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TYPES OF PAPERS – Original research papers, review articles and Seed Tech Notes are reviewed for publication. Manuscripts should be typed, double spaced and sent to the Editor electronically as a Word or WordPerfect document. Potential authors should note that there are no page charges and reprints can be ordered directly from the printer at a minimal fee. Refer to the last pages of this volume for Instructions to Authors for manuscript and Seed Tech Note submissions.

SUBSCRIPTIONS – Seed Technology is published one to two times annually. The annual subscription price for individuals is $75.00 in North America and $85.00 outside of North America; university and library annual subscriptions are $125.00 in North America and $135.00 outside of North America. All subscription prices are in US dollars and include postage. Subscriptions should be sent direct or through a bookseller to: Anita Hall, Executive Director, Society of Commercial Seed Technologists, Inc., 101 East State St., #214, Ithaca, NY 14850, USA, www.seedtechnology.net.
EDITORIAL

It has been my pleasure to act as Editor-in-Chief for Seed Technology for the past two years. I am pleased that we are now publishing two volumes of the journal on a regular schedule in June and December annually. I want to express a special thank you to Dr. Cindy Finneseth who has assisted me as Editor of the journal as well as the many Associate Editors for their efficient and professional peer reviews of journal manuscripts. I am very pleased that Cindy will assume the duties of Editor-in-Chief and will be assisted by Dr. Riad Baalbaki as Editor for the next few years. With their capable leadership the journal is in good hands and will continue to provide new information to Seed Analysts, Technologists and Scientists in both the private and public sectors. Please remember that this journal represents the views and agenda of the two predominant seed organizations in North America; Association of Official Seed Analysts and Society of Commercial Seed Technologists. Both organizations are currently represented by a journal committee with Victor Vankus as chair. I want to express my appreciation to this committee for their support of the editorial staff and their dedication to improve the quality of the journal for the benefit of the readers. Remember that this is your journal. Thus, do not hesitate to submit ideas to the journal committee or the editors to improve the journal. Finally, it is with some sadness and anxiety that I bid my many friends in both the AOSA and SCST a farewell and extend my best wishes to everyone for successful careers as analysts, administrators and technologists in this wonderful field of Seed Science and Technology. I look forward to reading future issues of Seed Technology in my retirement years.

Dennis M. TeKrony
Retiring Editor-in-Chief

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Instructions to Authors

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Manuscripts must be clearly written using proper English. If English is not the primary language of the author, the manuscript should be reviewed by someone proficient in English prior to submission to the journal. Manuscripts should be submitted via e-mail as an electronic document in MS Word or WordPerfect for Windows. See “Guidelines for Submission” at the end of the instructions. Five types of submissions will be considered for publication:

a. **Full-length manuscripts** should report new information to the subject area or expand on established knowledge to contribute additional information of value. Manuscripts undergo peer review to determine that adequate scientific methods were applied, that interpretations and conclusions are valid, and that all aspects of the study are adequately presented.

b. **Seed Tech Notes** are appropriate for the reporting of seed laboratory or seed production research that may not justify a full paper, but provide important information of potential practical importance. This may include new techniques or developments, standardization of old techniques or anatomical, pathological or other documentation of seed or seedling development. The requirements for such notes are described below.

c. **Technical Papers** presented orally or by poster at the annual meeting of the Association of Official Seed Analysts (AOSA) and Society of Commercial Seed Technologists (SCST) are invited, which cover topics of general interest to the seed biologist or technologist.

d. **Symposia** or workshops presented to the AOSA/SCST membership may be recorded in the journal for future reference. Organizers should prearrange with the Editor to receive papers from the presenters of symposia and workshops within a specified timeframe for inclusion in a single journal issue.

e. **Review articles** are welcomed by special prior arrangement with the Editor or Editor-in-Chief. Reviews should cover a summary of a seed biology or seed technology topic or an evaluation of a seed science or technology related publication. The content of reviews should have a strong technical and/or scientific base.
INSTRUCTIONS FOR FULL LENGTH PAPERS

Manuscripts should be arranged in the following order: Title (no separate title page), Author(s), Abstract, Text, Acknowledgments, References, Tables, Captions for Figures (separate page) and Figures. The title should be concise (10 to 12 words) but informative, containing key words which describe the subject matter for use in abstracting systems. The name of the author(s) should be placed below the title with an asterisk (*) after the name of the corresponding author.

The abstract should concisely summarize the entire scope of the paper including findings and conclusions without reference to text or figures. All categories of manuscripts or papers submitted to the journal must have an abstract. It should appear immediately below the title and authors and consist of not more than 250 typed words. Authors may provide a translation of the abstract in one additional language, which will be printed in the journal following the primary abstract in English. Availability of abstracts in alternate languages should be discussed with the Editor early in the submission process. Accuracy in regard to content and grammar of the second abstract is the responsibility of the corresponding author. Do not include a list of key words.

The text of the manuscript should normally have the subject matter grouped under the following major headings: Introduction, Materials and Methods, Results, Discussion (Results and Discussion may be combined), Acknowledgments (optional) and References. Main headings are centered on each page and capitalized in bold type. Secondary headings begin at the left margin (do not indent) with the first letter capitalized and the entire heading in bold print. Use of a previous issue of the journal as a guide to format is recommended.

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Abbreviations. Use standard abbreviations (for example, Fig., RH, °C) listed in Scientific Style and Format without definition. Other abbreviations should be defined at first usage and may be used thereafter without further definition. Names of states, provinces and countries should be abbreviated following city names, using appropriate abbreviations of the postal service in that country.
Units. Metric units must be used for all measurements and the SI system (Système International d’Unités) used insofar as possible.

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Acknowledgment. This section lists institutional sponsors with identification of the research project including granting agency recognition, if appropriate. This segment can also be used to thank anyone who was instrumental in or contributed to the completion of this study.

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It is always preferred for papers to have references, but some papers based on presentations or workshops may be acceptable without them by prior arrangement with the Editor.

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GUIDELINES FOR SUBMISSION

Initial submission should be by e-mail attachment. The manuscript should be typed, double spaced with ample margins (at least 4.0 cm on each side) on one side of line-numbered paper (approximately 21 x 28 cm) to include the text of the manuscript; all pages should be numbered consecutively. All tables and figures should be typed on separate numbered pages from the main text in an
acceptable format. Macintosh and Windows versions of MS Word or WordPerfect may be used for submission. If files are submitted as e-mail attachments, both files can also be accepted in MS-Works, RTF, ASCII, and other formats if the preferred options are not available. Manuscripts should be e-mailed to the Editor:

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The format for Seed Tech Notes, technical papers and presentations from symposia or workshops is as for full length papers insofar as practical. The text headings may be the same as a full paper or may be arranged by Abstract, Experimental Techniques, Results and Discussion, and References, if that format is more suitable to the presentation of the material. The Experimental Techniques section will include a brief narrative of those elements normally included in the Introduction and Materials and Methods sections of full length papers. Seed Tech Notes and technical papers are usually much shorter and may present only preliminary research data compared to full length papers. These papers should not exceed four pages of printed text and a maximum of two figures, tables or photographs. Papers presented at committee meetings, symposia and workshops not containing cited references or other conventional journal paper elements may be considered for publication if these presentations contain information of a practical nature or general interest in seed biology and technology.

SYMPOSIA PUBLICATIONS

Manuscripts resulting from symposia on seed biology or technology topics will be considered for publication in a single volume of Seed Technology by prearrangement with the Editor. Manuscripts may originate from symposia sponsored by the Association of Official Seed Analysts or the Society of Commercial Seed Technologists or from appropriate seed symposia sponsored by other organizations. Symposia organizers desiring to publish a set of manuscripts in Seed Technology must solicit the Editor with the following information: (i) title, date and location of the symposium, (ii) the organization affiliated with the symposium, (iii) names, addresses, e-mail and telephone numbers of
symposium organizers and (iv) titles and abstracts for each paper to be considered for publication. Symposia papers are subject to the usual format described above for *Seed Technology* and will be reviewed by the editorial board prior to acceptance for publication.

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