Invited Speakers Short Academic CV

ALAN G. TAYLOR, PROFESSOR
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EDUCATION

B.S. Heidelberg College, Tiffin, OH	1975	Biology/Botany
M.S. Michigan State University, E. Lansing, MI	1977	Horticulture
Ph.D., Oklahoma State University, Stillwater, OK	1981	Horticulture/Crop Science

EMPLOYMENT HISTORY (optional section)

1997 - present	Professor of Seed Science and Technology, Cornell AgriTech, Cornell Uni
2017	Sabbatical leave, Rochester Institute of Technology University
1990 – 1991	Sabbatical leave, Oregon State University
1986 – 1997	Associate Professor Seed Science and Technology, NYSAES, Geneva
1981 – 1986	Assistant Professor Seed Science and Technology, NYSAES, Geneva

HONORS / AWARDS

- Plague from Cornell's College of Agriculture and Life Sciences for leadership, dedication and service to the New York State Seed Testing Laboratory, 2017
- Recognition certificate by the Atlantic Seed Association for dedication to research on seed treatments, 2016
- Best Paper AAIC (Association for the Advancement of Industrial Crops), 2013
- Best Poster ISTA (International Seed Testing Association), 2013
- Seed Science Award presented by the Crop Science Society of America, 2003

CONFERENCES / TALKS

Numerous

SERVICE

2020 - 2021	Invited guest editor of a Special Issue on Modern Seed Technology
2010 - 2016	Administrative oversight of the New York State Seed Testing Lab
2004 - 2010	Department Chairman of Horticultural Sciences, Geneva, Cornell U

BOOK CHAPTER/PUBLICATIONS

Taylor, A.G. Seed storage, germination, quality and enhancements. 2020. In *The Physiology of Vegetable Crops*. 2nd edition. Ed: H.C. Wien and H. Stutzel. CAB International: Wallingford, England; pp 1-30.

Yildirim, E., **A.G. Taylor** and T.D. Spittler. 2006. Ameliorative effects of biological treatments on growth of squash under salt stress. Scientia Horticulturae 111: 1-6.

Kavak, S. and **A.G. Taylor**. 2013. Caryopsis extraction from big bluestem spikelets (Andropogon gerardii) with seed conditioning equipment: optimal water activity for recovery and seed quality. Seed Science & Technol: 41, 60-72.

Sikhao, P., **A.G. Taylor**, E.T. Marino, C.M. Catranis and B. Siri. 2015. Development of seed agglomeration technology using lettuce and tomato as model vegetable crop seeds. Scientia Horticulturae: 184, 85-92.

Wilson, H.T, Amirkhani M and **Taylor A.G**. 2018 Evaluation of gelatin as a biostimulant seed treatment to improve plant performance. Front. Plant Sci. 9:1006. https://doi.org/10.3389/fpls.2018.01006

Yang, D., S. A. G. Avelar, **A.G. Taylo**r. 2018. Systemic seed treatment uptake during imbibition by corn and soybean. Crop Science: 58, 2063-2070. https://doi.org/10.2135/cropsci2018.01.0004

Yang D, S. Donovan, B. C. Black, L. Cheng and **A.G. Taylor**. 2018. Relationships between compound lipophilicity on seed coat permeability and embryo uptake by soybean and corn. Seed Science Research. 1–7. https://doi.org/10.1017/S096025851800017X

Amirkhani, M., Mayton, H.S., Netravali, A.N. and **Taylor, A.G**. 2019. A seed coating delivery system for bio-based biostimulants to enhance plant growth. *Sustainability* 11, 5304. https://doi.org/10.3390/su11195304

Afzal, I.; Javed, T.; Amirkhani, M.; **Taylor, A.G.** Modern Seed Technology: Seed coating delivery systems for enhancing seed and crop performance. *Agriculture* 2020, *10*, 526. https://www.mdpi.com/2077-0472/10/11/526/htm

Qiu, Y., Amirkhani, M., Mayton, H., Chen, Z., **Taylor, A.G**. 2020. Biostimulant seed coating treatments to improve cover crop germination and seedling growth. *Agronomy 10*, 154. https://doi.org/10.3390/agronomy10020154

Wang, Z., Amirkhani, M., Avelar, S.A., Yang, D., **Taylor, A.G**. 2020. Systemic uptake of fluorescent tracers by soybean (*Glycine max* (L.) Merr.) seed and seedlings. *Agriculture 10*, 248. https://doi.org/10.3390/agriculture10060248

Mayton, H.; Amirkhani, M.; Yang, D.; Donovan, S.; **Taylor, A.G**. 2021. Tomato Seed Coat Permeability: Optimal Seed Treatment Chemical Properties for Targeting the Embryo with Implications for Internal Seed-Borne Pathogen Control. *Agriculture*, *11*, 199. https://doi.org/10.3390/agriculture11030199

Erica A Moretti, **Alan G Taylor**, Kyle Wickings, Brian A Nault, 2021. Insights into How Spinosad Seed Treatment Protects Onion From Onion Maggot (Diptera: Anthomyiidae), *Journal of Economic Entomology*,;, toaa332, https://doi.org/10.1093/jee/toaa332

PROFESSIONAL AFFILIATIONS

• Associate member of the International Seed Testing Association and Editorial Board of Seed Science & Technology journal

• Member of International Seed Science Society, Crop Science Society of America, American Society for Horticultural Sciences

• Voting member of Multistate project, W4168.