

Name Tamara J. Cook
Title Associate Professor
Department Biological Sciences
College Arts and Sciences

Degrees Earned

Degree, Major, (minor – optional), Institution, Year
Ph.D., Entomology, Texas A&M University, 1996
M.S., Biological Sciences, University of Nebraska-Lincoln, 1992
B.S., Biological Sciences, University of Nebraska-Lincoln, 1990

Peer-Review Publications and Artistic Performances/Exhibitions

Articles

- Lowery, M. B. and **T. J. Cook**. 2008. Oviposition site preference of *Corydalus cornutus* (Megaloptera: Corydalidae) in east Texas. *Southwestern Naturalist* 53: *in press*
- Clopton, R. E., **T. J. Cook**, and J. L. Cook 2008. *Trichurispora wellgundis* n. g., n. sp. (Apicomplexa: Eugregarinida: Hirmocystidae) Parasitizing Adult Water Scavenger Beetles, *Tropisternus collaris* (Coleoptera: Hydrophilidae) in the Texas Big Thicket. *Comparative Parasitology* 75: 82-91.
- Realzola, E., J. L. Cook, **T. J. Cook**, and R. E. Clopton. 2007. Composition of Gyrinid Aggregations in the East Texas Primitive Big Thicket (Coleoptera: Gyrinidae). *Coleopterist's Bulletin* 61:495-592.
- Clopton, R. E., **T. J. Cook** and J. L. Cook. 2007. Revision of *Geneiorhynchus* Schneider, 1875 with Recognition of 4 New Species of *Geneiorhynchus* and Description of *Geneiorhynchus manifestus* N. Sp. Parasitizing Naiads of the Green Darner, *Anax junius* in the Texas Big Thicket. *Comparative Parasitology*, 74:273-285.
- Hays, J. J., R. E. Clopton, **T. J. Cook** and J. L. Cook. 2007. Revision of the Genus *Nubenocephalus* and Description of *Nubenocephalus secundus* N. Sp. (Apicomplexa: Actinocephalidae) Parasitizing Adults of *Argia sedula* (Odonata: Zygoptera: Coenagrionidae) in the Primitive Texas Big Thicket, U.S.A. *Comparative Parasitology* 74: 286-293.
- Smith, A. J. and **T. J. Cook**, and W. I. Lutterschmidt. 2007. Effects Of Temperature On The Development Of *Gregarina Cubensis*(Apicomplexa: Eugregarinida) Parasitizing *Blaberus Discoidalis* (Blattaria: Blaberidae). *Journal of Parasitology* 93: 583-588.
- Brain, M.S., Cook, J.L. and **Cook, T.J.** 2004. *Thelohania Solenopsae* (Microsporidia) Infection in *Solenopsis Invicta* Correlated with Increased Arthropod Diversity. *Southwestern Entomologist* 29: 77-79
- Clopton, R.E., **Cook, T.J.** & Cook, J.L. 2004. *Naiadocystis phykoterion* n. gen., n. sp. (Apicomplexa: Eugregarinida: Hirmocystidae) from the Mexican pygmy grasshopper *Paratettix mexicanus* (Orthoptera: Tetrigidae) in the Texas Big Thicket with recognition of three previously described members of *Naiadocystis*. *Journal of Parasitology* 90: 301-307
- Cook, T. J.**, Lowery, M. B., Frey, T. N., Rowe, K. E. and Lynch L. R. 2003. Effect of *Thelohania solenopsae* (Microsporida: Thelohaniidae) on weight and reproductive status of female alates of the red imported fire ant, *Solenopsis invicta*. *Journal of Invertebrate Pathology* 82: 201-203

- Cook, T. J.** 2002. *Thelohania solenopsae* (Microsporida: Thelohaniidae) impact on red imported fire ants, *Solenopsis invicta* (Hymenoptera: Formicidae) in natural, unmanaged systems. *Environmental Entomology*, 31: 1091-1096.
- Percival-Cook, T. J.**, Janovy, J., Jr., Clopton, R. E. 2001. Epimerite-host epithelium relationships among eugregarines parasitizing the damselflies *Enallagma civile* and *Ischnura verticalis*. *Journal of Parasitology*, 88: 988-996.
- Cook, T. J.** & Gold, R. E. 2000. Effects of different cellulose sources on the structure of the hindgut flagellate community in *Reticulitermes virginicus* Banks. *Sociobiology*, 35: 119-130
- Cook, T. J.** & Gold, R. E. 1999. Symbiotic hindgut flagellate communities of *Reticulitermes virginicus* Banks and *Reticulitermes flavipes* (Kollar) in Texas. *Sociobiology*, 34: 533-543.
- Cook, T. J.** & Gold, R. E. 1998. Organization of the symbiotic flagellate community in three castes of the eastern subterranean termite, *Reticulitermes flavipes* (Kollar) (Isoptera: Rhinotermitidae). *Sociobiology*, 31(1): 25-39.
- Percival, T. J.**, Clopton, R. E. & Janovy, J. Jr. 1995. Two new menosporine gregarines, *Hoplorhynchus acanthatholius* n. sp. and *Steganorhynchus dunwoodyi* n. g., n. sp. (Apicomplexa: Eugregarinorida: Actinocephalidae) from coenagrionid damselflies (Odonata: Zygoptera). *Journal of Eukaryotic Microbiology*, 42: 406-410.
- Clopton, R. E., **Percival, T. J.** & Janovy, J. Jr. 1993. *Nubenocephalus nebraskensis* n. gen., n. sp. (Apicomplexa: Actinocephalidae) described from *Argis bipunctulata* (Odonata: Zygoptera). *Journal of Parasitology*, 79: 701-709.
- Clopton, R. E., **Percival, T. J.** & Janovy, J. Jr. 1992. *Gregarina coronata* n. sp. (Apicomplexa: Eugregarinorida) described from adults of the southern corn rootworm, *Diabrotica undecimpunctata howardi*. *Journal of Protozoology*, 39: 417-420.
- Janovy, J. Jr., Clopton, R. E. **Percival, T. J.** 1992. The roles of ecological and evolutionary influences in providing structure to parasite species assemblages. *Journal of Parasitology*, 78: 630-640.
- Clopton, R. E., Janovy, J. Jr. & **Percival, T. J.** 1992. Host stadium specificity in the gregarine assemblage parasitizing *Tenebrio molitor*. *Journal of Parasitology*, 78: 334-337.
- Clopton, R. E., **Percival, T. J.** & Janovy, J. Jr. 1991. *Gregarina niphandrodes* n. sp. (Apicomplexa: Eugregarinorida) from adult *Tenebrio molitor* (L.) with oocyst descriptions of other gregarine parasites of the yellow mealworm. *Journal of Protozoology*, 38: 472-483.

Books

- Cook, T. J.**, Cook, J. L. & Gold, R. E. 1998. Termite Biology and Control. A correspondence course offered by Texas A&M University. TAES Publication #B-1726.

Proceedings

- Cook, T. J.** 2001. *Thelohania solenopsae* impact on imported fire ants in a natural, unmanaged system. Proceedings of the Annual Imported Fire Ant Research Conference

Artistic Performances

Artistic Exhibitions

Research Monographs and Technical Reports

Funded External Grants

- National Science Foundation. ROA supplement to RUI Collaborative Research: Microbiological Survey and Inventory of Gregarines Parasitizing Aquatic and Riparian Insects of the Texas Big Thicket [with J. L. Cook]. 2005-2007. \$24,172.
- National Science Foundation. RUI: Collaborative Research: Microbiological Survey and Inventory of Gregarines Parasitizing Aquatic and Riparian Insects of the Texas Big Thicket. [with J. L. Cook]. 2004 – 2007. \$232,854
- Texas Army National Guard, Environmental Resources Management Branch. Release and Attempt to Establish Natural Enemies of the Red Imported Fire Ant [with J. L. Cook]. 2004 – 2006. \$100,000.
- Federal Appropriation of the Department of Homeland Security. Detection, testing, mapping and movement of carriers of deadly disease: disease vector studies along the U.S.- Mexico border and their potential threat to Homeland Security. [with M. L. Thies, J. L. Cook, W. I. Lutterschmidt and D. L. Neudorf] 2004 -2005. \$257,000
- Texas Army National Guard, Environmental Resources Management Branch. Continued Application and Assessment of Microsporidia in the Management of *Solenopsis invicta* at Texas Army National Guard Training Sites [with J. L. Cook] 2003 – 2004. \$100,000
- Castor Oil, Inc. Efficacy of castor meal at eliminating red imported fire ants. [with J. L. Cook] 2003 – 2004, \$18,000
- Texas Excellence Fund. Aquatic Insects and their Cephaline Gregarine (Protista: Apicomplexa) Parasites in the Big Thicket Region of East Texas [with J. L. Cook]. 2002—2003, \$40,000
- Texas Army National Guard, Environmental Resources Management Branch. Continued Application and Assessment of Microsporidia in the Management of *Solenopsis invicta* at Texas Army National Guard Training Sites. October 1, 2002—September 30, 2003, \$15,000.
- Texas Army National Guard, Environmental Resources Management Branch. Continued Application and Assessment of Microsporidia in the Management of *Solenopsis invicta* at Texas Army National Guard Training Sites. October 1, 2001—September 30, 2002, \$50,000.
- Texas Imported Fire Ant Research & Management Project. The Biological Control of the RIFA through Augmentation Utilizing Native Diseases. September 1, 2001—August 31, 2003, [with F. L. Mitchell and S. B. Vinson] \$332,000.
- Texas Army National Guard, Environmental Resources Management Branch. Application of Microsporidia in the Management of *Solenopsis invicta* at TXASRNG Training Sites. October 1, 2000—September 30, 2001, \$50,000.
- Texas Army National Guard, Environmental Resources Management Branch. Red Imported Fire Ant Management Alternatives for the TXARNG: Evaluation of *Thelohania solenopsae* as a Control Agent of *Solenopsis invicta*. October 1, 1999—September 30, 2000, \$50,000.
- Orkin Pest Control. Development of text and workbook for Correspondence school in termite biology and control (with J. L. Cook and R. E. Gold), 1997-1998; \$460,000.

Peer-Review Presentations/Posters

Work or Professional Experiences

- 2007-present Associate Dean, College of Arts & Sciences
Sam Houston State University
- 2005-present Associate Professor, Department of Biological Sciences
Sam Houston State University
- 2000-2005 Assistant Professor, Department of Biological Sciences
Sam Houston State University
- 1999-2000 Visiting Assistant Professor, Department of Biological Sciences
Sam Houston State University
- 1998-1999 Assistant Research Scientist, Department of Entomology
Texas A&M University
- 1997-1999 Instructor, Division of Natural Sciences
Blinn College
- 1997-1998 Post-Doctoral Research Associate, Department of Entomology
Texas A&M University
- 1995-1997 Research Assistant, Department of Entomology
Texas A&M University

Honors and Awards (Invited Presentations)

- 2007 *Annual Honors Program Lecture, McDaniel College, Westminster, MD*
Much ado about gregarines...A tale of biodiversity
- 2006 *Helminthological Society of Washington, McDaniel College, Westminster, MD.*
Eugregarine parasites of aquatic and riparian insects of the Big Thicket
- 2000 *54th Midwinter PCO Workshop for Advanced Learning, Texas A&M University*
Basic Insect Biology
- 1999 *53rd Midwinter PCO Workshop for Advanced Learning, Texas A&M University*
Order Hymenoptera-Identification and Biology
Wood Boring Beetles-Identification and Biology
Insect Protozoology Research

Other Competencies

Presentations at Professional Conferences (listing only those while employed by SHSU)

- Dahlgren, S., **T. J. Cook**, and R. E. Clopton. 2007. Patterns of eugregarine infection in damselflies (Odonata: Coenagrionidae) of the Texas Big Thicket. First North American Parasitology conference, Mérida, Mexico. [oral presentation]
- Hays, J. J., **T. J. Cook**, and R. E. Clopton. 2007. Patterns of eugregarine infections of *Argia* spp. (Odonata: Zygoptera) across biogeographical provinces in Texas. First North American Parasitology conference, Mérida, Mexico. [oral presentation]
- Garcia, J. C., **T. J. Cook**, and R. E. Clopton. 2007. Patterns of eugregarine diversity in damselflies in four east Texas ponds. First North American Parasitology conference, Mérida, Mexico. [oral presentation]
- Hays, J. J., **T. J. Cook**, and R. E. Clopton. 2007. Patterns of eugregarine infections of *Argia* spp. (Odonata: Zygoptera) across biogeographical provinces in Texas. Southwestern Association of Parasitologists, University of Oklahoma Biological Field Station. [oral presentation]
- Garcia, J. C., **T. J. Cook**, and R. E. Clopton. 2007. Patterns of eugregarine diversity in damselflies in four east Texas ponds. Southwestern Association of Parasitologists, University of Oklahoma Biological Field Station. [oral presentation]
- Dahlgren, S., **T. J. Cook**, R. Mitschler and R. E. Clopton. 2006. Patterns of eugregarine infection in damselflies (Odonata: Coenagrionidae) of the Texas Big Thicket. International Congress of Parasitologists, Glasgow, Scotland [oral presentation]
- Dahlgren, S., **T. J. Cook**, R. Mitschler and R. E. Clopton. 2006. Patterns of eugregarine infection in damselflies (Odonata: Coenagrionidae) of the Texas Big Thicket. International Congress of Parasitologists, Glasgow, Scotland [poster]
- Dahlgren, S. and **T. J. Cook**. 2005. The role of host intestinal fluid in determining host specificity of five species of eugregarines parasitizing three species of cockroaches. American Society of Parasitologists, Mobile, AL [oral presentation]
- Black, A. S. and **T. J. Cook**. 2005. Critical thermal maximum of *Nauphoeta cinerea* in response to infection with two species of eugregarines. Southwestern Association of Parasitologists, University of Oklahoma Biological Field Station [oral presentation]
- Cox, W. G. and **T. J. Cook**. 2005. Behavioral fever of *Blaberus discoidalis* in response to gregarine infection. Southwestern Association of Parasitologists, University of Oklahoma Biological Field Station [oral presentation]
- Rodriguez, S. and **T. J. Cook**. 2005. Critical thermal maximum of *Blaberus discoidalis* in response to infection with *Gregarina cubensis*. Southwestern Association of Parasitologists, University of Oklahoma Biological Field Station [oral presentation]
- Smith, A. J. and **T. J. Cook**. 2005. Host specificity of five species of Eugregarinida among four species of cockroaches. Southwestern Association of Parasitologists, University of Oklahoma Biological Field Station [oral presentation]
- Smith, A. J. and **T. J. Cook**. 2005. A temperature study on the viability and development of gregarine parasites of cockroaches. Texas Academy of Science, Edinburgh, TX [oral presentation]
- Dahlgren, S. and **T. J. Cook**. 2005. The role of host intestinal fluid in determining host specificity of five species of eugregarines parasitizing three species of cockroaches. American Society of Parasitologists, Mobile, AL [oral presentation]

- Smith, A. J. and **T. J. Cook**. 2005. Host specificity of five species of Eugregarinida among four species of cockroaches. American Society of Parasitologists, Mobile, AL [oral presentation]
- Fennel, C. R. and **T. J. Cook**. 2004. Seasonal population dynamics of *Thelohania solenopsae* infection in *Solenopsis invicta* and its affect on arthropod community diversity. Southwestern Association of Naturalists, San Antonio, TX [oral presentation]
- Cook, T. J.**, R. E. Clopton, and J. L. Cook. 2004. Eugregarine parasites of aquatic and riparian insects of the Big Thicket. Southwestern Association of Naturalists, San Antonio, TX [oral presentation]
- Fennel, C. R. and **T. J. Cook**. 2004. Seasonal arthropod diversity as affected by the possible seasonal occurrence of *Thelohania solenopsae* infecting *Solenopsis invicta*. Southwestern Association of Parasitologists, University of Oklahoma Biological Field Station, Lake Texoma [oral presentation]
- Becker, M. D., A. Kowalski, **T. J. Cook**, and W.I. Lutterschmidt. 2004. Effects of parasites on thermal tolerance of *Lepomis macrochirus*. Southwestern Association of Parasitologists, University of Oklahoma Biological Field Station, Lake Texoma [poster]
- Fennel, C. R. and **T. J. Cook**. 2004. Seasonal arthropod diversity as affected by the possible seasonal occurrence of *Thelohania solenopsae* infecting *Solenopsis invicta*. American Society of Parasitologists, Philadelphia, PA [oral presentation]
- Smith, A. J. and **T. J. Cook**. 2004. Comparative oocyst ultrastructure of eugregarines parasitizing the death's head cockroach, *Blaberus discoidalis*. American Society of Parasitologists, Philadelphia, PA. [oral presentation]
- Cook, T. J.**, R. E. Clopton, and J. L. Cook. 2003. Eugregarine Parasites of Aquatic and Riparian Insects of the Big Thicket. Big Thicket Science Conference, Beaumont, TX. [oral presentation]
- Laughlin, P. J. and **T. J. Cook**. 2003. Eugregarine parasites of *Telebasis* sp. (Odonata: Coenagrionidae) in Walker County Texas. American Society of Parasitologists, Halifax, Nova Scotia., Texas. [oral presentation]
- Fennell, C. R., H. E. Elfman, and **T. J. Cook**. 2003. Larval behavior of four damselfly species (Odonata: Zygoptera) under normal and stressed conditions. Texas Academy of Sciences, Nacadoches, TX [poster].
- Brain, M. S. and **T. J. Cook**. 2003. Ecological impact of *Thelohania solenopsae* infection on the red imported fire ant, *Solenopsis invicta*. Southwestern Association of Naturalists, Norman, OK [oral presentation]
- Lowery, M. B. and **T. J. Cook**. 2003. Eugregarine diversity of *Corydalus cornutus* in East Texas streams. Southwestern Association of Naturalists, Norman, OK [oral presentation]
- Mitchell, F., Y.Y. Sokolova, J.R. Fuxa, K. Snowden, **T. J. Cook**, and S.B. Vinson. 2002. Development of a survey protocol for *Thelohania solenopsae* in populations of red imported fire ant, *Solenopsis invicta*. Entomological Society of America, Ft. Lauderdale, FL [oral presentation]
- Lowery, M. B. and **T. J. Cook**. 2002. Eugregarine diversity of *Corydalus* sp. in East Texas Streams. Sigma Xi Student Research Conference, Galveston, TX [oral presentation]
- Cook, T. J.** Effect of *Thelohania Solenopsae* 2002. On Weight And Reproductive Status of Female Alates Of the Red Imported Fire Ant, *S. invicta*. Southwestern Association of Naturalists, Cuernavaca, Mexico [oral presentation].
- Brain, M. S. and **T. J. Cook**. 2002. Relationship between the presence of *Thelohania solenopasae* infected imported fire ants and ground dwelling arthropod diversity and abundance.

- Southwestern Association of Parasitologists, University of Oklahoma Biological Field Station, Lake Texoma [oral presentation]
- Lowery, M. B. and **T. J. Cook**. 2002. Eugregarine diversity of *Corydalus* sp. (Megaloptera: Corydalidae) in East Texas Streams. Southwestern Association of Parasitologists, University of Oklahoma Biological Field Station, Lake Texoma. [oral presentation]
- Cook, T. J.** 2001. Effect of *Thelohania solenopsae* on weight and reproductive status of female alates of *Solenopsis invicta*. Southwestern Association of Parasitologists, University of Oklahoma Biological Field Station, Lake Texoma [oral presentation]
- Cook, T. J.** 2001. *T. solenopsae* impact on imported fire ants in a natural, unmanaged system. Annual Imported Fire Ant Research Conference. San Antonio, Texas [oral presentation]
- Chen, J., **T. J. Cook**, and S. B. Vinson. 2001. The effect of *Thelohania* sp. on hemolymph proteins and egg production of the red imported fire ant (*Solenopsis invicta*). Annual Imported Fire Ant Research Conference. San Antonio, Texas [oral presentation]
- Cook, T. J.** 2000. *Thelohania solenopsae* impact on imported fire ant populations at two locations in Texas. Society for Invertebrate Pathology. Guanajuato, MX [oral presentation]
- Chen, J., **T. J. Cook**, and S. B. Vinson. 2000. The effect of *Thelohania* sp. on hemolymph proteins and egg production of the red imported fire ant (*Solenopsis invicta*). Entomological Society of America. Montreal, Canada [oral presentation].
- Vahabzadeh, R. D., **T. J. Cook**, S. B. Vinson, and R. E. Gold. 1999. Effect of *Thelohania solenopsae* infection on fire ant density and colony dimensions. Entomological Society of America, Atlanta, GA. [oral presentation]
- Cook, T. J.** and R. E. Gold. 1999. Microsporidia Parasitizing Fire Ants in Texas. Entomological Society of America, Las Vegas, NV [oral presentation]

Professional Service

- | | |
|--------------|---|
| 2005—present | Editor, <i>Comparative Parasitology</i> |
| 2007—present | Member of ASP nominating committee |
| 2005-2007 | Southwestern Association of Parasitologists, representative to the Council of the American Society of Parasitologists |
| 2004-2005 | President, Southwestern Association of Parasitologists |
| 2003-2004 | President-Elect/Program Chair, Southwestern Association of Parasitologists |
| 2006—present | Member of ASP Student Awards Committee
Acting chair of committee at annual conference (Merida, Mexico)
Elected chair of committee for 2008 |
| 2007 | Member of NSF, Undergraduate Research Mentoring review panel |
| 2007 | Member of NSF, Biological Research Collections review panel |
| 2002 – 2006 | Manuscript Reviewer for the following journals:
Annals of the Entomological Society of America
Comparative Parasitology
Journal of Invertebrate Pathology
Texas Journal of Science
Journal of Parasitology |
| 2005 | Chair, oral presentation session at annual conference of the American Society of Parasitologists, Mobile, Alabama |
| 2005 | Member of NSF, BS&I review panel |

2004
2000

Member of NSF, BS&I review panel
Developed a computer based training module on basic insect biology for
the Texas Agricultural Extension Service (with D. Gouge)