: 63.77
- Petty cash: 32.50

$33,665.69

**Cash Disbursements:**

**Publications:**
- Rules: $7,453.97
- Handbooks:
  - Uniform Blowing: 382.10
  - Tree Seed: $2,978.70

**News Letter:**
- (52-3): 729.00
- (52-4): 809.50
- (53-1): 534.00
- (53-2): 828.00

**Journal:**
- (1-2): 2,863.28
- (2-2): 2,086.60
- (2-1): 3,092.15
- (3-1): 2,193.15

$10,235.18

**Typing:** 208.50

**Postage:** 1,659.26

**Office Assistance & Supplies:** 130.08

**Office Postage:** 731.04

**Miscellaneous:**
- NASDA Reg’n: 50.00
- Pelleted Seed Report: 3.18
- Vigor Comm: 110.28
- Bond: 25.00
- Meeting Advance: 500.00
- CAST dues: 140.00
- ASA book exhibit: 55.00
- Exchange rate: 3.35
- Returned Publications: 25.50

$912.31

**TOTAL DISBURSEMENTS** $27,751.64

Charles C. Abbott, Secretary-Treasurer
RESOLUTIONS COMMITTEE

I. WHEREAS the 69th Annual meeting of the Association of Official Seed Analysts will always remain a memorable occasion for all participants and

WHEREAS sincere and personable efforts of all of our Canadian hosts has made this session most productive and enjoyable

BE IT RESOLVED that the secretary be instructed to send letters of appreciation to a list provided by Mr. Bill Dale of those who contributed toward this successful meeting.

II. WHEREAS the Association of Official Seed Analysts has interests in all species of seed and all aspects of seed evaluation and

WHEREAS the Association is the vehicle to inform and represent the interests of all political subdivisions of the United States and organization subdivisions of Canada and

WHEREAS the Association of Official Seed Analysts has an intense interest in the issues before the International Seed Testing Association

BE IT RESOLVED that the United States, Canadian and AOSA representatives to ISTA establish a formal communication to coordinate the AOSA interests in the inputs and reports of the 1980 and future ISTA meetings.

BE IT ALSO RESOLVED that the AOSA interests be considered in the positions taken by these representatives.

BE IT ALSO RESOLVED that the Secretary-Treasurer of the AOSA forward a copy of this resolution to each representative.

III. WHEREAS AOSA has been benefited by the reprinting and distribution of Handbook 219

BE IT THEREFORE RESOLVED that AOSA express its appreciation by letter to the Director of the Seed Standardization Branch and to further advise him of the continuing interest in the reprinting of Handbook 30.

IV. WHEREAS the U.S. Forest Service has unselfishly contributed to the production of AOSA Handbook No. 31 (Radiography Analysis of Agriculture and Forest Tree Seeds) and

WHEREAS through their assistance in publication additional copies where obtained

BE IT RESOLVED that the secretary of AOSA send a letter of appreciation to John Vance, Area Director of USDA Forest Service, 1720 Peachtree NW, Atlanta, GA.

E. E. Hardin, Chairperson
Two issues of the *Journal of Seed Technology* were printed during the past year. A third issue is presently in publication and should be distributed about July 1, 1979. One issue (Vol. 3, No. 3) included the new (1978) version of the "Rules for Testing Seeds" as developed by the Rules Committee and with major input by Dr. Robert Gunn, Chairman of the Nomenclature Committee.

Six hundred copies of the *Journal of Seed Technology* (Nos. 1 and 2) were printed and mailed to the following:

<table>
<thead>
<tr>
<th>No. Copies</th>
</tr>
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<tr>
<td>AOSA member laboratories</td>
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<tr>
<td>AOSA associate members</td>
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<tr>
<td>ISTA stations (other than U.S. and Canada)</td>
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<tr>
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<td>U.S. subscriptions</td>
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<tr>
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</table>

Five AOSA publications were sent for display in the Book Exhibits at the American Society of Agronomy meetings in Chicago in December 1978.

L. O. Copeland, *Editor*

**BIBLIOGRAPHER**

Since my last report, I have listed a total of 341 papers that dealt with some phase of seed science. These papers were classified as follows:

<table>
<thead>
<tr>
<th>Category</th>
<th>Number</th>
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<tbody>
<tr>
<td>Seed Physiology and Biochemistry</td>
<td>267</td>
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<td>Seed Pathology</td>
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<td>Identification of Cultivars and Species</td>
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<td>Seed Anatomy &amp; Morphology</td>
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<td>Methods</td>
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**Total:** 341

Martin M. Kulik, *Bibliographer*
HANDBOOK EDITOR

Two handbooks were made available this year. The first is a new Handbook 31 entitled “Radiographic Analysis of Agricultural and Forest Tree Seeds” which was prepared for the Seed X-Ray Technology Committee of the Association of Official Seed Analysts by Earl Belcher (Chairperson) and J. A. Vozzo. This Handbook took about four years to prepare and should be a worthy contribution to AOSA literature. The Handbook has detailed instructions on the technology of estimating the soundness of seed by X-ray analysis. The text contains over 200 excellent radiographs of seeds along with detailed interpretations of seed conditions exposed by the radiographs. There were 500 copies made at the cost of $2,978.70. This cost should not be difficult to recover.

The second was a revised edition of Handbook 24 with the new title of “The Uniform Blowing Procedure” by L. E. Everson, Patricia W. Morgan, and Bette Nelson. The original version was concerned with Kentucky bluegrass only. With the development of a uniform blowing procedure for Canada bluegrass, rough bluegrass, orchardgrass and Pensacola bahia-grass, Handbook 24 was expanded to include the additional species. The Handbook was exposed to two years of rigorous review before being printed. There were 500 copies made of this useful Handbook at a cost of $382.10.

Arnold L. Larsen, Handbook Editor

NEWSLETTER EDITOR

The Newsletter has only had response from nine member laboratories, twelve committees, nineteen technical or semi-technical articles and two bibliographies which made up the bulk of the materials printed this past year.

Printing and paper costs are expected to rise approximately 5 to 10 percent over the next year. Our local postmaster told me there is a good chance book rates will go up again.

Cost for printing and mailing the 1978-79 Newsletter:
### Vol. 52

<table>
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<th>No. 3</th>
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### Vol. 53

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- Copies Mailed: 562, 566, 564, 557
- Pages: 54, 68, 34, 66

One copy of the CAST Newsletter was mailed with each issue except Vol. 52, No. 3 and Vol. 53, No. 1—two issues were mailed.

The information from Vol. 52, Nos. 3 and 4 and Vol. 53 Nos. 1 and 2 is on index cards.

W. P. Ditmer, Editor
Following the 1978 annual meeting, a comprehensive post-meeting report was prepared and forwarded to Seed World, Seed Trade News, and Seedsman’s Digest, along with a group photograph. All or part of the report was published by the various publications.

Numerous letters were written to prospective employers and employees. Several persons were satisfactorily relocated.

A questionnaire was sent to all seed laboratories and to ASTA to obtain updated salary information. A report on the results of the survey will be given at the meeting in Saskatoon.

The employee and employer lists were updated.

Louis N. Bass, Science Education Editor

LEGISLATIVE COMMITTEE

The legislative committee met on June 18, 1979 and reviewed the proposed amendments to the Recommended Uniform State Seed Laws (RUSSL) which had been previously mailed to each committee member.

Proposal I —Labeling of seed for sprouting.
This would be an addition to RUSSL, a section covering seed not intended for planting purposes.

Proposal II —Lot numbers for small packets and containers.
Lot numbers are presently not required on small units.

Proposal III—Relabeling of carryover agriculture seeds and mixtures.
The committee had no objections to this proposal; however, it felt that this is already covered under labeling and would be an unnecessary addition to RUSSL.

Proposal IV—Labeling Coated and Pelleted Seed.
This would establish a labeling format for coated seed which are already being marketed. There appears to be no conflict with AOSA in our testing research for coated seed.

Proposal V —Growers Declaration.
This is a proposal that has been kicked around for several years and has never had any objections from AOSA. The major change in the proposal is requiring the grower to have some proof of the parent seed as to variety.

The committee recommended support on all proposals except number III.

Gail Fenderson, Chairperson
Letters were written to SCST, CSAC, ASTA, AASCO, AOSCA, NASDA and ISTA offering the AOSA Liaison Committee’s service in any way to promote good understanding and cooperation between the respective organizations.

AOSCA has reinstigated its Cooperation Committee which is comparable to the AOSA Liaison Committee. There should be better communication with them in the future. They have discussed forming a round table meeting where closely associated organizations would gather and discuss problems of mutual interest. To date this it is not functional. Gurnia Moore will represent AOSA this year at their annual meeting in Mobile, Alabama.

The ASTA has a Seed Analyst Liaison Committee with which we are most directly involved. We are encouraged to participate in all other committee meetings which are not closed meetings. State and regional seed trade organizations are not a direct part of ASTA and consequently, liaison with them will have to be approached by contact with each organization.

NASDA has been handled by a direct appointment from the President. This year President Delouche suggested this be the responsibility of the Chairman of the Liaison Committee. One of the committee members was contacted and agreed to represent the AOSA. At the last minute he was unable to attend and it was too late to get someone else, consequently we did not have representation except for those members who attended in some other capacity, but nevertheless had our interests at heart.

Dr. Everson has been selected by the President to act as AOSA’s representative to ISTA for several years and has also been on the Liaison Committee representing this committee in matters associated with ISTA. AOSA has been well recognized through Dr. Everson’s efforts.

It is felt that good communication with SCST, CSAC and AASCO is in effect through participation in our annual meeting. Members of our organization are closely associated with their members throughout the year. In the case of AASCO, many of our members are also members of their organization.

I feel that each of the organizations listed above have mutual interests and are vitally important to the AOSA. They should be encouraged to have official representation at our annual meeting and should be officially recognized and introduced early in the meeting so that all in attendance know who they are and why they are there. The invitation should come from our President to the respective presidents.

The AOSA should make special effort to have representation at their meetings. The Chairman of the Liaison Committee should assume that responsibility.

There are four organizations which are not as closely oriented as the others and some special emphasis needs to be placed on getting representa-
tion at their meetings. They are ASTA, NASDA, AOSCA and ISTA. It is imperative that we have good representation at these meetings because discussion often arises at their meetings concerning AOSA and a good knowledgeable representative needs to be present so that misunderstandings do not get started. One of the problems in getting some of our better statesmen to these meetings is the cost involved in attending. I believe that the Executive Committee should again address the question of financially supporting such attendance.

I recommend the budget committee set up a reoccurring travel fund to support liaison travel. The fund is to be used by the president and Liaison committee chairman to support representation at appropriate meetings. The amount budgeted each year may vary since some meetings are held at two or three year intervals. I recommend $1,000 be included in the 1979-80 travel fund.

Meeting dates for these organizations for next year are as follows:

ASTA — 1979—June 24-28 Washington, D.C.
AOSCA — 1979—June 10-14 Mobile, Alabama
1980—August 3-7 Portland, OR
NASDA — 1979—Sept. 23-26 Winston-Salem, NC
1980—Nov. 18-21 Las Cruces, NM

E. E. Hardin, Chairperson

MEMBERSHIP COMMITTEE

The Membership Committee report for the year 1978-79 is as follows:

**Nominations for Honorary Membership:**
Norah VanKleeck
Helen Allman

**Applications for Associate Membership:**
Prof. Norman Hopper

The Committee recommends the acceptance of these nominations.

Our AOSA president, Dr. C. Delouche, directed the committee to review the requirements for AOSA associate membership and to have a proposal that would make it more specific as to who is eligible. After a review of the subject, the committee is not in a position to make a recommendation due to a divergence of ideas. The committee requests direction from the Executive Board on this subject.

The Membership Committee consisted of Mr. Randy Bradley, Dr. B. E. Clark, Mr. M. V. Meadows, Dr. J. M. Smith, and Mr. T. W. Still.

Russell K. Marx, Chairperson
PUBLIC SERVICE COMMITTEE

The slide collection was used by the Mississippi State Seed Testing Laboratory, the Arkansas State Seed Testing Laboratory and the International Center of Tropical Agriculture, Cali, Colombia.

The Merle Pierpoint drawings were used by the Seed Standardization Branch, USDA.

A set of slides on the basics of seed processing has been prepared for the slide kit. The script for the slide set is in the process of being written. These will be available as soon as the script is completed.

Charles C. Baskin, Chairperson

REFeree COMMITTEE

The subjects of the referees this year have been the following:

Region I (Chairperson Sharon Dobbins) pursued the new *Calamagrostis* (bluejoint) purity and germination rules adopted at the Lincoln meetings. The objective was to determine whether uniformity of results could be attained using these new rules. The conclusion of this referee is that uniformity in purity analysis is possible in spite of the lack of experience with this kind of seed. Also germination uniformity can be attained as analysts gain more experience.

Region II (Chairperson Bill Hunt) pursued germination problems on soybeans. The objective was to pinpoint the differences among 37 laboratories and check on sampling differences within a laboratory. Two samples of sunflowers were germinated by 34 laboratories using various media. Russell Ruud organized this project.

Region III (Chairperson A. B. Ednie) pursued a Merion bluegrass germination. The objective was to determine if there was a difference in the variability of germination results of Merion Kentucky bluegrass caused by a difference in vigor. The conclusion of this referee is that it appears there is a greater degree of variation associated with lower quality seed. Using a vacuum head to obtain seed for the germination test exerts a bias for poor (lighter) germinating seed units.

Region IV (Chairperson Kenneth Boatwright) pursued identifications of *Setaria* species. The objective was to introduce participants to “out of the area” species as well as the familiar species. *S. macrostachya* was the unfamiliar species and missed most often. *S. faberi* was missed by one third of the participants.

Region V (Chairperson Joseph Vines) pursued a soybean germination, and identifications of three species of *Agropyron*. The objective on the soy-
bean germination was to check on variation among laboratories following the AOSA rules and interpretations. The wide variations in results indicate a need for continued work on soybean germination. Pure samples of the Agropyron species were used for identification purposes. The good condition of the seed made identification easier than that of some seed received in routine samples.

My thanks goes to these five chairmen who have done an excellent job of organizing the projects for this year and following them to their conclusions.

Some thought has been given to realigning the regions for AOSA and SCST to be more nearly alike. There has not been too much constructive input. Some states are difficult to assign since we do not know their specialties.

Doris Baxter, Chairperson

RESEARCH COMMITTEE

Research work is done by the Subcommittees, several of which have been very active in 1978-1979. Brief statements of the accomplishments of the active subcommittees follow.

Analysis of Coated and Pelleted Seeds
This committee is still working on the problems of definitions and rules for testing. The problems are thorny but are being actively studied by Doris Baxter and her subcommittee.

Browse Shrub and Forb
Earl Belcher has gotten this new committee off to a vigorous start with 23 active members and five groups studying at least one species in their area.

Cultivar Purity
Their work this year under Chairperson Richard Payne has been with oat cultivars. Forty-eight labs have been involved in fluorescent referee testing.

Flower Seed Research
Under the Co-Chairpersons Louis Bass and Betty Atwater, 23 people have become members of this subcommittee.

Rangegrass Analysis
As usual, under Arnold Larson, this subcommittee has been very active this year. Testing procedures for big bluestem, sand bluestem, yellow bluestem, and indiangrass have been the main area of study.

Seed Counts
Under Chairperson Philip Stanwood study of species with unacceptable seed weight variation has continued. Recommendation for rule changes will be forthcoming.
Tree and Shrub Seeds

This subcommittee has been active in 1979 under Chairperson Frank Bonner. A workshop/symposium was carried out. More work is planned for 1979-80.

Vigor Test

Miller McDonald has again directed an active referee program on vigor tests. Of extreme importance is finalizing the definition of seed vigor.

X-Ray Technology

Earl Belcher and committee now have the handbook published.

James F. Harrington, Chairperson

RULES COMMITTEE

One proposal for changing the "Rules for Testing Seeds" was received and reviewed by the Committee. The proposal concerned redefining soybean pure seed to include soybean pieces, regardless of their size, if they had an attached embryonic axis.

The committee unanimously rejected this proposal on the grounds that: (1) it was contrary to the existing philosophy that purity and germination potential should be considered in separate tests, and (2) it would tend to slow the purity test.

The committee is in the process of revising Appendix 1, Seedling Descriptions. Contact has been made with an ISTA committee currently revising their Seedling Evaluation Handbook about the possibility of using their Handbook as a model in our revision.

Two "interpretations" were made by the committee. One was a request concerning the inert and pure seed classification of buffelgrass fascicles. The committee noted that the Rules are explicit and, by omission, require that buffelgrass fascicles must contain endosperm to be classed as pure seed. They are not exempt from endosperm determination under section 2.7 g(1) of the Rules.

The other rule interpretation was that the varieties Ruby and Fortress red fescue should be treated as creeping red fescues and not chewings fescue for the purpose of assigning a multiple floret factor under section 2.12 c(2) of the Rules.

A request was received from the Association of Seed Control Officials of the Northeast (ASCONES) asking for a modification of section 4.4 of the Rules to allow for testing fewer than 400 seeds when germinating specialty seed items such as "preplanters, tapes, etc." Further correspondence from ASCONES indicated that there was no need to modify AOSA Rules and that their seed law enforcement procedures would allow them to test these consumer size units regardless of the number of seeds present.
Regarding status of rules for testing pelleted/coated seeds, I am advised that a Research Subcommittee, chaired by Doris Baxter, is actively working on the problem. It is their intent to submit testing recommendations to the Rules Committee for adoption by AOSA. However, no such recommendation will be forthcoming this year.

The Rules Committee is currently studying the problem of properly classifying as to inert or pure seed, lemmas and paleas attached to wheat kernels. Some seed lots have a significant number of kernels with their lemma and paleas attached, and there does not appear to be a way of classifying them under current rules.

Rodger Danielson, Chairperson

BUDGET COMMITTEE (1979–80)

Proposed Budget 1979–80

Receipts

Cash on hand (Beginning of year)
Checking Account $ 2,647.00
Certificate of Deposit 64.00
Savings Account 3,171.00

TOTAL $ 5,882

Publications
Handbooks 4,000.00
Newsletter 1,800.00
Journals 5,000.00
Rules & Binders 2,000.00

TOTAL $12,800

Meeting Advance return 500.00
Dues 4,450.00
Interest 200.00

TOTAL $5,150

Receipts Total $23,832
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**Disbursements Total**: $23,832

Arnold Larsen, *Chairperson*
CONSTITUTION COMMITTEE

The Constitution Committee had expected some proposed changes for the 1979 AOSA meeting; however, none were forthcoming. No consensus of opinion could be reached by the members of the Membership Committee with regard to changes in defining the makeup of the various classifications of members. Possibly, this can be agreed upon and a proposal presented for the 1980 meeting.

The Constitution Committee has no proposals to present for action at this meeting.

Gurnia Moore, Chairperson

ADVISORY COMMITTEE TO THE SEED STANDARDIZATION BRANCH

The advisory committee is made up of the following AOSA members: B. E. Clark, M. H. Day, L. E. Everson, P. J. Hall, E. E. Hardin and G. E. Spain. The following representatives are serving as advisors to the committee from their respective organizations: H. Edwards, SCST; P. King and R. Sayers, ASTA; D. Lancaster and D. TeKrony, AOSCA.

On November 8, 1978 I had the opportunity to visit the Seed Standardization Branch at Beltsville and the Washington office. I was pleased with the reception and the expressed willingness for cooperation. A full report of that visit is in the AOSA Newsletter, Volume 53, No. 1, pages 13-14.

On May 2, 1979 I visited the Seed Standardization Branch at Beltsville. I was given the opportunity to spend time with each member of the laboratory staff discussing what projects they were working on. For the staff available, I feel that the laboratory is accomplishing many of the suggested tasks; however, more needs to be done in some areas.

W. P. Ditmer, Chairperson

NECROLOGY COMMITTEE

Miss Jessie Louise Anderson

Jessie Louise Anderson was born in Chestertown, Kent County, Maryland, on February 3, 1890. She most likely spent her childhood days in this area of Maryland. Although she did not graduate from a school of higher education or receive any academic degree, she was self-educated and became proficient in her chosen field, seed analysis. She had attended one or more short courses at the Federal Seed Laboratory under the guidance of Albina Musil.
Her career included the following positions:

1909-1926—employed by Bolgiano Seed Company, Baltimore, MD as seed analyst in charge of laboratory and buyer of bulbs and flower seeds;

1927-1928—employed by Cornelio Seed Company, St. Louis, MO as seed analyst in charge of laboratory;

1929-1930—employed by Warrented Seed Company, Chicago, IL;

1932-1936—employed temporarily by the State of Massachusetts assigned to the Massachusetts State Seed Laboratory to do seed analyses for the State of Rhode Island;

Jan. 4, 1937—she was appointed as technical assistant in the Massachusetts Seed Laboratory at the University in Amherst and remained with the Massachusetts Seed Lab until her retirement on February 29, 1960.

Miss Anderson had a long career as a seed analyst. She was a charter member of the Association of Commercial Seed Analysts, organized in 1922, later the Society of Commercial Seed Technologists. She took pride in her ability as a seed purity specialist and excelled in the identification of grass seeds. She was a regular cooperator in the AOSA Referee Program. She was a perfectionist, and her expertise was acknowledged by many.

After her retirement, she moved from Amherst with her sister, Mary, to Milwaukee where they could be close to their sister, Mrs. Noir.

Jessie's friends will remember her for her independence and strong feelings concerning her work and her contention that seed analysts were a great asset to the progress of agriculture. She died on January 11, 1979, just three weeks short of 89 years of age.

P. N. Grainger

Peter Nelson Grainger was born on April 17, 1922 in Sydney Mines, Nova Scotia. He saw service in both the Canadian Air Force and Navy during the second world war.

Following the war, Peter continued his education and obtained a Diploma in Agriculture from the Nova Scotia Agricultural College in 1948 and a B.S. in Agriculture in 1951 from McGill University of Montreal with a major in Plant Pathology. He started his career with the Canada Department of Agriculture in 1953 when he joined the staff of the Department's Fredericton Research Station and worked on potato pathology problems. He then moved away to Ottawa in 1957 as the District Analyst with the District Seed Laboratory of Eastern Ontario, located in Ottawa.

In 1967 he accepted the responsibility of being officer-in-charge of the Ontario District Seed Laboratory in Toronto. He remained in this position until his untimely death on December 7, 1978 at Sunnybrook Medical
Centre in Toronto, Ontario.

Peter served on AOSA subcommittees and committees from 1958. He served on the Rules Committee's Subcommittee on Seed Treatment for 5 years. He served on the Membership Committee for 5 years and chaired it for a further 5 years. He also served on the Meeting Place Committee for 9 years, the Rules Committee for 5 years, the Merit Committee for 3 years and the Pelleted Seed Subcommittee for 2 years. Last year Peter was elected to the Executive Committee.

Peter was highly respected by both his colleagues in Agriculture Canada's Seed Testing Laboratories and Seed Control officials and in the Commercial Seed Analyst Association of Canada with whom he worked closely and played an important role in their activities. He was truly a professional seed analyst and always displayed an interest and tremendous knowledge of seed testing and in the people involved in seed testing. Peter will truly be missed by his friends and colleagues in seed testing in North America.

Albina F. Musil

The seed trade, and especially the seed testing profession, lost a friend and respected teacher March 27, 1979. Miss Musil died of cancer at Edina, Minnesota, a suburb of Minneapolis. She had moved into a home for senior citizens in Edina several years ago. Miss Musil received her Bachelor of Science degree from the University of Nebraska in 1927. She began her work with the U.S. Department of Agriculture in 1928 as a botanist in the Federal Seed Laboratory at Washington, D.C. In 1938 she transferred to the Agricultural Research Service, but in 1950 returned to the Federal Seed Laboratory at Beltsville, Maryland from which she retired in 1961.

Miss Albina F. Musil and her work were well known and a detailed account is hardly necessary. She has made outstanding contributions in a number of areas of seed testing and was generally acknowledged as the final authority in seed identification in the United States.

Her contribution to the advancement of research in seed technology is manifested by the twenty or more publications based on original research. Also, she had prepared and released numerous seed keys for various kinds, and other guides useful to analysts in seed identification. Furthermore, Miss Musil was in almost daily contact with analysts, aiding them in seed identification problems. Aside from her usual full schedule, she promoted the interest of the Association of Official Seed Analysts directly by serving on such important committees as the Rules Committee (1955-1960), the Standardization Tests Committee (1957-1960), and as chairperson of a Special Committee on Noxious-weed seeds.

Miss Musil contributed significantly to education in seed technology through direct instruction and publication. Her earliest work of this nature was the preparation and publication in 1942 of USDA Miscellaneous Pub-
lication 437 "Testing Farm Seeds in Home and School". Since 1951 she had conducted a total of 50 Federal seed schools throughout the United States. Much effort had gone into the preparation of samples and course outlines for these schools. Miss Musil is author of the Chapter "Identification of Seeds", consisting of 70 pages of text and 34 plates illustrating seeds, appearing in the USDA Manual for Testing Agricultural and Vegetable Seeds. She is also author of a paper entitled "Testing Seeds for Purity and Origin" prepared for the 1961 Yearbook of Agriculture and is junior author of the paper "Gross Morphology of the Mature Seed" prepared for the same yearbook.

Miss Musil made worthy contributions to seed testing at the International level. In 1931, she published in the Proceedings of the International Seed Testing Association, a paper under the title "A Suggested Method of Seed Testing". This was the first published account of a proposal to use a "direct" method of testing chaffy grass seeds. Her paper, "Distinguishing Features of Seeds of Certain Crops Comparatively New in American Agriculture", appeared in the International Seed Testing Association Proceedings in 1950. In 1959, Miss Musil conducted a seed school for analysts in various Latin American countries at Chillan, Chile. The school, sponsored by the International Cooperation Administration, was attended by 32 students from Central and South America.

Miss Musil was held in high esteem as a counselor of experience, knowledge and wisdom in the field of seed technology. She has given freely of herself, at times under conditions which drew heavily upon her physical resources. These services were rendered willingly, cheerfully and with untiring effort.

Miss Olive M. Kelk

Miss Kelk was born in England on April 15, 1897 where she lived for several years before moving with the family to Italy. She lived near Florence, Italy for 10 years. While attempting to return to England in 1914, the ship "Arabic" was torpedoed. The family was rescued and the return to England delayed until the end of World War I.

They came to America and lived on a farm near Beltsville, Maryland. Olive accepted employment in the State Seed Lab at the University of Maryland. She was also employed a short time in the State Seed Lab at Harrisburg, Pa. While at Maryland, Miss Kelk was in charge of germination to which she made valuable contributions.

After retirement, Olive's principle interests were golf, gardening, and church work. She was a long-time member of St. Andrew's Church, College Park, Maryland.

In 1963 she and her sister, Violet, returned to England where they purchased a 300 year old stone home in the Catswald section. They lived there, dispensing hospitality to their American friends, until Violet died in 1976.
Olive lived until April 1979 when she died quite suddenly and peacefully. She was a most remarkable person, very capable, and with a keen sense of humor. She was a very loyal friend. She will be remembered for a long time.

**O. A. Stevens**

Dr. O. A. Stevens, 93, a faculty member in the Botany Department of the North Dakota State University for 47 years died on January 12, 1979 in Sacramento, California after a long illness.

Stevens first joined the NDSU faculty in 1909 as an assistant professor of botany and seed analyst. He was in charge of the State Seed Laboratory from 1909 to 1933 and in this position attended some of the first AOSA Meetings. The comprehensive weed and seed collection of 2100 species in the State Seed Department Laboratory was collected by Dr. Stevens. In 1951 he was named curator and research professor of botany for North Dakota Institute for Regional Studies at NDSU. He retired from his teaching and experiment station posts in 1956, but continued to work at the institute as a professor emeritus. Dr. Stevens and his wife moved to California in 1977.

Dr. Stevens was born on a farm near Blue Rapids, Kansas, October 17, 1885, obtained a B.S. in 1907 from Kansas State College, Manhattan, an M.S. in 1923 at NDSU and was awarded an honorary doctor of science degree in 1965 at University of North Dakota, Grand Forks.

During his long career at NDSU, Stevens established himself as the world’s leading authority on North Dakota plants and built a reputation for intensive studies of birds and insects. He wrote more than 200 papers published in 40 different scientific journals. He wrote “Handbook of North Dakota Plants” which is the most complete record of over 1200 plants found in North Dakota. In 1968 a new $1.2 million biological science complex at NDSU was named Stevens Hall in honor of the pioneering North Dakota botanist. Dr. Stevens was a fellow of the American Society for the Advancement of Science and a charter member of the Ecological Society of America.

He is survived by his wife, Julia Anna, Sacramento, two sons, Dudley F., Sacramento, Gerald M., Washington, D.C., a daughter, Muriel Stevens Allen, Livermore, California, 10 grandchildren and 7 great grandchildren.

Charles L. Sciple, Chairperson

**MEETING PLACE COMMITTEE**

The Meeting Place Committee met at 10:00 a.m. June 20, 1979 to consider invitations to host the 1982 annual convention from the States of Texas and Alaska. Members present were Buddy Vaughan and Wendell
Ditmar of AOSA and Lloyd Smith and Mary Bristol of SCST.

After much discussion it was moved and passed, unanimously, to recommend to the Executive Board, that the 1982 AOSA/SCST Convention be held in San Antonio, Texas.

W. R. Vaughan, Chairperson

NOMINATIONS COMMITTEE

The 1979 Nominations Committee presents the following officers who have been duly elected for their respective terms:

Vice-President
C. C. Abbott

Secretary-Treasurer
C. C. Baskin

Executive Board (3-year term)
Gail Fenderson
L. E. Wiesner

Executive Board (1-year term)
W. F. Westrin

G. Richard Wilson, Chairperson

NOMENCLATURE COMMITTEE

Our major effort (struggle) to update scientific and common names for the 1978 edition of the AOSA Rules was essentially satisfactorily completed. Ten printer's errors and one committee's error were located in the 1978 edition of the Rules by Bill Jones. By a copy of this report, these corrections have been sent to the Rules Committee and the Editor. As the affected pages are revised, the corrections will be made. One major printer's error was made in Table 4, page 63, where Chrysanthemum leucanthemum L., C. maximum Ramond were omitted.

The Nomenclature Committee plans to submit revisions to the AOSA in 1981, following the 1980 ISTA meeting. Currently, the Committee plans to recommend that the AOSA approve the change of the scientific name of leek from Allium porrum L. to Allium ampeloprasum L. The latter name should not be used until it has been formally submitted and approved by the AOSA in 1981.

Charles R. Gunn, Chairperson
PROGRAM COMMITTEE

This year a questionnaire was sent to all persons who attended our annual meeting in Lincoln, Nebraska. Specific questions were asked of the attendees in order to seek guidance of how our program could be improved. Approximately 90% of those sent questionnaires responded.

These replies were tabulated, additional comments noted and incorporated in the preparation of this year’s program.

Titles and abstracts of 12 volunteer papers were submitted for presentation at the 1979 annual meeting in Saskatoon, Canada. These were published in the May issue of the AOSA Newsletter. In addition, Mr. A. B. Ednie organized and chaired a symposium on “Seed Pathology.” Seven papers were presented during the symposium. Dr. Bass and Mr. Spain organized and presented a joint program on Teaching and Seed Analyst Qualification Examination.

Scheduling of committee meetings and other program activities was coordinated with Lloyd E. Smith, SCST Program Chairman.

We recommend that the Program Committee continue to meet during the annual meeting for preliminary planning of program features for the next year’s meeting.

R. H. Hofmann, Chairperson

TEACHING AND TRAINING COMMITTEE

For the 1979 annual meeting the Teaching and Training Committee, in cooperation with the Ad Hoc Committee on Accreditation, arranged the following program:

A Philosophy of Teaching Seed Analysis
    V. M. Stanway

Training Needs for SCST
    C. J. Wilson

Federal Seed School
    D. W. Lambert

Iowa State University Short Course
    L. E. Everson

Accreditation: Seed Analysts Qualification Examination:
    Overview
    G. E. Spain

Purity Analysts
    L. E. Everson

Germination Analysts
    E. E. Hardin

L. N. Bass, Chairperson
MERIT AWARD COMMITTEE

There were four nominations for the 1979 AWARD OF MERIT. Edward Eugene Hardin of Oregon State University was selected for this award.

Arnold L. Larsen, Chairperson

SYMPOSIUM COMMITTEE


A list of potential symposium topics was compiled. From the list, topics for the next three AOSA meetings were selected, together with symposium organizers as follows:

1979—Seed Pathology, A. B. Ednie
1980—Seed Processing, C. C. Baskin
1981—Seed Dormancy, L. E. Wiesner

Each symposium organizer will be responsible for the specific subject with four or five speakers. The exact place on the program is to be decided by the symposium organizer and the program chairman. The program chairman will handle the publicity. No funds are being requested of the Executive Board at this time.

The Committee suggests the Symposium papers be published in the Journal of Seed Technology. Whether the papers will be published separately or as part of regular issues of JOST shall be at the discretion of the Editor.

The Committee will meet again during the 1979 AOSA meeting in Saskatoon to evaluate the 1979 Symposium and confirm arrangements for the 1980 Symposium.

Don F. Grabe, Chairperson

AOSA REPRESENTATIVE TO CAST

I believe that all AOSA member laboratories receive "News from CAST" which reports on CAST's activities. Therefore, I will not discuss CAST's activities in this report. Instead, I will comment on the criticism that has been leveled at CAST in Bioscience, Science and various newspapers.

CAST has effectively presented the viewpoint of agricultural scientists on several controversial topics. That activity has placed it in the rough and tumble of the political arena where viewpoints which are not acceptable to
some are discredited in any way possible. In the scientific world, we present research data to refute a conclusion we consider to be incorrect, but in the political arena other approaches are used.

The attempt to discredit CAST has been based largely on its support from private industry which is substantial, because a number of private companies are supporting members of CAST, and others provide grants to support CAST activities. The contention is that CAST reports are biased in favor of the industries from which it receives support. This seems plausible until one considers more carefully the accusation that is being made.

CAST itself does not prepare any reports. The reports are prepared by multidisciplinary task forces of scientists selected for their expertise in the subject addressed. The scientists receive no pay for their efforts, but their legitimate travel expenses are paid by CAST.

The real accusation that is being made, then, is that scientists can be expected to be biased in favor of the organization that supports their activity. If we accept that conclusion, we must also conclude that essentially all scientific reports are biased, because all scientific activity requires support from one source or another. If that were the case, I would be particularly concerned about the amount of research supported by federal government funds.

Personally, I believe that most scientists are searching for the truth. Not all scientists interpret facts in the same way, so there is room for honest differences of opinion which should be expressed. However, it is not worthy of one scientist to try to discredit the conclusion of another because of the source of his or her support.

There have been some instances in the past year where differences of opinion have arisen within task forces. Six scientists resigned from one task force because they did not think that their opinions were given sufficient weight in the report. That incident has caused the CAST Board of Directors considerable concern. We must find a way for minority opinions to be expressed in task force reports in such a way that will be acceptable to both the minority and the majority. One half day will be devoted to the solution of that problem at the next Board of Directors meeting in July.

In spite of the problems that have been experienced during the past year, I continue to believe that CAST has a very important role to play in our society. Important decisions affecting agriculture and consumers of food are being made at various levels of government without consideration of all the scientific information that is available. These decisions often result in regulations that unnecessarily interfere with agricultural production. If that trend continues, we will not be able to produce food efficiently for our own population and our ability to compete in foreign markets for agricultural products will be diminished. CAST can help prevent this by making scientific facts available to decision makers and the general public.

B. E. Clark, Chairperson
LABORATORY ACCREDITATION COMMITTEE

At the 1978 AOSA Meeting, this committee reported on a survey made of member laboratories. The survey indicated that two areas which need to be considered are personnel and equipment. It was decided that we should first approach the accreditation of personnel, and the committee was instructed to begin developing an examination. Very strong needs for this development include the following objectives:

1. To satisfy State requirements of employing qualified personnel,
2. To qualify analysts as expert witnesses in judicial matters,
3. To present analyses that are considered fair to both industry and regulatory groups,
4. To provide for professional pride,
5. For administration advantages in recruitment and salary adjustment,
6. For motivation of new analysts to study and work.

The committee objectives and time frame were as follows:
1. 1979—example questions and discussion,
2. 1979-80 feedback,
3. 1980—AOSA meeting—proposed examination for acceptance,
4. The finished exam to be comparable in scope and acceptance to the SCST exam.

Issues which AOSA must decide are:
1. Will there be a grandfather-grandmother clause?
2. What mechanism will be developed for giving examinations?
3. Should there be regional exams?
4. Should there be a battery of questions, out of which variable examinations are drawn?
5. What time frame is needed to correlate against certification with overall laboratory accreditation?

Ed Hardin, Oregon, has prepared an examination proposal on seed "viability", and George Spain, North Carolina, has suggestions for the "allied subject" review. I regret to say that our esteemed friend, Dr. LeRoy Everson, was delayed in developing the section on "purity" because of illness. Since the committee considers these sections to all be in the developing state, I'm certain the purity section will catch up. Dr. Everson is interested in continuing on that project.

Since these proposals are intended for discussion, only, at this meeting, I propose to not enter them into the proceedings, because they will probably be considerably modified before the association is asked to consider adopting them. That state of development must come at a later meeting.
In the planned review, which will be held in conjunction with the Analysts Training and Qualifications open committee meeting at this conference, we each solicit your constructive criticism and suggestions for further development of AOSA Seed Analysts Examination.

George E. Spain, Chairperson

AD HOC COMMITTEE ON SECRETARY-TREASURER WORKLOAD

The committee was requested to review the AOSA Secretary-Treasurer workload then recommend possible ways to reduce the workload, either through separation of duties or additional assistants being appointed by the Secretary-Treasurer to assume certain other areas of responsibilities. The committee felt the appointment of assistants to aid the Secretary-Treasurer too complicated. We sought a simpler solution and decided to consider separating the Secretary-Treasurer workload into two positions, one of Secretary and one of Treasurer.

Both positions should be elective. Each position should be for a term of 3 years as is presently established by our constitution for Secretary-Treasurer. The committee feels the office of Treasurer should be allowed monies for office assistance since this position constitutes a heavier workload.

The committee recommends that the duties of each position should be clearly outlined in the AOSA constitution as per the attached summary.

In developing these duties the committee has tried to make as equitable and chronological a separation as possible.

R. H. Hofmann, Chairperson

ADMINISTRATIVE HANDBOOK PROGRESS REPORT


The handbook is taking the form of the outline made last year encompassing the objectives, duties and expanded scope of the officers, Executive Board and committees. An attempt is being made to incorporate examples of letters and memoranda which have been used to accomplish various goals. These examples are being included as helps—being ideas of how jobs were done in the past—not as mandates for all to follow.
Some attention is being given to policies deemed to be in force at one time and thought still to be appropriate. It would be good for all officers and chairpersons, past and present, to put in writing, the policies which they remember, made for the smooth running of our society.

It is recommended that this work be continued next year, and hopefully it will continue, since President Elect Larsen has appointed a person to chair the now named Administrative Procedures Committee.

W. N. Rice, Chairperson
PRESIDENTIAL ADDRESS

James C. Delouche

I’m sure that in preparing to address the Association every AOSA president has sought inspiration by perusal of the addresses of his or her predecessors. The President certainly needs inspiration because the address comes at the end of the term rather than the beginning—a most awkward situation because one is limited to a sort of farewell perspective. In any event, to facilitate the search for inspiration some president in the past assembled all the AOSA presidential addresses under one cover. Ralph Hoffmann sent the collection to me last summer. Although I searched in vain for inspiration among the presidential addresses, I did find them most interesting. Over the past 69 years the Associated has been admonished to correct deficiencies and inadequacies perceived by the incumbent, challenged to squarely confront ticklish issues or long-standing problems, warned about tendencies and directions detrimental to the best interests of the Association, reminded many times of the aims and purposes of seed analysis, and this Association, propagandized to accept a particular viewpoint of the seeker, and informed on a variety of topics ranging from a memorable discourse on photography to the history of seed testing.

The two themes of my remarks this afternoon fall within the reminding and warning categories.

A Reminder . . .

I was reminded to remind you about the thing I want to remind you about by the juxtaposition of several seemingly unrelated happenings; Dr. Legatt’s visit with us; the 12 newly ordained RSTs in SCST and a wonderfully refreshing hour or so I spent with some of the younger members of our Association just a few nights ago.

Let me sketch a background for what I want to remind you about by reminiscing a bit. The first AOSA meeting I attended was at Purdue University as a 2nd year graduate student at Iowa State. Dr. Leggatt was a towering figure in Association affairs at that time. And, so was W. Wright also of Canada, W. A. Davidson of the USDA FSA Branch, Oren Justice head of the Federal Seed Lab, Louisa Jensen of Oregon State, M. T. Munn of Geneva, NY, Duane Isely and Leroy Everson of Iowa State, Al Carter of Purdue and others. My first impressions and feelings were mixed. On the one hand I was awed by these personalities who had contributed so much to the development of seed testing, seed control, and seed technology in N. America and internationally. On the other hand I was discouraged by the realization that these forceful men and women had a firm grip on seed testing affairs in North America and didn’t at all appear to be willing to let go or even move over a bit to make room for others. I was dismayed by the strong and seemingly immoveable positions of many—but not all—of these
personalities, and the aggressive manner in which they defended them. With that curious blend of brashness and pessimism so characteristic of the young—I felt that some of the positions defended were indefensible on scientific and purely rational grounds, and yet I didn’t see how the situation would or could be changed. I returned to Iowa State and more or less closed out seed analysis from my list of possible careers.

In my last year at ISU, the AOSA meeting was held in Ames. Since Duane Isely was my major advisor and very active in the Association I really had no alternative but to attend and participate in the meeting. At his insistence I even prepared a couple of papers for presentation.

Before the end of the first day of the Ames meeting my impressions formed at Purdue had changed about 90° and I was a bit inflated. Several of the Association personalities actually remembered me from the Purdue meeting and came over to chat. Dr. Justice asked me to attend a part of the Executive Board meeting because I had done some research that had relevance to a potential issue. That evening Fred Emmitt, Gabe Nutile of SCST and Buford Jones invited me to one of the incomparable drinking and story-telling sessions. Later during the meeting I presented my research papers, which to the best of my recollection was profoundly insignificant. Al Carter among the 2 or 3 most thoughtful persons I’ve known—asked me to have lunch with him so that we could discuss my work further. At lunch I realized that this was a bit of subterfuge because after a few complimentary comments he steered our conversation in another direction. Mainly, I listened to some of his famous anecdotes and stories. By the end of the meeting my feelings about seed analysts and AOSA had changed another 90° which added to a 180° change from the end of the Lafayette meeting. I decided that seed analysis in its broad sense would be a part of my professional activities. And, so it has been, and so I expect it to continue.

The point of this remembrance of things past is, of course, that I committed myself to seed analysis and Association activities because some—some not all—of the old guard took a bit of time to make me feel part of the Association and moved over a little so that I could at least get my feet in.

The times have changed. The Association is more democratic and open than it used to be. It can hardly be said to be dominated by any person or group of people. Yet, I wonder if those of us who have been around for awhile and are well established do all that we can and should to make our newer and younger members feel that they are a vital part of our Association—as they are—to help them gain a good understanding of how the Association operates, and to ensure that their views are heard and taken into account in our deliberations. I don’t think we do. Thus, I would remind our well established members—and myself—to do more. Some of our newer members are in positions of leadership—but we need others. We need to provide more opportunities for them to become involved in committee and subcommittee activities and other activities of the Association.
On the other side, I would remind our newer and younger members that you won’t get much out of AOSA unless you are willing to put something into it—to accept committee assignments, to search for ways in which you can contribute, and most of all to be patient. Remember, that time is on your side. Your time will come and when it does you must be prepared.

A Warning . . .

Now for my warning message. This is an age of specialization and specialists. We are very much a part of our time. Seed analysis began as an agriculturally-oriented specialty and seed analysts are among the most specialized of specialists. There is no other way. The nature of seed testing and operational efficiency in the laboratory dictate a high degree of specialization. Specialization has contributed enormously to the development of seed testing as a recognized scientific discipline, and to the attainment of professional status by seed analysts. Unfortunately, certain thought patterns and attitudes, detrimental to continued progress, tend to arise out of specialization unless closely guarded against.

Specialization leads naturally to a narrowing of perspective—to an ever sharper focus on the specific area of concern. Concern for and interest in related areas—even closely associated areas—can diminish to an unhealthy degree. As the focus of attention and concern narrows and expertise increases, the specialist can develop an inflexible concept of the relationship of what he or she does—and thinks—to other specialties or areas in the same general field. I emphasize the word can because these developments are not inevitable, but they can and do take place.

For some years now, I have perceived the development of mild tendencies toward “egocentrism” and inflexible attitudes in our association. Individually and collectively, we are seemingly becoming less concerned about the needs of related areas and the effects of things we do on them. These tendencies are manifested in many ways: a long term, continuing indecision regarding membership requirements; overly conservative attitudes toward new concepts and technology; smugness; a feeling that others must always adapt to our ways; over-reaction to criticism; and so on. Fortunately, these tendencies are not yet strongly developed. There is time and opportunity to move away from them.

We need to recognize and understand that seed analysis is a service component of the seed industry, and that our major emphasis must be on service to three major clients: seed control, seed companies, and farmers. If we accept our service role, then it is incumbent on us to learn and comprehend the needs and problems of our clients. There is no room for a “closed shop” attitude in seed testing. Seed testing is not an entity unto itself and must not be considered as such.

We really need to adopt a broader view of seed analysis—a view more in line with the high degree of development of agriculture and the seed in-
dustry of which we are a part. Seed testing laboratories have always functioned in a rather passive manner. Tests are made and results reported. There is relatively little interaction between the seed analyst and the seed control official, or the seed producer, or the farmer. Few laboratories try to use the tremendous amount of information developed in testing to assist seed producers and companies in improving the quality of their seed.

Our colleagues in the SCST are much more actively involved in the seed industry. Those employed by seed companies usually function in a quality control or assurance capacity. Those involved in general service work are expected to interact closely with their clients. “Official” seed analysts have much to learn from commercial seed analysts. Let us be humble enough to take advantage of every opportunity to do so.

The supervisors of official laboratories have the responsibility to provide opportunities for every analyst to learn about the many other components of the industry served. Analysts ought to visit seed production fields, processing plants, foundation seed programs, certification agencies, and seed control units to gain some understanding of what they do, and how seed testing relates to it. Certainly, they would develop a better appreciation of the place of seed testing in the overall seed industry, and a better understanding of the needs and problems of the various components of the industry.

We do need to be ever mindful of the tendencies arising out of specialization that can impede progress and to guard against them. If we make the effort to learn about the industry we serve and to achieve a broader view, our profession will grow and flourish. We will come to know that our particular tree is part of a large forest.
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