

## Peter Compton Schulze

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Director, Center for Environmental Studies  
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### Education

1989	Ph.D.	Dartmouth College, Hanover, NH, USA	Biology
1984	M.S.	University of Wisconsin – Milwaukee, USA	Zoology
1980	B.A.	Lawrence University, Appleton, WI, USA	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	US National Academy of Engineering, industrial ecology consultant
1993-94	US 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 temporary faculty with Ph.D.)
1988-89	US National Sci. Found. grant BSR 8705480 to Dr. Carol Folt, Dartmouth College
1988	Colby-Sawyer College, Lecturer
1984-88	Dartmouth 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> (Web of Science 2016 ranking 6/105 in Marine & Freshwater Science)
2018	Austin College Excellence in Teaching and Campus Leadership Award
2017&9	US National Science Foundation proposal review panelist
2012	Austin College CASE Professor of the Year nominee
2011	Austin College Roy F. Melugin Science Division Service Award
2005	Austin College Science Division Outstanding Scholarship Award
2004	<i>Texas Monthly</i> magazine, one of five faculty listed under <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	US 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 Academy Press. 127 p.)
1993	US 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**

Evolution, Behavior, & Ecology (BIOL 115)  
Conservation and Restoration Ecology (BIOL 259)  
Prairie Restoration (ENVS 100a)  
Environmental Policy (ENVS 379)  
Environmental Solutions (ENVS 389)

### **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

### **Publications - edited volumes**

- 1999 Schulze, P.C. (editor), *Measures of Environmental Performance and Ecosystem Condition*. National Academies Press. Washington, D.C. 303 p.  
<https://www.nap.edu/catalog/5147/measures-of-environmental-performance-and-ecosystem-condition>
- 1996 Schulze, P.C. (editor) *Engineering Within Ecological Constraints*. National Academies Press. Washington, D.C. 213 p.  
<https://www.nap.edu/catalog/4919/engineering-within-ecological-constraints>
- 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. [https://www.schweizerbart.de/publications/detail/isbn/9783510470372/Archiv\\_Ergebnisse\\_d\\_Limnol\\_Heft\\_36](https://www.schweizerbart.de/publications/detail/isbn/9783510470372/Archiv_Ergebnisse_d_Limnol_Heft_36)

### **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. doi:10.1111/j.1365-2427.2010.02503.x
- 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 Academy Press. Washington, D.C.
- 1996 Schulze, P.C., R.A. Frosch, & P.G. Risser. 1996. Overview and perspectives. Pp. 1-10 in: P.C. Schulze (ed.), *Engineering within Ecological Constraints*. National Academy Press. Washington, D.C.
- 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. Wethey, & 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 nordenskioldi*. *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.

#### **Publications not peer-reviewed**

- 2017 TEDx talk, *We Aren't Going to Mars*  
[https://www.youtube.com/watch?v=xo-jvH\\_Wlmk](https://www.youtube.com/watch?v=xo-jvH_Wlmk)  
 (125,000 views as of June 2019)
- 2017 *Dallas Morning News* letter to editor, 10 June, climate change
- 2014 *Herald-Democrat* (Sherman, Texas), invited op-ed, 2 February, climate change, coauthors K. Kisselle & G. Diggs
- 2005 Beckert, J., L. Mahaffey, J. Fulton, and P. Schulze, *The Blackland Prairie of Texas: Lessons for Elementary Classes*. Copyright 2005, Austin College.
- 2004 Schulze, P.C. (author and producer). *The Blackland Prairie of Texas*. Copyright 2004. Austin College. (Video),  
<https://www.youtube.com/watch?v=pmY77u5koq4>
- 1997 *Toronto Globe & Mail*, letter to editor, 12 April, recycling
- 1996 20+ newspapers, including *Cleveland Plain Dealer*, *Memphis Commercial Appeal*, *Oakland Tribune*, *Fayetteville Observer*, total circulation of approximately 2 million. Op-ed article - ecological constraints in engineering (associated w/ 1996 book)
- 1993 *Morning Call*, Allentown, Pennsylvania, letter to editor, 7 July, landfill policies

- 1991 *Wall Street Journal*, letter to editor, 7 January, free markets and conservation
- 1991 Schulze, P.C. Incorporation of environmental damages into cost-benefit analyses: an introduction. *Bulletin of the Ecological Society of America*. 72:15-19.
- 1988 Folt, C.L. & P.C. Schulze. Spatial distribution and zooplankton behavior. *Bulletin of Marine Science*. 43:847 (Abstract)

## Reviewer for

### Journals

<i>Archiv für Hydrobiologie</i>	2007, 1999, 98
<i>Bulletin of Marine Science</i>	1992, 87
<i>Conservation Ecology</i>	2003
<i>Diversity and Distributions</i>	2011
<i>Ecological Economics</i>	2006-05, 2002, 2001, 1999-95, 93, 92
<i>Ecology</i>	1997-91
<i>Ecology Letters</i>	2002
<i>Freshwater Biology</i> (editorial board)	2002- , 1992
<i>Hydrobiologia</i>	2017, 2014, 2009, 1996
<i>International Review of Hydrobiology</i>	2012
<i>J. Air &amp; Waste Management Association</i>	1999
<i>Limnology &amp; Oceanography</i>	1995, 93
<i>Marine &amp; Freshwater Behaviour &amp; Physiology</i>	1995
<i>National Research Council Board on Agriculture</i>	1997
<i>PLOS One</i>	2013
<i>Southwestern Naturalist</i>	1998

### Funding agencies & foundations

CDRF Global	2009, 2006
US Civilian Research and Development Foundation	2008, 2006
US Environmental Protection Agency	2005
Israel Science Foundation	1996
US National Science Foundation	2017 (panelist), 2019 (panelist), 1995, 1992
Flora & Fauna International	1996

### University graduate program external reviewer

Univ. Texas-Arlington, Env. Science & Engineering	2003
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### Book Publishers

Westview	2017
Prentice-Hall Environmental Science	2005

### Thesis committees

- Weston Nowlin, M.S., Texas Christian University (degree awarded 1998)
- Gabriella Grad, Ph.D., Lehigh University (degree awarded 1997)

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

- 2014- \*Private annual gift to Ctr for Environmental Studies (\$25,000/year beginning 2017)
- 2011 Dixon Water Foundation \$24,000 Sneed project & internships (w/ Dara McCoy)
- 2011 Constellation Energy Ecostar Grant \$4,951 (Sneed project) (w/ Dara McCoy)
- 2011 \*Margaret A. Cargill Foundation, \$383,612 (addition to previous Cargill gift)
- 2009 \*Margaret A. Cargill Foundation, \$50,000
- 2006 US EPA, \$9,880, Sneed Prairie field trips  
Whitesboro Rotary Club, \$929 toward construction of Sneed Pavilion
- 2005 Grayson County Rotary Club, \$2,500 toward construction of Sneed Pavilion  
Whitesboro Rotary Club, \$825 toward construction of Sneed Pavilion
- 2004 Denison Rotary Club, \$5,000 toward construction of Sneed Pavilion  
Grayson County Rotary Club, \$2,500 toward construction of Sneed Pavilion  
National Fish and Wildlife Foundation, \$27,774, Field trips and prairie restoration  
Magnolia Trust, \$3,000, Sneed Pavilion rainwater catchment system  
Sherman Rotary Club, \$5,000 toward construction of Sneed Pavilion  
Texas Parks and Wildlife, \$16,672, Prairie restoration field trips for schoolchildren  
USFWS, \$920, extension to private lands agreement of 2001
- 2002 \*Robert & Ruby Priddy Charitable Trust, environmental studies program, \$480,000  
Meadows Foundation, land use and water quality in north central Texas, \$138,000
- 2001 US EPA, prairie restoration and environmental education, \$22,000  
Texas Parks and Wildlife Department, environmental education, \$16,000  
US Fish and Wildlife Service, prairie restoration, \$3,000
- 2000 US Fish and Wildlife Service, prairie restoration, \$3,000
- 1999 Wray Trust, support for prairie restoration, \$1,000
- 1998 Texas Natural Resources Conservation Commission, municipal recycling, \$13,000  
(for City of Sherman)
- 1997 Proposal to anonymous donor, Austin College research boat, \$20,000
- 1991 US National Science Foundation grant # DIR-9110434, principal investigator, \$5,000
- 1985 Sigma Xi Grant in Support of Research, \$300

**College service**

Program directorship & committee chairmanship

- 2013-4 Chair, Executive Committee of the Faculty
- 2011- Chair, Environmental Sustainability Advisory Committee
- 2008-10 Chair, Presidents Climate Commitment Advisory Committee
- 2000- Director, Center for Environmental Studies
- 2000- Chair, Center for Environmental Studies Steering Committee
- 1999-2001 Chair, Watson Fellowship Committee
- 1998 Center for Environmental Studies, Acting Director, spring

Committees

- Current
- 2019-20 Faculty Hearing Committee
- 2017- Sigma Xi/USRA Committee

- 2015- Public Health Advisory Committee
- 2011- Environmental Sustainability Advisory Committee
- 2000- Center for Environmental Studies Steering Committee

Prior

- 2018 Vice President for Academic Affairs & Dean of Faculty search committee
- 2015-6 Faculty Grievance Committee
- 2015-6 Institutional Animal Care and Use Committee
- 2015 Classical and Modern Languages Self Study Committee
- 2011-2014 Executive Committee of the Faculty
- 2009-10 Faculty Hearing Committee
- 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

Advisor to Students & Student Group (besides routine advisory assignments)

- 2018- Coach for student TEDx speaker
- 2006 - Amnesty International
- 2004 - Alpha Delta Chi sorority (volunteer work at prairie restoration 1997-present)

### **Community Service**

Grand Central Station Dining Car (soup kitchen, etc.) <http://grandcentralsherman.com/>

- 2019- Capital Campaign Co-Chair
- 2018- Board of Directors
- 2016- Volunteer

Sherman Independent School District

- 2015-17 Athletic Booster Club Board
- 2010-14 ACES (after school enrichment program) Advisory Committee
- 2008 Sherman Education Foundation Advisory Board
- 2008 Texas Essential Knowledge & Skills Science committee, Piner Middle School
- 2006-08 Perrin Elementary School parent representative, District Site Based Committee

Youth soccer coach

- 2010-14 Coach for one competitive team per season (through spring 2014)
- 2000-10 Coach and Assistant Coach for two recreational or competitive teams per season (spring & fall)

Grayson County Agricultural Extension (“AgriLife”) Service

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

City of Sherman

2008 Comprehensive Plan Advisory Committee  
1996-2000 Keep Sherman Beautiful Commission

North Texas Job Corps Center, McKinney, TX

2006-08 Academic Advisory Council

Belden Street Montessori School

1999-2005 Board President  
1998-2005 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  
1996 Steering Committee, Texoma Teachers' Institute for Environmental Education

Recent presentations to local organizations

2019 Grayson County Master Gardeners, Feb 12, prairie restoration  
Grayson County Rotary Club, Jun 19, prairie field trips for schoolchildren  
2018 Red River Unitarian Universalist Church, Apr 22, *There is no Planet B*  
Grayson County Master Naturalists, Aug 1, ecology  
2017 Iron Post restaurant, Apr 4, climate change panel (Sherman Museum sponsor)  
Grayson County Master Naturalists, Oct 7, ecology  
2016 Hagerman National Wildlife Refuge, Jan 9, Sneed Prairie Restoration  
Austin College sabbatical talk, Feb 17, Obstacles to Environmental Progress  
Master Naturalist Class, Feb 24, Sneed prairie  
2015 Master Naturalist class, Aug 22, ecology  
2014 Master Naturalist class, Mar 21, ecology  
Master Naturalist class, Aug 23, ecology  
2013 Master Naturalist class, Mar 21, ecology  
2012 Master Naturalist class, Aug 18, ecology  
2011 Red River Unitarian Universalist church, 18 Sep, Water: Ecology of a Disaster  
2010 Hagerman National Wildlife Refuge 2<sup>nd</sup> Saturday Program speaker  
Hagerman National Wildlife Refuge Prescribed Fire Workshop – organizer  
Red River Unitarian Universalist Church, BP Horizon Spill & Future  
Energy Supplies  
Sherman Independent School District, Saving Money Saving Energy  
2009 Red River Unitarian Universalist church, evolution 2  
Lake Texoma Stewardship Forum, 8 Dec, *E. coli* in Lake Texoma  
(organized by River Systems Institute, Texas State University)  
2008 Red River Unitarian Universalist church, evolution 1  
Piner Junior High School Career Day, 23 May  
Denison Rotary Club – local environmental issues, 12 June  
2007 Various presentations re proposed coal and asphalt plants