

**Appointment: 77% Research/23% Teaching**  
**Requested Action: Promotion to the Rank of Professor**

**MICHAEL J. STOUT**  
**CURRICULUM VITAE**

**PRESENT POSITION**

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Associate Professor (L.D. Newsom Professor of Integrated Pest Management),  
Department of Entomology, Louisiana Agricultural Experiment Station, Louisiana  
State University Agricultural Center

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**HISTORY OF EMPLOYMENT AND EDUCATION**

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<b>2002-present</b>	<b>Associate Professor</b> , Department of Entomology, LSU
<b>1997-2002</b>	<b>Assistant Professor</b> , Department of Entomology, LSU
<b>1996-1997</b>	<b>USDA Post-doctoral fellow</b> , Departments of Entomology and Plant Pathology, University of California, Davis.
<b>1990-1996</b>	<b>Research assistant and NSF pre-doctoral fellow</b> , Department of Entomology, University of California, Davis
<b>1988-1990</b>	<b>Research chemist</b> , Takasago International Corporation, Walnut Creek, CA.

**EDUCATION:**

University of California, Berkeley  
B.A., Biological Sciences, *with highest distinction in general scholarship*,  
May, 1989

University of California, Davis  
Ph.D., Entomology, December, 1996  
Dissertation title: "Induced Resistance in the Tomato, *Lycopersicon  
esculentum*: Role of Oxidative Enzymes and Proteinase Inhibitors"

**1.1 HISTORY OF ASSIGNMENTS**

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To be completed by Head of the Department of Entomology.

**1.2 TEACHING**

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**1.2.1 Documentation of teaching activities**

### 1.2.1.1 Teaching evaluations

Average marks from S.P.O.T. evaluations were above the average marks for courses taught in the College of Agriculture in all cases. Recent spot evaluations attached.

### 1.2.1.2 Teaching history

#### *Courses taught, Louisiana State University:*

Entomology 7008. Chemical Ecology of Insects (Special Topics), spring, 2006 (11 students). Instruction and discussion of various aspects of insect chemical ecology (2 credit hours, co-taught with G. Henderson and L. Mao).

Entomology 7002. Plant Resistance to Insects, fall, 1997 (3 students, 1 auditor), 1999 (10 students), 2001 (10 students), 2003 (7 students), 2005 (7 students). Graduate-level course on plant-insect interactions and host-plant resistance (4 credit hours).

Entomology 2001. Insects in the Environment, fall, 2004 (27 students). Introductory, sophomore-level Entomology course for non-majors (3 credit hours, taught lecture portion only).

Agriculture 1005. Science and Society, fall, 2006 (ca. 140 students); spring, 2002 (67 students). General biology course for undergraduate students not majoring in Biology (3 credit hours).

Entomology 7007. Seminar, spring, 2000. Coordinated graduate student seminar course (1 credit hour).

Entomology 7008. Insect Ecology (Special Topics), fall, 2000 (5 students). Graduate-level seminar on recent topics in insect ecology (1 credit hour). Co-taught with L. Hooper.

Entomology 7008. Special Topics, fall, 1999. Assisted, with Dr. T.E. Reagan, three graduate students in their preparations to participate in a student debate at the 1999 Annual ESA Meeting in Atlanta (1 credit hour).

Entomology 7008. Plant-Insect Interactions (Special Topics), fall, 1997 (8 students), 1998 (5 students). Weekly, 1 hour discussions of recent topics in plant-insect interactions (1 credit hour).

#### *New courses developed*

Entomology 7008. Emerging Technologies in Integrated Pest Management (Special Topics), fall, 2000 (5 students). Graduate-level seminar on recent advances in IPM (2 credit hours) Co-taught with Dr. T.E. Reagan. The course has now been formalized under the title "Advanced IPM of Insects" and responsibility for the course has been transferred to Dr. Fangneng Huang. I will contribute several lectures to the course.

### *Graduate committees*

Graduate committees chaired: 6 (K.V. Tindall, M.S., 1998-2000; Li Zou, Ph.D., 2000-2004; K.V. Tindall, Ph.D, 2000-2004 ; D. Patel, M.S., 2001-2005; A.-M. Sanchez, Ph.D., 2003- ; J. Hamm, M.S., 2004- ).

Service on other graduate committees: Member of graduate committees of 17 past or current students in the Department of Entomology, LSU; member of 2 graduate committees in the Department of Plant Pathology/Crop Physiology (one as Dean's Representative); member of 2 graduate committees in the Department of Biology (one as Dean's representative); member of 2 graduate committees in the Department of Biology, University of Louisiana – Lafayette.

#### **1.2.5. Other instructional activities**

##### *Guest lectures and other instructional activities:*

Entomology 4006, Fundamentals of Applied Entomology, Louisiana State University, spring 1998-2006. Lectured on integrated pest management in rice.

Biology 605, Advanced Topics in Environmental Science, University of Louisiana-Lafayette, spring 2003 (two lectures on induced responses to insects)

Insect Physiology and Chemical Ecology of Plant-Insect Interactions, University of California, Davis, spring 1994, winter 1996 (several lectures)

Teaching assistant, Biological Sciences 1B (Introductory Biology), University of California, Davis, winter 1995

### **1.3 RESEARCH AND CREATIVE ACTIVITY**

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#### **1.3.1 Research publications**

##### 1.3.1.2 Shorter works

##### *Book chapters*

Thipyapong, P., **M.J. Stout**, and J. Attajarusit. Functional analysis of polyphenol oxidases by antisense/sense technology. In preparation for *New Research on Antisense Elements*, Nova Science Publishers, Hauppauge, New York.

**Stout, M.J.** Types and mechanisms of rapidly-induced resistance to herbivorous arthropods (contribution accepted and in revision). In Waters, D, A. Newton, and G. Lyon (eds.), *Induced Resistance for Plant Defence: A Sustainable Approach to Crop Protection*, in press.

**Stout, M.J.** and R.M. Bostock. **1999.** Specificity of induced responses to pathogens and insects. Pgs. 183-210. In Agrawal, A., S. Tuzun, and A. Bent (eds.), *Induced Plant Defenses against Herbivores and Pathogens*. American Phytopathological Society, St. Paul.

*Refereed journal articles*

- Mahanil, S., J. Attajarusit, **M.J. Stout**, and P. Thipyapong. Overexpression of tomato polyphenol oxidase increases resistance to common cutworm. *Entomologia Experimentalis et Applicata*, accepted pending revision.
- Way, M.O., F.P.F. Reay-Jones, **M.J. Stout**, and L. Tarpley. 2006. Effects of nitrogen fertilizer applied prior to permanent flood on the interaction between rice and the rice water weevil (Lepidoptera: Curculionidae). *Journal of Economic Entomology* 99: 2030-2037.
- Patel, D.T., **M.J. Stout**, and J.R. Fuxa. 2006. Effects of rice panicle age on quantitative and qualitative injury by the rice stink bug (Hemiptera: Pentatomidae). *Florida Entomologist* 89: 321-327.
- Zhang, Z., **M.J. Stout**, H. Shang, and R. Pousson. 2006. Adaptations of larvae and pupae of the rice water weevil, *Lissorhoptus oryzophilus* Kuschel (Coleoptera: Curculionidae) to living in flooded soils. *Journal of the Kansas Entomological Society* 79: 176-183.
- Patel, D.T., J.R. Fuxa, and **M.J. Stout**. 2006. Evaluation of *Beauveria bassiana* for control of *Oebalus pugnax* (Hemiptera: Pentatomidae) in rice. *Journal of Entomological Science* 41: 126-146.
- Stout, M.J.**, J.S. Thaler, and B.P.H.J. Thomma. 2006. Plant-mediated interactions between pathogenic microorganisms and arthropod herbivores. *Annual Review of Entomology* 51: 663-689.
- Tindall, K.V., B.J. Williams, **M.J. Stout**, J.P. Geaghan, B.R. Leonard, and E.P. Webster. 2005. Yield components and quality of rice in response to graminaceous weed density and rice stink bug populations. *Crop Protection* 24: 991-998.
- Zou, L., **M.J. Stout**, and D. Ring. 2004. Degree-day models for emergence and development of rice water weevil (Coleoptera: Curculionidae) in southwestern Louisiana. *Environmental Entomology* 33: 1541-1548.
- Zhang, Z., **M.J. Stout**, H. Shang, and R. Pousson. 2004. A method for rearing the rice water weevil, *Lissorhoptus oryzophilus* (Coleoptera: Curculionidae) in the laboratory. *The Coleopterist's Bulletin* 58: 644-651.
- Tindall, K.V., **M.J. Stout**, and B.J. Williams. 2004. Effects of transgenic glufosinate-resistant rice on rice water weevils. *Journal of Economic Entomology* 97: 1935-1942.
- Shang, H., **M.J. Stout**, Z. Zhang, and J. Cheng. 2004. Rice water weevil (Coleoptera: Curculionidae) population dynamics in Louisiana. *Journal of Entomological Science* 39: 623-642.
- Tindall, K.V., **M.J. Stout**, and B.J. Williams. 2004. Effects of the presence of barnyardgrass on rice water weevil (Coleoptera: Curculionidae) and rice stink bug (Hemiptera: Pentatomidae) populations on rice. *Environmental Entomology*: 33:720-726.

- Zou, L., **M.J. Stout**, and D. Ring. **2004**. Density-yield relationships for rice water weevil *Lissorhoptrus oryzophilus* on rice for different varieties and under different water management regimes. *Crop Protection*. 23: 543-550.
- Zou, L., **M.J. Stout**, and R.T. Dunand. **2004**. The effects of feeding by the rice water weevil *Lissorhoptrus oryzophilus* Kuschel on the growth and yield components of rice, *Oryza sativa*. *Agricultural and Forest Entomology* 6: 1-7
- Tindall, K.V. and **M.J. Stout**. **2003**. Use of common weeds of rice as hosts for the rice water weevil (Coleoptera: Curculionidae). *Environmental Entomology* 32: 1227-1233.
- Stout, M.J.** and M.R. Riggio. **2003**. Variation in susceptibility of rice lines to infestation by the rice water weevil (Coleoptera: Curculionidae). *Journal of Agricultural and Urban Entomology* 19: 205-216.
- Zehnder, G.W. and **M.J. Stout**. **2002**. Preface (to Special Issue on Induced Resistance: Plant-Pest Interactions Mediated by Plant-Induced Responses. *Archives of Insect Biochemistry and Physiology* 51: iv.
- Stout, M.J.**, G.W. Zehnder, and M.E. Baur. **2002**. Potential for the use of elicitors of plant resistance in arthropod management programs. *Archives of Insect Biochemistry and Physiology* 51: 222-235.
- Stout, M.J.**, W.C. Rice, and D.R. Ring. **2002**. The influence of plant age on the tolerance of rice to injury by the rice water weevil. *Bulletin of Entomological Research* 92: 177-184.
- Stout, M.J.**, M.R. Riggio, L. Zou, and R. Roberts. **2002**. Flooding influences ovipositional and feeding behavior of the rice water weevil, *Lissorhoptrus oryzophilus* (Coleoptera: Curculionidae). *Journal of Economic Entomology* 95: 715-721.
- Pitman, W.D., S. Croughan, and **M.J. Stout**. **2002**. Field performance of bermudagrass germplasm expressing somaclonal variation selected for divergent responses to fall armyworm., *Euphytica* 125: 103-111.
- Tindall, K.V and **M.J. Stout**. **2001**. Plant-mediated interactions between two spatially-separated herbivores of rice. *Entomologia Experimentalis et Applicata* 101: 9-17.
- Stout, M.J.**, W.C. Rice, S.D. Linscombe, and P.K. Bollich. **2001**. Identification of cultivars resistant to the rice water weevil, *Lissorhoptrus oryzophilus* (Coleoptera: Curculionidae), and their use in an integrated management program. *Journal of Economic Entomology* 94: 963-970.
- Thaler, J.S., **M.J. Stout**, R. Karban, and S.S. Duffey. **2001**. Jasmonate-mediated induced plant resistance affects a community of herbivores. *Ecological Entomology* 26: 312-324.
- Stout, M.J.**, W.C. Rice, M.R. Riggio, and D.R. Ring. **2000**. The effects of four insecticides on the population dynamics of the rice water weevil, *Lissorhoptrus oryzophilus*. *Journal of Entomological Science* 35: 48-61.

- Agrawal, A.A., S.Y. Strauss, and **M.J. Stout**. 1999. Costs of induced responses and tolerance to herbivory in male and female fitness components of wild radish. *Evolution* 53: 1093-1104.
- Fidantsef, A.L., **M.J. Stout**, J.S. Thaler, S.S. Duffey, and R.M. Bostock. 1999. Signal interactions in pathogen and insect attack: expression of lipoxygenase, proteinase inhibitor II, and pathogenesis-related protein P4 in the tomato, *Lycopersicon esculentum*. *Physiological and Molecular Plant Pathology* 54: 97-114.
- Rice, W.C., T.P. Croughan, D.R. Ring, M.A. Muegge, and **M.J. Stout**. 1999. Delayed flooding for management of rice water weevil, *Lissorhoptrus oryzophilus* Kuschel (Coleoptera: Curculionidae). *Environmental Entomology* 28: 1130-1135.
- Stout, M.J.**, A.L. Fidantsef, S.S. Duffey, and R.M. Bostock. 1999. Signal interactions in pathogen and insect attack: systemic plant-mediated interactions between pathogens and herbivores of the tomato, *Lycopersicon esculentum*. *Physiological and Molecular Plant Pathology* 54: 115-130.
- Stout, M.J.**, R.A. Brovont, and S.S. Duffey. 1998. Effect of nitrogen availability on the expression of constitutive and inducible chemical defenses in the tomato, *Lycopersicon esculentum*. *Journal of Chemical Ecology* 24: 945-963.
- Stout, M. J.**, K. V. Workman, R. M. Bostock, and S. S. Duffey. 1998. Stimulation and attenuation of induced resistance by elicitors and inhibitors of induced chemistry in tomato (*Lycopersicon esculentum*) foliage. *Entomologia Experimentalis et Applicata* 86: 267-279.
- Hoover, K., **M.J. Stout**, S.A. Alaniz, B.D. Hammock, and S.S. Duffey. 1998. Influence of induced plant defenses in cotton and tomato on the efficacy of baculoviruses on noctuid larvae. *Journal of Chemical Ecology* 24: 253-271.
- Stout, M.J.**, K.V. Workman, R.M. Bostock, and S.S. Duffey. 1998. Specificity of induced resistance in foliage of the tomato. *Oecologia* 113: 74-81.
- English-Loeb, G.M., **M.J. Stout**, and S.S. Duffey. 1997. Drought stress intensity in tomatoes: changes in plant chemistry and nonlinear consequences for insect herbivores. *Oikos* 79: 456-468.
- Stout, M.J.**, J.S. Workman, K.V. Workman, and S.S. Duffey. 1996. Temporal and ontogenetic aspects of protein induction in tomato foliage. *Biochemical Ecology and Systematics* 24: 611-625.
- Thaler, J.S., **M.J. Stout**, R. Karban, and S.S. Duffey. 1996. Exogenous jasmonates simulate insect wounding in tomato plants (*Lycopersicon esculentum*) in the laboratory and field. *Journal of Chemical Ecology* 22: 1767-1782.
- Stout, M.J.** 1996. Should we develop and release pesticide-resistant natural enemies? Pro position. In: F. Gould, G. Kennedy, and R. Kopanic (corresponding organizers), Environmental issues associated with enhancing the impact of biological control agents: a student debate. *American Entomologist* 42: 160-173.

- Duffey, S.S. and **M.J. Stout**. **1996**. Antinutritive and toxic components of plant resistance against insects. *Archives of Insect Biochemistry and Physiology* 32: 3-37.
- Stout, M.J.**, K.V. Workman, and S.S. Duffey. **1996**. Identity, spatial distribution, and variability of induced chemical responses in tomato plants. *Entomologia Experimentalis et Applicata* 79: 255-271.
- Stout, M.J.** and S.S. Duffey. **1996**. Characterization of induced resistance in tomato foliage. *Entomologia Experimentalis et Applicata* 79: 273-283.
- Stout, M.J.**, J. Workman, and S.S. Duffey. **1994**. Differential induction of tomato foliar proteins by arthropod herbivores. *Journal of Chemical Ecology* 20: 2575-2594.
- Kang, R., R. Helms, **M.J. Stout**, H. Jaber, Z. Chen, and T. Nakatsu. **1992**. Antimicrobial activity of the volatile constituents of *Perilla frutescens* and its synergistic effects with polygodial. *Journal of Agricultural and Food Chemistry* 40: 2328-2330.
- Zhang, M., **M.J. Stout**, and I. Kubo. **1992**. Isolation of phytoecdysteroids from *Vitex strickeri* using RLCC and recycling HPLC. *Phytochemistry* 31: 247-250.

#### 1.3.1.6 Miscellaneous publications

##### *Technical bulletins / Non-refereed publications / Annual reports*

- Stout, M.J.** and R. Pousson. **2005**. Dinotefuran: early- and late-season tests. Ann. Res. Rpt., Rice Res. Stn., LSU Agricultural Center 97 (in press).
- Stout, M.J.** and R. Pousson. **2005**. Fertilizer impregnation: early- and late-season tests. Ann. Res. Rpt., Rice Res. Stn., LSU Agricultural Center 97 (in press).
- Stout, M.J.** and R. Pousson. **2005**. Large- and small-plot tests of etofenprox. Ann. Res. Rpt., Rice Res. Stn., LSU Agricultural Center 97 (in press).
- Stout, M.J.** and R. Pousson. **2005**. Comparison of seed treatments: drill- and water-seeded tests. Ann. Res. Rpt., Rice Res. Stn., LSU Agricultural Center 97 (in press).
- Stout, M.J.** and R. Pousson. **2004**. Comparison of foliar insecticides and fertilizer impregnation. Ann. Res. Rpt., Rice Res. Stn., LSU Agricultural Center 96: 541-542.
- Stout, M.J.** and R. Pousson. **2004**. Comparison of seed treatments for rice water weevil control, 2003-2004. Ann. Res. Rpt., Rice Res. Stn., LSU Agricultural Center 96: 543-546.
- Stout, M.J.** and R. Pousson. **2004**. Water- and drill-seeded tests of dinotefuran. Ann. Res. Rpt., Rice Res. Stn., LSU Agricultural Center 96: 547-549.
- Stout, M.J.** and R. Pousson. **2004**. Water- and drill-seeded tests of etofenprox. Ann. Res. Rpt., Rice Res. Stn., LSU Agricultural Center 96: 550-552.
- Stout, M.J.** and R. Pousson. **2004**. Comparison of insecticides for rice stink bug control. Ann. Res. Rpt., Rice Res. Stn., LSU Agricultural Center 96: 553-554.

- Stout, M.J.**, S. Martin, and R. Pousson. **2004**. Test of Karate impregnated on fertilizer. Ann. Res. Rpt., Rice Res. Stn., LSU Agricultural Center 96: 555-556.
- Tindall, K.V., B.A. Castro, **M.J. Stout**, and B.J. Williams. **2004**. Evaluation of selected insecticides for management of sugarcane borer in rice, 2003. Arthropod Management Tests, 2004: 29: F69.
- Tindall, K.V., B.A. Castro, **M.J. Stout**, and B.J. Williams. **2004**. Efficacy of selected insecticides for rice stink bug management in rice in Louisiana, 2003. Arthropod Management Tests, 2004: 29: F70.
- Castro, B.A. and **M.J. Stout**. **2003**. Evaluation of selected insecticides and a tank-mixture for management of rice stink bug and reduction of pecky rice, 2002. Arthropod Management Tests, 2003: 28: F84
- Tindall, K.V., B.J. Williams, and **M.J. Stout**. **2003**. Annual report: Efficacy of selected insecticides on rice stink bug management in rice in Louisiana, 2003.  
[http://www.lsuagcenter.com/inst/research/stations/northeast/Research/2003\\_AP\\_R eports/2003\\_APR/rice\\_research.htm](http://www.lsuagcenter.com/inst/research/stations/northeast/Research/2003_AP_R eports/2003_APR/rice_research.htm)
- Tindall, K.V., B.A. Castro, B.J. Williams, and **M.J. Stout**. **2003**. Annual report: Increase in incidence of sugarcane borer, *Diatraea saccharalis*, damage in the presence of Amazon sprangletop, *Leptochloa panicoides*.  
[http://www.lsuagcenter.com/inst/research/stations/northeast/Research/2003\\_AP\\_R eports/2003\\_APR/rice\\_research.htm](http://www.lsuagcenter.com/inst/research/stations/northeast/Research/2003_AP_R eports/2003_APR/rice_research.htm)
- Tindall, K.V., B.J. Williams, and **M.J. Stout**. **2003**. Annual report: Effect of the presence of barnyardgrass on rice stink bug populations in rice.  
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- Tindall, K.V., B.A. Castro, B.J. Williams, and **M.J. Stout**. **2003**. Annual report: Evaluation of selected insecticides for management of sugarcane borer in rice, 2003.  
[http://www.lsuagcenter.com/inst/research/stations/northeast/Research/2003\\_AP\\_R eports/2003\\_APR/rice\\_research.htm](http://www.lsuagcenter.com/inst/research/stations/northeast/Research/2003_AP_R eports/2003_APR/rice_research.htm)
- Tindall, K.V., B.J. Williams, **M.J. Stout**, and E.P. Webster. **2003**. Annual report: Yield components and quality of rice in response to graminaceous weed density and rice stink bug populations.  
[http://www.lsuagcenter.com/inst/research/stations/northeast/Research/2003\\_AP\\_R eports/2003\\_APR/rice\\_research.htm](http://www.lsuagcenter.com/inst/research/stations/northeast/Research/2003_AP_R eports/2003_APR/rice_research.htm)
- Shang, H.W., **M. J. Stout**, Z. T. Zhang, R. C. Pousson, and Q. R. Chu. **2002**. Reproductive biology and survival of rice water weevil, *Lissorhoptrus oryzophilus* Kuschel (Coleoptera: Curculionidae). Ann. Res. Rpt., Rice Res. Stn., LSU Agricultural Center 94: 474-479.



- Stout, M.J.**, R. Pousson, and B. A. Castro. **2002**. Comparison of insecticides for control of the rice water weevil. Ann. Res. Rpt., Rice Res. Stn., LSU Agricultural Center 94: 468-469
- Stout, M.J.**, R. C. Pousson, and B. A. Castro. **2002**. Methyl parathion rate study. Ann. Res. Rpt., Rice Res. Stn., LSU Agricultural Center 94: 470-471.
- Stout, M.J.** and R. C. Pousson. **2002**. Timing of Karate applications for control of the rice water weevil. Ann. Res. Rpt., Rice Res. Stn., LSU Agricultural Center 94: 472-473.
- Stout, M.J.** and R. C. Pousson. **2002**. Comparative effectiveness of Icon in drill- and water-seeded cultural systems. Ann. Res. Rpt., Rice Res. Stn., LSU Agricultural Center 94: 464-465.
- Stout, M.J.** and R. C. Pousson. **2002**. Timing of Karate applications for control of the rice water weevil. Ann. Res. Rpt., Rice Res. Stn., LSU Agricultural Center (in press).
- Tindall, K.V. and **M.J. Stout**. **2002**. Comparison of Karate and Fury for control of the rice stinkbug in North Louisiana. Ann. Res. Rpt., Rice Res. Stn., LSU Agricultural Center 94: 462-463.
- Zhang, Z.T., **M.J. Stout**, R. Pousson, and H. Shang. **2002**. Attraction of both sexes to each other in the rice water weevil *Lissorhoptus oryzophilus*. Ann. Res. Rpt., Rice Res. Stn., LSU Agricultural Center 94: 480-482.
- Zou, L. and **M.J. Stout**. **2002**. Yields of two rice varieties differing in tolerance to the rice water weevil under a reduced-insecticide regime. Ann. Res. Rpt., Rice Res. Stn., LSU Agricultural Center 94: 466-467.
- Patel, D.T., **M.J. Stout**, and J.R. Fuxa. **2001**. Efficacy of *Beauveria bassiana* and chemical insecticide against the rice stink bug. Ann. Res. Rpt., Rice Res. Stn., LSU Agricultural Center 93: 510-514.
- Stout, M.J.** and W.C. Rice. **2000**. Comparison of insecticides for RWW control. Ann. Res. Rpt., Rice Res. Stn., LSU Agricultural Center 92: 355-356.
- Stout, M.J.**, R. McClain, and W. C. Rice. **2000**. Efficacy of Adage seed treatment against the rice water weevil. Ann. Res. Rpt., Rice Res. Stn., LSU Agricultural Center 92: 353-354.
- Stout, M.J.**, W. C. Rice, and P.A. Bollich. **1999**. Pre-flood applications of Karate for control of the rice water weevil. Ann. Res. Rpt., Rice Res. Stn., LSU Agricultural Center 91: 496-497.
- Stout, M.J.**, W. C. Rice, and P.A. Bollich. **1999**. Residual activity of Icon in replanted rice fields. Ann. Res. Rpt., Rice Res. Stn., LSU Agricultural Center 91: 498-499.
- Stout, M. J.**, W. C. Rice, M.R. Riggio, and P.A. Bollich. **1999**. Efficacy of Confirm against the fall armyworm in rice Ann. Res. Rpt., Rice Res. Stn., LSU Agricultural Center 91: 500-502.

- Stout, M.J.**, W.C. Rice, M.R. Riggio, and P.A. Bollich. **1998**. Comparison of Karate, Dimilin, and Icon against the rice water weevil in water-seeded rice. Ann. Res. Rpt., Rice Res. Stn., LSU Agricultural Center 90: 488-495.
- Stout, M.J.**, W.C. Rice, P.K. Bollich, and P.A. Bollich. **1998**. Impact of fertilization rate on rice resistance and tolerance to the rice water weevil: a preliminary report Ann. Res. Rpt., Rice Res. Stn., LSU Agricultural Center 90: 496-499.
- Stout, M.J.**, W.C. Rice, and P.A. Bollich. **1998**. Host plant resistance to the rice water weevil: preliminary field study. Ann. Res. Rpt., Rice Res. Stn., LSU Agricultural Center 90: 500-502.
- Stout, M.J.**, W.C. Rice, and P.A. Bollich. **1998**. Dimilin EUP and analysis of adult movement. Ann. Res. Rpt., Rice Res. Stn., LSU Agricultural Center 90: 503-506.
- Stout, M.J.** and M.R. Riggio. **1998**. Host-plant resistance to the rice water weevil: preliminary greenhouse studies. Ann. Res. Rpt., Rice Res. Stn., LSU Agricultural Center 90: 507-510.
- Ring, D.R., **M.J. Stout**, M. Muegge, W.C. Rice, and P.A. Bollich. **1997**. Adult rice water weevil density-rice standardized yield response functions. Ann. Res. Rpt., Rice Res. Stn., LSU Agricultural Center 89: 445-450.
- Stout, M.J.**, W.C. Rice, P.A. Bollich, M.A. Muegge, and D.R. Ring. **1997**. Evaluation of Dimilin for control of rice water weevil. Ann. Res. Rpt., Rice Res. Stn., LSU Agricultural Center 89: 451-456.
- Ring, D.R., R. Levy, E. Eskew, H. Cormier, T. Erwin, and **M.J. Stout**. **1997**. Efficacy of Karate for managing rice water weevil in large field plots in Louisiana, 1997. Ann. Res. Rpt., Rice Res. Stn., LSU Agricultural Center 89: 457-458.
- Stout, M.J.**, W.C. Rice, P.A. Bollich, M.A. Muegge, and D.R. Ring. **1997**. Evaluation of Karate for control of rice water weevil. Ann. Res. Rpt., Rice Res. Stn., LSU Agricultural Center 89: 459-463.

#### *Proceedings*

- Tindall, K.V., B.J. Williams, **M.J. Stout**, and E.P. Webster. **2004**. Yield components and quality of rice in response to graminaceous weed density and rice stink bug populations, pp. 33-34. *In* Proceedings Louisiana Plant Protection Association Annual Meeting, Baton Rouge, LA. March 15-16, 2004.
- Castro, B.A., **M.J. Stout** and K.V. Tindall. **2004**. Management considerations for stink bugs in rice, pp. 25. *In* Proceedings Louisiana Plant Protection Association Annual Meeting, Baton Rouge, LA. March 15-16, 2004.
- Tindall, K.V., B.J. Williams, **M.J. Stout**, and E.P. Webster. **2004**. Yield components and quality of rice in response to graminaceous weed density and rice stink bug populations. *In* Proceedings Rice Technical Working Group, New Orleans, LA. March 1-2, 2004 (In press).

- Tindall, K.V., B.A. Castro, B.J. Williams, and **M.J. Stout**. **2004**. Increase in incidence of sugarcane borer, *Diatraea saccharalis*, damage to rice in the presence of Amazon sprangletop, *Leptochloa panicoides*. In Proceedings Rice Technical Working Group, New Orleans, LA. March 1-2, 2004 (In press).
- Tindall, K.V., B.J. Williams, E.P. Webster, and **M.J. Stout**. **2004**. Individual and combined effects of graminaceous weeds and rice stink bugs (*Oebalus pugnax*) in rice (*Oryza sativa*), pp. 79. In Proceedings Weed Science Society of America Annual Meeting, Kansas City, MO. February 9-12, 2004.
- Tindall, K.V., B.J. Williams, and **M.J. Stout**. **2004**. Influence of barnyardgrass, *Echinochloa crus-galli*, developmental stage on rice stink bug *Oebalus pugnax* populations on rice, *Oryza sativa*, pp. 19. In Proceedings Weed Science Society of America Annual Meeting, Kansas City
- Tindall, K.V., B.J. Williams, and **M.J. Stout**. **2003**. Effect of timing of barnyardgrass emergence on rice stink bug populations in rice, pp. 38-39. In Proceedings Louisiana Plant Protection Association Annual Meeting., Baton Rouge, LA. March 13-14 2003.
- Tindall, K.V., B.J. Williams, and **M.J. Stout**. **2003**. Influence of barnyardgrass on rice stink bug populations in rice, pp. 193-194. In Proceedings Southern Weed Science Society Annual Meeting, Houston, TX. January 27-29, 2003.
- Tindall, K.V., B.J. Williams, E.P. Webster, and **M.J. Stout**. **2003**. Effects of barnyardgrass density on rice yields, pp. 306. In Proceedings Southern Weed Science Society Annual Meeting, Houston, TX. January 27-29, 2003.
- Tindall, K.V. and **M.J. Stout**. **2003**. Effects of herbicide-resistant rice (var. "Liberty Link") on rice water weevil, pp. 76. In Proceedings 4th National Integrated Pest Management Symposium, Indianapolis, IN. April 8-10, 2003.
- Tindall, K.V., E.P. Webster, **M.J. Stout**. **2002**. Potential impact of 'Liberty Link' rice on rice water weevil. Pgs. 117-118. In Proceedings Southern Weed Science Society Annual Meeting, Atlanta, GA. January, 28-30 2002.
- Tindall, K.V., B.J. Williams, **M.J. Stout**. **2002**. Influence of weeds on insect pests of rice, pp. 200-201. In Proceedings Southern Weed Science Society Annual Meeting, Atlanta, GA. January, 28-30 2002
- Tindall, K.V. and **M.J. Stout**. **2001**. The rice water weevil's preference for and association with common weeds found in rice fields. In Proceedings Louisiana Plant Protection Association Annual Meeting, Baton Rouge, LA. March 26-27, 2001.

*Non-technical publications*

- Tindall, K.V., **M.J. Stout**, B.J. Williams, B.A. Castro, and E.P. Webster. **2004**. Integrating insect and weed management in rice. *Louisiana Agriculture* 47: 10-11.

**Stout, M.J.**, W.C. Rice, and D.R. Ring. 2002. Development of an integrated management program for the rice water weevil in Louisiana rice. *Louisiana Agriculture*, Winter 2002 issue.

#### **1.3.4. Participation in Professional Meetings, Symposia, Workshops, and Conferences**

*Participation in symposia, workshops, conferences, etc.*

*Co-organizer* (with W. White, T. Reagan), International Plant Resistance to Insects , 17<sup>th</sup> Biennial Workshop, March, 2004. Baton Rouge, LA.

*Panel Chair, Plant Protection panel*, 30<sup>th</sup> Rice Technical Working Group, New Orleans, LA, February 29-March 3, 2004.

*Topic Co-coordinator* (with G. Felton, Pennsylvania State University), “New Management Technologies”, 4<sup>th</sup> National IPM Symposium, April 2003. Indianapolis, IN.

*Member, Local Arrangements Committee*, 77<sup>th</sup> Annual Meeting, Southeastern Branch, Entomological Society of America, Baton Rouge, Louisiana, 9-12 March, 2003.

*Member* of scientific delegation from LSU AgCenter to National Rice Research Institute, Hongzhou, China, Fall, 2001.

*Co-organizer* (with G. Zehnder), “Induced resistance: plant-pest interactions mediated by plant-induced responses”. 2001 Annual Meeting, Entomological Society of America, San Diego, CA.

*Invited participant*, “Role of ARS in meeting research needs of the rice industry”, sponsored by the USDA, Dale Bumpers National Rice Research Center, Stuttgart, Arkansas, 21-23 February, 2001.

*Invited participant*, LSU Faculty Forum on “Creating a Culture of Collaboration”, Louisiana State University, Baton Rouge.

*Co-organizer* (With K. Hoover and G. Felton) and *Moderator*, “Host plant defense as an emergent state: a memorial to Sean S. Duffey”. 1998 Joint Meeting, Entomological Society of America / American Phytopathological Society, Las Vegas, NV

*Moderator*, Plant Protection Panel, 1998 Rice Technical Working Group meeting, Reno, NV.

*Invited presentations (presenter and senior author)*

**2005** *Clemson University, Department of Entomology*. Title: The Use of Plant Resistance in a Management Program for the Rice Water Weevil in Louisiana Rice. 13 November.

**2004** *22<sup>nd</sup> International Congress of Entomology*, Brisbane, Australia. Title: “The Use of Host-Plant Resistance for Management of the Rice Water Weevil in Louisiana”. 18 August.

- 20<sup>th</sup> Annual Rice Seminar (Valent, Destin, FL. Title: "Rice Insects / Insecticides". 10 March (expenses paid by Valent Corp.).*
- Pest Management Consultants Annual Workshop, Louisiana Cooperative Extension Service, Alexandria, LA. Title: "Efficacy of Insecticides for Rice Stinkbug Control". 29 January.*
- 2003** *Suranaree University of Technology, School of Crop Production Technology, Institute of Agricultural Technology, Nakhon Ratchasima, Thailand. Title: "Use of Host-Plant Resistance in the Management Program for the Rice Water Weevil in Louisiana Rice". 18 September (expenses in Thailand paid by Suranaree Institute of Technology).*
- 2002** *29<sup>th</sup> Rice Technical Working Group, Little Rock, AR.. Title: "Overview of Integrated Management Programs for Arthropod Pests of Rice", M.J. Stout, J. Bernhardt, M. Boyd, L. Godfrey, J. Robbins, and M.O. Way. 25 February.*
- Pest Management Consultants Annual Workshop, Louisiana Cooperative Extension Service, Alexandria, LA. Title: "Integrated Management of Insect Pests of Rice". 8 February..*
- 2001** *Annual Meeting of the Entomological Society of America, formal symposium, "Induced resistance: plant-pest interactions mediated by plant-induced responses", San Diego, CA. Title: "Induction of resistance in soybean with exogenous jasmonic acid" 12 December.*
- China National Rice Research Institute Hangzhou, PRC. Title: "Development of an Integrated Management Program for the Rice Water Weevil, *Lissorhoptrus oryzophilus*". 10 October (expenses in China partly defrayed by China National Rice Research Institute).*
- Department of Entomology, Zhejiang University, Hangzhou, PRC. Title: "Development of an Integrated Management Program for the Rice Water Weevil, *Lissorhoptrus oryzophilus*". 9 October.*
- 1999** *Pest Management Consultants Annual Workshop, Louisiana Cooperative Extension Service, Alexandria, LA. Title: "Management of rice insect pests". 22 February.*
- 1998** *Department of Entomology, University of Arizona (co-sponsored by the Center for Insect Science). Title: "Specificity of induced resistance to insects in the tomato, *Lycopersicon esculentum*" and "Effect of nitrogen availability on constitutive and inducible resistance in tomato foliage". 18-19 November (all expenses and honorarium paid by the University of Arizona).*
- 43<sup>rd</sup> Annual Conference, Louisiana Agricultural Aviation Association, Baton Rouge, LA Title: "Control of rice and cotton insects without Furadan" 3 February.*

**1997** *Department of Plant Pathology and Crop Physiology, Louisiana State University.* Title: "Plant-mediated interactions between pathogens and insects". 3 December.

*Louisiana Mosquito Control Association, Shreveport, LA.* Title: "Effects of rice insecticides on non-targets in LA rice fields". 26 October.

*Department of Entomology, University of California, Davis.* Title: "Induced resistance in tomato foliage: specificity and phytochemical basis". 26 April.

**1996** *Annual Meeting of the Entomological Society of America, informal symposium on insect nutritional ecology (G. Felton and K. Johnson, organizers), Louisville, KY.* Title: "Induced resistance in tomato foliage: relative role of proteinase inhibitors and oxidative enzymes". 13 December.

*Other presentations at professional meeting, (presenter and senior author)*

**Stout, M.J., B.A. Castro, and R. Pousson.** 31<sup>st</sup> meeting, Rice Technical Working Group. Title: "New options for rice water weevil management" (20 minute oral). 29 February 2006, The Woodlands, TX.

**Stout, M.J., M.R. Riggio, C. Leonardo, and J. Geaghan.** 31<sup>st</sup> meeting, Rice Technical Working Group. Title: "Development of a preliminary action threshold for use of adulticidal insecticides against the rice water weevil in southwest Louisiana" (poster). 28 February, 2006, The Woodlands, TX.

**Stout, M.J.** and M.R. Riggio. 77<sup>th</sup> Annual Meeting, Southeastern Branch, Entomological Society of America. Title: "Variation in susceptibility of rice lines to infestation by the rice water weevil (Coleoptera: Curculionidae)" (poster). 10 March 2003, Baton Rouge, LA.

**Stout, M.J.** 75<sup>th</sup> Annual Meeting, Southeastern Branch, Entomological Society of America, Southeastern Branch. Title: "Identification of rice cultivars with resistance to the rice water weevil (10 minute oral)". 5 March 2001, Augusta, GA.

**Stout, M.J.** and W.C. Rice. Annual Meeting of the Entomological Society of America. Title: "The effect of plant age on rice plant resistance to the rice water weevil, *Lissorhoptrus oryzophilus*" (poster). 4 December 2000, Montreal, Quebec, Canada.

**Stout, M.J., W. C. Rice and D. R. Ring.** Rice Technical Working Group, 28<sup>th</sup> meeting. Title: "The effect of plant age on plant resistance to the rice water weevil" (20 minute oral). 29 February 2000, Biloxi, MS.

**Stout, M.J., M. R. Riggio, W. C. Rice, and D. R. Ring.** Rice Technical Working Group, 28<sup>th</sup> meeting. Title: "Evaluation of insecticides for control of rice water weevil and minor pests of rice" (poster). 28 February, 2000, Biloxi, MS.

**Stout, M.J.**, and R. Blasiak. Annual Meeting of the Entomological Society of America. Title: "Flooding and drought stress alter suitability of rice foliage for the fall armyworm, *Spodoptera frugiperda*" (poster). 14 December 1999, Atlanta, GA.

**Stout, M.J.**, W.C. Rice and D.R. Ring. Annual Meeting of the Entomological Society of America, Southeastern Branch. Title: "Comparison of the efficacies of three insecticides for the control of the rice water weevil, *Lissorhoptrus oryzophilus*" (poster). 2 March 2 1999, Destin, FL.

**Stout, M.J.** 27<sup>th</sup> meeting, Rice Technical Working Group. Title: "Evaluation of Karate and Dimilin for control of the rice water weevil in Louisiana" (poster). 3 March 1998, Reno, NV.

**Stout, M.J.** and S.S. Duffey. Annual Meeting of the Entomological Society of America, Pacific Branch. Title: Use of jasmonates to stimulate resistance in the tomato, *Lycopersicon esculentum* (10 minute oral). 20 June 1995, Sacramento, CA.

**Stout, M.J.** and S.S. Duffey. Annual Meeting of the Entomological Society of America. Title: "Induced resistance in tomato foliage: potential role of oxidative enzymes" (poster). 16 December 1994, Dallas, TX.

**Stout, M.J.** Annual Meeting of the Entomological Society of America. Title: "Should pesticide-resistant natural enemies be released: pro position" (15 minute oral). Formal Conference on Student Affairs. 15 December, 1994, Dallas, TX.

**Stout, M.J.** and S.S. Duffey. American Association for the Advancement of Science, Pacific Branch meeting. Title: "Characterization of Induced Resistance in Tomato Foliage" (20 minute oral). 21 June 1994, San Francisco, CA.

**Stout, M.J.** and S.S. Duffey. Annual Meeting of the Entomological Society of America. Title: "Differential induction of tomato foliar proteins by arthropod herbivores" (poster). 7 December 1992, Baltimore, MD.

*Other presentations at professional meetings (as co-author)*

Hamm, J.C and **M.J. Stout**. 31<sup>st</sup> meeting, Rice Technical Working Group. Title: "Oviposition behavior of the sugarcane borer, *Diatraea saccharalis*, in rice" (20 minute oral). 29 February 2006, The Woodlands, TX.

Tindall, K.V., and **M.J. Stout**. Annual Meeting, Entomological Society of America Title: "Rice stink bug, *Oebalus pugnax*, response to presence of barnyardgrass, *Echinochloa crus-galli*, in the rice agroecosystem." In: A Symposium by young scientists: stink bugs – biology and management of a reemerging pest complex. 14-17 November 2004, Salt Lake City, UT.

Tindall, K.V., B.A. Castro, B.J. Williams, and **M.J. Stout**. 30th meeting, Rice Technical Working Group. Title: "Increase in incidence of sugarcane borer, *Diatraea saccharalis*, damage to rice in the presence of Amazon sprangletop, *Leptochloa panicoides*." 1-2 March, New Orleans, LA.

Tindall, K.V., B.R. Leonard, and **M.J. Stout**. Annual Meeting, Southeastern Branch, Entomological Society of America. Title: "Toxicity of selected insecticides against rice stink bugs, *Oebalus pugnax*." 15-18 February 2004, Charleston, SC.

Tindall, K.V., B.J. Williams, **M.J. Stout**. Annual Meeting, Weed Science Society of America. Title: "Influence of barnyardgrass, *Echinochloa crus-galli*, developmental stage on rice stink bug *Oebalus pugnax* populations on rice, *Oryza sativa*." 9-12 February 2004, Kansas City, MO.

Tindall, K.V., B.J. Williams, **M.J. Stout**. Annual Meeting, Entomological Society of America Annual Meeting. Title: "Relationship of graminaceous weed density, populations of rice stink bugs, *Oebalus pugnax*, populations and damage in the rice agroecosystem". 26-29 October 2003, Cincinnati, OH.

Shang, H., **M.J. Stout**, R. Pousson, and Z. Zhang. 77<sup>th</sup> Annual Meeting, Southeastern Branch, Entomological Society of America. Title: "Population dynamics of the rice water weevil, *Lissorhoptrus oryzophilus* Kuschel (Coleoptera: Curculionidae) in Louisiana" (poster). 10 March 2003, Baton Rouge, LA.

Tindall, K. V., B. J. Williams, and **M. J. Stout**. 77<sup>th</sup> Annual Meeting, Southeastern Branch, Entomological Society of America. Title: "Influence of barnyardgrass on rice stinkbug populations in rice" (10 minute oral). 10 March 2003, Baton Rouge, LA..

Zhang, Z., **M.J. Stout**, H. Shang, R. Pousson, and Q.R. Chu. 77<sup>th</sup> Annual Meeting, Southeastern Branch, Entomological Society of America. Title: "Factors influencing the survival of larvae and pupae of the rice water weevil, *Lissorhoptrus oryzophilus*." (poster). 10 March 2003, Baton Rouge, LA.

Zou, L., **M. J. Stout**, and D. Ring. 77<sup>th</sup> Annual Meeting, Southeastern Branch, Entomological Society of America. Title: "Relationship between densities of rice water weevils, *Lissorhoptrus oryzophilus*, and yield for different rice varieties and flooding regimes" (10 minute oral). 10 March 2003, Baton Rouge, LA.

Tindall, K.V., B.J. Williams, and **M.J. Stout**. Annual Meeting, Louisiana Plant Protection Association. Title: "Effect of timing of barnyardgrass emergence on rice stink bug populations in rice." March 2003, Baton Rouge, LA.

Tindall, K.V., B.J. Williams, and **M.J. Stout**. Annual Meeting, Southern Weed Science Society, Title: "Influence of barnyardgrass on rice stink bug populations in rice." January 2003, Houston, TX..

Tindall, K.V. and **M.J. Stout**. 4<sup>th</sup> National IPM Symposium. Title: "Effects of herbicide resistant rice (var. 'Liberty Link') on rice water weevil". 7-10 April 2003, Indianapolis, IN.

Tindall, K.V., B.J. Williams, E.P. Webster, and **M.J. Stout**. Annual Meeting, Southern Weed Science Society. Title: "Effects of barnyardgrass density on rice yields". January 2003, Houston, TX.



Zou, L., **M. J. Stout**, W. C. Rice and R. T. Dunand. 29<sup>th</sup> Rice Technical Working Group Title: “The effects of feeding by the rice water weevil *Lissorhoptrus oryzophilus* Kuschel on physiology and growth of rice *Oryza sativa*” (10 minute oral). 26 February 2002, Little Rock, AR.

Tindall, K.V. and **M.J. Stout**. Annual Meeting of the Entomological Society of America, Southeastern Branch. Title: “The rice water weevil’s preference for and association with common weeds found in rice fields”. 6 March 2001, Augusta, GA.

Tindall, K.V. and **M.J. Stout**. Annual Meeting of the Entomological Society of America. Title: “Rice water weevil’s preference for aquatic rice weeds as alternate hosts” (poster). 4 December 2000, Montreal, Quebec, Canada.

Tindall, K.V. and **M.J. Stout**. Annual Meeting of the Entomological Society of America. Title: “Investigation of plant-mediated interactions between *Lissorhopytrus oryzophilus* and *Spodoptera frugiperda* in rice” (poster). 13 December 1999, Atlanta, GA.

### **1.3.5 Other scholarly activities and contributions to the profession**

#### 1.3.5.1 Membership in professional organizations

Entomological Society of America  
International Society for Chemical Ecology (former)  
Rice Technical Working Group  
International Plant Resistance to Insects Workshop (Steering Committee)

### **1.3.6 Awards, prizes, and achievements**

Elected to Phi Beta Kappa, 1989  
NSF Pre-Doctoral Fellowship, 1991-1994  
John E. Kinsella Memorial Prize, 1997, awarded to outstanding graduate research dissertation, College of Agricultural and Environmental Science, University of California, Davis.  
Larry Rogers Research Award, LSU AgCenter, 2003  
Graduate, Class IX, LSU Agricultural Leadership Development Program  
Selected as 1<sup>st</sup> L.D. Newsom Professor of Integrated Pest Management, July, 2006

### **1.3.7 Research support / grants**

*Pending*

*National Science Foundation, IOB – Functional & Regulatory Systems Cluster (D. Groth, co-PI), 02/01/07-01/31/10 (\$266,309 requested). Title: “Regulation of induced defenses in rice (*Oryza sativa*) by jasmonic acid and constitutive salicylic acid”*

### *Funded proposals*

*The Rice Foundation* (S. Linscombe, co-PI), 09/01/06-08/31-08 (\$32,024). Title: "Establishment of a breeding program for rice water weevil tolerance".

*Louisiana Board of Regents EPSCoR Pfund.* 07/01/06-05/31/07 (\$10,000). Title: "Biochemical and physiological bases of rice resistance and tolerance to multiple pests".

*LSU Graduate School, Economic Development Assistantship.* Fall 2006-Fall 2010 (\$25,000 per year to support a Ph.D. student). Topic: Development of management strategies for late-season pests of rice.

*USDA, Southern Region IPM Special Grants Program* (Principal Investigator; M.O. Way and J.B. Bernhardt, Co-PIs). April 2001-April 2003 (\$42,000). Title: "Development of monitoring tools for the rice water weevil".

*USDA, Southern Region IPM Special Grants Program* (B. Williams, Principal Investigator; M.J. Stout and E. Webster, co-PIs). April 2001-April 2003 (\$44,000). Title: "Integration of weed and insect management practices for conventional and herbicide-resistant rice".

*USDA-NRICGP, Biologically-Based Pest Management Program.* Sept. 2000-Sept. 2002 (\$54,000). Title: "Cultural Strategies for Management of the Rice Water Weevil in Rice".

*USDA-CSREES, Pest Management Alternatives Program Grant* (Principal investigator; W.C. Rice and D.R. Ring, Co-PIs): Sept. 1997-Sept.1999 (\$35,505). Title: "Implementation of Alternatives to Carbofuran for the Control of the Rice Water Weevil".

*Louisiana Rice Research Board:* 1998 (\$30,000), 1999 (\$30,000), 2000 (\$35,000), 2001 (\$35,000), 2002 (\$35,000), 2003 (\$33,500), 2004 (\$88,500), 2005 (\$88,500), 2006 (\$79,650). Title: "Integrated Management Strategies for Insect Pests of Rice in Louisiana".

*Louisiana Rice Research Board* (Principal investigator; W.C. Rice and D.R. Ring, Co-PIs): 1999 (\$6,000). Title: "Development of a Degree-Day Model to Predict Early-Season Behavior of the Rice Water Weevil".

*USDA-NRICGP, Entomology Program* (co-PI with Drs. Rick Bostock and Sean Duffey): July 1995-July 1998 (\$160,000). Title: "Induction of Multi-Factorial Resistance in the Tomato Plant".

*Jastro-Shields Research Scholarships* (UC-Davis): 1991 (\$900), 1992 (\$2000), 1993 (\$750)

*Additional monies* contributed by Zeneca Ag Chemicals, Uniroyal Chemical Company, Rohm and Haas, and Rhone-Poulenc Ag Company, Syngenta Crop Protection, Landis International, Valent, Flexible Solutions, and FMC Corporation. **Approximate per-year industry funding, 2004-2006: \$20,000**

### *Rejected proposals*

*USDA, Regional Integrated Pest Management Competitive Grants Program-Southern Region* (Boris Castro, co-PI). 3/01/06-3/01/08 (\$68,000 requested). Title: "Development of management strategies for the insect pest complex in Louisiana rice".

*National Science Foundation, Ecological and Evolutionary Physiology Program* (J.A Ottea, co-PI). 2/01/02-2/01/05 (\$238,238 requested). Title: "Biochemical basis of host-plant suitability: detoxication and mode of action of phenylpropanoids in the fall armyworm".

*The Rice Foundation* (Principal Investigator; M.O. Way and J.B. Bernhardt, Co-PIs). 4/01- 4/03. 2001 (\$45,000 requested). Title: "Development of monitoring tools for the rice water weevil".

*USDA, IR-4 Biopesticide Research Program* (co-PI with Dr. J. Fuxa). 2001 (\$9,000 requested). Title: "Extension of efficacy data on *Beauvaria bassiana* for late-season control of *Oebalus pugnax* (Pentatomidae) in rice". .

*Board of Regents Support Fund, Research and Development Program*. 2000 (\$108,250 requested). Title: "Biochemical basis of host plant suitability: detoxicative enzymes as mediators of the biological activity of phenylpropanoids in the fall armyworm". (Dr. J. Ottea, co-PI ).

*The Rice Foundation* (co-PI with Dr. William Rice). 2000 (\$111,500 requested). Title: "A dual approach to the development of rice lines resistant to the rice water weevil".

*Board of Regents Support Fund, Research and Development Program* (W. C. Rice and D. R. Ring, co-PIs). 1999 (\$82,250 requested). Title: "Identification and characterization of plant resistance to the rice water weevil in rice".

*USDA-NRICGP, Entomology/Nematology* (J.R. Fuxa, co-PI). 1999 (\$117,384 requested) "Factors influencing host use by two strains of the fall armyworm, *Spodoptera frugiperda*".

*USDA Regional IPM, Southern Region* (W.C. Rice and D. R. Ring, co-PIs): 1999 (\$38,000 requested). Title: "Integration of host-plant resistance into management programs for the rice water weevil."

### **1.3.8 Theses / dissertations directed**

#### *As major advisor*

Kelly Tindall, M.S., spring, 2000.

Kelly Tindall, Ph.D., fall, 2004.

Li Zou, Ph.D. spring, 2004.

Dilipkumar Patel, M.S., spring, 2005

Ana-Maria Sanchez, Ph.D., currently enrolled

Jason Hamm, Ph.D., currently enrolled

*As member of graduate committee*

Xiaoyi Wu (F. Huang, Major Professor)  
Lixin Mao (R. Story, Major Professor)  
Huazhang Huang (J. Ottea, Major Professor)  
Edwin Kamau (J. Ottea, Major Professor)  
Jeffrey Gore (B. Rogers Leonard, Major Professor)  
Chris McAllister (T.E. Reagan, Major Professor)  
Francis Reay-Jones (T.E. Reagan, Major Professor)  
William Shepherd (R. Goyer, Major Professor)  
Tessa Baumann (R. Goyer, Major Professor)  
Rebecca Souther (R. Goyer, Major Professor)  
C. Wood Johnson (R. Goyer, Major Professor)  
B. Collier (M. Perich, Major Professor)  
Tara Smith (A. Hammond, Major Professor)  
Yongyin Wang (Department of Biology, University of Louisiana-Lafayette)  
David Lanclos (Dean's Representative; E. Webster, Major Professor)  
Julie Reynolds (Department of Biology, LSU – Dean's Representative)  
Sharmilla Pathikonda (Department of Biology, University of Louisiana-Lafayette)  
Eric Ott (T. Schowalter, Major Professor)  
Poornima Jayashima (G. Henderson, Major Professor)  
Latha Bomireddy (R. Leonard, Major Professor)  
Waseem Akbar (T.E. Reagan, Major Professor)  
Isidra Sabo (L. Foil, Major Professor)  
Alyssa Hakes (J. Cronin, LSU Biology, Major Professor)

*Postdoctoral/Visiting Scientists supervised*

Dr. Hanwu Shang, Visiting Scientist/Professor from China (China National Rice Research Institute/Zhejiang University, Hangzhou, P.R. China), Spring/Summer 2002  
Dr. Zhitao Zhang, Visiting Scientist/Professor from China (China National Rice Research Institute, Hangzhou, P.R. China), May 2002-September 2003  
Anongnut Bhonwong, visiting graduate student from Thailand (Suranaree University of Technology, Nakhon Ratchasima, Thailand), Spring/Summer 2005  
Dr. Jichao Fang, Visiting Scientist/Professor from China (Jiangsu Academy of Agricultural Sciences, Nanjing, Jiangsu, P.R. China), Summer/Fall 2005  
Dr. Feng-Kuan Huang, visiting Scientist/Professor from China (Guangxi Academy of Agricultural Sciences, Nanning, Guangxi, P.R. China), spring 2006-present

**1.3.9 Major areas of research interest**

Integrated management of rice and forage pests  
Host-plant resistance to insects  
Plant-insect interactions

Chemical and physiological ecology of insects

#### **1.4 SERVICE**

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##### **1.4.2 Recruitment of faculty**

Member, Search Committee: Mosquito biologist (summer/fall 2004)  
Member, Search Committee: Entomology Department Head (fall 2002-2003)  
Member, Search Committee: Termite physiologist/chemical ecologist (fall / winter 2001-2002)  
Member, Search Committee: Mosquito biologist (fall / winter 2000-2001)  
Member, Search Committee: Rice/fruit crop Extension (fall 2001)  
Member, Search Committee: Fire Ant / Physiologist position (fall / winter 1997-1998)

##### **1.4.3 University service**

###### *Department committee assignments*

Student awards committee (7/1/97-7/1/99; 7/1/01-7/1/03; 7/1/04-present). Chair of committee, 7/1/02-7/1/03, 7/1/05-7/1/06)  
Courses and Curriculum Committee (7/1/99-7/1/01)  
Seminar committee (7/1/99-7/1/00)  
Admissions committee (7/1/99-7/1/01)  
Strategic Planning Committee (1998-present): Committee charged with developing a planning document that was submitted to the College of Agriculture and to the University Planning Council.  
Program Review Committee (2005)

###### *University and Experiment Station Committees*

College of Agriculture Faculty Policy Committee (2000-present). Served as secretary for the committee and served on a subcommittee charged with revising and streamlining the form used currently for annual faculty evaluations.  
College of Agriculture Curriculum Revitalization Committee (Spring 2001)  
Served on several ad-hoc committees to review proposed releases of experimental rice lines as varieties (2002-2 varieties released)

###### *Other University assignments and service*

Reviewer of Agricultural Center Project Proposals (numerous)

##### **1.4.4 Professional Service**

1.4.4.2 Journals edited, manuscripts refereed, proposals reviewed

###### *Editorial duties*

Editorial Board (mini-review editor), *Entomologia Experimentalis et Applicata*, (Jan 2004-present)  
Subject Editor (Host-Plant Resistance), *Journal of Economic Entomology* (Jan 2002-Jan 2004)

### *Grant reviews*

**External reviewer**, Natural Environment Research Council (UK), Environmental Genomics Thematic Research Grant program (1 proposal)

**External reviewer**, 1998, 1999, 2003 USDA NRICGP program (3 proposals in 1998 and 1999, 1 proposal in 2003)

**External reviewer**, 1999 NSF Ecological and Evolutionary Physiology program (2 proposals), 1999 NSF-CAREER program (1 proposal), 2000 NSF Ecological and Evolutionary Physiology program (1 proposal), 2001 NSF Ecological and Evolutionary Physiology program (4 proposals), 2002 NSF Ecological and Evolutionary Physiology program (2 proposals), 2003 NSF Ecological and Evolutionary Physiology program (2 proposals), 2004 NSF Ecological and Evolutionary Physiology program (1 proposal).

**External Reviewer**, Ohio State University Baker Fund Award (1999, 1 proposal)

**External Reviewer**, International Foundation for Science research grant (2002, 1 proposal)

### *Manuscript reviews for the following journals:*

*Agronomy Journal*

*Annals of the Entomological Society of America*

*Archives of Insect Biochemistry and Physiology*

*Biological Letters*

*Bulletin of Entomological Research*

*Crop Protection*

*Ecology*

*Ecology Letters*

*Entomologia Experimentalis et Applicata*

*Environmental Entomology*

*Euphytica*

*Experimental and Applied Acarology*

*Insect Science and its Application*

*Journal of Chemical Ecology*

*Journal of the Lepidopterist's Society*

*Journal of Economic Entomology*

*Journal of Entomological Science*

*Oecologia*

*Perspectives in Plant Ecology, Evolution, and Systematics*

*Physiologia Plantarum*

### **1.4.5 Other external service**

#### *Service to professional organizations*

Member, Steering Committee, International Plant Resistance to Insects Workshop,

2004-present

Member of Regional Hatch Project S-300 (formerly S-260), "Mosquito and agricultural pest management in riceland ecosystems". Participated in the preparation of a new proposal for this project; served as Secretary in 2003 and Chair in 2004.

Member, Membership Committee, Southeastern Branch of the ESA, 1999-2000.

Member, Student Awards Committee, Southeastern Branch of the ESA, 2001-2003.

Judge, poster competition, Southeastern Branch of the ESA, Annual Meetings: March, 2001, Augusta, GA; March, 2003, Baton Rouge, LA.

*Presentations to growers, consultants, and extension personnel*

10 January 2006. Implementing a diverse management program for the rice water weevil in southwest Louisiana. Southwest Louisiana Rice Forum, Iowa, La.

6 January 2006. Control of Rice Insects in 2006-New Bugs, New Challenges. Vermillion Rice School. Kaplan, La.

7 January 2005. Control of Rice Insects in 2005-New Bugs, New Challenges. Vermillion Rice School. Kaplan, La.

6 January 2005. Rice Insect Update. Acadia Parish Rice & Soybean Producers Meeting. Crowley, La.

4 January 2005. Water Weevil Control and Impregnation of Insecticides on Fertilizer. Southwest Louisiana Rice Forum. Iowa, La.

1 July 2004. Rice Insect Control. Annual Rice Field Day, Rice Research Station, Crowley, LA.

26 June 2003. Rice Insect Control. Annual Rice Field Day, Rice Research Station, Crowley, LA.

29 June 2002. Rice Insect Control. Annual Rice Field Day, Rice Research Station, Crowley, LA.

20 February 2002. Rice Water Weevil Insecticides. Syngental Crop Protection, Consultant's Meeting. New Orleans, LA.

16 January 2002. Rice Insect Control. Avoyelles/Rapides Rice Clinic. Bunkie, LA.

11 January 2002. Insect control – What now? Vermillion Parish Rice School. Kaplan, LA.

10 January 2002. Insect Control. Acadia Parish Rice and Soybean Meeting. Crowley, LA.

9 January 2002. Rice Insecticide Update – application timing. Evangeline and St. Landry. Parish Rice and Soybean Producer's Meeting. Ville Platte, LA.

8 January 2002. Insect Control. Southwest Louisiana Rice Forum. Iowa, LA

5 July 2001. Insect Control. Vermillion Parish, Annual Rice Field Tour. Gueydan, LA.

28 June 2001. Rice Insect Control. Annual Rice Field Day, Rice Research Station, Crowley, LA.

1 March 2001. Rice Insect Control. Rice Production Meeting, Concordia-Catahoula Parishes. Concordia Parish, LA.

7 February 2001. Rice water weevil biology/use of Karate. Rice Consultants meeting, sponsored by Syngenta Corporation. Crowley, LA.

- 19 January 2001. Rice Water Weevil Insecticides. Syngenta Consultants Conference. New Orleans, LA.
- 16 January 2001. Rice Insect Control. Rice Clinic, Avoyelles/Rapides Parishes. Bunkie, LA.
- 12 January 2001. Rice Insect Control. Vermilion Parish Rice School, Vermilion Parish, LA
- 10 January 2001. Rice Insect Update. Annual Rice School, Evangeline and St. Landry Parish, Vidrine, LA
- 9 January 2001. Water Weevil Update. Southwest Louisiana Rice Forum, Iowa, LA.
- 29 June 2000. Rice insect control. Annual Rice Field Day, Rice Research Station, Crowley, LA.
- 14 January 2000. Rice Insect Control. Vermilion Parish Rice School, Vermilion Parish, LA
- 20 January 2000. Rice Insect Control. Rice Clinic, Avoyelles/Rapides Parishes. Bunkie, LA
- 2 March 2000. Rice Insect Control. Rice Production Meeting, Concordia-Catahoula Parishes. Concordia Parish, LA.
- 10 August 2000. Rice insect control. Northeast Louisiana Rice Field Day. Morehouse Parish, LA
- 12 January 1999 Rice water weevil control update. Jeff Davis Parish Rice and Soybean Clinic. Jennings, LA.
- 4 February 1999 Rice water weevil thresholds. Rice consultants workshop, Zeneca Ag Products, Olive Branch, MS.
- 22 February 1999 Management of rice insect pests. 1999 Pest Management Consultants Workshop, Alexandria, LA.
- 24 February 1999 Rice insect control. Rice Production Meeting, Concordia Parish, LA
- 24 June 1999 Rice insect control. Annual Rice Field Day, Rice Research Station, Crowley, LA
- 6 July 1999 Rice insect control, Icon Evaluation in Field. Vermilion Parish Rice Field Day, Vermillion Parish, LA.
- 10 August 1999 Rice insect/insecticide update. Crop Production and Weed Control Field Day, Northeast Research Station, St. Joseph, LA.
- 5 February 1998 Update on rice water weevil thresholds. Rice consultants workshop, Zeneca Ag Products, Memphis, TN
- 19 February 1998 Rice water weevil lifestyle and habitat; update on thresholds. Louisiana Technical Rice Meeting, Zeneca Ag Products, Abbeville, LA.
- 6 March 1998 Rice insect control update. Crop Production Meeting, East Carroll Parish, LA.
- 23 June 1998 Rice insect control. Crop Production and Weed Control Field Day, Northeast Research Station, St. Joseph, LA.
- 25 June 1998 Rice insect control. Annual Rice Field Day, Rice Research Station, Crowley, LA
- 11 December 1998 Rice water weevil management changes for 1999. Extension-Research Agent's Training, Louisiana Cooperative Extension Service, Camp Grant Walker, LA.
- 26 June 1997 Rice insect control. Annual Rice Field Day, Rice Research Station, Crowley, LA



*Other service to clientele groups*

Participated in preparation of Section 18 applications to the U.S. EPA for Icon, Confirm, Dimilin. Senior author, Section 18 applications for Furadan, January 2005 and December 2005 and for Etofenprox, December 2005.

*Extension publications*

Ring, D.R., J. Barbour, W.C. Rice, **M.J. Stout**, and M. Muegge. 1999. Insect pest management. In Louisiana Rice Production Handbook, Louisiana Cooperative Extension Service, LSU AgCenter

**Stout, M.J.**, D.R. Ring, and Boris Castro. 1998-2006. Rice insects. In: Rice varieties and management tips (annual publication). Louisiana Cooperative Extension Service, LSU AgCenter.

1.4.5.1 Art shows/science fairs judged

*Judge*, Intellectual Gumbo 2000 poster competition