

From SINO-ECO 2000-02 Committee to our members, friends and colleagues:

## ***Happy Thanksgiving To You and All Yours!***

### ***NEWSLETTER OF SINO-ECO***

November 20, 2000

Editor: Fang Gao

Contributors to This Issue: Wei Fang, Pu Mou, Yude Pan, Jianguo Wu, Changhui Peng, Qinfeng Guo, Junda Lin, Yegang Wu, Bai-Lian Li, Jay Bai, Shili Miao, Guanghui Lin (Contributors' initials are included after subtitles in each section. The editor has made some editing changes).

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#### ***News***

##### **1. Business Meeting between SINO-ECO and ESC (YP)**

By the request of the Sino-Eco Chair Committee, the Ecological Society of China (ESC) arranged a special business meeting with Dr. Yude Pan, the current president of Sino-Eco, during her visit in Beijing. The ESC's current committee members in Beijing attended the meeting. They were Chair of ESC, Dr. Wenhua Li, General Secretary, Dr. Rusong Wang, the committee members Dr. Ouyang Zhiyun, Ms Xue Yuangli and others. During the meeting, they discussed schemes for establishing more formal communication channels between ESC and Sino-Eco, such as exchanges of electronic newsletters and publications, starting a special column for each other in the newsletters. They also discussed opportunities to co-organize academic activities and exchanges between overseas and domestic ecologists. A suggestion for organizing ecologists from two sides to make a survey trip to the western China and a following-up workshop had raised a great interest. The participants of the meeting all believed a good chance for getting funds to support such a plan

in the future. After the meeting, Dr. Rusong Wang presented Dr. Yude Pan the certification of ESC board member representing Sino-Eco Club Overseas. The meeting was constructive and cheerful, all participants expressed strong willing to have more contacts in the future.

## 2. China Ecosystem Assessment Project-CEAP (GL)

A group of scientists in China, led by Academicians Drs. ZHANG Xinshi and SUN Honglie, has recently received a grant from National Science Foundation (NSF) and Chinese Academy of Science (CAS) to initiate a new project for assessing forest ecosystems in China. It is anticipated that the outcome of this project will be a series of recommendations to the Chinese government for reservation and protection of China's forests and the associated ecosystems. With this respect, the project is very similar to the US project led by FEMAT (Forest Ecosystem Management Assessment Team). The scientists in the homeland hope that some overseas Chinese scholars will participate in the upcoming project.

Dr. Guanghui LIN of Columbia University's Biosphere 2 Center, who has just come back from China, is the coordinator in charge of selecting and organizing overseas Chinese scholars who are willing to participate in CEAP. Guanghui is planning a workshop in mid December in Biosphere 2, in which a group of 11 scientists from the homeland will meet some overseas scholars and discuss some details of CEAP. So far, Sino-Eco members Drs. Yude PAN, Ye QI, Changhui PENG, Qinfeng GUO, Fang GAO, Paul MOU and Harbin LI have expressed interests and are likely to participate in the upcoming workshop. Obviously, this is another great opportunity for Sino-Eco to contribute to the scientific research and protection of environment and ecosystems in the homeland. (Editor: Thanks are due to Guanghui for bringing in the opportunity. FYI: Guanghui is also a senior member of Sino-Eco.)

## 3. ESA 2000 Annual Meeting in Retrospect (WF)

The ESA 2000 Annual Meeting was held at Snowbird, UT in Aug. 5-10, 2000. Most Sino-Eco members got together on Aug.8, Tuesday, at the Asian Section Mixer. Pu Mou and Wei Fang represented our Sino-eco Club to welcome new members. They are graduate students Jie Lin, Dali Guo, Zhong Chen, Shiyun Wen, and Professor Emeritus Dr. Jerry S. Olson. Dr. Olson has been doing a lot of collaborated research in China since he retired a few years ago.

Among the veterans, we saw Dr. Shenglei Fu, who recently got his Ph.D. from the Uni. of Georgia and currently works in UC Santa Cruz, Dept. of Env. Studies as post-doc; Dr. Weixin Zhu, who recently got a tenure track position in SUNY Binghamton; Drs. Weixing Chen, Quan Dong, Bailian Li, Jianguo Wu and Yiqi Luo.

## 4. WRSA 2000 International Symposium in Retrospect (FG JL, and YW)

The WRSA 2000 International Symposium was held in Beijing from August 8 to 11, 2000. The theme of this symposium was "The 21st Century China and Globalization: Problems and Countermeasures". This is the 5th Symposium of the Symposium Series on "21<sup>st</sup> Century China" organized by WRSA since 1996. The previous symposium was held and known as WRSA '96

(Beijing), '97 (Beijing), '98 (Beijing) and '99 (Washington, D. C.). SINO-ECO members Drs. Yegang Wu, Junda Lin, Changhui Peng, Jay Bai, and Fang Gao, along with 180 other overseas colleagues and about 220 domestic scholars, attended the 2000 Symposium.

In the evening of August 8, the attendants of the symposium had the honor of attending the opening ceremony and banquet in the Great Hall of the People. During the ceremony and banquet, SINO-ECO members met two persons worthwhile being mentioned: (1) Dr. WEI Yu, the deputy minister of the State Educational Committee, the former president of Nanjing Institute of Technology, who was one of the first scholars obtained doctorates from the western universities in early 1980s. A photo picture of SINO-ECO members with Dr. Wei is attached. (2) Dr. WANG Rusong, the current general secretary of the Ecological Society of China, who is a long-term friend of many SINO-ECO members.



From left to right in above photo, they are Peng Changhui, Gao Fang, Lin Junda, Deputy Education Minister Wei Yu, Wu Yegang, Yang Yongjia, and Tu Hanming, in the Great Hall of the People (Photo courtesy of Peng Cahnghui).

Junda and Fang co-chaired two sessions on "Environmental Protection and Sustainable Development." This was the second time that SINO-ECO members were in charge of the

environmental sessions of WRSA's symposium series (In the last WRSA international symposium, September 1999, Washington, D.C., Junda and Fang co-chaired two similar sessions). Junda, Fang and Yegang also gave presentations in these two sessions. Junda's speech was entitled "The management of oceanic bio-resources". Gao Fang's presentation was "For more effective environmental management in China". Yegang went far beyond and talked about "Environmental Century: the connections between environments and public health, economic development, social justice and national security".

Many of us believe that ecology is the foundation and backbone of environmental science and resources management. We ecologists should be the first to feel and understand the urgency of degradation of our environments, especially for our overseas Chinese toward China's environments. One can easily find out that China's forest resource is only 4% of the world coverage. Eighty percent of the rivers and lakes are seriously contaminated. Air pollution caused the death from lung cancer as high as 2 from every 10,000; acid rains happened in 30% of the nation. Environmental pollution has cost China 34.3 billion US dollars every year. The ironic thing is that there are few ecologists working in China's EPA and even fewer in water resource management, though China may be the first or the only nation to use the word "eco-environment". There is a lot needed to be done. SINO-ECO does have a role in China in the new century.

Fang, Junda, and Yegang, along with 14 other overseas colleagues, also jointed the post-symposium trip to Qingdao, where they met with local officials and colleagues from Qingdao Municipal Environmental Protection Bureau. Special topics discussed with those colleagues included urban development and protection, coastal ecology and economy, finance and cost in environmental protection, environmental regulations, water reservation and resources management in urban development, etc.

## 5. Documentation of Asia Ecology (JW)

To promote the scholarly exchange between ecologists in Asia and the United States, Asia Ecology Section of Ecological Society of America is developing a document on Asian ecology that summarizes the major developments and institutions in ecology in Asian countries. Ecological studies carried out by Asian ecologists have been obscure or invisible to western colleagues. To help alleviate this situation and facilitate international collaborations, this document is intended to be both an overview of and a guide to Asian ecology. It is expected to be published in the Bulletin of Ecological Society of America in Spring of 2001.

To prepare this document, we need your help. Please send information on any of the following categories to Dr. Jianguo Wu at Arizona State University at [jingle@asu.edu](mailto:jingle@asu.edu):

(A) Leading research institutions in ecology and leading ecologists in any Asian countries (full mailing address, email/web addresses if available), (B) Specific ecological projects that may be of interest to international ecologists, and (C) Important developments in specific ecological areas (e.g., wetland ecology, landscape ecology, urban ecology, population ecology, etc.) or ecology as a whole.

## 6. The 16th Annual Symposium of US-IALE (JW and FG)

The 16th Annual Symposium of US-IALE the U.S. Chapter of International Association of Landscape Ecology (US-IALE) will be held from April 25-29, 2001, in Arizona State University-West, Phenix, Arizona. Dr.Jianguo WU, a senior SINO-ECO member, is organizing and will chair this international symposium. The theme of this symposium is "Pattern, Process, Scale, & Hierarchy: Interactions in Human-Dominated and Natural Landscapes." The deadline for the submission of abstracts is November 30, 2000. Abstracts should be sent to Jianguo via e-mail at: [jingle@asu.edu](mailto:jingle@asu.edu) (Note: Only electronic submission will be accepted.).

For details regarding the symposium, its program and schedule, abstract submission, registration, contact information, etc., please visit the website: <http://www.west.asu.edu/leml/iale2001/>.

7. Dr. Jay Bai, formerly of MDSM Research Center at Fort Collins, Colarado, has recently set up a research-oriented firm in Hohhot, Inner Mongolia. The name of the company is Ecological Data Analysis Company (EDAC). His company's specialty is in vegetation classification and system temporal dynamic analysis. The company signed a contract with Beijing Spatial World Company which would be writing the computer programs and marketing the software. If someone has a huge amount of ecological data that need to be analyzed in a nontraditional way, he or she can contact Jay at [mdsmreasear@aol.com](mailto:mdsmreasear@aol.com) (This email is supposed to work in both US and China.).

## 8. The book: *Global Ecology: Climate Changes and Ecological Responses* (SM, FG and JL)

The book, '*Global Ecology: Climate Changes and Ecological Responses*', edited by Drs. FANG Jingyun, LIN Junda, and TANG Hongyan, will soon be published in China by Chinese Higher Education Press. The book contains a systematic and comprehensive collection of the up-to-date information on global climate change and its effects on ecology. It is anticipated that the book will have a significant influence on studies of global change and ecology in China. Sino-Eco members have contributed seven chapters and one appendix to the book. This is again a clear demonstration of our members' desire and capability to contribute to science, research and education in the homeland.

While celebrating the publication of the book, we would like to remind our colleagues that there is a lesson we should learn. As some of you may know, a chapter authored by three Sino-Eco members was removed from the book due to an unresolved dispute between the authors and the editors. In brief, the dispute was: the chapter was merged with significant changes into another two chapters after the peer-review process, due to content-overlap determined by the homeland editors, without consulting with the authors. The authors, after knowing this, disagreed on such a merge and felt that their right was violated. Here, we would like to highlight and recommend the followings to our colleagues for any future book collaboration with the colleagues in China.

- (1) To have editors in both the homeland and overseas is necessary.
- (2) The editors should be responsible, in addition to regular editing duties, for conducting necessary and timely communications between themselves and between the editors and authors.

- (3) After the acceptance of the revision based on peer review by either the homeland editor or the overseas editor, the revised chapter should be considered "finalized". Authors should be consulted for consent of any change to the finalized chapter, including editing changes. This is especially important due to the fact that the homeland colleagues and the overseas colleagues have different standards or views on editors' authorities and authors' rights.
- (4) The above should be included in an editor-author guideline at the beginning of any such joint effort.

We welcome any constructive suggestion from our members and colleagues in the homeland. We also want to announce that the removed chapter has been accepted for publication in the book, *Lectures in Modern Ecology II* (See next news item).

#### 9. The book: *Lectures in Modern Ecology (II)* (JW)

Many Sino-Eco members are authors or co-authors of the this book. Dr. Jianguo Wu, one of the chief editors, is pleased to report that all chapter manuscripts of the book have been reviewed and revised. Dr. Xingguo Han, another chief editor, and Mr. Jianhui Huang, a general editor, are talking to Science Press about the publication matters. We are trying our best to get the book in print as soon as possible, and will keep you posted on the progress.

If you are interested in the content of the book, visit the web site where you can down-load the chapters in Word format: [http://www.west.asu.edu/jingle/book\\_webpage/](http://www.west.asu.edu/jingle/book_webpage/). If you have suggestions and comments, please contact Jianguo at [jingle@asu.edu](mailto:jingle@asu.edu).

### ***Members' Recent Trips and Activities in the Homeland***

(1) Dr. Qinfeng Guo of Desert Laboratory at University of Arizona just returned to the US from a six-month research in both China and Japan on a NSF funded "disjunct plant taxa between eastern Asia and North America". During his trips to Asia, he conducted field surveys in Inner Mongolia (Ordos Desert), Yunnan, Sichuan, and Hebei and gave talks at the Chinese Academy of Sciences and several other Chinese and Japanese universities. He and his colleagues in China also formed several cooperative research plans on biodiversity and conservation in Asia. For more information, please contact Qinfeng at [qguo@geo.arizona.edu](mailto:qguo@geo.arizona.edu).

(2) Dr. Junda Lin of Florida Institute of Technology (FIT), visited Xiamen University and Shantou University in late August, 2000. Junda discussed potential collaborative research and education projects there. As a result of this visit, Professor and Dr. Changjiang Huang of Shantou University, an expert on harmful algal bloom, accepted Junda's invitation to FIT for a three-month visit, starting in December, 2000. A three-member team of marine biologists from Xiamen will have a short-term visit to Florida in late November, 2000. For more information, please contact Junda at [jlin@fit.edu](mailto:jlin@fit.edu).

(3) Dr. Jay Bai, formerly of MDSM Research Center at Fort Collins, Colorado, attended the ESC Sixth Conference at YangZhou, Jiangsu Province and then the National Biomath Conference at An

Shan, Liaoning Province. At both conferences, Jay presented papers on Multi Dimensional Sphere Model (MDSM) research. One of his paper, "The Application of an Ecological Model on Mutual Funds Investment Decision Making" has passed the peer review and will be published in November 2000 by the University of Inner Mongolian. Jay also taught two training classes at Hohhot and Beijing regarding the MDSM research. For more information, please contact Jay at [mdsmresearch@aol.com](mailto:mdsmresearch@aol.com).

(4) Dr. Changhui Peng of Ontario Forest Research Institute, Canada, visited the homeland in August and September, 2000. In addition to his attendance of the WRSA 2000 International Symposium (Please see News Item 4), he also participated in other activities. Here is Changhui's report.

It's my pleasure to share with and report to you my trip in China this summer (Aug. - Sept. 2000). I was invited by Prof. Guo Zhengtang at the Institute of Geology & Geophysics of the Chinese Academy of Sciences for the collaboration in the area of reconstructing Chinese terrestrial vegetation and carbon storage since the last glacial maximum, in which I have fortunately received a 2000 Wang K.C. Research Fellowship from the Chinese Academy of Sciences. I was asked to give a presentation on the effects of past climate change on Chinese terrestrial vegetation and carbon storage. During my short stay, I have also visited Dr. Guo's laboratory equipped with modern facilities and discussed with his group on future collaboration on the projects of "Chinese paleo-carbon". Because of this collaboration, I was invited as co-advisor for one Ph.D student in Prof. Guo's group (Mr. Haibin Wu) who is currently working on reconstructing the Chinese vegetation and carbon dynamics from paleoecological data and biosphere models.

In additional, I also visited the Department of Urban and Environment of the Beijing University, and Central-South Forestry University at my hometown (Hunan Province), and discuss potential collaborations for research projects in China. The most exciting thing for me was to meet SINO-ECO's old friend (Dr. Yegang Wu) and new friends (Drs. Junda Lin, Fang Gao and Jay Bai) during the WRSA Symposium in Beijing, where we had interesting and productive discussions, and nice chats and jokes (Of course, plus delicious food with other participants from both domestic and overseas at the Great Hall of the People).

## ***Recent Publications***

(The following is a list of publications of some SINO-ECO members in 1999-2000. The editor believes that these technical publications are representing our members' academic and professional achievements. The editor encourages our members to contribute to this section to demonstrate our accomplishments and share the information and joys with others.

Dr. Qinfeng Guo provided the following comment along with his publication list: "I think that such a list should list as many people (of Sino-Eco) as possible. Now we don't need to mail hardcopies and we are sending the newsletter electronically. So we would have enough space to do so. In the earlier issue, only a few people listed their publications. Maybe you can send an e-mail request to other people so we will be familiar with each other's work."

The editor will circulate a request via SINO-ECO network for the next newsletter. Please our members provide your input. In addition, Dr. Bai-Lian Li provides brief summaries for his publications. This is a good example. Please our members, if you have time, follow Bai-Lian's example. If you do not have much time, you can simply provide the abstracts)

**The followings are listed alphabetically on members' last names.**

***Mingkui Cao, Dept. of Environ. Sci., University of Virginia***

Cao, Mingkui, Li, Kerang. 2000. Progress in studies on ecosystem-climate interactions. *Advance in Earth Sciences*. 15: 446-452.

***Shenglei Fu, Dept of Environmental Studies University of California at Santa Cruz***

Fu. S., M. L. Cabrera, D. C. Coleman, K. W. Kisselle, C. J. Garrett, P. F. Hendrix, and D. A. Crossley, Jr. 2000. Soil carbon dynamics of conventional tillage and no-till agroecosystems at Georgia Piedmont: HSB-C models. *Ecological Modeling* 131:229-248.

Fu S., D.C. Coleman, P.F. Hendrix and D.A. Crossley, Jr. 2000. Responses of trophic groups of soil nematodes to residue application under conventional tillage and no-till regimes. *Soil Biology and Biochemistry* 32:1731-1741.

***Fang Gao, Delaware Department of Natural Resources and Environmental Control***

Yates, S.R., S.K. Papiernik, F. Gao, and J Gan. 2000. Analytical solution for the transport of volatile organic chemicals in unsaturated layered systems. *Water Resources Research*, 36: 1993-2000.

Gao, F., Y. Jin, S. Yates, S. Papiernik, M. Anderson, and M. Yates. Theory and laboratory study of a tall passive chamber for measuring gas fluxes at soil surface. *J. Air & Waste Management Assoc.* (in press).

***Qinfeng Guo, Desert Laboratory at University of Arizona***

Guo, Q. 2000. Climate change and biodiversity conservation in Great Plains agroecosystems. *Global Environmental Change*.

Cade, B., and Q. Guo. 2000. Estimating constraints to plant performance with regression quantiles. *Oikos*, 91:245-254.

Guo, Q., and R.E. Ricklefs. 2000. Species richness in plant genera disjunct between temperate eastern Asia and North America. *Botanical Journal of Linnean Society* 134:401-463.

Guo, Q., J.H. Brown, and T.J. Valone. 2000. Abundance and distribution of desert annuals: are spatial and temporal patterns related? *Journal of Ecology* 88:551-560.

Guo, Q., J.H. Brown, T.J. Valone, and S.D. Kachman. 2000. Constraints of seed size on plant abundance and distribution. *Ecology* 81:2149-2155.

***Bai-Lian (Larry) Li, Department of Biology, University of New Mexico.***

Li, B.-L. 2000. Fractal geometry applications in description and analysis of patch patterns and patch dynamics. *Ecological Modeling*, 132: 33-50.

In this paper, I summarize the state of the art and introduce several updated developments in analysis and description of patch patterns and patch dynamics by means of Mandelbrot's fractal analysis, with an emphasis on my current research results and a personal view. These topics include geometric fractals, statistical fractals, information fractals, the fluctuation-tolerant fractals of dynamic patch size and shape, patch hierarchical scaling, fractal spatial patterns, multiple scale sampling and data analysis, fractal fragmentation of the landscape habitat into patches, fractal correlation in patchy systems, fractal cluster dynamics of vegetation systems, fractal mechanisms and ecological consequences, the spatio-temporal integrated approach and so on. The ecological significance of fractals in patch pattern and patch dynamics is discussed. A case study on fractal analysis of patch dynamics of southern Texas savanna landscape is given. Several limitations of fractal analysis in ecological applications are also addressed.

Li, B.-L. 2000. Why is the holistic approach becoming so important in landscape ecology? *Landscape and Urban Planning*, 50: 27-41.

Landscape ecology is a way of thinking about the evolution and dynamics of heterogeneous landscapes. It is also viewed as the body of knowledge or facts about ecological space, spatial heterogeneity, and scaling. In this paper, I begin with mathematical formulation of the part-whole relation in ecological systems and show analytically why the ecological system can not be understood by reducing it to its parts, which is the central theme for all holistic approaches. Using Prigogine's self-organization theory and Haken's synergetics, I further illustrate sufficiency and necessity of such holistic approach to study how the cooperation of these subsystems of landscape brings about spatial, temporal and functional structures on macroscopic scales. Four fundamental principles that may govern these processes of self-organization of landscape are proposed. Several examples of applying this approach to theoretical and practical landscape problems are also given.

Li, B.-L., Wu, H. & Zou, G. 2000. Self-thinning rule: a causal interpretation from ecological field theory. *Ecological Modeling*, 132: 167-173.

The self-thinning rule is widely accepted as an empirical generalization and quantitative rule that applies across the plant kingdom. It has been called the only law in plant ecology. But the evidence supporting it has recently come under critical scrutiny. The theoretical and empirical bases for the density-mass boundary have been questioned. Here we use ecological field theory and statistical mechanics to show how the stochastic nature of ecological interactions among individuals, due to spatial field effects such as the availability of neighborhood resources at the microscopic level, leads to self-thinning at the macroscopic level. The self-thinning rule emerges as a natural result of our theoretical approach. Puzzling experimental data that contradict the rule are also explained.

**Guanghai Lin, Biosphere 2 Center, Columbia University**

Roden, J.S., Lin, G. and Ehleringer, J.R. (2000). A mechanistic model for interpretation of hydrogen and oxygen isotope ratios in tree-ring cellulose. *Geochim. Cosmochim. Acta*, 64: 21-35.

- Lin, G., Rygielwicz, P.T., Ehleringer, J.R., Johnson, M.G. and Tingey, D.T. (2000). Time-dependent responses of soil respiration components to elevated CO<sub>2</sub> and temperature in experimental forest mesocosms. *Plant and Soil* (in press).
- Lin, G. and Liu, H. Y. (2000). Interactions between terrestrial ecosystems and global change. In *Global Ecology: Climate Changes and Ecological Responses* (eds. J. Fang, J. Lin and H. Tang) (in press).
- Lin, G. (2000). Greenhouse Ecosystems: A book review on World Ecosystem Series 20 (invited). *Ecological Engineering* (in press).

***Junda Lin, Florida Institute of Technology***

- Salgado, C. P. and J. Lin, 1999. A comparison of encasement and traditional techniques for planting red mangroves (*Rhizophora mangle*). *Mangroves and Salt Marshes*, 3:215-225.
- Huang, C., Q. Dong, and J. Lin, 1999. Impact of global change on marine fisheries and adaptation options. *J. Oceanography in Taiwan Strait*, 18(4):481-494 (in Chinese)
- Sparsis, M., J. Lin and R. W. Hagood, Growth, survivorship, and nutrient uptake of giant clams (*Tridacna*) in aquaculture effluent. *J. Shellfish Res.* (in press)
- Lin, J., M. Sparsis, and R. W. Hagood. Growing giant clam (*Tridacna derasa*) in aquaculture effluent. *Aquarium Sciences and Conservation* (in press)
- Lin, J. (translator) Marine Species and Their Distributions in China's Seas. Krieger Publishing Company (in press).

***Shili Miao, South Florida Water Management District***

- S. L. Miao, P. V. McCormick, S. Newman, and S. Rajagopalan. 2000. Interactive effects of seed availability, water depth, and phosphorus enrichment on cattail colonization in an Everglades wetland. *Wetlands Ecology and Management*, 20: 1-9.
- B. Lorenzen, H. Brix, K.L. McKee, I. A. Mendelssohn, and S. L. Miao. 2000. Seed germination of two Everglades species, *Cladium jamaicense* and *Typha domingensis*. *Aquatic Botany*, 66:169-180.
- S. L. Miao, S. Newman, and F. H. Sklar. 2000. Effects of soil nutrients and seed sources on growth of cattail in the Florida Everglades. *Aquatic Botany*, 67:1-15.

***Yude Pan, Global Change Research Program, USDA Forest Service***

- Pan Y, McGuire AD, Melillo JM, Kicklighter DW, Sitch S, Prentice IC. 2000. A biogeochemistry-based successional model and its application along a moisture gradient in the continental United States. *Forest Ecology and Management* (in press).
- Pan Y, 2000. Plant functional types: their application to ecosystem properties and global change (Book Review). *Ecological Engineering* 16(2):305-307.
- Pan Y, Melillo JM, Kicklighter DW, Xiao X, McGuire AD. 2000. Modeling structural and functional responses of terrestrial ecosystems in China to changes in climate and atmospheric CO<sub>2</sub>. *Acta Phytocologica Sinica*. 24(4):513-526.
- Jenkins, JC, Birdsey RA, Pan Y. 2000. Potential biomass and NPP estimation for the Mid-Atlantic region (USA) using forest inventory data. *Ecological Application* (in press).

***Changhui Peng, Ontario Forest Research Institute, Canada***

- Peng, C.H. 2000. From static biogeographical model to dynamic global vegetation model: A

- global perspective on modelling vegetation dynamics. *Ecological Modelling*. 135: 33-54.
- Peng, C.H. 2000. Growth and yield models for uneven-aged stands: past, present, and future. *Forest Ecology and Management*. 132: 259-279.
- Peng, C.H. (2000). Understanding the role of forest simulation models in sustainable forest management. *Environmental Impact Assessment Review*. 20:481-501.
- Apps, M.J., J.S. Bhatti, D.H. Halliwell, H. Jiang, and C.H. Peng. 2000. Simulated carbon dynamics in the boreal forest of central Canada under uniform and random disturbance regimes. *Global Climate Change and Cold regions Ecosystems*. (eds. R.Lal, J.M. Kimble, B.A., Stewar), pp.107-122, CRC Press LLC, Boca Raton, Fla.
- Lin, H, C.H. Peng, and X.Y. Sun (2000). Geographic Information System in Forestry: Practices, problems and prospects. *Forest Studies in China*. 2:37-49.
- Peng, C.H., J. Liu, M.J. Apps, Q.L. Dang and W. Kurz. 2000. Quantifying Ontario's Forest Carbon Budget I. Carbon stocks and fluxes of forest ecosystems in 1990. Ministry of Natural Resources, Ontario Forest Research Institute, OFRI-Rep. 158.

### ***Hanqin Tian, Woods Hole Marine Biological Laboratory***

- Tian, H., J. M. Melillo, D. W. Kicklighter, A. D. McGuire, J. Helfrich, B. Moore III and C. J. Vörösmarty. 2000. Climatic and biotic controls on annual carbon storage in Amazonian ecosystems. *Global Ecology and Biogeography*. 9:315-336.
- Tian, H., C. A. S. Hall and Y. Qi. 2000. Increased biotic metabolism of the biosphere inferred from observed data and model. *Science in China, Series B (Chemistry)*. 40(1):58-68.
- Schimel, D., J. Melillo, H. Tian, D. McGuire, D. Kicklighter, T. Kittel, N. Rosenbloom, S. Running, P. Thornton, D. Ojima, W. Parton, R. Kelly, M. Sykes, R. Neilson and B. Rizzo. 2000. Contribution of increasing CO<sub>2</sub> and climate to carbon storage by ecosystems in the United States. *Science*. 287:2004-2006.

### ***Student Corner***

1. The following is a list of our student members (WF).

- (1) Jie LIN, Graduate student at Rice University. E-mail: linjie@rice.edu
- (2) Dali GUO. Graduate student at Virginia Tech. E-mail: dguo@vt.edu
- (3) Zhong CHEN. Graduate student at Northern Arizona Univ. E-mail: zc2@spruce.for.nau.edu
- (4) Shiyun WEN. Graduate student at Univ. of Puerto Rico. E-mail: swen@upracd.upr.clu.edu
- (5) Wei FANG, Graduate Student at State Uni. of New York at Stony Brook.  
E-mail: weifang@life.bio.sunysb.edu

2. Tomorrow's Professor (WF)

Ms. Fang Wei recommends a website for our students and postdocs: "Tomorro's Professor" at <http://sll.stanford.edu/projects/tomprof/newtomprof/index.shtml>

They issue articles related to career development twice a week, and there are over 10,500 subscribers in 86 countries. The site is produced by the Stanford University Learning Laboratory

(SLL) (<http://sll.stanford.edu/>) in a shared mission partnership with the American Association for Higher Education (AAHE) (<http://www.aahe.org/>) and The National Teaching and Learning Forum (NT&LF) (<http://www.ntlf.com/>).

Anyone can SUBSCRIBE to Tomorrows-Professor Listserver by sending the following e-mail message to: [Majordomo@lists.stanford.edu](mailto:Majordomo@lists.stanford.edu) "subscribe tomorrows-professor".

### 3. Debate on Dismissal and Transfer of Chinese Students

(Editor: In our last newsletter, we raised this issue for discussion. The following are some responses.)

(1) From Junda Lin, Associate Professor, Department of Biological Sciences, Florida Institute of Technology.

"Regarding the more complicated issues of firing students. I share the frustration w/ the faculty and support his decision to fire the student, but also understand the desire of the students. I have had so far four graduate students from China (one more coming in the spring of 2001), two of them have already left for computer sciences, both under good terms. I understand their needs and desire for better-paid jobs and the chance to stay in US, so I was supportive. My feeling is that as long as they fulfill their duties (which the student in the firing case was not), then they have a right to transfer (after all, this is America!). We have to realize the reality and be more selective and flexible. Sure, it bothers me that a lot of applicants promise everything in order to come. I'm on the dept.'s Graduate Admissions Committee. Almost every applicant from China, like from many other countries, claims in the application statement that (s)he will return to his/her motherland after finishing the degree here. But I've not seen a single one return! I frankly respect their wishes, as I myself decided to stay here. I do not put much weight on the recommendations, statements, or promises on applicants from China, sadly to admit. I use my contacts in China to weed out the opportunists."

Editor's response: " Your comments will be presented in the next newsletter. Frankly, I anticipate that no definite answer of being right or wrong will be obtained from such debate, even though I take the professors' side. My intention is to let both sides know the positions and feeling of another side. And providing some advise or experience to those involved."

## ***People On Move***

1. Dr. Pu (Paul) Mou has recently accepted a faculty position at University of North Carolina at Greensboro. His new address is: Department of Biology, 235 Eberhart Building, University of North Carolina, Greensboro, NC 27402. E-mail: [ppmou@vt.edu](mailto:ppmou@vt.edu), phone: (tentative) 336-334-5391.

2. Dr. Jay Bai, formerly of MDSM Research Center at Fort Collins, Colorado, moved back to his hometown, Hohhot, Inner Mongolia, China. Please see News Item 6 for details.

3. Dr. FU Shenglei and Dr. Weixin Zhu have also moved. Please see News Item 3.

## *Career Opportunities*

### **(1) Faculty in Marine Biology/Ecology (JL)**

The Department of Biological Sciences at Florida Tech invites applications for a faculty position in Marine Biology/Ecology starting August 2001. Preference given to candidates with interests in population, community, or ecosystem dynamics in subtropical and tropical environments. Rank and terms of appointment depends on qualifications and experience. Two years of postdoctoral experience and evidence of accomplishments in research and teaching required. Candidates must develop a program of scholarly activity that includes undergraduate and graduate teaching, an externally funded research program, and the mentoring of graduate students for the M.S. and Ph.D. Submit curriculum vitae, three letters of recommendation, and statements of research and teaching interests by January 15, 2001, to Dr. Jon Shenker, Department of Biological Sciences, Florida Institute of Technology, 150 West University Blvd., Melbourne, FL 32901. Florida Tech is an Equal Opportunity Employer.

**(2) From the Editor:** Since most of the job opportunities are time sensitive (i.e., with deadlines), most of our members have posted such announcements immediately on the network, which is absolutely encouraged. The newsletter will re-post only those with extended deadlines, such as the one above.

Many of our members, especially senior members, have successful, as well as unsuccessful, experiences in job hunting. Those experiences are extremely valuable to other members, especially for our student members. We will cordially solicit job hunting and interview experiences from our members, and if successful, we will introduce those experiences starting from the next newsletter. For this issue, the editor provides the following basics to those, primarily our student members, who are looking for or going to look for jobs.

(1) Permanent US federal government jobs require US citizenship. However, research oriented institutions, such EPA research labs, DOE research labs, USDA research labs, can accept applicants with green cards and citizenship application in process (i.e., application for citizenship has been submitted). Post-doc positions in those labs DO NOT require citizenship and green card. Many foreign scholars obtain post-doc positions in those labs, then apply for green cards with support from advisors, and finally obtain citizenship. The job openings can be found from, in addition to newspapers and magazines, the websites of most federal agencies. Inner connections are important factors for obtaining these positions.

(2) Most state government jobs do NOT require citizenship, but green card. Some state agencies advertise their job openings nationwide in newspapers, professional magazines and journals, and other media. But most state agencies post their job openings only locally within the states. Those openings can be found from the websites of most state agencies. Most states tend to hire their employees within the states since the state agencies are supported primarily by the state budgets. In addition, state government jobs are permanent, but usually requiring 6-month to 12-month probation.

(3) University faculty positions are the least demanding for immigration status, but the most demanding for academic excellence and training. As long as you have a valid visa (F, H, J), you can be accepted for a university faculty position, and most of the time the university will help you obtain your green card. Almost all universities advertise their faculty positions nationwide and/or worldwide to collect as many applicants as possible from everywhere. Post-doc positions are ample today in almost all good universities. Those positions are usually used by recent Ph.D. graduates as a transition to future permanent positions.

(4) Private industries offer jobs to non-immigrants (i.e., without green card) with moderate to good pays. Most of them promise to help obtain green cards, but some companies do not. Usually, large companies offer good paying jobs as well as help for green card, but small firms tend not to. Private companies have many options to hire, advertising nationwide, locally, or within the company. Connections to the inside are important factors for getting such positions.

### ***For Your Information (FYI)***

#### 1. Application for Chinese National Natural Science Foundation (CNSF)-Oversees Scholars (FG)

The CNSF has a special fund to support collaboration between colleagues in the homeland and those residing outside the country. The title of the fund is "Research Fund for Young Outstanding Overseas Chinese Scholars". General procedures of application include: (1) An overseas scholar (the visitor) sends his/her research intent and plan to a potential collaborator in China, (2) The homeland collaborator (the host) organizes and develops the grant proposal and send it to CNSF. Basic requirements: (1) Both visitor and host are preferably younger than 45, (2) The host will provide research environment for the visitor, (3) the visitor should work at the host's place for two months (cumulative, as determined by the visitor and host). The fund is open to all fields of natural science. The amount of fund for one collaborative project is from 300,000 to 600,000 for a 2-3 year period. Sino-Eco members who are interested in the fund can contact Mr. TANG Xifang, Director of Hong Kong, Macau, and Overseas Affairs of CNSF.

#### 2. Sino-Eco Members as Peer Reviewers for CNSF (JL)

At the WRSA International Symposium (see News Item 2), Sino-Eco members Fang Gao and Junda Lin discussed the possibility of Sino-Eco members serving as peer reviewers for relevant grant proposals for Chinese National Science Foundation (CNSF) with Mr. TANG Xifang, the Director of Hong Kong, Macau, and Overseas Affairs of CNSF. Mr. Tang highly appraised our intent to participate in the review process. Appropriate members may provide written reviews or even participate in panel discussions in China. Upon Mr. Tang's suggestion, Junda followed up with a letter to Mr. Tang as a formal and written document for CNSF to consider (The letter was copied to Dr. Yude Pan, the current Sino-Eco president). Information about further development will be provided when available.

#### 3. SINO-ECO Website (YW and WF)

Not many people know that Sino-Eco has its website: <http://www.calink.org/~sino-eco>.

Any one will be deeply impressed by the scenic view of the Great Wall when he/she opens the title page of the site. The current version of the website was developed primarily by Dr. Yang Yuelong in 1996 and an excellent job was done at that time. In addition to Sino-Eco information and activities, Yuelong provided many links to other relevant sites about China and other academic organizations. Please visit the site.

### ***Your Help Needed***

1. The contents of Sino-Eco's website are somewhat out-of-date. Sino-Eco needs a volunteer as a webmaster to continue Dr. Yang Yuelong's efforts. If you are interested, please contact us.

### ***Membership Due***

We have only two months left for year 2000. Wei Fang, the Treasurer of SINO-ECO, takes the honor to kindly remind our dear members to pay their annual membership fees. This club has been a nurturing ground for our fellow ecologists in the past decade. Your membership fees and support would help sustain such a nurturing environment for our friends, colleagues and especially coming new fellows. Please show your compassion and support to this club. It means a great deal to all of us.

Regular membership: \$10; Student membership: \$5; Donation is welcome.

Payable to: SINO-ECO Club.

Send to: Wei Fang  
Department of Ecology and Evolution  
SUNY at Stony Brook  
Stony Brook, NY 11794-5245

### ***Editor's Note***

This is the second newsletter since the SINO-ECO 2000-02 term started in June 2000. I believe that our members are now familiar with the format and contents of the newsletter. As the chief editor appointed by the Chair Committee, I cordially encourage and invite any positive and constructive inputs from our members, as well as our friends and colleagues who are currently not SINO-ECO members. Starting from the next newsletter, I will circulate a request in SINO-ECO network for newsletter inputs, approximately two weeks before I start the newsletter. However, inputs are welcome at any time. Our plan is to issue one newsletter every three months. Also, if you have any suggestion or idea for improving our newsletter, please do not hesitate to let us know.