

Newsletter

SINO ECO

**Special Issue
Sino Eco 2008-2010 Presidential Election**

Dr. Ge Sun vs. Dr. Jianwu Tang



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中華海外生態學者協會

Sino-Ecologists Association Overseas

Message from the President

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Executive Committee

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(U of Quebec at Montreal)

Dear Sino-Eco members and friends:

On behalf of the Sino-Eco President Election Committee, I am very pleased to announce two Sino-Eco presidential candidates for the 2008 - 2010 term: Dr. Ge Sun from USDA Forest Service, North Carolina and Dr. Jianwu Tang from the Ecosystem Center, Marine Biological Laboratory, Massachusetts.

We appreciate Dr. Sun's and Dr. Tang's willingness to serve the Sino-Eco community and to lead the association to a higher level in the next two years. Please review their background, experience and campaign statements. Do not hesitate to ask them questions through the list. Once you decide whose vision is better aligning to yours, send your vote for ONE of these candidates to the election committee by March 31, 2008.

Make sure to send your choice to all committee members using following email addresses at the same time:

smiao@sfwmd.gov
hliu01@yahoo.com
gubinhe@gmail.com

The deadline for casting your email ballot is 11:59pm PDT March 31, 2008.

According to the Sino-Eco bylaw, only currently paid members are eligible to vote. A list of eligible members is published with this announcement. Please verify your status and let us know if you have any questions.

Sincerely,

Ben Gu, Ph.D.
President, Sino-Eco



服务海内外华人生态学者，增强友谊，促进学术交流，共建美好家园

Ge Sun (孙阁)

Sino-Eco is a small organization that has a membership from elite Chinese ecologists. Sino-Eco offers many opportunities to enhance personal friendship, to seek professional exemplary inspiration, and to fulfill career satisfaction by serving the people and lands we cherish so much. It is a small organization, but it serves an important role as a key professional bridge between ecologists in China and those overseas. This role has grown rapidly since the 'Three Wu' era when the 'Club' was established in the late 1980s, and this role will become only more prominent as the academic exchanges between China and the rest of the world intensify in the coming years.

I have the desire to contribute the continuing healthy growth of this organization by devoting time and energy during my presidency. In particular, my team will focus on the following areas:

1. Continue to promote interactions among Chinese ecologists overseas and China by sponsoring international conferences and academic exchange activities. My team will help to organize the IUFRO Landscape Ecology and Forest Management Conference in Sep 2008 in Chengdu, China. As usual, we will organize the annual get together party at the Annual ESA meeting.
2. Offer more benefits to individual ESA members in their studies, research, and career growth. This can be achieved through organizing special issues of journal publication, Book publications, and popular series articles in newspapers. Facilitate established Sino-Eco members to provide opportunities for young scientists involving in synthesis studies, reviewing papers, and even participating research projects.
3. Develop an expertise database of Sino-Eco members and facilitate consulting service to the research community in China. Publishing in English journal is still a barrier to many Chinese students and researchers. Sino-eco can be organized and offer help in this particular area.
4. Continue to strengthen communications among Sino-Eco members and the rest of the world. The Newsletter has been an excellent vehicle to get words out. We should continue to update the web site and email list to inform important news in ecology overseas and in China.

In summary, I have admired all the previous teams of Sino-Eco leadership a great deal. I believe, as in any other organizations, only through acting as a group, can Chinese ecologists grow together professionally, our messages get heard, our benefits get protected, and we achieve a lot more. It was an honor to be nominated to get involved into this race, and it is indeed my responsibility to serve this wonderful organization.

Jianwu Tang

It is my great honor to participate in the president campaign of Sino-Eco. This year marks Sino-Eco's 20-year anniversary. There have been a lot of changes during the past 20 years, in the field of ecology, in China's development, and in the changing global ecosystems that we live in. However, the mission of Sino-Eco has never been changed, that is, "To promote the exchange of ideas, knowledge, and scientific development in Ecology and related sciences, among Chinese ecologists overseas as well as between ecologists overseas and those in China."

I myself have benefited from this mission. It is through Sino-Eco that I met many senior and young Chinese ecologists, who inspire me through development of my research and my career. If I am elected as the next-term Sino-Eco president, I will further strengthen this mission by promoting more exchanges of knowledge and experience among senior and young members, among overseas members and Chinese colleagues. Specifically, I will focus on the following efforts.

1. To create a Sino-Eco annual symposium. Many Sino-Eco members and Chinese colleagues attend the annual ESA (Ecological Society of America) meeting, where we have traditional social gathering, but lack of opportunities to formally exchange research ideas and career experience. I plan to hold a half-day Sino-Eco symposium immediately before the ESA meeting, which will be convenient for most of our members while provide a great opportunity for exchange. This will be particularly beneficial for new members, since they often lack chances to meet senior, established members. In the future, this annual symposium can be extended to be independent of ESA meetings and located in either China or overseas.

In addition to the symposium, I plan to host or co-host several workshops in China, which will strengthen our existing ties with Chinese institutions including the Ecological Society of China.

2. To promote recruiting of new members. Sino-Eco has entered its critical time during an organizational development cycle, which means, it may either exclusively maintain a strong tie among senior and founding members with gradual shrinking in both memberships and activities, or jump over the development neck toward a sustainable development. Recruiting new members is the key to ensure the further development of Sino-Eco. Senior members are invaluable legacies and assets of Sino-Eco, but new members are refreshing drivers for growth. I plan to promote recruiting new members through senior members' influence on their students/advisees, through active advertisement in conferences, and through retaining ecologists that have returned to China, who are still eligible as members.

I plan to improve our webpage for allowing on-line registration, profile update and due payment, to facilitate the growth of membership.

3. To strengthen the Sino-Eco organization. I plan to strengthen the function of Board of Directors, which is stated in the Bylaws. The Board of Directors should have representatives from China and other Asia countries, North America, Europe, and Australia. I plan to explore the possibility to change the Board of Directors to be independent of the President.

Together, with efforts from our experienced senior members and our enthusiastic young members, I have confident that our Sino-Eco will grow better and greater. Thank you for your attention and support.

Dr. Ge Sun's Curriculum Vitae

Affiliation:

Research Hydrologist
 Southern Global Change Program
 USDA Forest Service Southern Research Station
 920 Main Campus, Venture II Building, Suite 300, Raleigh, NC 27606
 Phone: (919)5159498 (O), (919)3191762 (H) Fax: (919)5132978
 Email:ge_sun@ncsu.edu

Academic Degrees:

- Ph.D. (1995)/Forest Hydrology and Watershed Management, University of Florida
- M.S. (1988)/Forest Hydrology, Beijing Forestry University
- B. S. (1985)/Soil and Water Conservation, Beijing Forestry University

Positions of Employment:

- Research Hydrologist, USDA Forest Service, 2003-present
- USDA Associate Professor, North Carolina State University, 2003-
- Assistant Professor (Research), Forest Hydrology, 1997 -2003, North Carolina State University
- Adjunct faculty of Auburn University ; University of Toledo, Ohio; Southern China Botanic Garden, Chinese Academy of Sciences; Beijing Forestry University
- Post-doctoral Research Associate, Forest Hydrology/GIS Modeling, 1996 - 1997, University of Florida
- Graduate Research Assistant, 1991-1995, University of Florida
- Research Ecologist, 1988-1991, Research Center for Eco-Environmental Sciences, Chinese Academy of Sciences, Beijing, China

Scholarly and Professional Honors

- 2006, Extra-effort in organizing the International Conference on Forest and Water in a Changing Environment International Hydrology Conference” in Beijing, China. The international, IUFRO sponsored meeting was attended by scientists from 22 countries, and represented a major synthesis of recent hydrologic research. Certificate of Merit, Southern Research Station.
- 2006, Extra effort for an exceptional year of national and international collaboration resulting in his co-authorship of 13 peer reviewed and 13 non-peer reviewed papers in FY 06. Certificate of Merit. Southern Research Station
- 2005 Certification of Merit Southern Global Change Program
- 2004 USDA Forest Service, Certificate of Merit for Organizing Academic Exchange between US Scientists at Coweeta Hydrologic Lab and Chinese Scientists
- 2002, 2000 Admiration and Appreciation Awards, Southern Global Change Program USDA Forest Service, Raleigh
- 1995 Best Dissertation Award, School of Forest Resources Conservation, University of Florida
- 1990 China State of Forestry Research Progress Award

Research Interest

- Effects of land management on stream water quantity and quality; Application of computer simulation models, GIS, and remote sensing in watershed

management at multiple temporal and spatial scales. Hydrology and biogeochemical cycling in forested wetlands.

- Fifteen years of research experience in studying forest ecosystems with a focus on forest and water relations, and impacts of climate change on the coupling of water and biogeochemical cycling.

Teaching Activities

- Taught FOR595c at North Carolina State University. Introduction to Forest Hydrology. Enrolment: 11 (2000 Spring), 6(2002 Spring), 11 (2003 Spring)
- I graduated three M.S. students, Jianbiao Lu in 2002 and Zhiyan Mao in 2003, Tyler Crumbley (2007) and one Ph.D. student (2006), Dr. Jeff Lu.
- I also involved advising three doctoral graduate students (Xu Wang, Shenegping Wang, and Chenfeng Liu) at the Chinese Academy of Sciences and Beijing Forestry University.
- I advised one international visiting scholar, postdoctoral student (Dr. S. Qi) during 2002-2003.
- Current, I am committee members of two doctoral graduate students at Auburn University and University of Toledo on ecosystem modeling.
- I also graduated one Ph.D. student (Dr. Niu Zhiming in China) in 2000. I also provided technical advice to other students, such as Michael Trapani (Forestry Department), Jonathan Diggs (BAE Department), and Jennifer Pyzoha (Charleston College, SC) on thesis research on hydrologic modeling.

Professional Services

- Hydrology Leader and Founding Member of the U.S.-China Carbon Consortium (USCCC)
- Executive Committee Member in Watershed Management and Wetlands, American Water Resources Association, 1998-
- Member of the American Geographic Union (Global Environmental Change Focus Group), 2004-
- Associate Editor (Guest): Journal of American Water Resource Association (Special Issue: Forest Hydrology in China, to be published in 2008)
- Associate Editor (Guest): Agriculture and Forest Meteorology (Carbon and Water Fluxes from Disturbed Ecosystem In China to be published in 2008)
- Editorial Board Member: Forestry Studies in China
- Editorial Board Member: Frontier of Forestry in China-Selected Publications from Chinese Universities
- Regular Reviewer for Journal of American Water Resources Association, Water Resource Research, Journal of Hydrology, Journal of Spatial Hydrology, Journal of Contaminant Hydrology, Climate Change, Ecological Modeling, Forest Sciences, Journal of Soil and Water Conservation, Wetlands, Environmental Management, Marine and Freshwater Research(Australia), Global Change Biology, Transacts of American Agricultural and Biological Engineering, Wetland Ecology and Management, Forest Ecology and Management, Journal of Soil and Water Conservation Sciences (China); J of Environmental Quality, J of Hydrometeorology, Ecology
- Ad Hoc Reviewer for National Science Foundation (2002; 2006), USDA NRI Watershed Processes and Hydrology Program (2003); National Fish and Wildlife Foundation (2005); South Carolina Sea Grant Consortium (2006)
- Review Panel Member for USDA NRI Managed Ecosystem Program (2004)
- The British Columbia Forest Science Program (FSP) (2004, 2005, 2006)

Funding Awards

- DOE National Institute for Climate Change Research, “Effects of Multiple Changes in Climate and Atmospheric Composition on Terrestrial Ecosystem Structure and Functioning in the Southeastern US: A Regional Synthesis”. 06-01-2006 – 05-31-2009. \$374, 998 (Tian, Chappelka, Chen, Sun).
- NASA Energy and water-cycle sponsored research, “Effects of Land Use Change on the Energy and Water Balance of the Semi-Arid Region of Inner Mongolia, China” 07-2005 - 07-2008. (Chen, Noormets, McNulty, Sun, Xiao, Lin, Wang) \$600,870.
- North Carolina Division of Forestry, Department of Natural Resources and Environment, \$300,000, 2005-2008, PI, with Steve McNulty. Effects of Stream Management Zone and Best Management Practices on Water Quality in the Piedmont of North Carolina.
- National Fire Plan, 2003-2006. \$720,000 Co-PI with J. Vose and S. McNulty. Effects of Prescribed Burning on Water Quality Across the Southern U.S.
- Coupling the effects of management and climate on carbon and water fluxes in forests of Eastern U.S. and P.R.C. 08.2005-07.2006 (Chen, Noormets, Sun), USDA FS Southern Global Climate Change Program, \$165,252.
- Coupling the effects of management and climate on carbon and water fluxes in forests of Eastern U.S. and P.R.C.” 08.2004-07.2005 (Chen, Noormets, Sun) (1) USDA FS Southern Global Climate Change Program, \$251,610. (2) Ohio Board of Regents Action Fund, \$60,000. (3) The University of Toledo, \$241,075.
- Coupling the effects of management and climate on carbon and water fluxes in forests of Eastern U.S. and P.R.C.” 08.2003-05.2004. (Chen, Noormets, Sun, Mickler, Wang). USDA FS Southern Global Climate Change Program, \$225,177.
- Johnson County Soil and Water Conservation District. 2005. \$1000. PI. Developing An Outdoor Environmental Learning Center at Riverwood Elementary School.
- EPA, Jan 1-Dec 2002. \$399,365, Regional Vulnerability of Forest Resources to Current and Projected Environmental Stresses in the Southern U.S. Co-PI Robert Abt Don Clark, Brain Murray, Herman Shugart, Ge Sun. 2000-STAR-K3
- EPA, \$360,000 with B. Abt NCSU. 2001-2003. Integrated Modeling the Impacts of Climate Change on Southern Forest Resources.
- \$15,000 from USDA Forest Service International Research Program, Washington DC (Co-PI) with McNulty 2000-2002.
- National Council for Air and Stream Improvement. \$25,000, 1997-1998. Effects of Timber Management on Wetland Hydrology in the Southern United States.

Peer-Reviewed Publications:

2008

1. Zhou, G., **G. Sun**, X. Wang, C. Zhou, S.G. McNulty, J. M. Vose, and D.M. Amatya. 2008. Estimating Forest Ecosystem Evapotranspiration at Multiple Temporal Scales with a Dimension Analysis Approach. *J. American Water Resources Association* 44(1)208-221.
2. **Sun, G.**, A. Noormets, J. Chen, and S.G. McNulty. 2008. Evapotranspiration estimates from eddy covariance towers and hydrologic modeling in managed forests in Northern Wisconsin, USA. 2008. 148(2): *Agricultural and Forest Meteorology*. 148:257-267. [doi:10.1016/j.agrformet.2007.08.010](https://doi.org/10.1016/j.agrformet.2007.08.010).
3. Wei, X. **G. Sun**, S. Liu, J. Hong, G. Zhou, and L. Dai. 2008. Research on Forest and Streamflow in China: Progress and Lessons Learned. In: *J American Water Resources* (Accepted)

4. Lu, J., **G. Sun**, S.G. McNulty, and N. Comerford. 2008. Evaluation and Application of the MIKE SHE model for a Cypress-Pine Flatwoods Watershed in North Central Florida. *WETLANDS* (In revision)
5. Lu, J., **G. Sun**, S.G. McNulty, J. Vose, and D.M. Amatya. Using the hydrologic model MIKE SHE to assess disturbance impacts on watershed processes and responses across the Southeastern U.S. *Hydrologic Process* (In review).
6. Wilske, B. N. Lu. L. Wei, S. Chen, and **G. Sun**. Poplar plantation has the potential to alter water balance in semiarid Inner Mongolia. *Agricultural and Forest Meteorology* (In review).
7. Guo, H., B. Zhao, A. Norrmets J. Chen, **G. Sun**. Seasonal variation in energy fluxes and carbon dioxide exchange in different tidal zones of an estuarine wetland under plant invasion *Agricultural and Forest Meteorology* (In review).
8. Noormets, A., J. Chen, K. Davis, P. Bolstad, A. Desai, G. Sun, S. McNulty. Carbohydrate status as a gapfilling tool for ecosystem respiration as measured by eddy covariance. *Ecological Modeling*. (In review)
9. **Sun, G.** S.G. McNulty, J.A. Moore Myers, and E. C. Cohen. 2008. Impacts of Multiple Stresses on Water Demand and Supply across the Southeastern United States. *Journal of American Water Resources Association* (In revision)
10. **Sun, G.** C. Zuo, S. Liu, M. Liu, S.G. McNulty, and J.M. Vose. 2008. Evapotranspiration Increased due to Progressive Expansion of Shrub and Grass lands in a Small Humid Subtropical Watershed. *J American Water Resources* (In Revision)
11. Wang, W., Z. Zhang, **G. Sun**, S.G. McNulty. 2008. Hydrological response to climate variation in a small watershed of the Loess Plateau, North western of China. *J American Water Resources* (In Revision)
12. Zhang, Z., Z. Zhang, **G. Sun**, S.G. McNulty. 2008. Testing and evaluation of physically-based distributed hydrological model MIKE SHE in a small watershed of the Loess Plateau, Western China. *J American Water Resources* (In Revision)
13. Qi, S., **G. Sun**, Y. Wang, S.G. McNulty, and J.A. Moore Myers. 2008. Streamflow response to climate and landuse changes in a coastal North Carolina Watershed, southeastern United States. *Hydrological science Journal*. (In revision)

2007

14. McLaughlin, S.B., M. Nosal, S.D. Wullschleger, and **G. Sun**. 2007. Interactive Effects of Ozone and Climate on Southern Appalachian Forests in The USA: I Effects on stem growth and water use. *New Phytologist*. *New Phytologist* 174(1)109-124.
15. McLaughlin, S.B., S. Wullschleger, **G. Sun**. and M. Nosal. 2007. Interactive Effects of Ozone and Climate on Southern Appalachian Forests in the USA: II. Effects on Water Use, Soil Moisture Content, and Streamflow. *New Phytologist* 174(1)125-136.
16. **Sun G.**, Zhang Z., Zhou G., and Wei X. 2006 Forest watershed hydrological simulation models: concepts, use, and application problems in China. *Journal of Beijing Forestry University* 29(3):178-184. (In Chinese).
17. Pyzoha, J.E., T.J. Callahan, **G. Sun**, C.C. Trettin, and M. Miwa. 2007. A conceptual hydrologic model for a forested Carolina bay depressional wetland on the Coastal Plain of South Carolina, USA. *Hydrologic Processes* *Hydrol. Process*. DOI: 10.1002/hyp.68.
18. **Sun G.**, G. Zhou, Z. Zhang, X. Wei, S.G. McNulty, and J.M. Vose, 2007. Forest and water relations: hydrologic implications to forestation campaigns

- in China. Book Chapter 7. In W. Ji (Editor). *Wetland and Water Resource Modeling and Assessment: a Watershed Perspective*. P 71-88. CRC Press.
19. McNulty, S.G., **G. Sun**, E.C. Cohen, and J.A. Moore Myers. 2007. Change in the Southern U.S. Water Demand and Supply over the Next Forty Years. Book Chapter 5. In W. Ji (Editor) *Wetland and Water Resource Modeling and Assessment: a Watershed Perspective*. P 43-56. CRC Press.
20. Wang X., Yin G., Zhou G., **Sun G.**, Tang X., Zhang D., Yan J. 2007. Temporal and spatial distribution of photosynthetically active radiation fluxes of a coniferous and a broad-leaved mixed forests at Dinghushan mountain, southern China. *Journal of Beijing Forestry University*. 29(2):18-23. (In Chinese)
21. Wang X., Zhou G., **Sun G.**, Zhou C., C. Wang, D. Zhang. 2007. Study on outside radiation fluxes of coniferous and broad-leaved mixed forest ecosystem at Dinghushan mountain. *Journal of Zhejiang University (Agriculture and Life Science)*. 33(3):328-337. (In Chinese)

2006

22. **Sun**, G., T. J. Callahan, J.E. Pyzoza, and C.C. Trettin. 2006. Modeling the climatic and geomorphologic controls on the hydrology of a Carolina bay wetland in South Carolina, USA. *Wetlands* VOL. 26, NO. 2.
23. **Sun**, G., G. Zhou, Z. Zhang, X. Wei, S.G. McNulty, and J.M. Vose, 2006. Potential Water Yield Reduction due to Reforestation across China. *Journal of Hydrology*, 328:548-558.
24. Zhang Z., Wang S., **G. Sun**, B. Xie. 2006. Runoff and sediment yield response to vegetation change at multiple scales: A Review. *Acta Ecologica Sinica* 26(7):2356-2364.
25. Liu, C., Z. Zhang, T. Zha, **G. Sun**, J. Chen, J. Zhu, L. Shen, J. Zhang, J. Chen, L. Cui. 2006. Soil moisture statues effects on the energy allocation and diurnal evapotranspiration of a poplar plantation ecosystem a sandy soil as measured by an Eddy-Covariance method. *Acta Ecologica Sinica*: 26(8): 2549-2557 (In Chinese).
26. DeForest, J.L., A. Noormets, S.G. McNulty, **G. Sun**, G. Tenney, and J. Chen. 2006. Phenophases alter soil respiration-temperature relationship in an oak-dominated forest. *International Journal of Biometeorology* 51:135-144.
27. Wang, S., Zhang, Z, **Sun, G.** and others. Effect of land use change on hydrological dynamics at watershed scale in the Loess Plateau - A case study in the Lu'ergou watershed, Gansu province. *Journal of Beijing Forestry University*, 2006, 28(1):48-54 (In Chinese)
28. Noormets A, Ewers B, **Sun G**, Mackay S, Zheng D, McNulty S, Chen J, 2006. Water and carbon cycles in heterogeneous landscapes: an ecosystem perspective. In: *Linking Ecology to Landscape Hierarchies* (Eds. Jiquan Chen, Sari C. Saunders, Kimberly D. Brosofske, and Thomas R. Crow), Nova Publishing, Carbondale, IL, USA, pp. 89-123.
29. Zhang J., Z. Zhang, T. Zha, J. Chen, **G. Sun**, C. Liu, L. Cui, and L. Shen. 2006. Physiological characteristics of a poplar plantation on a sandy soil. *Acta Ecologica Sinica*. 26(5):1523-1532.
30. Wang X., Zhou G., **Sun G.**, Zhang D. Q., Yan J H., Zhao H. 2006 Characteristics of radiation fluxes of coniferous and broad-leaved mixed forest in lower subtropical China.. *Journal of Beijing Forestry University* (accepted In Chinese).

2005

31. Wei, X., Li, W., Liu, S., Zhou, G. and **Sun, G.** 2005. Forest changes and streamflow---Consistence and Complexity. *Journal of Natural Resources*, 20(5):761-770 (in Chinese)

32. Cui, J.B., CS Li, G. **Sun**, C Trettin. 2005. Linkage of MIKE SHE to Wetland-DNDC for carbon budgeting and anaerobic biogeochemistry simulation. *Biogeochemistry*, 72(2), 147-167.
33. **Sun**, G., S.G. McNulty, J. Lu, D.M. Amatya. Y. Liang, and R.K. Kolka. 2005. Regional Annual Water Yield from Forest lands and Its Response to Potential Deforestation across the Southeastern United States. *J. Hydrology*. 308:258-268.
34. Lu, J., G. **Sun**, D.M. Amatya, S.G. McNulty. 2005. A Comparison of Six Potential Evapotranspiration Methods for Regional Use in the Southeastern United States. *Journal of American Water Resources Association*, 41:621-633.
35. Wang X., Yin G. C., Zhou G., Yan J., **Sun G.**, Wang C., 2005. Dry season energy balance of a coniferous and broad-leaved mixed forest at Dinghushan mountain, southern China. *Journal of Tropical and Subtropical Botany*, 13(3):205-210 (in Chinese)

2004

36. **Sun**, G. 2004. Book Review. "Achieving Sustainable Freshwater Systems: A Web of Connections by M.M. Holland, E.R. Blood, and L.R. Sheffer (Editors). Island Press". *Journal of American Water Resources Association*. December, 1567-1568.
37. **Sun**, G., M. Riedel, R. Jackson, R. Kolka, D. Amatya, and J. Shepard. 2004. Book Chapter 3: Influences of management of Southern forests on water quantity and quality. In: H.M. Rauscher and K. Johnsen (Eds.) *Southern Forest Sciences: Past, Current, and Future*. Gen. Tech. Rep/ SRS-75. Asheville, NC U.S. Department of Agriculture, Forest Service, Southern Research Station. 394 p.

2003

38. Li, C., J. Cui, **G. Sun**, and C. Trettin. 2003. Modeling Impacts of Management on Carbon Sequestration and Trace Gas Emissions in Forested Wetland Ecosystems. *Environmental Management*. 3:S176-S186.
39. Jackson, CR, **G Sun**, D Amatya, WT Swank, M Riedel, J Patric, T Williams, JM Vose, K Trettin, WM Aust, S Beasley, H Williston, and G Ice. 2004. Fifty years of forest hydrology research in the southeast - Some lessons learned. In: *A Century of Forest and Wildland Watershed Lessons*, J. Stednick and G. Ice, Editors. Society of American Foresters. . pp 33-112.
40. Hanson, P.J., J.S. Amthor, S.D. Wullschleger, K.B. Wilson, R.F. Grant, A. Hartley, D. Hui, E.R. Hunt Jr., D.W. Johnson, J. Kimball, A.W. King, Y. Luo, S.G McNulty, **G. Sun**, P.E. Thornton, S. Wang, M. Williams, and R.M. Cushman. 2003. Carbon and Water Cycle Simulations for an Upland Oak Forest from 1993 to 2000 Using 13 Stand-level Models: Inter-model Comparisons and Evaluations Against Independent Measurements. *Ecological Monographs*. 74(3):443-489.
41. Lu, J., G. **Sun**, D.M. Amatya, S.G. McNulty. 2003. Modeling actual evapotranspiration from forested watersheds across the Southeastern United States. *Journal of American Water Resources Association* 39(4):887-896.

2002

42. **Sun**, G.; McNulty, S.G.; Amatya, D.M.; Skaggs, R.W.; Swift, L.W.; Shepard, J.P.; Riekerk, H. 2002. A comparison of the hydrology of the coastal forested wetlands/pine flatwoods and the mountainous uplands in the southern US. *J. of Hydrology*. 263:92-104
43. Zhang, Y., C. Li, Carl C. Trettin, H.Li, and **G.Sun**. 2002. An integrated model of soil, hydrology and vegetation for carbon dynamics in wetland ecosystems. *Global Biogeochemical Cycles* 16(4):1061.

44. **Sun, G.**, S.G. McNulty, J.P. Shepard, D.M. Amatya, H. Riekerk, N.B. Comerford, R.W. Skaggs, and L. Swift, Jr. 2001. Effects of timber management on wetland hydrology in the southern United States. *Forest Ecology and Management*, (143):227-236

2001

45. Niu, Z., M. Xie, **G. Sun**, and S.G. McNulty. 2001. Applying ANSWERS2000 to simulate soil erosion processes on two watersheds of Three Georges Area. *China Journal of Soil and Water Conservation*. 15(3): 56-60. (In Chinese with English Abstract)
46. Niu, Z., M. Xie, **G. Sun**, and S.G. McNulty. 2001. NPS model application soil erosion simulation. *J. Beijing Forestry Univ.*23(2):78-83. (In Chinese with English Abstract)

Prior to 2001

47. Mansell, R.S., S.A. Bloom, and **G. Sun**. 2000. A model for wetland hydrology: description and validation. *Soil Science*. 165(5):384-397.
48. **Sun, G.**, D.M. Amatya, S.G. McNulty, R.W. Skaggs, and J.H. Hughes. 2000. Climate change impacts on the hydrology and productivity of a pine plantation. *Journal of American Water Resources Association*. 36(2):367-374.
49. **Sun, G.**, H. Riekerk, L.V. Kornak. 2000. Groundwater table rise after forest harvesting on cypress-pine flatwoods in Florida. *Wetlands* 20(1):101-112.
50. McNulty, S.G., J.A. Moore, L. Iverson, A. Prasad, R. Abt, B.C. Smith, **G. Sun**, M. Gavazzi, J.G. Bartlett, B. Murray, R.A. Mickler, and J.D. Aber. 2000. Application of linked regional scale growth, biogeography, and economic models for southeastern United States pine forests. *World Resource Review* 12 (2): 298 - 320.
51. **Sun, G.**, H. Riekerk, and N.B. Comerford. 1998. Modeling the forest hydrology of wetland-upland ecosystems in Florida. *Journal of American Water Resources Association*. 34:827-841.
52. **Sun, G.**, H. Riekerk, and N.B. Comerford. 1998. Modeling the hydrologic impacts of forest harvesting on flatwoods. *Journal of American Water Resources Association*. 34:843-854.
53. **Sun, G.**, H. Riekerk, N.B. Comerford. 1996. FLATWOODS - A distributed hydrologic simulation model for Florida pine flatwoods. *Proceedings of Soil and Crop Science Society of Florida*. 55:1-12.
54. **Sun, G.**, H. Riekerk, and L.V. Kornak. 1995. Shallow groundwater table dynamics of wetland/upland systems in Florida flatwoods. *Proceedings of Soil and Crop Science Society of Florida*. Vol 54. PP 66-71.
55. **Sun, G.**, 1990. Effects of forest management on water quality and sedimentation-a review. *China Soil and Water Conservation*. 10:20-24.
56. **Sun, G.** 1989. Surface flow characteristics of plantation forests. *China Soil and Water Conservation Bull.* 8:23-26.
57. **Sun, G.** 1989. Measurements of subsurface water flux in a forested hillslope. *China Soil and Water Conservation Bull.* 9:12-15.
58. **Sun, G.** and Z. Zhang. 1989. Hydrologic characteristics of two small Chinese fir forest watersheds in Southern China. *Journal of Beijing Forestry University*. 3:25-31.
59. **Sun, G.** 1988. Influences of forests on water yield: a review. *Natural Resources*. 2:18-20.

Proceeding Publications:

1. DeForest, J.L., S.G. McNulty, **G. Sun**, J. Chen. Phenology and its influence on soil and litter respiration. ESA 2006 (Abstract).
2. Cao W. , **G. Sun**, S.G. McNulty, J. Chen, A. Noormets, R.W. Skaggs, and D.M. Amatya. 2006. Evapotranspiration of a mid-rotation loblolly pine plantation and A Recently harvested Stands on the coastal plain of North Carolina, U.S.A. In Proceedings of the International Conference on Hydrology and Management of Forested Wetlands. April 8-12, 2006. New Bern, NC.pp 27-33.
3. Lu, J., **G. Sun**, S.M. Amatya, S.V. Harder, and S.G. McNulty. 2006. Understanding the Hydrologic Response of a Coastal Plain Watershed to Forest Management and Climate Change in South Carolina, USA. In Proceedings of the International Conference on Hydrology and Management of Forested Wetlands. April 8-12, 2006. New Bern, NC. pp 231-239.
4. **Sun, G.**, C. Li, C. Trettin, J. Lu, and S.G. McNulty. 2006. Simulating the Biogeochemical Cycles in Cypress Wetland-Pine Upland Ecosystems at a Landscape Scale with the Wetland-DNDC Model. In Proceedings of the International Conference on Hydrology and Management of Forested Wetlands. April 8-12, 2006. New Bern, NC. pp 261-270.
5. Amatya, D.M., **G. Sun**, R.W. Skaggs, G.M. Chescheir, and J.E. Nettles. 2006. Hydrologic Effects of Global Climate Change on a Large Drained Pine Forest. In Proceedings of the International Conference on Hydrology and Management of Forested Wetlands. April 8-12, 2006. New Bern, NC. pp 383-394.
6. DeForest, J.L., **G. Sun**, A. Noormets, J. Chen, S.G. McNulty, M. Gavazzi, D.M. Amatya, and R.W. Skaggs. 2006. Carbon and Water Fluxes in a Drained Coastal Clearcut and a Pine Plantation in Eastern North Carolina. In Proceedings of the International Conference on Hydrology and Management of Forested Wetlands. April 8-12, 2006. New Bern, NC. pp 586-597.

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7. **Sun, G.**, McNulty, S.G., Cohen, E., Moore-Myers, J., Wear, D. 2005. Modeling the impacts of climate change, landuse change, and human population dynamics on water availability and demands in the Southeastern U.S. ASAE Paper No. 052219. St. Joseph, Mich.: ASAE.
8. **Sun, G.**; Amatya, D.M.; Trettin, C.C.; Callahan, T.J. 2005. Hydrology of the lower coastal plain watersheds: Implications to forest best management practices (BMP's) In: Society of Wetlands Scientists 26th annual meeting: Final programs and abstracts. 26th annual meeting of the Society of Wetlands Scientists. Charleston , SC : Society of Wetlands Scientists: 119 [Abstract].
9. Wang, G., X. Liu, B. Wo, **G. Sun** et al. 2005. Effects of Soil and Water Conservation Measures: Overseas Experiences. A Report in Chinese. Published by International Training Center for Erosion and Sedimentation and Qinghua University. 55 p.
10. Lu, J., **G. Sun**, S.G. McNulty, and J. M. Vose. Evaluation of the MIKE SHE model performance for small watersheds in the southeastern United States. In: The 3rd North American DHI Software User Conference. St. Pete's Beach, FL. May 15-18, 2005. P18. (Abstract)

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11. Amatya, Devendra M.; Trettin, Carl C.; Skaggs, R. Wayne; Callahan, Timothy J.; Burke, Marianne K.; **Sun, Ge**; Miwa, Masato; Parsons, John E. 2004. An Overview of Hydrologic Studies at Center for Forested Wetlands Research, USDA Forest Service. Written for presentation at the 2004 ASAE/CSAE Annual International Meeting Sponsored by ASAE/CSAE Fairmont Chateau Laurier, The Westin, Government Centre Ottawa, Ontario, Canada 1-4 August 2004. An ASAE/CSAE Meeting Presentation Paper Number: 042132.

12. **Sun, G.**; Callahan, T.J.; Pyzoha, J.E.; Trettin, C.C. and Amatya, D.M. 2004. Modeling the hydrologic process of a depressional forested wetland in South Carolina, USA. CD-ROM: ISBN 0-937099-Oxford, MS: National Center for Computational Hydro-Science and Engineering, The University of Mississippi. 331-332 p.

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13. Liu, X, **G. Sun**, M. Miagostovich, Y. Chen, and G. Wang. 2003. Soil and water conservation result, approach, benefits and present problems in China. 2003. In proceedings of the 9th International Symposium on River Sedimentation, Yichang, China.
14. **Sun, G.**, J.E. Pyzoha, T.J. Callahan, and C.C. Trettin. 2003. The Role of Simulation Models in Understanding the Hydrologic Processes of Depressional Wetlands in the Southeastern US. p186. (Abstract).
15. Qi, S., G Sun, S.G. McNulty and J. Moore. 2003. Modeling the Effects of Land Use and Climate Change on Water Yield in a Costal Watershed of North Carolina. ESA/ISEM Annual Conference. Savannah, GA. August 3-8 (Abstract). P 274.
16. Hanson, P.J., J.S. Amthor, S.D. Wullschleger, K.B. Wilson, R.F. Grant, A. Hartley, D. Hui, E.R. Hunt Jr., D.W. Johnson, J. Kimball, A.W. King, Y. Luo, S.G McNulty, G. Sun, P.E. Thornton, S. Wang, M. Williams, and R.M. Cushman. 2003. Carbon and Water Cycle Simulations for an Upland Oak Forest from 1993 to 2000 Using 13 Stand-level Models: Intermode Comparisons and Evaluations Against Independent Measurements (Abstract). P139.
17. Amatya, D.M., G. Sun, R.W. Skaggs, and C.C. Trettin. 2003. Testing of DRAINMOD based Models for Forested Watersheds with Non-pattern Drainage. ASAE annual International Conference, July 27-30, 2003— Las Vegas, NV.
18. Callahan, T.J., D. M. Amayta, G. Sun, and C.C. Trettin. 2003. The Role of groundwater on the hydrology of forested wetlands: a multipl-site comparison, US Atlantic Coastal Plain. Annual GSA Meeting and Exposition, Seattle, Washington. Nov 2-5, 2003 (Abstract).

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19. Sun, G. S. McNulty, J. Moore, C. Bunch, and J. Ni. 2002. Impacts of climate change on water availability and rainfall erosivity in China during the next 100 years. Proceedings of the 12th International Soil Conservation Organization. Beijing, China. Pp 244-250.
20. Sun, G., S.G. McNulty, D.M. Amatya, Y. Liang, J. Lu, and R. Kolka. 2002. Modeling climatic and forest management effects on annual water yield across the Southern US. In: Proceedings of the 2nd Federal Interagency Hydrologic Modeling Conference. July 28 –August 1, 2002. Las Vegas, USA.
21. Yang, A., H. Wang, K. Tang, and G. Sun. 2002. Soil erosion characteristics and control measures in China. In: Proceedings of the 12th International Soil Conservation Organization. Beijing, China. May 26-31, 2002. Pp 463-469.
22. Lu, J.; Sun, G.; Amatya, D. M.; McNulty, S. G. 2002. Modeling regional evapotranspiration for forested watersheds across the southern United States. In: Setting the agenda for water resources research, Abstracts of presentation and posters at the annual North Carolina Water Resources Research Conference, 2002 April 9; Raleigh, NC. (Abstract)
23. Lu, J.; Sun, G.; McNulty, S. G.; Amatya, D. M. 2002. Modeling regional evapotranspiration for forested watersheds across the southern United States. In: American Water Resources Association's 2002 Annual Water Resources Conference, 2002 November 2-7; Philadelphia, PA (Abstract)
24. Mao, Z., G. Sun, S. G. McNulty, and M. Gavazzi. 2002. Mapping foliar nitrogen concentration for spatially explicit parameterization of PnET-II ecosystem model

for the Southern US. ESA 2002 Annual Conference. Aug 3-Aug 9, Tucson, AZ. (Abstract)

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25. Sun, G., S.G. McNulty, R. Mickler, and J. Moore. Hydrologic responses to forest management and climate change in the Southern US. In: Proceedings of the Southern Forest Science Conference. Atlanta, GA. Nov 26-28, 2001. (Abstract)
26. Sun, G., S.G. McNulty, R. Mickler, and J. Moore. Hydrologic responses to forest management and climate change in the Southern US. In: Proceedings of the Southern Forest Science Conference. Atlanta, GA. Nov 26-28, 2001. (Abstract)
27. Niu, Z., G. Sun, S.G. McNulty, M. Xie, and W. Byne. 2001. Applying ANSWERS-2000 to simulate BMPs effects on sediment and runoff from two watersheds in the Three Gorges Area, Southern China. In: J. C. Ascough II and D. C. Flanagan (Eds.) Proceedings of the International Symposium on Soil Erosion Research for the 21st Century. ASAE, St. Joseph, MI. pp 653-656.
28. Sun, G., R. Mickler, T. Earnhardt, and J. Moore. 2000. Characterizing the Hydrology of the Three Topographic Regions in North Carolina Using Remotely Sensed Data. 2000. In ASPRS 2000 Proceedings. Washington, D.C., May 22-26, 2000 (Abstract).
29. Earnhardt, T., H. Cheshire, G. Sun, R. Mickler. 2000. Use of Satellite Derived Land Cover and GIS Data Layers in A Watershed Hydrologic Simulation in North Carolina Coastal Plain. In: ASPRS 2000 Proceedings. Washington, D.C., May 22-26, 2000 (Abstract).
30. Earnhardt, T., H. Cheshire, G. Sun, R. Mickler. 2000, S.G. McNulty, J. Moore. and S.G. McNulty. 2000. Scaling Forest Primary Productivity Model Outputs Using Satellite Derived Land Cover Data. In: ASPRS 2000 Proceedings. Washington, D.C., May 22-26, 2000 (Abstract).
31. Sun, G., J. Lu, D. Gartner, M. Miwa, and C. Trettin. 2000. Water budgets of two forested watersheds in south Carolina. In: Proceedings of AWRA Annual Water Resources Conference. Water Quantity and Quality Issues in the Coastal Urban Areas. R. W. Higgins (Ed.). Miami, Florida, Nov 6-9, 2000. pp 199-202.
32. Sun, G., S.G. McNulty, L.W. Swift, Jr. and J. Boggs. 1999. Risk assessment of sediment contribution to streams due to forest management using a GIS-based simulation model. Presented at the 1999 ASAE annual international of meeting, Paper No.995050. ASAE, 2950 Niles Rd., St. Joseph, MI 49085-9659 USA.
33. Sun, G., S.G. McNulty, D.M. Amatya, R.W. Skaggs, L.W. Swift, Jr. J.P. Shepard , H. Riekerk, and N.B. Comerford. 1999. A comparison of the hydrology of the coastal forested wetlands/pine flatwoods and the mountainous uplands in the Southern US. Paper No. 992269. Presented at the 1999 ASAE annual international of meeting, ASAE, 2950 Niles Rd., St. Joseph, MI 49085-9659 USA.
34. Sun, G., H. Riekerk, L. A. Arvanitis and V. Valavanis. 1998. Intelligent GIS for studying the environmental effects of forest harvesting . Geo Info Systems 8(4):32-36
35. McNulty, S.G. and G. Sun. 1998. The development and use of Best Management Practices in forested watersheds. In Proceedings of the International Symposium on Comprehensive Watershed Management. International Research and Training Center on Erosion and Sedimentation, Sep 7-10, 1998, Beijing,China.
36. Sun, G., S. G. McNulty, L.G. Arvanitis, and V. D. Valavanis. 1997. The use of GIS as a tool for forest hydrology research. In Proceedings of the First Biennial North American Forest Ecology Workshop. June 24-26, 1997, Raleigh, NC.
37. Sun, G. and S.G. McNulty. 1997. Modeling non-point source pollution using GIS-based technologies. In: Sustainable Development in Mountainous Regions. The third Symposium organized by Chinese Young Scientists for Soil Water Conservation. P. 77-86.

38. Valavanis, V.D., L.G. Arvanitis and G. Sun. 1997. Development of a natural resource information system using GIS and internet technology. *GeolInfo Systems*. Mar 1997 P22-24.
39. Valavanis, V.D., L.G. Arvanitis and G. Sun. 1996. A GIS user interface to multidisciplinary research data. *Proceedings of the Southern Forestry GIS Conference*. *Proceedings of the Southern Forestry GIS Conference, Athens, GA*. P. 221-227.
40. Sun, G., H. Riekerk, L. A. Arvanitis, and V. Valavanis. 1996. Integrating GIS and a hydrological model. In: *Proceedings of the Southern Forestry GIS Conference, SoFor GIS'96, Dec. 11-13, 1996. Athens, GA*. Pp 399-406. The work was based on Sun's postdoctoral research. Sun contributed 95% of the writing.
41. Sun, G., H. Riekerk, and L.V. Korhnak. 1995. The hydrology of cypress wetland-upland ecosystems in Florida flatwoods. In K. Campbell (Ed.) 'Versatility of Wetlands in the Agricultural Landscape', Univ. of Florida, Am. Assoc. Agric. Engin. P. 489-500.

List of Eligible Voting Members

Anping Chen	Jiangjun Huang	Wei Fang
Ben Gu	Jianguo Huang	Wei Wu
Biao Zhu	Jianguo Wu	Weimin Xi
Changhui Peng	Jianwu Tang	Weixin Cheng
Chao Liang	Jiquan Chen	Weixing Zhu
Charlie (Changzhi) Huang	Junda Lin	Wengyun Zuo
Chengyuan Xu	Larry Li	Wenwen Wang
Chris Zou	Lianhong Gu	Xianzhong Wang
Chunfang Li	Lijun Xia	Xiaohua Wei
Dan Wang	Lixin Wang	Xiuhui Zhou
Ensheng Weng	Lixing Wang	Xiyuan Wu
Frank Chang	Meiying Wu	Xu Bin Pan
Frank Fang Gao	Name	Xuexia Chen
Ge Sun	Nan Lu	Yaoyang Yan
Guangyu Wang	Pu Mou	Yegang Wu
Guodong Liu	Qinqin Liu	Yiqi Luo
Hong Liu	Qingfeng Guo	Yuncong Li
Hong Qian	Rui Zhang	Xiaochun Zhang
Hongjun Chen	Shili Miao	ZhiChao Pu
Hua Chen	Shiping Chen	Zhiping Wang
Huifeng Hu	Songlin Fei	Zhong Chen

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EDUCATION

8/1999-5/2003	University of California, Berkeley	Ph.D. in Ecosystem Sci.
9/1992-7/1995	Peking University, China	M.S. in Environ. Sci.
9/1988-7/1992	Peking University, China	B.S. in Geology

PROFESSIONAL EXPERIENCE

1/2008-	Assistant scientist at the Ecosystems Center, MBL (Marine Biological Laboratory)
1/2008-	Assistant professor at Brown University
10/2006-12/2007	Research scientist at Chicago Botanic Garden
10/2006-12/2007	Adjunct assistant professor at Northwestern University
5/2004-10/2006	Research associate, Dept. of Forest Resources, University of Minnesota
6/2003-4/2004	Postdoctoral researcher, Dept. of Environmental Science, Policy and Management, University of California at Berkeley
7/1999-5/2003	Graduate student researcher, Dept. of Environmental Science, Policy and Management, University of California at Berkeley
7/1995-6/1999	Assistant professor and lecturer, Center for Environmental Sciences at Peking University, China
1995-1999	National Consultant for the World Bank, UNDP and UNIDO, Project: Phaseout of Ozone Depleting Substances in China
1996-1997	Domestic Consultant for the Asia Development Bank, Project: Pilot Environmental Plans for Selected Medium-sized Cities in China

TEACHING EXPERIENCE

9/2007-12/2007	Ecosystem Ecology (PBC 405), Northwestern University
3/2007-5/2007	Soil Ecology (PBC 440), Northwestern University (co-instructor)
1/2006-5/2006	Biosphere-Atmosphere Interactions (FR 5480), University of Minnesota
7/1995-6/1999	Environmental Planning and Management, Peking University, China.

PUBLICATIONS

In peer-reviewed journals

- [17] **Tang, J.**, P.V. Bolstad, A.R. Desai, J.G. Martin, B.D. Cook, K.J. Davis, E.V. Carey, 2008. Ecosystem respiration and its components in an old-growth forest in the Great Lakes region of the United States. *Agricultural and Forest Meteorology*, 148: 171-185.
- [16] Ewers, B.E., D.S. Mackay, **J. Tang**, P. Bolstad, S. Samanta, 2008. Intercomparison of sugar maple stand transpiration responses to environmental conditions from the western Great Lakes Region of the United States. *Agricultural and Forest Meteorology*, 148: 231-246.
- [15] Desai, A.R., A.N. Noormets, P.V. Bolstad, J. Chen, B.D. Cook, P.V. Curtis, K.J. Davis, E.S. Euskirchen, C. Gough, J.M. Martin, D.M. Ricciuto, H.P. Schmid, H. Su, **J. Tang**, C. Vogel, W. Wang, 2008. Influence of vegetation type, stand age and climate on carbon dioxide fluxes across the Upper Midwest, USA: Implications for regional scaling of carbon flux. *Agricultural and Forest Meteorology*, 148: 288-308.
- [14] Luysaert S., I. Inglima, M. Jung, A.D. Richardson, M. Reichstein, D. Papale, S.L. Piao, E.D. Schulze, L. Wingate, G. Matteucci, L. Aragao, M. Aubinet, C. Beer, C. Bernhofer, K.G. Black, D. Bonal, J.M. Bonnefond, J. Chambers, P. Ciais, B. Cook, K.J. Davis, A.J. Dolman, B. Gielen, M. Goulden, J. Grace, A. Granier, A. Grelle, T. Griffis, T. Grunwald, G. Guidolotti, P.J. Hanson, R. Harding, D.Y. Hollinger, L.R. Hutya, P. Kolari, B. Kruijt, W. Kutsch, F. Lagergren, T. Laurila, B. E. Law, G. Le Maire, A. Lindroth, D. Loustau, Y. Malhi, J. Mateus, M. Migliavacca, L. Misson, L. Montagnani, J. Moncrieff, E. Moors, J.W. Munger, E. Nikinmaa, S. V. Ollinger, G. Pita, C. Rebmann, O. Roupsard, N. Saigusa, M. J. Sanz, G. Seufert, C. Sierra, M.-L. Smith, **J. Tang**, R. Valentini, T. Vesala, and I. A. Janssens, 2007. CO₂ balance of boreal, temperate, and tropical forests derived from a global database. *Global Change Biology*, 13, 2509-2537.
- [13] **Tang, J.**, P.V. Bolstad, B.E. Ewers, A.R. Desai, K.J. Davis, E.V. Carey, 2006. Sap-flux- upscaled canopy transpiration, stomatal conductance and water use efficiency in an old-growth forest in the Great Lakes region of United States. *Journal of Geophysical Research-Biogeosciences*, 111, G02009, doi:10.1029/2005JG000083.
- [12] Baldocchi, D.D., **J. Tang**, L. Xu, 2006. How lags, pulses and switches in biophysical regulators affect spatio-temporal variation of soil respiration in an oak-grass savanna, *Journal of Geophysical Research – Biogeosciences*, 111, G02008, doi:10.1029/2005JG000063.
- [11] Misson, L., A. Gershenson, **J. Tang**, R. Boniello, M. McKay, W. Cheng, A. Goldstein, 2006. Influence of canopy photosynthesis and rain pulses on root dynamics and soil respiration in a young ponderosa pine forest. *Tree Physiology*, 26, 833-844.
- [10] **Tang, J.**, D.D. Baldocchi, L. Xu, 2005. Tree photosynthesis modulates soil respiration on a diurnal time scale. *Global Change Biology*, 11, 1298-1304.
- [9] **Tang, J.**, L. Misson, A. Gershenson, W. Cheng, A. Goldstein, 2005. Continuous measurements of soil respiration with and without roots in a ponderosa pine

- plantation in the Sierra Nevada Mountains. *Agricultural and Forest Meteorology*, 132, 212-227.
- [8] **Tang, J.**, D.D. Baldocchi, 2005. Spatial-temporal variation of soil respiration in an oak-grass savanna ecosystem in California and its partitioning into autotrophic and heterotrophic components. *Biogeochemistry*, 73, 183-207.
- [7] **Tang, J.**, Y. Qi, M. Xu, L. Misson, A. Goldstein, 2005. Forest thinning and soil respiration in a ponderosa pine plantation in the Sierra Nevada. *Tree Physiology*, 25, 57-66.
- [6] Misson, L., **J. Tang**, M. Xu, M. McKay, A. Goldstein, 2005. Influences of recovery from clear-cut, climate variability, and thinning on the carbon and energy balance of a young ponderosa pine plantation. *Agricultural and Forest Meteorology*, 130, 207-222.
- [5] Xu, L., D.D. Baldocchi, **J. Tang**, 2004. How soil moisture, rain pulses and growth alter the response of ecosystem respiration to temperature. *Global Biogeochemical Cycles*, 18, GB4002, doi:10.1029/2004GB002281.
- [4] **Tang, J.**, D.D. Baldocchi, Y. Qi, L. Xu, 2003. Assessing soil CO₂ efflux using continuous measurements of CO₂ within the soil profile with small solid-state sensors. *Agricultural and Forest Meteorology*, 118, 207-220.
- [3] **Tang, J.**, W. Ye, 1998. Studies on environmental carrying capacity and its quantification, *Chinese Environmental Science*, 227-230, Vol.18, No.3. (in Chinese)
- [2] **Tang, J.**, W. Ye, H. Guo, 1997. Environmental carrying capacity and its application on environmental planning, *Chinese Environmental Science*, 6-9, Vol.17, No.1. (in Chinese)
- [1] Guo, H., **J. Tang**, 1995. A strategy for sustainable development for urban water environment and socio-economy, *Acta Scientiae Circumstantiae*, 363-369, Vol.15, No.3. (in Chinese)

Book chapters

- [7] **Tang, J.** 2008. Ecosystem photosynthesis and respiration: Key processes in global carbon cycles, in: *Modern Ecological Lectures (IV)* (Wu et al. Eds), China Higher Education Press, Beijing (in press, in Chinese)
- [6] **Tang, J.**, 2001. Theories in environmental planning, Chapter 2 in: *Environmental Planning* (Guo H. et al Eds.), China Higher Education Press. Beijing. 301 p. (in Chinese)
- [5] **Tang, J.**, 2000. Economics in environmental management, Chapter 13 in: *Environmental Protection and Sustainable Development* (Qian, Y. and X. Tang Eds.), China Higher Education Press, Beijing. 369p. (in Chinese)
- [4] Qi, Y., **J. Tang**, M. Xu, 2000. Modeling the biosphere in climate change studies: respiration and decomposition, in: *Modern Ecological Lectures (II)*, China Science Press. (in Chinese)
- [3] **Tang, J.**, 1996. Discussion on price of air resource, In: *China's Environmental Economics: From Theory to Practice*, 68-70, Chinese Agricultural Technology Publication. (in Chinese)
- [2] **Tang, J.**, 1995. Measurement of sustainable development, In: *Resource, Environment and Strategy of Sustainable Development*, 603-606, China Envi. Sci. Publication. (in Chinese)

- [1] **Tang, J.**, 1993. From environmental impact assessment to the value of environmental quality, In: *Walking Toward 21st Century*, 86-90, China Envi. Sci. Publication. (in Chinese)

CONFERENCE PRESENTATIONS and PROCEEDINGS

- [27] **Tang, J.**, Invited speech for the Workshop on Automated Soil Respiration Measurements, Durham, NH, Sep. 10-12, 2007.
- [26] **Tang, J. et al.**, **Ecological Society of America** annual meeting in San Jose, CA, August 5-10, 2007.
- [25] **Tang, J. et al.**, **2007 EcoSummit** meeting, Beijing, China, May 22-27, 2007.
- [24] **Tang, J. et al.**, Soils and Restoration Ecology Conference at **DePaul University**, Chicago, IL, Dec. 18-20, 2006.
- [23] **Tang, J. et al.**, Invited speech for the American Geophysical Union (**AGU**) **Fall Meeting** in San Francisco, CA, Dec. 11-15, 2006.
- [22] **Tang, J.**, Chequamegon Ecosystem-Atmosphere Study (**ChEAS**) **2006 Meeting** in Woodruff, WI, June 6, 2006.
- [21] **Tang, J. et al.**, 1st Integrated Land Ecosystem-Atmosphere Processes (**iLEAPS**) **Science Conference**, Boulder, CO, Jan. 21-26, 2006.
- [20] **Tang, J.**, Workshop on Soil Carbon Dynamics in Northern U.S. Forests, sponsored by **U.S. Forest Service** Northern Global Change Research Program. Minneapolis, MN, Jan. 17-18, 2006.
- [19] **Tang, J. et al.**, American Geophysical Union (**AGU**) **Fall Meeting** in San Francisco, CA, Dec. 5-9, 2005.
- [18] **Tang, J. et al.**, Seventh **International Carbon Dioxide Conference**, Boulder, CO, September 25-30, 2005.
- [17] **Tang, J.**, Chequamegon Ecosystem-Atmosphere Study (**ChEAS**) **2005 Meeting** in Woodruff, WI, June 1, 2005.
- [16] Liang, N., T. Hirano, **J. Tang**, J. Irvine, A. Black. **Global FLUXNET 2004 Workshop** in Firenze, Italy, Dec. 14, 2004.
- [15] **Tang, J. et al.** American Geophysical Union (**AGU**) **Fall Meeting** in San Francisco, CA, Dec. 2004.
- [14] **Tang, J. et al.** **AmeriFlux Annual Meeting** at Boulder, Colorado, Oct. 2004.
- [13] Misson L., A. Gershenson, **J. Tang**, M. McKay, W. Cheng, A. Goldstein. **AmeriFlux Annual Meeting** at Boulder, Colorado, Oct. 2004.
- [12] Baldocchi, D.D., **J. Tang**, L. Xu, **American Meteorological Society 26th Conference** in Vancouver, BC, Canada, August 24, 2004.
- [11] **Tang, J. et al.** American Geophysical Union (**AGU**) **Fall Meeting** in San Francisco, CA, Dec. 12, 2003.
- [10] **Tang, J. et al.** **AmeriFlux Annual Meeting and NIGEC Soils Workshop** at Boulder, Colorado, Oct. 13-16, 2003.
- [9] **Tang, J. et al.**, Kearney Foundation of Soil Science, **Soil Carbon Sequestration Workshop: The Interface Between Science and Policy**, University of California, Davis, September 22-23, 2003.
- [8] **Tang, J. et al.**, **Soil Carbon Sequestration Workshop: The Interface Between Science and Policy**, University of California, Davis, September 22-23, 2003.
- [7] **Tang, J.**, et al. 88th **Ecological Society of America Annual Meeting** in Savannah, Georgia, August 3-8, 2003.

- [6] **Tang, J.**, Annual **Blodgett Symposium** in the Blodgett Forest Station, California, February 2003.
- [5] **Tang, J.** et al. 2002 **CPGIS** (the Association of Chinese Professionals in Geographic Information Systems) **Annual Conference** in Nanjing, June 1, 2002.
- [4] **Tang, J. et al.** Annual **Blodgett Symposium** in the Blodgett Forest Station, California on January 25, 2002.
- [3] **Tang, J. et al.** American Geophysical Union (**AGU**) **2001 Fall Meeting** in San Francisco, CA, Dec. 2001.
- [2] **Tang, J. et al.** 16th Annual Symposium of the US Regional Chapter of the **International Association of Landscape Ecology** at Arizona State University, April 25-29, 2001.
- [1] **Tang, J. et al.** **ESRI User Conference** in San Diego in 2000.

INVITED SEMINARS

- [20] **Tang, J.**, Environmental Change Initiative, **Brown University**, Feb. 13, 2008
- [19] **Tang, J.**, **National Dong Hwa University**, Taiwan, Sep. 5, 2007.
- [18] **Tang, J.**, **Ecosystems Center** at the Marine Biological Laboratory, Woods Hole, MA, July 19, 2007.
- [17] **Tang, J.**, 4th International Symposium for Modern Ecology, **Inner Mongolia University**, China, May 29 – June 3, 2007.
- [16] **Tang, J.**, **Chinese Agricultural University**, Beijing, June 1, 2007.
- [15] **Tang, J.**, 4th USCCC (United States China Carbon Consortium) annual workshop, Beijing, China, May 28, 2007.
- [14] **Tang, J.**, Institute of Remote Sensing Applications, **Chinese Academy of Sciences**, Beijing, May 22, 2007
- [13] **Tang, J.**, Departmental Seminar for Department of Environmental Sciences, **University of Toledo**, OH, March 30, 2007.
- [12] **Tang, J.**, **Chicago Botanic Garden**, Chicago, IL, May 31, 2006.
- [11] **Tang, J.**, Institute of Ecology and Evolutionary Biology, **National Taiwan University**, Taiwan, May 26, 2006.
- [10] **Tang, J.**, Department of Geography, **University of Idaho**, March 21, 2006.
- [9] **Tang, J.**, Department of Biological Sciences, **University of Illinois** at Chicago, March 7, 2006.
- [8] **Tang, J.**, Dept. of Soil, Water, and Climate at **University of Minnesota**, Feb. 13, 2006.
- [7] **Tang, J.**, **USGS EROS Data Center**, Sioux Falls, SD, Jan.14, 2005.
- [6] **Tang, J.**, **University of Minnesota**, Nov. 9, 2004.
- [5] **Tang, J.**, Center for Assessment and Monitoring of Forests and Environmental Resources, **UC Berkeley**. April 16, 2004.
- [4] **Tang, J.**, Steven Wofsy's group at **Harvard University**, Dec. 4, 2003.
- [3] **Tang, J.**, Dept. of Environmental Science, Policy and Management, **UC Berkeley**, Dec. 1, 2003.
- [2] **Tang, J.**, ESPM Ph.D. symposium at **UC Berkeley**, April 24, 2003.
- [1] **Tang, J.**, Berkeley China Review at **UC Berkeley**, April 11, 2003.

MANUSCRIPT AND PROPOSAL REVIEWS

- 2008 Manuscript reviewer for *New Phytologist*, *Plant and Soil*, *Journal of Integrative Plant Biology*
- 2007 Manuscript reviewer for *Functional Ecology*, *Geophysical Research Letters*, *Agricultural and Forest Meteorology* (2), *Tree Physiology*, *Global Change Biology* (5), *Journal of Geophysical Research – Biogeosciences*, *Pedosphere*
- 2007 Proposal Reviewer for National Science Foundation (NSF) (2), Partnerships for International Research and Education Program, and Ecosystem Studies Program
- 2006 Manuscript reviewer for *Global Change Biology* (3), *Agricultural and Forest Meteorology* (2), *Tellus B*, *Journal of Geophysical Research – Biogeosciences*, *Tree Physiology*, *Forest Ecology and Management*, *Plant Ecology*, *Hydrological Sciences Journal*, *Journal of Zhejiang University Science* (2)
- 2006 Proposal Reviewer for National Science Foundation/Ecosystem Studies Program
- 2005 Manuscript reviewer for *Physiologia Plantarum*, *Journal of Geophysical Research – Atmospheres*, *Journal of Biosciences*, *Agricultural and Forest Meteorology*
- 2004 Manuscript reviewer for *Journal of Zhejiang University Science*
- 2003 Manuscript reviewer for *Agricultural and Forest Meteorology*, *Tree Physiology*
- 2003 Proposal reviewer for DOE/National Institute for Global Environmental Change
- 2001 Manuscript reviewer for *Chinese Science Bulletin*

SYNERGISTIC ACTIVITIES

- 2007 Presider, Climate Change: Effects on ecosystem function and biogeochemistry, for the Ecological Society of America (ESA) meeting, August 6-10, 2007.
- 2007 Convener, Recent Advances in Soil Ecology and Soil Carbon Dynamics, for EcoSummit 2007, May 22-27, 2007
- 2006 Convener, Cross-scale studies on carbon cycles: from biometric measurements, eddy covariance, to remote sensing, for West Pacific Geophysical Meeting, Beijing, China. July 24-27, 2006

PROFESSIONAL MEMBERSHIPS

Ecological Society of America (ESA)

American Geophysical Union (AGU)

Sino-Ecologists Association Overseas (Sino-Eco)

International Association of Chinese Professionals in Geographic Information Science (CPGIS)

Sino Eco History in Brief

Missions

SINO-ECOLOGISTS ASSOCIATION OVERSEAS' (SINO-ECO) missions, as stated in its bylaws, are

- (1) To promote the exchange of ideas, knowledge, and scientific development in Ecology and related sciences among Chinese ecologists overseas as well as between ecologists overseas and those in China.
- (2) To provide an efficient channel between Chinese and overseas ecologists, through which mutual understanding and cooperation can be enhanced.

History

The idea of having a SINO-ecological organization can be traced back to as early as 1986 at the joint meeting of ESA and the International Congress of Ecology (INTECOL) at Syracuse. During the 1988 annual meeting of the Ecological Society of America, at the University of California, Davis, over 20 overseas students conceived the idea of forming an overseas Chinese ecological organization. After the meeting, Jianguo Wu, Xinyuan Wu, and Yegang Wu (the “Triple Wu”) worked diligently and passionately to establish the organization, and came up with the name, Sino-Ecologists Club Overseas (SINO-ECO for short).

The Triple Wu also served as first editors-in-chief and published the first few issues of the SINO-ECO Newsletter. The first newsletter was published in November 1988, and listed the names of the 35 members. Within three years, the number of registered members exceeded one hundred. The Newsletter was assigned an ISSN number in 2007.

The association members elected the first president in November 1989. In January 1990, the association passed its bylaws, and soon after that the Association was officially registered as a non-profit organization. It passed a by-law amendment to change its name to Sino-Ecologists Association Overseas in 2005. Currently, SINO-ECO is a non-profit academic organization registered in the State of Delaware, USA.

The following members served SINO-ECO as presidents in chronological order: Drs. Jianguo Liu, Xingguo Han, Pu Mou, Jiquan Chen, Xi He, Quan Dong, Ye Qi, Guanghui Lin, Junda Lin, Yude Pan, Shili Miao, Changhui Peng, and Ben Gu.

Most of the association members hold advanced degrees and are working in universities, research institutes, and government agencies in North America. There are also some members on other continents. Many SINO-ECO members are now major players in their research fields, including, but not limited to, global change ecology, landscape ecology, ecosystem restoration, remote sensing, aquatic ecology, wetland ecology, conservation biology, and biological invasion. SINO-ECO members are making significant contributions to advances in ecology and using ecological principals and theories to solve real world problems.