



中華海外生態學者協會  
Sino-Ecologists Association Overseas

NEWSLETTER OF SINO-ECO ASSOCIATION OVERSEAS

Special Issue: 2006 SINO-ECO ELECTION

February 15, 2006

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Guest Editor: Dr. Changhui Peng

Current Sino-Eco Association Overseas Committee:

President and Committee Chair: Dr. Changhui Peng, University of Quebec at Montreal  
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Vice President: Dr. Hong Jiang, Conservation Biology Institute in Corvallis, USA  
e-mail: [hongjiang@consbio.org](mailto:hongjiang@consbio.org)

Treasurer: Dr. Yufu Cheng, California State University  
e-mail: [ycheng5@exchange.calstatela.edu](mailto:ycheng5@exchange.calstatela.edu)

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Newsletter Editor: Dr. Binhe Gu, South Florida Water Management District  
e-mail: [bgu@sfwmd.gov](mailto:bgu@sfwmd.gov)

## **A MESSAGE FROM THE SINO-ECO PRESIDENT**

Dear SINO-ECO members and friends:

On behalf of the election committee, I am pleased to announce that three candidates: Drs. **Benhe Gu, Xianzhong Wang, and Weixing Zhu** will run for the next term (2006-2008) of SINO-ECO President. We are happy to have these three strong candidates and very much appreciate their willingness and interest to serve the SINO-ECO and lead us to a new stage.

According to the SINO-ECO election bylaw, those who paid the fees between August 1 and December 31, 2005 to cover their memberships are qualified (have the right) to be voted for or to vote (see list below). Your participation in this election will stimulate our enthusiasm to support our community and will be greatly appreciated!

Please send your **VOTE (ONLY ONE VOTE)** (you can just simply e-mail the name of one candidate your vote for) to **all there election committee members** below:

Yufu Cheng (e-mail: [ycheng5@exchange.calstatela.edu](mailto:ycheng5@exchange.calstatela.edu)); Xiaohua Wei (e-mail: [adam.wei@ubc.ca](mailto:adam.wei@ubc.ca));  
Changhui Peng (e-mail: [peng.changhui@uqam.ca](mailto:peng.changhui@uqam.ca))

**The deadline is March 15, 2006.**

Thank you very much for your participation and cooperation.  
Changhui

### **List of members who are eligible to vote in this year's SINO-ECO election:**

|                 |                |                     |
|-----------------|----------------|---------------------|
| Chang, Frank    | Jiang, Hong    | Wang, Xianzhong     |
| Chen, Anpin     | Li, Bailian    | Wei, Xiaohua (Adam) |
| Chen, Jiquan    | Li, Yi         | Wu, Jianguo         |
| Chen, Zhong     | Li, Zhijun     | Wu, Jianghua        |
| Chen, Xin       | Lin, Junda     | Xing, Zisheng       |
| Cheng, Yufu     | Liu, Jianguo   | Xu, Chengyuan       |
| Dang, Qinglai   | Liu, Hong      | Yin, Yao            |
| Dong, Ming      | Liu, Qinqin    | Yuan, Xiaoli        |
| Dong, Quan      | Luo, Yiqi      | Zhang, Li           |
| Fang, Wei       | Miao, Shili    | Zhang, Yangjian     |
| Gao, Jinguo     | Peng, Yuanying | Zhao, Shuqing       |
| Gu, Binhe (Ben) | Peng, Changhui | Zheng, Daolan       |
| Gu, Lianhong    | Qian, Hong     | Zhou, Xiaolu        |
| Hu, Shuijin     | Qu, Laiye      | Zhu, Bin            |
| Hua, Dong       | Sun, Jianfeng  | Zhu, Weixing        |
| Huang, Charlie  | Tang, Jianwu   | Zhuang, Qianlai     |
| Huang, Jianguo  | Tang, Jennie   | Zou, Jianwen        |
| Hui, Dafeng     | Wang, Yi       |                     |
| Ji, Baoming     | Wang, Lixin    |                     |

## **DR. BINHE GU'S CAMPAIGN STATEMENT**

Dear Fellow Sino-Eco Members:

Since its establishment in 1988, SINO-ECO has made many important contributions to our fellow members in career advancements and to the field of ecological science in China. I have my great respects to our members and the past committees, and presidents for their enthusiasm and leadership. I am a long time SINO-ECO member and have been the SINO-ECO newsletter editor for the past four years. I have helped SINO-ECO, local Chinese organizations, domestic institutions, and individual ecologists in various ways including organization of workshops/symposium, overseas visits, grant and manuscript review and so on. I am a major contributor for the recent effort of the translation of the ESA EcoVision main documents into Chinese. If I am so elected, I will ensure my term as the president of SINO-ECO includes the following efforts:

1. To strengthen the cooperation with ecologists, education and research institutions on issues such as ecosystem restoration, natural resources, biological invasion, environmental policy, and ecological sustainability. Specifically, I will
  - Organize 1-2 workshops in the areas of ecosystem restoration, and ecological security and sustainability.
  - Organize an effort to initiate a China EcoVision project with the Chinese Academy of Sciences.
  - Provide expert and consulting services to the central and local Chinese governments on major environmental and ecological issues and policies.
  - Provide technical assistance to our domestic ecologists in academic areas which include, but are not limited to, manuscript preparation, experimental design and presentation.
  - Organize several expert teams of ecologists to work on various important environmental issues in China.
  - Work closely with ESA, ESA Asian Ecology Section and ESC to translate important ecological documents in English into Chinese language.
2. To strengthen the communication with the academic, professional and cultural sectors in China and among SINO-ECO members. This will be done through the development of an interactive and bilingual SINO-ECO web site which will provide broad and rich information on the status and advances of ecological research, education, and services around the world and greatly improve our communications among SINO-ECO members and domestic professionals.
3. To establish an award and citation subcommittee to provide opportunities to recognize outstanding individual performance and to highlight accomplishments of the SINO-ECO community and the young ecologists from China.
4. To improve member services such as grant writing, job searching, and interview skills for our new members and young ecologists, and to expand the service to areas such as manuscript development and immigration.
5. To recruit more members, especially from other regions and closely related fields.
6. To improve routine business including quarterly newsletter, annual membership directory updating, and get-togethers at the annual ESA meeting.

With your trust and support, together we can make a difference. Thank you for your attention.

## **DR. BINHE GU'S RESUME**

**BEN GU, Ph. D.**

**Senior Environmental Scientist**

South Florida Water Management District 3301 Gun Club Road  
West Palm Beach FL 33406 Phone: 561-682-2556 (work) E-mail: [bgu@sfwmd.gov](mailto:bgu@sfwmd.gov)

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### **PROFESSIONAL EXPERIENCE**

- 1999- Senior Environmental Scientist, Everglades Division, South Florida Water Management District, West Palm Beach, Florida  
1997-1999 Environmental Specialist III, Division of Environmental Science, St. Johns River Water Management District, Palatka, Florida  
1993-1997 University of Florida, Postdoc Research Associate  
1988-1993 Research Associate, University of Alaska Fairbanks

### **EDUCATION**

- 1993 University of Alaska Fairbanks: Ph. D., Oceanography  
1992 University of Alaska Fairbanks: M.S. Fishery Science  
1985 Southeast Asian Fishery Development Center in Asia (Philippines): M.S. Aquaculture

### **ACADEMIC AWARDS AND HONOURS**

- 1993 Outstanding Ph.D Student Award  
2006 Marquis Who's Who in America

### **PROFESSIONAL AFFILIATIONS**

Sino-Ecologists Association Overseas, Ecological Society of America, American Society of Limnology and Oceanography, Society of Wetland Scientists, Society of Ecological Engineering, World Aquaculture Society

### **PROFESSIONAL SERVICES**

Newsletter editor (Sino Eco), Secretary (Asian Ecology Section, ESA), Affiliate Professor (Guangdong Ocean University), Guest Senior Scientist (Pearl River Fishery Research Institute), Editorial board member, Journal of Plant Ecology (Chinese Academy of Sciences), Board member (Chinese Association of Science, Education and Culture of South Florida)

### **RESEARCH INTERESTS**

Wetland Ecology, Restoration Ecology, Ecological Engineering, Limnology, Aquatic Biogeochemistry, Water Security

### **REFERRING**

Archive für Hydrobiologie, Aquaculture, Biogeochemistry, Canadian Journal of Fisheries and Aquatic Science, Ecological Engineering, Environmental and Experimental Botany, Environmental Pollution, Estuarine, Coast and Shelf Science, Hydrobiologia, Journal of Environmental Health, Journal of Fish Biology, Journal of Lake and Reservoir Management, Journal of World Aquaculture Society, Limnology and Oceanography, Oecologia, Water Science and Technology

### **GRANT PROPOSAL REVIEW**

National Science Foundation, Lake Champlain Sea Grant, Chinese Natural Science Foundation

### RESEARCH GRANT FUNDING AGENCIES

US NSF, EPA, Florida DEP, NOAA, Michigan Sea Grant, University of Florida, St Johns River Water Management District, South Florida Water Management District

### CURRENT RESEARCH PROJECTS

1. Factors controlling nutrient removal in surface-flow constructed wetlands
2. Calcium carbonate budget in the stormwater treatment areas of south Florida
3. CO<sub>2</sub> flux and primary production in the Everglades protection areas
4. Use of oxygen isotopes to track sources of phosphate in the Everglades

### RECENT INVITED TALKS

Invited speaker in the areas of water security, wetland restoration, stable isotope ecology, eutrophication control, invasive species ecology and management in institutions including Nanjing Institute of Geography and Limnology, Pearl River Fishery Institute, Guangdong Ocean University, South China Normal University, Beijing Institute of Botany, Jinan University, and workshop and symposium including Ecosystem Success and Restoration, Beijing International Symposium for Invasive Species Management, Senior Workshop for Ecological Sustainability and Yanqing Senior Workshop for Wetlands (Beijing)

### JOURNAL PUBLICATIONS

1. Gu, B., M. J. Chimney, J. Newman and M. Nungesser. (accepted). Limnological characteristics of a constructed wetland in south Florida. **Ecological Engineering**.
2. Lu, K. H. C. H. Jin, X. Dong, B. Gu and S. H. Bowen (accepted). Feeding and control of blue-green algal blooms by tilapia (*Oreochromis niloticus*). **Hydrobiologia**.
3. Gu, B., A. Chapman and C. L. Schelske. (accepted). Factoring controlling seasonal variations in stable isotope composition of particulate organic matter in a softwater eutrophic lake. **Limnology and Oceanography**.
4. Gu, B. 2006. (in press) Environmental conditions and nutrient removal in aquatic systems dominated by *Hydrilla verticillata*: implication for invasive species management. **Biological Invasions**.
5. Brenner, M., D. Hodell, J. Curtis, W. Kenney, B. Leyden, B. Gu, J. Newman. 2006. Mechanisms for organic matter and phosphorus burial in sediments of a shallow, subtropical, macrophyte-dominated lake. **Journal of Paleolimnology**. 35:129-148.
6. Gu, B. and M. V. Hoyer. 2005. Environmental conditions in natural aquatic systems dominated by submerged aquatic vegetation in Florida. **Lake and Reservoir Management**. 21:403-410.
7. Dierberg, F., J. Juston, T. DeBusk, K. Pietro and B. Gu. 2005. Relationships between Hydraulic efficiency and phosphorus removal in a submerged aquatic vegetation dominated treatment wetland. **Ecological Engineering**. 25:9-23.
8. Gu, B., C. L. Schelske and D. H. Hodell. 2004. Extreme <sup>13</sup>C enrichment in a hypereutrophic lake: Implication to carbon cycling. **Limnology and Oceanography**. 49: 1152-1159.
9. Zhao, S., J. Fang, S. Miao, B. Gu, S. Tao, C. Peng and Z. Tang. 2004. The 7-decade degradation of a large freshwater lake in central Yangtze River, China. **Environmental Science and Technology**. 39: 431-436.
10. DeBusk, T., Grace, F. Dierberg, Jackson, M. J. Chimney and B. Gu. 2004. An investigation of the lower limits of phosphorus removal in treatment wetlands: mesocosm testing of shallow, limerock-substrate wetland. **Ecological Engineering** 23: 1-14.

11. Havens, K.E., B. Gu., B. Fry and C. Kendall. 2003. Stable isotope food web analysis of a large subtropical lake: alternative explanations for  $^{15}\text{N}$  enrichment of pelagic vs littoral fisheries. **TheScientificWorldJOURNAL**. 3: 613-622.
12. Knight, R. L., B. Gu, R. A. Clarke, and J. M. Newman. 2003. Long-term phosphorus removal in Florida aquatic systems dominated by submerged aquatic vegetation. **Ecological Engineering**. 20: 45-63.
13. Dierberg, F., T. DeBusk, J. Potts and B. Gu. 2002. Biological uptake vs. coprecipitation of soluble reactive phosphorus by 'P-enriched' and 'P-deficient' *Najas guadalupensis* in hard and soft waters. **Internationale Vereinigung für Limnologie** 28: 1865-1870.
14. Gu, B., T. Frazier, F. Chapman and D. M. Schell. 2001. Reduced feeding of Suwannee sturgeon during prolonged river residence. **Estuaries, Coastal and Shelf Science**. 53: 275-280.
15. Gu, B., T. DeBusk, F. E. Dierberg, M. Chimney, K. Pietro and T. Aziz. 2001. Phosphorus Removal from Everglades Agricultural Area Runoff by Submerged Aquatic Vegetation/Limerock Treatment Technology: An Overview of Research. **Water Science & Technology**. 44:101-108.
16. Gu, B., V. Alexander, and D. M. Schell. 1999. Seasonal and interannual variability of plankton carbon isotope ratios in a subarctic lake. *Freshwater Biology* 42:417-426.
17. Gu, B., C. L. Schelske, and M. V. Hoyer. 1997. Intrapopulation feeding diversity in blue tilapia: Evidence from stable carbon and nitrogen isotopes. **Ecology** 78:2263-2266.
18. Gu, B., K. E. Havens, C. L. Schelske, and P. H. Rosen. 1997. Uptake of dissolved nitrogen by phytoplankton in a eutrophic subtropical lake. **Journal of Plankton Research** 19:759-770.
19. Gu, B., V. Alexander, and D. M. Schell. 1997. Stable isotopes as indicators of carbon flows and trophic structure of the benthic food web in a shallow eutrophic lake. **Archive für Hydrobiologie** 138:329-344.
20. Gu, B., D. M. Schell, X. Huang, and L. Yie. 1996. Stable carbon and nitrogen isotope evidence for dietary overlap between two planktivorous fish in aquaculture ponds. **Canadian Journal of Fisheries and Aquatic Science** 53:2814-2818.
21. Gu, B. and C. L. Schelske. 1996. Temporal and spatial variations in phytoplankton carbon isotopes in a polymictic subtropical lake. **Journal of Plankton Research** 18: 2081-2092.
22. Gu, B., C. L. Schelske, and M. V. Hoyer. 1996. Stable isotopes as indicators of diet and trophic structure of the fish community in a shallow hypereutrophic lake. **Journal of Fish Biology** 49:1233-1243.
23. Gu, B., C. L. Schelske, and M. Brenner. 1996. Relationships between sediment and plankton isotope ratios ( $\delta^{13}\text{C}$  and  $\delta^{15}\text{N}$ ) and primary productivity in Florida lakes. **Canadian Journal of Fisheries and Aquatic Science** 53:685-693.
24. Gu, B. and V. Alexander. 1996. Stable carbon isotope evidence for atmospheric  $\text{CO}_2$  uptake by cyanobacterial surface scums. **Applied and Environmental Microbiology** 62:1803-1804.
25. Gu, B., D. M. Schell, and V. Alexander. 1994. Stable isotopic analysis of the plankton food web in a subarctic lake. **Canadian Journal of Fisheries and Aquatic Science** 51:1338-1344.
26. Gu, B. and V. Alexander. 1993. Estimation of  $\text{N}_2$ -fixation based on differences in the natural abundance of  $^{15}\text{N}$  among freshwater  $\text{N}_2$ -fixing and non- $\text{N}_2$ -fixing algae. **Oecologia** 68:43-48.
27. Gu, B. and V. Alexander. 1993. Seasonal variations in dissolved nitrogen utilization by phytoplankton in a subarctic Alaskan lake. **Archive für Hydrobiologie** 126:273-288.

28. Gu, B. and V. Alexander. 1993. Dissolved nitrogen utilization by a cyanobacterial bloom (*Anabaena flos-aquae*) in a subarctic lake. **Applied and Environmental Microbiology** 59: 422-430.

#### BOOK CHAPTERS

1. Hoyer, M., B. Gu and C. L. Schelske. 1998. Sources of organic carbon in the food webs of two Florida lakes indicated by stable isotopes. p326-330. In E. Jeppesen, M. Sondergaard, M. Sondergaard and K. Christoffersen (eds) **The Structure Role of Submerged Macrophytes in Lakes**. Springer.
2. Alexander, V. and B. Gu. 1997. Lakes of Interior Alaska: The Limnology of Smith Lake. pp.131-153. In A. Milner and M. Oswood (eds.): **Limnology of Alaskan Freshwaters**. Springer-Verlag.

#### RESEARCH REPORTS AND CONFERENCE PROCEEDINGS

1. Newman, J., M. Chimney, B. Gu. et al. 2003. Chapter 4C: Advanced Treatment Technologies. In: SFWMD (eds.) **The Everglades Consolidation Report**. 4-1 to 4-72. SFWMD, West Palm Beach, Florida.
2. Gregory, Aziz, T and B. Gu et. al. 2001. Chapter 8. Advanced Treatment Technologies for Treating Stormwater Discharges into the Everglades Protection Area. . In: SFWMD (eds.) **The Everglades Consolidation Report**. 4-1 to 4-67. SFWMD. West Palm Beach, Florida.
3. Gu, B., T. DeBusk, M. Chimney, K. Pietro and T. Aziz. 2000. Phosphorus Removal from Everglades Agricultural Area Runoff by Submerged Aquatic Vegetation/Limerock Treatment Technology: An Overview of Research. P. 169-177. In: **Proceedings for the 7<sup>th</sup> International Conference on Wetland Systems for Water Pollution Control**. November 11-16, 2000. Lake Buena Vista, FL.
4. Newman, J., M. Chimney, B. Gu. et al. 2002. Chapter 4C: Advanced Treatment Technologies. In: SFWMD (eds.) **The Everglades Consolidation Report**. 4-1 to 4-67. SFWMD, West Palm Beach, Florida.

#### PUBLICATIONS IN CHINESE LANGUAGE

1. 古滨河 (译). 2005. 二十一世纪的生态学与可持续发展。“生态学未来之展望”，中国生态学会编印，61-70 页。
2. 古滨河. 2005. 美国大型浅水湖 APOPKA 湖的富营养化和生态恢复（综述）。湖泊科学。17: 1-8。
3. 古滨河, 缪世利. 2004. 书评: 人类的最后宝藏: 生态景观浏览 (董泉, 陈吉全著). 植物生态学报. 5: 729.

#### 其它著作

丹 德卡罗 (著) 古滨河 (译) 2 0 0 6 《成圣之思辨》~ 2 0 0 页。北京知识出版社 (IN PRESS)。  
另有中文诗词和散文 2 0 余首 (篇) 在国内报纸和互联网上发表。

## **DR. XIANZHONG WANG'S CAMPAIGN STATEMENT**

Dear fellow Sino-Eco members:

My name is Xianzhong Wang, an assistant professor at Indiana University-Purdue University Indianapolis since 2001. I am running for the Presidency of the Sino-Eco. I hereby ask for your vote and support.

Ever since its founding by the more senior members of this club, Sino-Eco has been of great help to its members, especially graduate students. I was one of the beneficiaries earlier in my career. If I am elected the next President of Sino-Eco, I pledge to continue the great tradition of the club that has been passed from one year to another. These include offering a forum for its members to exchange ideas, maintaining a great working relationship with our peers back in China, publication of the Sino-Eco newsletters, and encouragement of mutual support among its members. In addition to these activities, I am proposing the following to strengthen Sino-Eco for overseas Chinese ecologists and to position itself for greater visibility in China:

1. To put more efforts into helping graduate students and post-doctoral fellows in China to publish better articles in international journals. We all have first-hand experience that many graduate students in China are good experimenters, but need a lot of help in presenting their studies verbally for publication. I believe this is an area that our members can offer a great deal of help.
2. To have an annual award for a good publication by an ecology student in China, who must be a major contributor to the publication. The President of Sino-Eco will solicit nominations for this award and all members will vote for the winning article. The winner will be awarded a Sino-Eco Annual Publication Award. I believe this will greatly motivate many students to achieve for a high quality publication and elevate the visibility of Sino-Eco.

I am also open-minded for any suggestions that my fellow members may have. Please do not hesitate to contact me if you have any ideas or comments. Together, let's work to make this great organization even greater.

## DR. XIANZHONG WANG'S RESUME

### Xianzhong Wang

ASSISTANT PROFESSOR

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### Education

- 1999      **Ph.D.** The Ohio State University, Environmental Science Graduate Program.  
Plant Physiological Ecology.
- 1989      **M.S.** Institute of Soil Science, Academia Sinica, Department of Plant  
Nutrition and Environmental Science. Soil and Environmental Sciences.
- 1986      **B.S.** Zhejiang University, China. Soil and Environmental Sciences.

### Positions Held

- 2001-present    Assistant Professor, Department of Biology, IUPUI.
- 2001-present    Faculty, Center for Earth and Environmental Science, IUPUI.
- 2004-present    Adjunct Faculty, Department of Geology, IUPUI.
- 1999-2001      Postdoctoral Research Scientist, Columbia University.
- 1998-1999      Chemistry Laboratory Instructor, The Ohio State University.
- 1997-1998      Muellhaupt Presidential Fellow, The Ohio State University.
- 1995-1997      Research and Teaching Associate, Environmental Science Graduate Program  
and Department of Plant Biology, The Ohio State University.
- 1994-1995      University Fellow, The Ohio State University.
- 1993-1994      Visiting Research Scientist, CSIRO Division of Plant Industry, Australia.
- 1991-1993      Associate Research Scientist, Institute of Soil Science, Academia Sinica, China.
- 1989-1991      Assistant Research Scientist, Institute of Soil Science, Academia Sinica, China.

### Publications

#### Refereed Journal Articles

- Nagel, JM, Wang XZ, Lewis JD, Fung HA, Tissue DT and Griffin KL. 2005. Atmospheric CO<sub>2</sub> enrichment alters energy assimilation, investment and allocation in *Xanthium strumarium*. *New Phytologist* 166: 513-523.
- Wang, XZ. 2005. Reproduction and progeny of *Silene latifolia* (Caryophyllaceae) as affected by atmospheric CO<sub>2</sub> concentration. *American Journal of Botany* 92 (5): 826-832.
- Wang, X. Z., O. R. Anderson and K. L. Griffin. 2004. Chloroplast numbers, mitochondrion numbers and carbon assimilation physiology of *Nicotiana sylvestris* as affected by CO<sub>2</sub> concentration. *Environmental and Experimental Botany* 51: 21-31.

- Turnbull, M.H., D.T. Tissue, R. Murthy, X.Z. Wang, A.D. Sparrow and K.L. Griffin. 2004. Nocturnal warming increase photosynthesis at elevated CO<sub>2</sub> partial pressure in *Populus deltoides*. *New Phytologist* 161: 819-826.
- Wang, X. Z. and K. L. Griffin. 2003. Sex-specific physiological and growth responses to elevated atmospheric CO<sub>2</sub> in *Silene latifolia* Poiret. *Global Change Biology* 9: 612-618.
- Curtis P. S., L. M. Jablonski and X. Z. Wang. 2003. Assessing elevated CO<sub>2</sub> responses using meta-analysis. *New Phytologist* 160: 6-7.
- Lewis, J. D., X. Z. Wang, K. L. Griffin and D. T. Tissue. 2003. Age at flowering differentially affects vegetative and reproductive responses of a determinate annual plant to elevated CO<sub>2</sub>. *Oecologia* 135: 194-201.
- Wang, X. Z. and P. S. Curtis. 2002. A meta-analytical test of elevated CO<sub>2</sub> effects on plant respiration. *Plant Ecology* 161: 251-261.
- Jablonski, L. M., X. Z. Wang and P. S. Curtis. 2002. Plant reproduction under elevated CO<sub>2</sub> conditions: A meta-analysis of reports on 79 crop and wild species. *New Phytologist* 156: 9-26.
- Lewis, J. D., X. Z. Wang, K. L. Griffin and D. T. Tissue. 2002. Effects of age and ontogeny on photosynthetic responses of a determinate annual plant to elevated CO<sub>2</sub> concentrations. *Plant, Cell and Environment* 25: 359-368.
- Wang, X. Z., J. D. Lewis, D. T. Tissue, J. R. Seemann and K. L. Griffin. 2001. Effects of elevated CO<sub>2</sub> on leaf dark respiration of *Xanthium strumarium* in light and darkness. *Proceedings of the National Academy of Sciences, USA* 98: 2479-2484.
- Wang, X. Z. and P. S. Curtis. 2001. Gender-specific variation of *Populus tremuloides* in its physiological and growth responses to elevated CO<sub>2</sub>. *New Phytologist* 150: 675-684.
- Wang, X. Z., P. S. Curtis and C. S. Vogel. 2001. Effects of soil fertility and atmospheric CO<sub>2</sub> enrichment on leaf, stem and root respiration of *Populus tremuloides*. *Pedosphere* 199-208.
- Curtis, P. S., C. S. Vogel, X. Z. Wang, K. S. Pregitzer, D. R. Zak, J. Lussenhop, M. E. Kusbiske and J. A. Teeri. 2000. Gas exchange, leaf nitrogen, and growth efficiency of *Populus tremuloides* in a CO<sub>2</sub>-enriched atmosphere. *Ecological Applications* 10: 3-17.
- Wang, X. Z., P. S. Curtis, K. S. Pregitzer and D. R. Zak. 2000. Genotypic variation in physiological and growth responses of *Populus tremuloides* to elevated atmospheric CO<sub>2</sub> concentration. *Tree Physiology* 20: 1019-1028.
- Curtis, P. S. and X. Z. Wang. 1998. A meta-analysis of elevated CO<sub>2</sub> effects on woody plant growth, form and function. *Oecologia* 113: 299-313.

### Meeting Presentations

- 90<sup>th</sup> Annual Meeting of Ecological Society of America, August 7-12, 2005, Montreal, Canada.
- 89<sup>th</sup> Annual Meeting of Ecological Society of America, August 2-6, 2004, Portland, Oregon.
- 88<sup>th</sup> Annual Meeting of Ecological Society of America, August 3-8, 2003, Savannah, GA.
- 87<sup>th</sup> Annual Meeting of Ecological Society of America, August 5-9, 2002, Tucson, AZ.
- 86<sup>th</sup> Annual Meeting of Ecological Society of America, August 5-10, 2001, Madison, WI.
- 85<sup>th</sup> Annual Meeting of Ecological Society of America, August 6-10, 2000, Snowbird, UT.
- 84<sup>th</sup> Annual Meeting of Ecological Society of America, August 8-12, 1999, Spokane, WA.
- 83<sup>rd</sup> Annual Meeting of Ecological Society of America, August 2-6, 1998, Baltimore, MD.
- 106<sup>th</sup> Annual Meeting of the Ohio Academy of Science. April 5, 1997.
- 105<sup>th</sup> Annual Meeting of the Ohio Academy of Science. May 4, 1996.

### **Invited Talks**

- Institute of Botany, Academia Sinica, Beijing, March 2005.
- Marian College, Department of Biology, September 15, 2003.
- Indiana University Bloomington, Department of Geography. January 24, 2003.
- Kellogg Biological Station, Michigan State University, November 15, 2002.
- IUPUI, Department of Geology. November 16, 2001.

### **Awards and Fellowships**

- Postdoctoral Fellowship, 1999-2001. Columbia University.
- Muellhaupt Presidential Fellowship, 1997-1998. The Ohio State University.
- Summer Research Awards, 1995, 1996 and 1997. University of Michigan Biological Station.
- University Fellowship, 1994-1995. The Ohio State University.

### **Professional Affiliations**

- Member, 2003. Indiana Academy of Sciences.
- Member, 2003. Hoosier Association of Science Teachers.
- Member, 1997-present. Ecological Society of America.
- Member, 1995-1999, Ohio Academy of Sciences.

### **Supervisors**

- Postdoctoral Research Scientist: Dr. Kevin L. Griffin, Columbia University.
- Ph.D.: Dr. Peter S. Curtis, The Ohio State University.
- Visiting Research Scientist: Dr. John R. Freney, CSIRO Division of Plant Industry, Australia.
- M.S.: Prof. Zhaoliang Zhu, The Institute of Soil Science, Academia Sinica.

## **DR. WEIXING ZHU'S CAMPAIGN STATEMENT**

My Dear Friends,

I am honored to be nominated to run the president of Sino-Eco, the organization I have been a member since 1991. Our dear organization has close to 20 years history since she was first established, then by a group of young, intelligent, and highly enthusiastic overseas Chinese students who chose ecology as their career. During these 20 years, a lot of changes have happened to the organization (we had up and down periods), to ecology, and to China. What remains unchanged, however, are our commitments to promote exchanges of ideas between Chinese ecologists and the world, to foster friendship among our members and establish collaborative relationships with ecologists working in China.

The fast economic development and ecological concerns in China created both challenges and opportunities for our organization. In the past several years, under the leadership of our past and current presidents and hard work from committed committee members, with strong support from our members and our colleagues in China, the Sino-Eco Association Overseas has organized many high-profile activities critical to the advancement of Chinese ecology. Should I win your confidence, I will continue such activities. I view such academic exchanges not only as our dutiful commitment to China and to global ecology, but also as career opportunities for many, if not all, of our members. For the first time, taking an ecologist position in China becomes a very attractive career choice (as several of our members have already done), I would like the organization further explore such opportunities.

When I first joined the Club in 1991 (San Antonio, TX), I was a graduate student and many of our founding members just entering their career (postdoctoral scientists). Now many of these same people are the leaders in their respective fields in North America, China, and other parts of the world. Over the years, I have learned a lot from them and their advice and support are critical to my own career development. The sustainable development of our organization depends on the active participation of our young members, many of them either just start as graduate students, or “struggle” as postdoctoral fellows. Thus the second goal of my presidency, should I get elected, is to help the career advancement of our young members, consequently to maintain the development of our organization.

And finally, For Friendship!

From Weixing Zhu  
Binghamton, New York, February 2006.

## **DR. WEIXING ZHU'S RESUME**

Weixing Zhu, Ph.D.

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### ***Education***

Ph.D., Ecology, Rutgers University, New Jersey, 1995

Major Advisor: Professor Joan G. Ehrenfeld

M.S., Statistics, Rutgers University, New Jersey, 1996

M.S., Ecology, Fudan University, Shanghai, China, 1989

Major Advisor: Professor Jia-qi Hu

B.S., Biology, Fudan University, Shanghai, China, 1986

### **Professional Research Experience**

2000-present, Assistant Professor, Departmental of Biological Sciences, Binghamton University, New York

1999-2000, Postdoctoral Associate, Central Arizona-Phoenix Urban LTER Program, Arizona State University, Arizona

1996-1999, Postdoctoral Associate, Louis Calder Center, Fordham University, New York

1995-1996, Research Associate, Institute of Marine and Coastal Sciences, Rutgers University, New Jersey

1990-1995, Graduate Research Assistant, Rutgers University, New Jersey

1990, Graduate Research Assistant, University of Massachusetts at Amherst, MA

1987-1989, Graduate Research Assistant, Fudan University, Shanghai, China

### **Professional Teaching Experience**

Binghamton University – Biogeochemistry (Biol 680W), Biostatistics (Biol 458/558), Principles of Ecosystem Ecology (Biol 455/536), Ecology (new, fall 2005), Watershed Ecology (new, fall 2005)

Arizona State University – Urban Ecology (Bio 494, co-taught with Prof. Nancy Grimm)

Pace University, New York (1997) - Environmental Science (ENS 610)

Rutgers University (1994) - Teaching Assistant (Bio 101)

New Brunswick School District, New Jersey (1993) – Science teacher (4th-8th grade)

Fudan University - Teaching Assistant (Introductory Plant Science)

### **Professional Affiliations and Services**

Ecological Society of America (since 1990): Sections of Asian ecology, Soil ecology, Urban ecology, and Biogeosciences

Soil Ecology Society (since 1994)

SinoEco Club (since 1991)

Academic Journal Review: Journal of Environmental Quality, Canadian Journal of Forest Research, Ecology, Ecosystems, Forest Science, Applied Soil Ecology, Soil Biology and

Biochemistry, Restoration Ecology, and Biogeochemistry.

### **Grant Proposal Review:**

*New York Sea Grant Student Fellowship, USDA-National Research Initiative (soil biology, watershed processes), Cooperative Institute for Coastal and Estuarine Environmental Technology (CICEET), Cornell University Agricultural Ecology Program.*

### **Grants and Awards**

- 1992-1995, USDA-National Research Initiative, The effects of ectomycorrhizae on decomposition in coniferous forest soil, co-PI with J.G. Ehrenfeld, \$106,453.
- 2003-2006, EPA Watershed Initiative: Susquehanna River Headwaters NY & PA, subcontract to Binghamton University from Tioga County Soil & Water Conservation District, co-PI with J. Graney, K. Salvage, and J. Titus, \$74,880.
- 2004-2006, NSF-Course, Curriculum, and Laboratory Improvement Program, A watershed based approach to environmental education integrating ecology, hydrology, and geochemistry, co-PI with J. Graney and K. Salvage, \$85,000.
- 2005-2007, USDA- National Research Initiative Competitive Grant Program, Organic matter controls the assimilation and retention of inorganic nitrogen in forest soils, W. Zhu, Principal Investigator, \$100,000.

### **Recent Presentations at Professional Meetings**

- 2005 Zhu, W.-X., J. Graney, and K. Salvage. A watershed-based interdisciplinary approach to environmental education integrating ecology, hydrology, and geochemistry. 90<sup>th</sup> Ecological Society of America (ESA) Annual Meeting, Montreal, Canada, Aug 7-12.
- 2005 Zhu, W.-X. Canopy tree species effect on soil nitrogen transformations and organic matter accumulation in a plantation site in south-central New York. Soil Ecology Society Tenth Biannual International Conference, May 22-25, Argonne National Lab, IL.
- 2005 Bendz, K.A. and Zhu, W.X. Wetland Biogeochemistry and Nutrient Allocation: A Comparative Analysis of *Lythrum salicaria* and *Typha latifolia*. Soil Ecology Society Tenth Biannual International Conference, May 22-25, Argonne National Lab, IL.
- 2005 Egitto, B.A. and Zhu, W.X. Edge effects on nitrogen dynamics and plant use in urban forest patches. Soil Ecology Society Tenth Biannual International Conference, May 22-25, Argonne National Lab, IL.
- 2004 Zhu, W., and T. Zhang. Nitrogen pollution from the Upper Susquehanna River Watersheds: effects of land use. The Third International Nitrogen Conference, Nanjing, China, 12-16 October.
- 2004 Urban R.A., J.E. Titus, W.X. Zhu, "An invasive plant alters a native species and its impact on sediment chemistry", ESA Annual Meeting, Aug 1-6, Portland, OR.
- 2003 Zhu, W., and T. Zhang. Nitrogen retention and hydrological N loss in intact soil cores during a 24-week lab incubation. 88<sup>th</sup> ESA Annual Meeting, Savannah, Georgia, Aug. 3-8
- 2003 Zhu, W., and S. Fickbohm. Purple loosestrife (*Lythrum salicaria*) invasion of cattail (*Typha latifolia*) freshwater wetlands: changes beyond aboveground species replacement. Soil Ecology Society, 9<sup>th</sup> Biannual International Conference, Palm Springs, California, May 11-14.
- 2001 Dillard, N.D., W. Zhu, and N.B. Grimm. Denitrification in retention basin soils of an urban

- ecosystem. ESA Annual Meeting, Madison, WI.
- 2001 Hope, D., C. Gries, W. Zhu, S. Carroll, L. Stabler, C.L. Redman, N.B. Grimm, and A. Kinzig. Landscape pattern and process of an urban ecosystem: an integrated field inventory approach. ESA Annual Meeting, Madison, WI.
- 2000 Zhu, W., and N.B. Grimm. Carbon and nitrogen cycling in urban remnant patches: the effect of fossil fuel combustion. ESA Annual Meeting, Snowbird, Utah.

### Recently Invited Talks

2004. “Nitrogen cycling in human-settled ecosystems: Approaches and Implications”, Department of Biological Sciences, Fordham University, NY.
- 2003 “Nitrogen cycling in human settled and human affected ecosystems”, Department of Earth, Ecological and Environmental Studies, University of Toledo, OH.
- 2002 “Changes in forest soils through succession and restoration: nutrients, organic matter, and microbial organisms”. In Chinese Academy of Sciences Workshop on Ecosystem Succession Theory and Practice of Ecological Restoration, Guangzhou, China.
- 2002 “Urban nitrogen cycling: broad scale pattern and hot spot processes”, Department of Earth and Environmental Sciences, Lehigh University, PA.
- 2001 “Nutrient cycling and organic matter decomposition in ‘natural’ and human affected ecosystems”, Department of Geological Sciences, Binghamton University, NY.

### Publications

- Zhu, W.-X., D. Hope, C. Gries, and N.B. Grimm. Soil characteristics and the accumulation of inorganic nitrogen in an arid urban ecosystem. *Ecosystems* Accepted.
- Fang, Y., W. Zhu, J. Mo, G. Zhou, P. Gundersen. Dynamics of soil inorganic nitrogen and their responses to nitrogen additions in three subtropical forests of China. *Journal of Environmental Sciences* Accepted.
- Urban, R., J. Titus, and W.-X. Zhu. An invasive macrophyte alters sediment chemistry due to suppression of a native isoetid. *Oecologia* Accepted.
- Fickbohm, S.S., and W.-X. Zhu. 2006. Exotic purple loosestrife invasion of native cattail freshwater wetlands: effects on organic matter distribution and soil nitrogen cycling. *Applied Soil Ecology* In press.
- Carreiro, M.M., R.V. Pouyat, C.E. Tripler and W-X. Zhu. 2006. Carbon and nitrogen cycling in soils of remnant forests along urban-rural gradients: case studies in New York City and Louisville, Kentucky. In Mark McDonnell, Jurgen Breuste and Amy Hahs (eds) *Comparative Ecology of Cities and Towns*. Elsevier Press. In press.
- Zhang, T., and W.-X. Zhu. 2005. Nitrogen pollution from the Upper Susquehanna River watersheds: effects of land use. *Proceedings of the 3<sup>rd</sup> International Nitrogen Conference*, Science Press USA.
- Hope, D., W. Zhu, C. Gries, J. Oleson, J. Kaye, N.B. Grimm, and L.A. Baker. 2005. Spatial variation in soil inorganic nitrogen across an arid urban ecosystem. *Urban Ecosystems* 8: 251-273.
- Zhu, W.-X. 2005. Consideration of soil ecological processes in restoration and succession. *Acta Phytocologica Sinica* 29: 479-486.
- Zhang W.J., Zhu W, and Hu S. 2005. Soil resource availability impacts microbial response to organic carbon and inorganic nitrogen inputs. *Journal of Environmental Sciences* 17: 705-710.

- Zhu, W.-X., N.D. Dillard, and N.B. Grimm. 2004. Urban Nitrogen Biogeochemistry: status and processes in green retention basins. *Biogeochemistry* 71: 177-196.
- Zhu, W.-X. and Carriero, M.M. 2004. Temporal and spatial variations in nitrogen cycling in deciduous forest ecosystems along an urban-rural gradient. *Soil Biology & Biochemistry* 36: 267-278.
- Zhu, W.-X. and Carriero, M.M. 2004. Soluble organic nitrogen and microbial nitrogen dynamics in deciduous forest soils: Neglected segments of the nitrogen cycle. *Soil Biology & Biochemistry* 36: 279-288.
- Kao, J. T., J. E. Titus, and W.-X. Zhu. 2003. Differential nitrogen and phosphorus accumulation by five wetland plant species. *Wetlands* 23: 979-987.
- Hope, D., C. Gries, W. Zhu, W.F. Fagan, C.L. Redman, N.B. Grimm, A. Nelson, C. Martin, A. Kinzig. 2003. Socioeconomics drive urban plant diversity. *PNAS* 100: 8788-8792.
- Zhu, W., J. Wu, and L. Zhang. 2002. Urban Ecology: an ecological field facing new challenges. In J. Wu and X. Han (eds.) *Lectures in Modern Ecology (II): from basic sciences to environmental issues*. Science Press, Beijing, China (in Chinese).
- Zhu, W.-X., and J. G. Ehrenfeld. 2000. Nitrogen retention and release in Atlantic white cedar wetlands. *Journal of Environmental Quality* 29: 612-620.
- Lovett, G.M., M.M. Traynor, R.V. Pouyat, M.M. Carreiro, W.X. Zhu, and J.W. Baxter. 2000. Atmospheric deposition to oak forests along an urban-rural gradient. *Environmental Science and Technology* 34:4294-4300.
- Zhu, W.-X., and J.G. Ehrenfeld. 1999. Nitrogen mineralization and nitrification in suburban and undeveloped Atlantic white cedar wetlands. *Journal of Environmental Quality* 28:523-529.
- Zhu, W.-X., and M. M. Carreiro. 1999. Chemoautotrophic nitrification in acid forest soils along an urban-to-rural transect. *Soil Biology & Biochemistry* 31:1091-1100.
- Ehrenfeld, J.G., W.F.J. Parsons, X. Han, R.W. Parmelee, and W. Zhu. 1997. Live and dead roots in forest soil horizons: contrasting effects on nitrogen dynamics. *Ecology* 78:348-362.
- Ehrenfeld, J.G., X. Han, W.F.J. Parsons, and W. Zhu. 1997. On the nature of environmental gradients: temporal and spatial variability of soils and vegetation in the New Jersey Pinelands. *Journal of Ecology* 85:785-798.
- Zhu, W., and J. G. Ehrenfeld. 1996. The effects of mycorrhizal roots on litter decomposition, soil biota, and nutrients in a spodosolic soil. *Plant and Soil* 179:109-118.
- Zhu, W., J.G. Ehrenfeld, R.W. Parmelee, W.F.J. Parsons, and X. Han. 1996. The effects of live and dead roots on soil fungi in spodosolic soils of the New Jersey Pinelands. *Biology and Fertility of Soils* 21:215-226.
- Ehrenfeld, J.G., W. Zhu, and W.F.J. Parsons. 1995. Above- and below-ground characteristics of persistent forest openings in the New Jersey Pinelands. *Bulletin of the Torrey Botanical Club* 122:298-305.
- Parmelee, R.W., J.G. Ehrenfeld, X. Han, and W. Zhu. 1995. Effects of dead Pine root inputs on soil fauna and the decomposition of dead roots in a spodosol soil from the New Jersey Pinelands. *Acta Zool Fennica* 196: 27-32.
- Zhu, W., J. Hu, R. Wu, and J. Zhou. 1991. The ecological relation between *Pinus taiwanensis* and fungi in the process of ectomycorrhizae synthesis. *Acta Botanica Sinica* 33 (5): 356-362.

## **SINO-ECO CLUB MEMBERSHIPS**

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Any individual with Chinese origin and at least one year of overseas professional in ecological fields, willing to recognize and follow the bylaws and paying the membership dues, shall be deemed to be eligible as a member. The due for Regular and Student Members in developed countries will be \$10 and \$5, respectively, for those in developing countries will be \$5 and waived, respectively. For new members, dues paid before March 1 will cover the current year and the following year; those paid between Oct. 1 and Feb.28 will be half of the due and will cover the current year. Donation is greatly appreciated. Please fill in the application form which may be downloaded from: <http://www.sino-eco.org/current/membership.htm> and sent it, with your check payable to SINO-ECO, to the treasurer (2002-4): Dr. Zhong Chen, School of Forestry, Northern Arizona University, Flagstaff, AZ 86011-5018 (US Dollars or equal foreign country's currency).

