Insect Research and Control Conference Recognition Award for Excellence in Cotton Integrated Pest Management

Extension Specialist & Professor
Department of Entomology

Director,
Arizona Pest Management Center

University of Arizona

Peter C. Ellsworth
Peter is a World Leader in Cotton IPM

Cotton IPM program in Arizona:
- Reduced insecticide use by 82%
- Avoided 30 million pounds of insecticide AI
- Saved growers over $542 million (1996 to 2019)


Publications: >45 journal articles incl. Annual Review Entom., Nature Biotechnology, 2 in PNAS, 10 book chapters, >200 extension publications; 3300 citations
Selected Honors and Awards

- Award for Excellence in Integrated Pest Management, Entomological Society of America (ESA) & Syngenta Crop Protection
- Gold Tier Shining Star Award to the Arizona Pest Management Center, US EPA
- Distinguished Achievement Award in Extension, Pacific Branch of the ESA
- Outstanding Journal Article Award, Western Agricultural Economics Association
- Harold Gunderson Memorial Lecture in Entomology, Iowa State University
- College of Agriculture & Sciences Faculty Member of the Year, AZ ‘Ag’ 100 Council
- Cotton Industry Appreciation Award, AZ Cotton Growers Association
Selective Insecticides, Bt Cotton & Biological Control Help Growers Save >$545 million

- Exclusive use of broad-spectrum insecticides
- Selective whitefly insect growth regulators
- Selective Bt cotton
- Selective Lygus feeding inhibitor
- Brown stink bug outbreak disrupts biocontrols
- Biocontrol stability restored; broad spectrums for brown stink bug eliminated

Foliar Sprays Statewide Average

- '90: 9.0 sprays
- '92: 9.0 sprays
- '94: 9.0 sprays
- '96: 3.9 sprays
- '98: 3.9 sprays
- '00: 1.5 sprays
- '02: 1.5 sprays
- '04: 1.5 sprays
- '06: 1.5 sprays
- '08: 1.5 sprays
- '10: 1.5 sprays
- '12: 3.1 sprays
- '14: 2.13 sprays
- '16: 2.13 sprays
- '18: 2.13 sprays
Cotton IPM

Steve Naranjo  Peter Ellsworth
Pink Bollworm Eradication

PNAS 2021
AZ IPM Coordinating Committee & APMC Staff (2017)

Alex Hu, Peter Ellsworth, Al Fournier, Marco Pe–a; Blase Evancho, Dawn Gouge, Amanda Crump, Shaku Nair, Lucy Li, Junior Evans, Michael Matheron, Juan Pe–a; Tom Montoya, Michael Lindsey, Jack Peterson, Bill McCloskey, Michael Wierda, Lindsey Evans, John Palumbo, Kai Umeda, Ayman Mostafa
• “He has shown exemplary creativity, innovation, impact, leadership and delivery in his research and extension based IPM program that has greatly benefited the cotton industry in Arizona, the USA and globally.”

• “I find Peter’s productivity and commitment to be remarkable, particularly his ability to share his findings with academic peers and farming audiences through different but equally effective mechanisms.”

• “Based on forty-five years of experience in agricultural research and research management, I can think of no one who is more deserving of this award.”
Congratulations & thanks Peter for your extraordinary contributions to cotton IPM!