

## Peter Compton Schulze

Professor of Biology & Environmental Science  
Director, Center for Environmental Studies  
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### Education

1989	Ph.D.	Dartmouth College, Hanover, NH	Biology
1984	M.S.	University of Wisconsin - Milwaukee	Zoology
1980	B.A.	Lawrence University, Appleton, WI	Biology

### Employment

1994-	Austin College
1994-99	Assistant Professor
1999-07	Associate Professor
2000 -	Director, Center for Environmental Studies
2007 -	Professor
1997-98	Texas Christian University, adjunct graduate faculty in biology
1994-96	National Academy of Engineering, industrial ecology consultant
1993-94	National Academy of Engineering, J. Herbert Hollomon Fellow
1990-93	Lehigh University, Research Associate (90-92), Research Scientist (92-93)
1989-90	Dartmouth College, Visiting Assistant Professor of Biology
1989-90	Harvard University, Teaching Assistant (Harvard title for temp. faculty with Ph.D.)
1988-89	NSF grant # BSR 8705480 to Dr. Carol L. Folt
1988	Colby-Sawyer College, Lecturer
1984-88	Dartmouth College Fellowship
1981-84	University of Wisconsin-Milwaukee, teaching and research assistantships
1980-81	Baxter-Travenol Laboratories, Analytical Chemistry Technician

### Honors and awards

2002-	Editorial Board, <i>Freshwater Biology</i> (ISI Journal Citation Reports © Ranking 2014: 13/103 in Marine & Freshwater Biology)
2012	Austin College CASE Professor of the Year nominee
2011	Austin College Science Division Service Award
2005	Austin College Science Division Outstanding Scholarship Award
2004	<i>Texas Monthly</i> magazine, <i>Best Classes at Austin College</i>
2001	Austin College Science Division Outstanding Scholarship Award Volunteer of the Year, Perrin Elementary School, Sherman, Texas
1995-7	U. S. National Research Council, Steering Committee, Board on Agriculture: Environmental Implications of Wood as a Raw Material for Industrial Use. <i>Publication:</i> Board on Agriculture, 1997, <i>Wood in Our Future</i> . National Academies Press. 127 p.
1993	U. S. National Academy of Engineering, J. Herbert Hollomon Fellowship
1991	Elected to Sigma XI, The Scientific Research Society
1990	Harvard University, Certificate of Distinction in Teaching
1984-8	Dartmouth College, Dartmouth Fellowship
1980	Lawrence University, Thomas Reid Scholarship (journalism)

### **Current courses**

Conservation and Restoration Ecology (BIOL 259)  
Current Controversies and Emerging Issues (ENVS 350)  
Environmental Policy (ENVS 379)  
Evolution, Behavior, & Ecology (BIOL 115)  
Fundamentals of Environmental Studies (ENVS 135)  
Prairie Restoration (ENVS 100a)

### **Professional affiliations**

Association for Environmental Studies & Science  
Association for the Sciences of Limnology & Oceanography  
Ecological Society of America  
International Society of Limnology  
Sigma Xi  
Society for Conservation Biology  
Society for Ecological Restoration

### **Grants and gifts** (\*denotes coauthor or contributor, otherwise lead or sole author or solicitor)

2015 Private gift to Center for Environmental Studies \$10,000 for 2015 summer interns  
2014 Private gift to Center for Environmental Studies \$4700 for 2014 summer interns  
2011 Dixon Water Foundation \$24,000 prairie restoration & field trips  
2011 Constellation Energy \$4,951 prairie field trips  
2011 \*Margaret A. Cargill Foundation \$383,612 environmental studies  
2009 \*Margaret A. Cargill Foundation \$50,000 environmental studies  
2006 U.S. EPA \$9880 prairie field trips  
Whitesboro, Texas Rotary Club \$929 Sneed prairie pavilion construction  
2005 Grayson County, Texas Rotary Club \$2,500 Sneed prairie pavilion construction  
Whitesboro, Texas Rotary Club \$825 Sneed prairie pavilion construction  
2004 Denison, Texas Rotary Club \$5,000 Sneed prairie pavilion construction  
Grayson County, Texas Rotary Club \$2,500 Sneed prairie pavilion construction  
National Fish and Wildlife Foundation \$27,774 prairie field trips and restoration  
Magnolia Trust \$3,000 Sneed pavilion rainwater catchment system  
Sherman, Texas Rotary Club \$5,000 Sneed prairie pavilion construction  
Texas Parks and Wildlife \$16,672 prairie restoration field trips for schoolchildren  
U. S. Fish and Wildlife Service \$920 prairie restoration  
2002 \*Robert & Ruby Priddy Charitable Trust \$480,000 environmental studies  
Meadows Foundation \$138,000 land use and water quality in north central Texas  
2001 U. S. EPA \$22,000 prairie restoration and environmental education  
Texas Parks and Wildlife Department \$16,000 environmental education  
U. S. Fish and Wildlife Service \$3,000 prairie restoration  
2000 U. S. Fish and Wildlife Service \$3,000 prairie restoration  
1999 Wray Trust \$1,000 prairie restoration  
1998 Texas Natural Resources Conservation Commission \$13,000 municipal recycling  
(for City of Sherman, Texas)  
1997 Anonymous donor \$20,000 research boat  
1991 U. S. National Science Foundation grant # DIR-9110434 \$5,000 principal investigator  
1985 Sigma Xi Grant in Support of Research, \$300

### **Publications - edited volumes**

- 1999 Schulze, P.C. (editor) *Measures of Environmental Performance and Ecosystem Condition*. National Academies Press. Washington, D.C. 303 p.
- 1996 Schulze, P.C. (editor) *Engineering Within Ecological Constraints*. National Academies Press. Washington, D.C. 213 p.
- 1992 Sprules, W.G., P.C. Schulze, & C.E. Williamson (editors) *Advanced Techniques for in situ Studies of Zooplankton Abundance, Distribution, and Behavior*. *Archiv für Hydrobiologie / Advances in Limnology* 36, 140 p.

### **Publications - peer-reviewed papers, book chapters, & theses**

- 2011 Schulze, P.C. Evidence that fish structure the zooplankton communities of turbid lakes and reservoirs. *Freshwater Biology* 56:352-365.
- 2009 Schulze, P. C., K. J. Wilcox, A. Swift, and J. L. Beckert. Fast, easy measurements for assessing vital signs of tall grassland. *Ecological Indicators* 9:445-454.
- 2006 Schulze, P.C., J.H. Gillespie, J.R. Womble, and A.F. Silen. The effect of suspended sediments on Lake Texoma *Daphnia*: field distributions and in situ incubations. *Freshwater Biology* 51:1447-1457.
- 2003 Diggs, G. M. Jr. and P. C. Schulze. Soil-dependent fire frequency: a new hypothesis for the distribution of prairies and oak woodlands/savannas in North Central and East Texas. *Sida* 20:1137-1151.
- 2002 Schulze, P.C. I = PBAT. *Ecological Economics* 40:149-150.
- 2001 Schulze, P.C. and J. Mealy. Population growth, technology and tricky graphs. *American Scientist* 89:209-211.
- 2000 Schulze, P.C., H.E. Zagarese, and C. E. Williamson. A simple flow-through system for *in situ* continuous culture of zooplankton. *Internationale Vereinigung für Theoretische und Angewandte Limnologie (International Journal for Theoretical & Applied Limnology)* 27:1915-1918.
- 1999 Schulze, P.C. & R. A. Frosch, Overview. Pp. 1-12 In: Schulze, P.C. (ed.) *Measures of Environmental Performance and Ecosystem Condition*. National Academies Press. Washington, D.C. 303 p.
- 1996 Schulze, P.C., R.A. Frosch, & P.G. Risser. Overview and perspectives. Pp. 1-10 in: P.C. Schulze (ed.), *Engineering within Ecological Constraints*. National Academies Press. Washington, D.C. 213 p.
- 1995 Schulze, P.C., C.E. Williamson, & B.R. Hargreaves. 1995. Evaluation of a remotely operated vehicle (ROV) as a tool for studying the distribution and abundance of zooplankton. *Journal of Plankton Research* 17:1233-1243.

- 1995 Schulze, P.C., H.E. Zagarese, & C.E. Williamson. Competition between crustacean zooplankton in continuous cultures. *Limnology & Oceanography* 40:33-45.
- 1994 Schulze, P.C., M. Leighton, & D.R. Peart. Enrichment planting in selectively logged rain forest: a combined ecological and economic analysis. *Ecological Applications* 4:581-592.
- 1994 Schulze, P.C. Cost-benefit analysis and environmental policy. *Ecological Economics* 9:197-199.
- 1994 Williamson, C.E., H.E. Zagarese, P.C. Schulze, B.R. Hargreaves, & J. Seva. The impact of short-term exposure to UV-B radiation on zooplankton in north temperate lakes. *Journal of Plankton Research* 16:205-218.
- 1993 Folt, C.L. & P.C. Schulze. Spatial patchiness, individual performance, and predator impacts. *Oikos* 68:560-566.
- 1993 Folt, C.L., P.C. Schulze, & K. Baumgartner. Characterizing a zooplankton neighbourhood: small scale patterns of association and abundance. *Freshwater Biology* 30:289-300.
- 1992 Schulze, P.C., J.R. Strickler, B.I. Bergström, M.S. Berman, P. Donaghay, S. Gallager, J.F. Haney, B.R. Hargreaves, U. Kils, G.-A. Paffenhöfer, S. Richman, H.A. Vanderploeg, W. Welsch, D. Wetthey, & J. Yen. Video systems for in situ studies of zooplankton. *Archiv für Hydrobiologie / Advances in Limnology* 36:1-21.
- 1992 Schulze, P.C., C.E. Williamson, & W.G. Sprules. Concluding remarks: A comparison of new devices for studying zooplankton in situ. *Archiv für Hydrobiologie / Advances in Limnology* 36:135-140.
- 1990 Schulze, P.C. & C.L. Folt. Food resources, survivorship, and reproduction of the omnivorous calanoid copepod *Epischura lacustris*. *Ecology* 71:2224-2240.
- 1989 Schulze, P.C. The effects of food resources and conspecifics on the foraging, survivorship, and reproduction of the omnivorous copepod *Epischura lacustris*. Ph.D. dissertation. Dartmouth College. 164 p.
- 1989 Schulze, P.C. & C.L. Folt. Effects of conspecifics and phytoplankton on predation rates of the omnivorous copepods *Epischura lacustris* and *Epischura nordenskiöldi*. *Limnology and Oceanography* 34:444-450.
- 1987 Schulze, P.C. & A.S. Brooks. The possibility of predator avoidance by Lake Michigan zooplankton. *Hydrobiologia* 146:47-56.
- 1984 Schulze, P.C. Influences upon the vertical distributions of Lake Michigan microcrustaceans. M.S. thesis. University of Wisconsin - Milwaukee. 112 p.

## **College service**

### Program directorship

- 2000- Director, Center for Environmental Studies
- 1998 Acting Director, Center for Environmental Studies, spring

### Campus-wide Committees

- 2015-16 Faculty Grievance Committee
- 2011- Environmental Sustainability Advisory Committee (Chair 2013- )
- 2011-2014 Faculty Executive Committee (Chair 2013-14)
- 2009-10 Faculty Hearing Committee
- 2008-10 Presidents Climate Commitment Advisory Committee (Chair)
- 2004-06 Healthy Campus Committee
- 2002-07 Lilly Project Steering Committee
- 2001-07 Science Building Design Team
- 2004-05 Faculty Hearing Committee
- 1999-2001 Curriculum Review Steering Committee
- 1998-2000 Curriculum Committee
- 1996-8 Student Conduct Council
- 1995-01 Watson Fellowship Committee (Chair 1999-2001)
- 1995- Environmental Studies Steering Committee (Chair 2000-)

## **Community Service**

### Sherman, Texas Independent School District

- 2015- Athletic Booster Club Board
- 2010-14 ACES (after school enrichment program) Advisory Committee
- 2008 Sherman Education Foundation Advisory Board
- 2008 TAKS Science committee, Piner Middle School
- 2006-08 Perrin School parent representative to District Site Based Committee

### Youth soccer coach

- 2010-14 Competitive team coach
- 2009-10 Competitive team coach and assistant coach (two teams)
- 2008-09 Recreational team coach & competitive team assistant coach
- 2002-08 Recreational team coach and assistant coach (two teams)
- 2000-02 Recreational team assistant coach

### Grayson County, Texas

- 2009-2011 Grayson County AgriLife Extension Office Natural Resource Committee  
(Chair 2009-2010)

### City of Sherman, Texas

- 2008 Comprehensive Plan Advisory Committee
- 1996-2000 Keep Sherman Beautiful Commission (residential curbside recycling initiated)

### North Texas Job Corps Center, McKinney, Texas

- 2006-2008 Academic Advisory Council

Belden Street Montessori School, Sherman, Texas

1999-2005 Board president

1998-1999 Board member

Texoma Council of Governments

1999-2002 Natural Resources Advisory Committee

1996-8 Steering Committee, Household hazardous waste collection

1995-8 Texoma Environmental Advisory Committee (replaced w/ Nat Res Cmte 1999)

1996 Steering Committee, Texoma Teachers' Institute for Environmental Education

Recent invited presentations to local organizations

2015 Ecology – Master Naturalist class, 22 August, Austin College

2014 Sneed Prairie Restoration – Collin County Chapter of the Native Plant Society of Texas, 2 July, Heard Museum, McKinney, Texas

Ecology – Master Naturalist class, 21 March, Grayson County, Texas Courthouse

Ecology – Master Naturalist class, 23 August, Hagerman Wildlife Refuge

2013 Ecology – Master Naturalist class, 21 March, Grayson County, Texas Courthouse

2012 Ecology – Master Naturalist class, 18 August, Hagerman Wildlife Refuge

2011 Water: Ecology of a Disaster, 18 September, Red River Unitarian Universalist Church

2010 Ecosystem Restoration at Austin College's Sneed Prairie, Hagerman Wildlife Refuge  
2<sup>nd</sup> Saturday Program

BP Horizon Spill & Future Energy Supplies, Red River Unitarian Universalist Church

Saving Money Saving Energy, Sherman Independent School District "Parent University"

2009 Evolution 2, 2 March, Red River Unitarian Universalist Church

*E. coli* in Lake Texoma, 8 December, Lake Texoma Stewardship Forum organized by Texas State University River Systems Institute

2008 Evolution, 9 March, Red River Unitarian Universalist Church

Piner Junior High School career day, 23 May

Local environmental issues, 12 June, Denison, Texas Rotary Club

2007 Various presentations re proposed coal and asphalt plants