

**MSU Seed and Agricultural Technology Short Course Sponsorship, 24-2022  
Final Report**

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**Rationale/Justification for Research**

The MSU Seed and Agricultural Technology short course is an annual event (since 2015) held at MSU to impact and strengthen the Seed & Ag. Technology industry/value-chain. The short course promotes industry advancements, provides current trainings and resources, and provides a networking opportunity for industry professionals, stakeholders, and MSU personnel.

Each year the high-impact training program has averaged 90-100 attendees made up of seed/crop commodity producers, equipment manufacturers, seedsmen, engineers, sales technicians, processors, crop consultants, agronomists, and Extension specialists from across 16 states. MSU research professionals and graduate students are also in regular attendance and participation. Attendees are presented with current information and technical resources covering seed technology topics including seed storage, conditioning, processing, genetics, treatments, biologics, testing, labeling, and State/Federal seed laws. Precision Ag. Technology topics include farm/field data management, Drone/UAV applications, digital tools, precision planting, precision technology economics, and on-farm technology applications. Speakers include a variety of qualified industry professionals and scientists from across the nation. Certified Crop Advisor CEU's and MS commercial pesticide applicator recertification credits are often offered at each short course.

**Report of Progress/Activity**

**Final Report:** The 2022 MSU Seed and Ag. Technology short course was held on August 15-16. The short course consisted of 13 technical presentations, a hands-on seed cleaning/conditioning equipment demonstration by Bratney Companies, and a hands-on industrial electric safety demonstration by Coahoma Electric Power Association. Participants learned about management and implementation of precision agricultural information and data, carbon credit market economics, agricultural autonomous technologies, and prescriptive and high-speed planting technologies for seed and crop production. Principles of seed and grain storage and drying, post-harvest pest management, industrial electrical safety, seed-borne diseases, ThryvOn technology, and state and federal seed laws were also discussed. A total of 92 participants were registered for the 2022 short course. The MSPB \$500 sponsorship was used to offset the costs of catering and event services. Attendance was up 2% from 2021. A total of 90 people registered for the 2022 short course. Of those, 4 were equipment manufacturers, 11 were growers, 4 were seed processing, 11 were seed production, 8 were seed sales, and 52 identified as service providers. 9 states were represented: Alabama, Arkansas, Georgia, Iowa, Kentucky, Missouri, Mississippi, North Carolina, and Tennessee.