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Aims and Scope: Seed Technology is an international journal containing scientific and technological papers in all areas of Seed Science and Technology. The emphasis is on applied and basic research in seed physiology, pathology and biology that may relate to seed development, maturation, germination, dormancy and deterioration. Studies on seed production, sampling, testing, conditioning, distribution and storage are also included. Short communications from seed analysts and technologists are encouraged and will be published as Seed Tech Notes. These notes include new techniques, standardization of laboratory tests and documentation of anatomical and pathological observations of seed and seedling development. The journal also includes timely review articles of seed technology that may relate directly to the seed industry.

Types of Papers: Original research papers, review articles and Seed Tech Notes are reviewed for publication. All manuscripts should be submitted online. 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 (Instructions to Authors) for detailed instructions regarding manuscript submissions.

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EDITORIAL

We are pleased that this volume of Seed Technology includes a special section entitled "Seed Science and Technology — Research and Testing Needs." In this section, three invited authors with long and distinguished careers in seed testing share their insights as well as suggestions for future seed testing needs. The present volume also includes nine full-length manuscripts and two Seed Tech Notes, with subjects ranging from characterization of genotypes to physiology of germination and novel techniques for seed and seedling evaluation. Seed Technology continues to attract authors and readers from around the globe. The recent financial reorganization of our two sponsoring organizations has resulted in longer publication delays than we had anticipated. However, we remain committed to producing a quality publication and to publishing two issues annually.

The role played by the Journal Committee in promoting and publishing this journal has always been greatly appreciated, but never more so than in 2013. The Journal Committee played a critical role in securing the needed funds and support for publication of this issue. Without their commitment and perseverance, publication would not have been possible. As with every issue, we value the contributions of the many associate editors and peer reviewers. The continued support of our two sponsoring organizations, the Association of Official Seed Analysts and the Society of Commercial Seed Technologists, is highly appreciated.

Riad Baalbaki
Editor

Susan Alvarez
Assistant Editor

Cover illustration: Structures commonly referred to as “seeds,” whether true seeds or botanically fruits, exhibit a high degree of variation, especially in size and external morphology. The top two rows illustrate variations in external morphology observed among “seeds” of different species. From top left: Pouteria Aubl. sp., SAPOTACEAE; Dypsis lutescens (H. Wendl.) Beentje & J. Dransf., ARECACEAE; Adenanthera pavonina L., FABACEAE; Avena sativa L., POACEAE; Bourreria succulenta Jacq., BORAGINACEAE; Crotalaria senegalensis (Pers.) Bacle ex DC., FABACEAE; Viola palmata L., VIOLACEAE; Oxalis corniculata L., OXALIDACEAE. The bottom row lists the same species in the same order, presented to scale (scale line = 1 cm), to illustrate size differences. Photo credit: Riad Baalbaki, California Department of Food and Agriculture.
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In the article by Barbour and Carvalho (2012), an error occurred on pages 231 and 232, in the legends of figures 1 and 2. The figures with correct legends should be as follows:

**Figure 1.** Total germination by germination classes (GC 50–59% to 85–100%) and prechill length (0 to 63 d) for longleaf pine seeds. Each data point represents the confidence interval for the mean (95% level).

**Figure 2.** Total germination by germination classes (GC 50–59% to 85–100%) and germination temperature (15 to 30 °C) for longleaf pine seeds. Each data point represents the confidence interval for the mean (95% level).

**Reference**
Seed Technology

Instructions to Authors

*Seed Technology* is an international journal that publishes original papers, review articles, technical notes and symposia in all areas of seed science and technology. This includes information from applied and basic seed research in physiology, pathology and biology for all plant species. The journal relates to individuals interested in seed production, sampling, testing, conditioning, distribution and storage of agronomic, horticultural and forest seed crops. Papers are accepted on the understanding that they have not been published or submitted to any other scientific journal. The criteria for acceptance are originality, quality of research and interest to readership. Manuscripts are peer-reviewed by two or more anonymous reviewers, with final acceptance resting with the Editorial Board. The journal is published two times per year and is available as paper copies by contacting: SCST Business Office, 653 Constitution Ave. NE, Washington, D.C. 20002, USA (phone: 202-870-2412). Subscription information and order forms are available online at: [http://www.seedtechnology.net/journal.htm](http://www.seedtechnology.net/journal.htm).

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 online; 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. 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 MANUSCRIPTS

Instructions for full length manuscripts should be carefully reviewed to ensure that the submitted manuscript complies with Seed Technology standards and requirements. If these guidelines are not closely adhered to, papers will be returned to authors for revision or released from further consideration for the journal.

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. Do not include a list of key-words. 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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contain information of a practical nature or general interest in seed biology and technology.

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