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Aerial Application Technology
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PROFESSIONAL PROFILE

The goal of the USDA-ARS Aerial Application Technology group is to support the aerial application industry through research targeting the safe, efficient, efficacious and environmentally responsible application of crop production and protection products. Specifically, the areas of research in which I am actively involved include the physical and chemical characteristics of spray materials, the atomization process of the spray material as it leaves the nozzle, deposition and interaction of the applied sprays with the crop canopy, biological assessment of spray treatments, the measurement and modeling the off target spray movement, and the assessment of technologies and methods to reduce spray drift. Other recent research activities have focused on the measurement of sprays using active and passive collectors, assessing how insect bioassay cages interact with sprays, and assessment of application equipment used to control insects that vector diseases such as mosquitos, sand flies and citrus psyllids.

EDUCATION

1991-1995, Texas A&M University; Major: Agricultural Engineering; B.S. 1995.
1996-1998, Texas A&M University; Major: Agricultural Engineering; M.S. 1998.
1999-2002, Texas A&M University; Major: Agricultural Engineering; Ph.D. 2002.

EMPLOYEMENT

2002-Present. Agricultural Engineer, Aerial Application Technology, Areawide Pest Management Research Unit, USDA-ARS, College Station, TX.

PROFESSIONAL SOCIETY MEMBERSHIPS AND TECHNICAL COMMITTEES

American Society of Agricultural and Biological Engineers

PM-23/6/2 Liquid Application – Aerial Application Technical Sub-Committee; Chair 2002-05.

PM-23/6/4 Modeling Sub-committee; Member 2008-present

PM-23/6 Application Systems and U.S. Technical Advisory Group ISO/TC23/SC6 Committee; Secretary 2005-07; Chair 2007-2009.

PM-02 Steering Committee; Member 2007-2009.

T-09 Environmental Quality Coordinating Committee; Member 2007-2009.

National Agricultural Aviation Association

Master of Ceremonies and Organizer, Joint Technical Session of American Society of Agricultural Engineers and National Agricultural Aviation Association, 2003-05

Member of the NAAA Board Research and Technology Committee, 2010-present

Texas Agricultural Aviation Association

Member 2007-present.

ASTM International

E35 Pesticides and Alternative Control Agents Committee, Member 2007-present

E35.22 Pesticide Formulations and Delivery Systems, Member 2007-present.

American Mosquito Control Association
Member 2008-present