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Education

1998 PhD Entomology - University of Aberdeen.

Research Interests and Specialties

Forest Entomology (Plant-Insect Interactions)
Behavior and Chemical Ecology of Invasive Pests
Electrophysiology (GC-EAD and Retinogram)
Host Volatile / Pheromone Identification & Lure Development

Publications

D. J. Crook & A. J. Mordue (1999) Olfactory responses and sensilla morphology of the blackcurrant leaf midge *Dasineura tetensi*. *Entomologica Experimentalis et Applicata* 91 (1) 37-50.

J. V. Cross & **D. J. Crook** (1999) Predicting spring emergence of blackcurrant leaf midge (*Dasineura tetensi*) from air temperatures. *Entomologica Experimentalis et Applicata*. 91: 421-430.

D. J. Crook, J. V. Cross, A. N. E. Birch, R. M. Brennan & A. J. Mordue (Luntz) (2001) Oviposition and larval survival of *Dasineura tetensi* on four blackcurrant *Ribes* cultivars in the UK. *Entomologica Experimentalis et Applicata*. 101: 183-190.

J. V. Cross, M. A. Easterbrook, A. M. Crook, **D. J. Crook**, P. J. Innocenzi, C. N. Jay & M. G. Solomon (2001) Review: Biocontrol of pests of strawberry in northern and central Europe. *Biocontrol Science & Technology*. Vol 11. Issue 1.

F. M. Stephen, V. B. Salisbury, F. Limp, and **D. J. Crook**. (2002) Red Oak Borer, *Enapholodes rufulus* (Coleoptera: Cerambycidae): A remarkable epidemic of Oak

Mortality in the Interior Highland Forests. AFRC-CES sponsored symposium in Little Rock, AR May 23, 2002.

D. J. Crook, R. A. Higgins & S. B. Ramaswamy (2003) Antennal morphology of the soybean stem borer *Dectes texanus texanus* LeConte (Coleoptera: Cerambycidae) Journal of the Kansas Entomological Society. 76 (3) 397-405.

D. J. Crook, J. A. Hopper, S. B. Ramaswamy & R. A. Higgins (2004) Courtship behavior of the soybean stem borer *Dectes texanus texanus* (Coleoptera: Cerambycidae): evidence for a female contact sex pheromone. Annals of the Entomological Society of America. 97(3) 600-604.

D. J. Crook, F. M. Stephen, M. K. Fierke, D. L. Kinney & V. B. Salisbury (2004) Biology and sampling of red oak borer populations in the Ozark mountains of Arkansas. Spetich, M.A., ed. Upland Oak Ecology. A Symposium: history, current conditions, and sustainability. Gen. Tech. Rep. SRS-73. Asheville, NC: U.S. Department of Agriculture, Forest Service, Southern Research Station: 223-228.

Fierke, M. K., D. L. Kinney, V. B. Salisbury, **D. J. Crook** & F. M. Stephen (2005) Development and Comparison of Intensive and Extensive Sampling Methods and Preliminary Within-Tree Population Estimates of Red Oak Borer (Coleoptera: Cerambycidae) in the Ozark Mountains of Arkansas. Environmental Entomology. 34 (1) 184 - 192.

Fierke, M. K., D. L. Kinney, V. B. Salisbury, **D. J. Crook** & F. M. Stephen (2005) A rapid estimation procedure for within-tree populations of red oak borer (Coleoptera: Cerambycidae). Forest Ecology and Management 215: 163-168.

Crook, D. J., M.K. Fierke, D.L. Kinney, V.B. Salisbury, F.M. Stephen. (2007). Optimization of Sampling Methods for Within-tree Populations of Red Oak Borer, *Enaphalodes rufulus* (Haldeman) (Coleoptera: Cerambycidae). Environmental Entomology 36: 589-594.

Crook, D. J., A. Khrimian, J. A. Francese, I. Fraser, T. M. Poland, A. J. Sawyer & V. C. Mastro (2008). Development of a host based semiochemical lure for trapping emerald ash borer *Agrilus planipennis* (Coleoptera: Buprestidae). Environmental Entomology. 37: 356-365.

Crook, D. J., L. M. Kerr & V. C. Mastro (2008). Sensilla on the antennal flagellum of *Sirex noctilio* (Hymenoptera: Siricidae). Annals of the Entomological Society of America. 101 (6): 1094-1102.

Crook, D. J., L. M. Kerr & V. C. Mastro (2008). Distribution and fine structure of antennal sensilla in emerald ash borer (Coleoptera: Buprestidae). Annals of the Entomological Society of America. 101 (6): 1103-1111.

Crook, D. J., S. Prabhakar & B. Oppert (2008) Protein digestion in larvae of the red oak borer, *Enaphalodes rufulus*. Physiological Entomology. (accepted Nov 2008, in press).

Crook, D. J., J. A. Francese, K. E. Zylstra, I. Fraser, A. J. Sawyer, D. W. Bartels, D. R. Lance & V. C. Mastro (2009) Laboratory and field response of the emerald ash borer, *Agrilus planipennis* (Coleoptera: Buprestidae) to selected regions of the electromagnetic spectrum. Journal of Economic Entomology. (In Review).