

NEWSLETTER OF SINO-ECO

August 30, 2001

Editor: Fang Gao

Contributors to This Issue: Wei Fang, Yude Pan, Changhui Peng, Junda Lin, Yegang Wu, Bai-Lian Li, Weixin Chen, Harbin Li, Qinfeng Guo, Xianzhong Wang, Zhong Chen (Contributors' initials are included after subtitle of each item. The editor has made some editing changes).

<i>Table of Contents</i>	Page
News	1
Members' Profiles	4
Recent Publications	8
Student Corner	9
People on Move	12
Career Opportunities	14
Your Help Needed	19
Membership Update	19
SINO-ECO Treasurer's Report	21
List of SINO-ECO 2000-2002 Chair Committee Members	22
Appendix 1: SINO-ECO in Brief (Chinese and English Versions)	23
Appendix 2: WRSA 2001 International Symposium in Tianjin	28
Appendix 3: Forum on the Development of Fujian High-Tech Industry	37

News

1. The ESA 2001 Annual Meeting (YP)

The ESA 86th Annual Meeting was held in Madison, Wisconsin. Eight years ago (1993), the ESA had another annual meeting on the University of Wisconsin campus. The return of the ESA reflected Wisconsin to be a favorite place of the society, just like Snow Birds, Utah. This year's meeting was held in the magnificent Monona Terrace Convention Center, designed by the legendary Wisconsin architect in 1938 and was eventually realized in 1997. The Conventional Center is a curvilinear building and faces beautiful Lake Monona. Although weather in Wisconsin was very hot during the meeting time, the wonderful scenery of the vast lake and water did fresh your mind and cool down your feeling.

The theme of this year's ESA meeting is "Keeping All the Parts: Preserving, Restoring & Sustaining Complex Ecosystems". It was adapted from a quotation in many years ago by the famed Wisconsin ecologist, Aldo Leopold, described as the first principle of conservation. The theme is still full of vitality, and maybe even more critical and inspiring for our thinking when we confront the ecological problems that we try to solve today.

There were about 20 Sino-Eco members participating this year's meeting. Some of them just became brand new members in this year's gathering activities. If you had attended the ESA meetings in last couple of years, you may notice that there were more and more vigorous young ecologists with Chinese background appeared in the meetings. They are really new blood of the Sino-Eco Club and represent a promising future of our organization.

The ESA Asian Ecology Section, chaired by the Sino-Eco Club member, Dr. Yiqi Luo, has had close connection with our Club from its beginning. This year, a symposium sponsored by the AES on the subject "Philosophy of ecology in the eastern and western civilizations", invited a bunch of eastern and western ecological thinkers to give talks and attracted many audients. The symposium was very successful. The Club member, Dr. Ye Qi, had a talk titled "Integration of man and nature, the Yin and Yang of sustainability", seemed to raise a lot of interests of the audients and became a topic in the chats of our members. In the ASE mixer, as usual, many Club members showed up and had pleasant time of chatting. The party was continuing even after the event.

The traditional gathering together dinner in Chinese restaurant was happened in Wednesday evening, about 20 people went to the dinner. Our members had nice chatting and some jokes around. Only one thing we missed was the performance that everyone was asked to give, either singing a song or telling a joke, in the old days. Maybe we become more shy and westernized. We should resume this program in our future gathering. After the dinner, the mood of conversation was still animated. Therefore, our members went to a hotel and kept chatting until the midnight. The topics went on broadly. We talked ecology, collaboration, and professional behaviors, science ethics, the opportunities in helping ecological research and students in China. . . .

We have to say, the ESA meeting is a serious ecological science meeting but also an important social meeting for ESA members. Our Sino-Eco Club members are spread all over the country and the ESA meeting could be only one meeting providing chance for us to meet each other once a year. It is a wonderful opportunity for our members to exchange ideas, set up connection and even collaboration, and of course, to increase our friendship during this magnificent ecology meeting. Next year's ESA will meet in Tucson, Arizona. Our Club Senior member and local resident, Dr. Jianguo Wu, had already invited friends to visit his home. For all of our old and new friends, we hope to meet you next year in Tucson, you can not miss it!

2. Western Returned Scholars Association (WRSA) 2001 International Symposium (YW, FG)

The WRSA will organize its 2001 Special International Symposium, entitled "The 21st Century China and International Competition in the Human Capital Market" from December 21 to 24, 2001 in Tianjin, China. This is the sixth of the "21st Century China" symposium series. Since 1996, WRSA, together with more than 50 overseas professional organizations, has sponsored five symposia: "the 21st Century China and New Generation Overseas Chinese Scholars" (1996, 21st Century China and the Historical Mission of Contemporary Youth" (1997, Beijing), "the 21st Century China and International Competition" (1998, Beijing), "the 21st Century China and the Challenge of Sustainable Development" (1999, Washington), and "the 21st Century

China and Globalization: Problems and Countermeasures” (2000, Beijing). Each year the symposium held both at home and abroad has attracted hundreds of domestic and overseas specialists and professionals.

In the '96 symposium, President Jiang Zemin met with attendees and gave a 45-minute speech. President Jiang Zemin encouraged WRSA and overseas scholars to continue the mission of bridging China and overseas by connecting with returned scholars, caring for their work and life, conveying their suggestions and needs. It is highly recognized that, as citizen ambassadors, returned and overseas Chinese scholars play an important role in promoting social and economic exchanges between China and other countries in the world.

Previous symposia topics cover different subjects ranging from the role of overseas scholars, sustainable development, and international economic competition to the challenge of globalization. Each symposium consists of four to five panel discussions or round-table meetings focusing on major issues related to the development of science and technology, education, economics and trade, and social sciences in China.

Apart from the support of over 50 overseas professional organizations in sponsoring the symposium series, the WRSA has each year obtained strong supports and endorsements from various government institutions and organization, such as the Chinese People's Political Consultative Conference, the China Overseas Friendship Association, Ministry of Personnel, Ministry of Science and Technology, Ministry of Education, the Chinese Academy of Sciences, the China Association for Science and Technology, the State Commission of Natural Science Foundation and so on..

Since WRSA's symposia fit very well SINO-ECO's missions and tasks, SINO-ECO has been an active overseas sponsor for these symposia. Many SINO-ECO members have participated the previous symposium and played important roles (please see SINO-ECO's last year newsletter). SINO-ECO's president has been a member of the important organizing committee. This year, Dr. Yude Pan, the current president, assumes this role in the organizing committee. In addition, Dr. Yegang WU of SINO-ECO is a member of symposium's scientific committee and the overseas contact person for the Tianjin's symposium.

A detailed symposium description is attached at the end of this newsletter (Please see Appendix 2). If you are interested in attending this year's symposium in Tianjin, please contact Yude at ypan@fs.fed.us, or Yegang at ywu@sffwmd.gov, or Dr. Jiansheng Zhang, Deputy Secretary General of WRSA at wrsa@public3.bta.net.cn.

3. Forum on the Development of Fujian High-Tech Industry : Economic Globalization in the 21st Century (JL)

Forum on the development of Fujian high-tech industry: economic globalization in the 21st century will be held from December 26 to 27 in Fuzhou, Fujian, China. This forum is scheduled immediately after the WRSA 2001 International Symposium in Tianjin. Fujian provincial government will invite 30-50 delegates to attend this forum.

1. Dr. Yude Pan, Global Change Research, USDA Forest Service

Dr. Yude Pan of USDA Forest Service, and the current president of SICO-ECO (2000-2002), attended the Global Change Open Science Conference held in Amsterdam from July 10 to 13, 2001. Here is Yude's report on the conference.

Global Change Open Science Conference Held in July Amsterdam

Organized by three major international global change research programmes, the International Geo-Biosphere Programme (IGBP), the International Human Dimensions Programme on Global Environmental Change (IHDP) and the World Climate Research Programme (WCRP), the Global Change Open Science Conference had been held in Amsterdam, Netherlands from July 10-13, 2001. About 1200 scientists from more than 100 countries attended the Conference. The theme of the conference was "Challenges of a Changing Earth", reflecting critical issues addressed in the speech of the Opening Ceremony by IGBP Chair, Prof. Berrien Moore III: "The Earth System has moved well outside the range of natural variability exhibited over the last half million years at least. The nature of change now occurring simultaneously in the global environment, their magnitudes and rates, are unprecedented in human history, We must face these multiple and global challenges with incisive scientific attacks and determined policy action... must confront the full range of challenges from the perspective of an integrated human nature system...".

This Conference originated as a first IGBP-wide open science conference for the IGBP embarked synthesis project that has pulled together all the older projects, analyzed and synthesized what they have learned about the Earth System over the past decade. However, a joint effort on Earth Science involving IGBP, IHDP and WCRP has increased markedly. More recently, the fourth international global change programme, DIVERSITAS, joined the group, bringing research on biodiversity into the Earth System perspective. The IGBP synthesis project and collaborative research among IGBP, IHDP, WCRP and DIVERSITAS formed the scientific base for the Conference. The Conference presented the latest scientific understanding of natural and human-driven changes on our planet and examined the effects on our societies and lives, and explored what the future may hold.

During the meeting time (July 11-13), the Conference had organized 4 plenary sessions with 12 subjects, 21 parallel subject sessions, and 2 poster sessions with 8 themes. Many leading scientists on Global Change Science had given their talks in the plenary sessions. Together with the presentations in the parallel sessions and poster sessions, the Conference demonstrated the rich variety of research on the physical aspects of Earth System, biogeochemical cycles and biological processes, and the human dimensions of global change. In the last day, the Conference focused on the quest for global sustainability and presented the visionary and creative new approaches needed for this great challenge.

The Amsterdam Declaration, drafted by the leadership of the four international global change programmes and endorsed by strong majority of the Conference participants, put on a successful ending period for the Conference. The Declaration represented the voices from the scientific communities of global change research, to alert the world about the reality of global

chance and the urgent need for action. As a participant, I have learned important message from the Conference: the accelerating human transformation of the Earth's environment is not sustainable.

-as-usual" way of dealing with the Earth System is not an option. I have realized that, as an ecologist, it is our responsibility to concern the issues of future earth vulnerability and habitability, and contribute our research to meet the challenge of a changing Earth. Global change problem is not only a scientific issue, but also an ethical and development issue for our human being. We are not living in an irony tower and have to face it and combat it.

For more information about the Amsterdam conference, please check the website: <http://www.sciconf.igbp.kva.se>, and contact Yude at ypan@fs.fed.us.

2. Dr. Junda Lin, Florida Institute of Technology

Dr. Junda Lin has been appointed the Director of Vero Beach Marine Laboratory (VBML), Florida Institute of Technology. VBML is a four-acre facility on the Atlantic Ocean with direct access to clean seawater. The facility includes an office and laboratory main building, another two-story building housing flow through and recirculated tank systems, greenhouses, twelve large outdoor tanks ranging from 4,000 to 11,000 gallons, five 1,000 gallon recirculated indoor broodstock conditioning and spawning systems with photothermal control, and circa 200 other tanks ranging from 10 to 700 gallons. Seawater is pumped directly from well points under the beach through a duplicate pumping system with generator backup. The main building includes well-equipped wet and dry laboratories and offices. Faculty, students, and two collaborative aquaculture companies are conducting research in aquaculture, marine ecology, coastal processes projects at the facility. If you are interested in Junda's lab, please contact him at jlin@fit.edu.

3. Dr. Harbin LI, USDA Forest Service

Dr. Harbin LI, a senior research scientist with the Center for Forested Wetlands Research, USDA Forest Service Southern Research Station, is helping organize the first international wetland symposium in China. From his report below, our readers can learn some basics of China's wetland situation. Sino-Eco members are encouraged to participate in the symposium. Please contact Harbin at hli@fs.fed.us for details.

Nanjing International Symposium on Forested Wetlands in 2002

Dr. Carl Trettin and I visited China in March 2001. We were representing USDA Forest Service in a major effort to organize an international symposium on wetlands ecology and management in China. Our trip was successful. I was really happy to see some old friends, and to make a few new ones. I specially enjoyed the good meals that we have missed over the years. Long live the Chinese cuisines!

Seriously, I'd like to share with you the information about the symposium. If you would like to help or participate, please let me know.

The international wetland symposium is to be held in Nanjing, China, from September 7 to September 12, 2002, with 2-5 day field trips afterward. The announcement and the first call for papers will be sent out soon. The symposium is co-organized by Nanjing Forestry University, Chinese Academy of Sciences, USDA Forest Service Southern Research Station, US Geological Survey, and Society of Wetlands Scientists of USA. The symposium organization committee in China is co-chaired by Sam Cao (Nanjing Forestry University) and Hua Ouyang (CAS Institute of Geographical Sciences), while the organization committee in US is co-chaired by Carl Trettin (USDA Forest Service) and Glenn Gutenspergen (Society of Wetlands Scientists of USA). The objective is to provide a forum to discuss current research that contributes to the science of wetland ecology and the development of environmentally and economically sound integrated resource management plans. Topics of the symposium include: forested wetland ecology, hydrology, wildlife ecology, biogeochemistry (including carbon sequestration), restoration, assessment of climate change impacts, and sustainable management. Each of these topics is central to the conservation and management of wetlands, and to the development of an integrated land and water management program for forested wetland landscapes. The targeted audience of the symposium includes scientists, faculty, land and water resource managers, conservationists, and students.

This Nanjing symposium is the first international symposium on wetlands ecology and management in China. It will be a critical first-step to heighten the awareness of the ecological roles of wetlands and to advance wetlands research in China. The symposium will provide not only a forum to exchange scientific information, but also a synthesis on the state-of-the-art knowledge on wetlands ecology, management, and restoration. China faces a tremendous challenge in balancing economic development and environmental quality because of the high demands on agricultural production and water resources. Because of the ill-advised agricultural policies in the 1950's and 1960's, a huge acreage of China's wetlands has been destroyed or reclaimed as croplands. In many instances, productive lakes were partially filled for grain production. The mismanagement of the recent past has left deep scars in wetlands ecosystems around the country. In addition, problems of habitat degradation, decreasing biodiversity, pollution, soil erosion, water quality, flooding, and lake and estuary eutrophication either are consequences of wetland destruction or may be alleviated by proper management and restoration of wetlands. In fact, with the policy changes in the 1990's, some provinces have started programs that will return large areas back to wetlands. However, a lack of research on wetlands ecology, management, and restoration poses problems for those large-scale restoration projects. The international wetland symposium will bring wetlands experts from China and overseas together, advance wetlands research in China, and provide some needed guidelines for wetlands management. Such a state-of-the-science symposium will provide a current assessment of wetland research, findings and information needs.

4. Dr. Qinfeng GUO, US Geological Survey in North Dakota

In May 2001, Dr. Qinfeng Guo was invited by the Japanese Society for Plant Systematics to give a presentation in a special symposium to commemorate the establishment of the organization. The title of his paper is "Life history, diversity, and distribution of Japanese pteridophytes". A plant taxonomist from Harvard University was also invited to present in the symposium. Their papers were published in the symposium proceedings, and the hard copies should be formally published sometime next year.

Background: In 2000, during his 3-month visit to the University of Tokyo, Qinfeng joined the Japanese taxonomists and ecologists in the preparation to combine Japan Society for Plant Taxonomists and Japan Society for Plant Geography into one organization, i.e., the current Japanese Society for Plant Systematics. The Japanese colleagues highly appreciate Qinfeng's work and contribution to their reorganization effort. Qinfeng's paper was based on his 3-month work in the University of Tokyo. For details, please contact Qinfeng at qguo@usgs.gov.

5. Dr. Changhui Peng, Ontario Forest Research Institute, Canada

In June 2001, Dr. Changhui Peng was invited, as a senior visiting scholar, to visit the Key Laboratory for Earth Surface Processes (KLESP) of the Ministry of Education of the Center for Ecological Research and Education at Beijing University. During this short visit, from June 5 to 24, Changhui was collaborating with Professor Jingyun Fang at the KLESP on the research issues of Chinese forest carbon and productivity.

In addition, Changhui has recently accepted a position of Associate Professor with the Department of Atmospheric Sciences, the College of Earth Systems, South Dakota School of Mines & Technology at Rapid City, South Dakota, USA. He and his family will move to Rapid City in October 2001. His new address will be available shortly. Congratulations, Changhui!

6. Dr. Xianzhong Wang, Indiana University-Purdue University at Indianapolis

Dr. Xianzhong Wang, a new member of SINO-ECO, has recently accepted a tenure-track faculty position in the Department of Biology at the above university. Xianzhong started the new position on August 1, 2001. Before then, Xianzhong was a post-doctoral research scientist at Lamont-Doherty Earth Observatory, Columbia University.

Xianzhong's research centers on the effects of global environmental change on plant physiology and productivity at the cell, organismal and ecosystem levels. His specific interests are: (1) Effects of elevated atmospheric carbon dioxide (CO₂) on plant respiration; (2) The interaction of other environmental factors, e.g. soil nutrients, with elevated CO₂ in affecting carbon sequestration at the individual and ecosystem levels; (3) Physiological adaptation of plants to their changing environments; (4) How global change will affect male and female individuals of dioecious species; (5) Statistical synthesis of published results using meta-analysis. It is obvious that his research is interdisciplinary in nature and aims at understanding the responses of plants to the abiotic environment. Xianzhong's mailing and e-mail addresses are:

Dr. Xianzhong Wang
Assistant Professor
Department of Biology
Indiana University Purdue University Indianapolis
723 West Michigan St.
Indianapolis, IN 46202
Email: xzawang@iupui.edu

Congratulations, Xianzhong, and welcome to SINO-ECO!

Recent Publications

(The following is a list of recent publications of some SINO-ECO members. 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.

1. Dr. Bai-Lian LI, University of New Mexico.

Li, B.L., 2001. Applications of fractal geometry and percolation theory to landscape analysis and assessment. In: M. E. Jensen and P. S. Bourgeron (Eds.), *Guidebook for Integrated Ecological Assessments*, Springer-Verlag, New York, pp. 200-210.

Li, B.L., 2001. Fuzzy statistical and modeling approach to ecological assessments. In: M. E. Jensen and P. S. Bourgeron (Eds.), *A Guidebook for Integrated Ecological Assessments*, Springer-Verlag, New York, pp. 211-220.

Li, B.L. and Charnov, E.L., 2001. Diversity-stability relationships revisited: scaling rules for biological communities near equilibrium. *Ecological Modelling*, 140: 247-254.

Wang, X., Wang, J., and **Li, B.L.**, 2001. Developing a sustainable development indicator via knowledge mining. *Int. J. Sustainable Development and World Ecology*, 8(2): 119-126.

Wu, H., Lu, J., **Li, B.L.**, 2000. A coupled oscillatory model mimicking avian circadian regulatory systems. *J. Biological Physics*, 26: 261-272.

2. Dr. Junda Lin, Florida Institute of Technology

Lin, J. and D. Zhang. Reproduction in a simultaneous hermaphroditic shrimp, *Lysmata wurdemanni*: any two will do? *Marine Biology*, 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. and D. Zhang. Effects of broodstock diet on reproductive performance of the peppermint shrimp *Lysmata wurdemanni*, *J. Shellfish Res.*, in press.

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

Cai, L., **J. Lin**, and H. Li. Macroinfaunal communities in organic-enriched mud flat at

Shenzhen and Hong Kong, China, Bull. Mar. Sci., in press.

3. Dr. Jianguo Wu, Arizona State University

Dr. Jianguo Wu of Arizona State University has recently published a book entitled *<Landscape Ecology: Pattern, Process, Scale and Hierarchy>* in China. The following is the English summary that appears on the back cover.

“*Landscape Ecology: Pattern, Process, Scale and Hierarchy* is a comprehensive account of the basic concepts, theories, methods and applications of landscape ecology. The book provides a synthesis of various new ideas and theories since 1980s and discusses new directions of the field. A variety of methods in landscape pattern analysis and modeling are introduced in details with examples. The author views landscape ecology as both a rapidly developing field of study as well as a new ecological paradigm that emphasizes the interactions among pattern, process, scale and hierarchy. Thus, the book not only introduces the basics of landscape ecology, but also demonstrates how the landscape paradigm can facilitate the developments of other fields (e.g., population, community, and ecosystem ecology). This book should be useful to researchers and practitioners in biology, ecology, environmental sciences and other earth sciences, and may be used as a text book for undergraduate and graduate students.”

For more information about the book, our readers can contact Jianguo at jingle@asu.edu. Please note that Jianguo has changed his mailing address and telephone number (Please see *People on Move* Section).

Student Corner

1. Learn Some History of Ecology (JW, WF, FG)

About two years ago, the editor met Dr. Jianguo Wu in Beijing and heard his advice to some ecology graduate students, from Beijing Normal University and Chinese Academy of Science, about the importance of learning some history of ecology. In a lively evening discussion among Sino-eco members during this year’s ESA annual meeting, Jianguo mentioned a list of readings of historical ecology that would help us, especially the Chinese graduate students who received their college education in a very different culture, to understand the formation of ideas and intellectual contribution of individuals in this field.

The editor knows in person two ecologists who are very familiar with ecology history. One is Jianguo, a senior SINO-ECO member, now an internationally well-known expert in landscape ecology and a successful researcher and educator in ecology at Arizona State University (Please see another two news items about Jianguo in this issue of Newsletter). Another person is Dr. Xingguo Han, a senior member and former president of SINO-ECO, now the Director of Research Institute of Botany, Chinese Academy of Science.

Why to learn some history of ecology? The answer is clear: the knowledge will contribute to your success in your career in ecology. Here is the reading list recommended by Jianguo.

- Egerton, F. N. 2001. A history of the ecological sciences, Part 2: Aristotle and Theophrastos. *Bulletin of the Ecological Society of America* 82: 149-152.
- Egerton, F. N. 2001. A history of the ecological sciences: Early Greek origins. *Bulletin of the Ecological Society of America* 82: 93-96.
- Egerton, F. N. 1973. Changing concepts of the balance of nature. *The Quarterly Review of Biology* 48: 322-350.
- McIntosh, R. P. 1974. Plant Ecology: 1947-1972. *Annals of the Missouri Botanical Garden* 61: 132-165.
- McIntosh, R. P. 1980. The Background and Some Current Problems of Theoretical Ecology. *Syntheses* 43: 195-255.
- McIntosh, R. P. 1985. *The background of ecology: Concept and theory*. Cambridge University Press, Cambridge.
- Golley, F. B. 1993. *A History of the Ecosystem Concept in Ecology: More Than the Sum of the Parts*. Yale University Press, New Haven.
- Kingsland, S. E. 1995. *Modeling Nature: Episodes in the History of Population Ecology*. University of Chicago Press, Chicago.

2. Scientific Writing (WF)

With kindly permission of Drs. Doug Futuyma and Jessica Gurevitch of Dept. of Ecology and Evolution, SUNY Stony Brook, here cited is their memo to graduate students regarding scientific writing.

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To: First-year E&E graduate students

From: Douglas Futuyma and Jessica Gurevitch

Subject: Writing

We list below some references that should be useful guides to writing in general, and scientific writing in particular. We very strongly urge that you acquire some of these references, familiarize yourself with them, and use them. Together with a good dictionary, they should have as important place on your bookshelf as your copy of *Biometry*.

Many students (and biologists generally) don't seem to recognize that good writing is part of the process of doing good science. You aren't doing science if you don't communicate your results, and that means that writing is one of the most important parts of your career. This implies, at the least, that you are as obliged to be precise and accurate in your writing as you are in your experimentation or observation. But beyond that, the care and style you use conveys messages to your audience, who will make judgements about your scholarship and your clarity of thought

from your use of language. Seemingly trivial errors of punctuation can change the meaning of a sentence or make it ambiguous; errors of grammar and spelling can send the signal that you are careless, unscholarly, or downright uneducated; developing good versus poor style can determine whether your colleagues enjoy reading your work, or stop at the end of the abstract unless they find it absolutely necessary to wade through verbal sludge. Your writing can influence reviewers' reactions; one of us recently recommended rejection of a manuscript on scientific grounds, but was so annoyed by the author's poor style, dreadful grammar, and error-filled literature citations that any temptation to recommend resubmission rather than rejection was easily resisted.

No matter how good your writing is, it can be improved, and the more you write, the easier the process becomes. Some people feel constitutionally incapable of spelling; if so, they should be sure to ask a friend to read their work and help them find errors. If you weren't taught English grammar, and don't know how to punctuate or match the number of a verb to its subject, you can start to learn from Strunk and White or other references provided below. Whatever you write, reread it carefully and revise it after letting it sit for a few days. As a well-known writer wrote, "Revise, revise, revise!"

W. Strunk and E. B. White, *The Elements of Style*. MacMillan. [This very short classic should be required reading. If you learn and apply everything in this book, you will be a better writer than almost any you read in our journals.]

H. W. Fowler, *A Dictionary of Modern English Usage*. Second edition revised and edited by Sir Ernest Gower. [A third edition, revised by someone else, has appeared. Very prescriptive, but very clear. If you're not sure how to use "lie" and "lay," when to use colons and semicolons, or whether or not "enthuse" is a legitimate verb, this is the book for you.]

The Chicago Manual of Style (University of Chicago Press). [Very comprehensive coverage not only of English usage, but also of manuscript preparation, copyediting, and almost everything else required for publishing papers or books.]

J. R. Matthews, J. M. Bowen and R. W. Matthews. *Successful Scientific Writing: A Step-by-step Guide for the Biological and Medical Sciences*. Second edition, Cambridge University Press 2000. [Looks very useful. Covers issues of grammar, punctuation, style, and special problems such as plurals of scientific terms derived from Latin, as well as methods of presenting data, organizing a manuscript, and going through the process of publication.]

V. E. McMillan, *Writing Papers in the Biological Sciences*. Bedford/St. Martin's, Boston, Third edition 2001. [Similar to Matthews et al., but has more on searching for literature and nothing on publication. Also covers oral and poster presentations, research proposals, and other forms of writing.]

Booth, Vernon. 1993. *Communicating in Science: writing a scientific paper and speaking at scientific meetings*. 2nd ed. Cambridge Univ. Press, Cambridge. [Somewhat similar to the two above, with a bit of a different perspective, and more on presenting papers at meetings; also useful.]

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3. You are encouraged to contribute to SINO-ECO's achievements (FG, WF)

Our student members are cordially invited to participate in all SINO-ECO activities. Such participation will enhance your capabilities to contribute to science, learn career examples in ecology, initiate spirit of teamwork and collaboration, strengthen your academic credentials, and make friends in the field. For example: I remember that my first technical paper published in China was the chapter that I contributed to SINO-ECO's first joint effort, the book "*Advances in Modern Ecology*" about 10 years ago when I was a graduate student. I have been told that since then many Chinese colleagues in wastewater pollution control have referred to that chapter.

In particular, you are encouraged to contribute to the Student Corner section of our newsletter. It is YOUR section. You ARE responsible for making it better. You can pose questions, comments or generate discussions regarding your graduate school life in this section. The more we share, the more we all learn.

People On Move

1. Dr. Zhong CHEN from Northern Arizona University to University of Michigan

Dr. Zhong Chen finished his Ph. D at Northern Arizona University in May of 2001 and started immediately his postdoc research fellow position with Department of Ecology and Evolutionary Biology at University of Michigan. Zhong's current research is to assess the effects of elevated CO₂ on the growth of C₃ and C₄ grasses and their insect herbivores. He knows that some SINO-ECO members are also working on the elevated CO₂ issues, and is looking forward to joining them. Congratulations, Zhong!

2. Dr. Bai-Lian Li from University of New Mexico to UC-Riverside

Dr. Bai-Lian Li has accepted a senior tenured faculty position at University of California-Riverside, starting on July 1, 2001. He and his research group will move to UC-Riverside in the mid September, 2001. Bai-Lian will provide his new contact information after he gets to UCR.

3. Dr. Jianguo Wu, Arizona State University

Dr. Jianguo Wu has moved his office and research group/laboratory from ASU's West Campus at Phoenix to the Tempe Campus (East Phoenix). Please note the changes in his mailing address and telephone/fax numbers. His e-mail address remains the same.

Dr. Jianguo (Jingle) Wu

Assoc. Professor of Landscape & Systems Ecology

Department of Plant Biology, Arizona State University

PO Box 871601, Tempe, AZ 85287-1601. Ph: (480) 965-1063 Fax: (480) 965-6899

Email: jingle@asu.edu. Web site: <http://www.public.asu.edu/~jingle/>

4. Dr. Song Bo, from University of Wisconsin-Madison to Clemson University

Past: Postdoctoral Fellow
Department of Forest Ecology and Management
University of Wisconsin - Madison

Present: Assistant Professor
Belle W. Baruch Institute of Coastal Ecology and Forest Science
Clemson University
P.O.Box 596, Georgetown, SC 29442-0596
Email: bosong@clemson.edu
Phone: 843-545-5673
Fax: 843-546-6296
Web: <http://people.clemson.edu/~bosong>

Congratulations!

5. Dr. Jiquan Chen, from Michigan Tech to University of Toledo

Dr. Jiquan Chen, former SINO-ECO president, has recently moved to University of Toledo. Here is his new contact information.

Dr. Jiquan Chen
Landscape Ecology & Ecosystem Science (LEES)
Earth, Ecological and Environmental Sciences (EEES)
Bowman-Oddy Laboratories, Mail Stop 604
University of Toledo
Toledo, OH 43606-3390
Office Ph: (419) 530-2664; Lab Ph: (419) 530-2246; Fax: (419) 530-4421
Email: jchen4@utnet.utoledo.edu

Career Opportunities

1. Postdoc and Graduate Position at University of Delaware (FG)

We are seeking for a **postdoctoral research associate** (2-year appointment) and a **graduate student** (preferably at Ph.D level) to study the effect of colloids on virus survival and transport in porous media. Funding for both positions is available September 2001.

- Project: *Groundwater contaminated with pathogenic microorganisms has been implicated in more than 70% of all waterborne disease outbreaks in the United States. Because viruses can travel long distances in soil and groundwater aquifers and pose a public health threat at a very low level, it is critical to understand all the processes/mechanisms controlling*

their survival and transport in the subsurface in order to establish regulations that are protective of public health. A potentially important mechanism responsible for virus transport is via colloid facilitated transport, which has been largely overlooked in previous studies. In this project we will conduct a comprehensive study to systematically investigate the three major processes that potentially contribute to the importance of colloid-facilitated virus transport: (1) virus association with colloids, (2) virus survival characteristics in the presence of colloids, and (3) co-transport of viruses and colloids under various environmentally relevant conditions. This project integrates experiments at microscopic (molecular) and macroscopic (batch and column) scales. Virus sorption/desorption on soil minerals and soils will be studied in batch systems to assess virus retention/viability under various experimental conditions. Atomic Force Microscopy (AFM) will be used to analyze the localized virus adsorption on colloid surfaces. Transport and co-transport of viruses and colloidal particles will be studied through conducting a series of laboratory column experiments under both saturated and unsaturated water flow conditions.

- *Candidates:* The postdoctoral researcher and the graduate student will work closely together sharing all responsibilities (batch experiments, AFM imaging, column experiments) of the project. More detailed assignments for each position will be based on the unique educational and research background, and laboratory skills of each candidate.

We seek candidates who have training in the area of fate and transport of contaminants in porous media. Desirable expertise includes conduction of sorption/desorption, kinetics, and transport experiments, and use of molecular scale techniques and approaches. Applicants with background in soil science (physics, chemistry) and other related fields such as engineering and geosciences are encouraged to contact:

Dr. Yan Jin, Associate Professor of Soil Physics
Department of Plant and Soil Sciences
University of Delaware
Newark, DE 19717-1303
Phone: (302) 831-6962
Email: yjin@udel.edu

Or

Dr. Donald L. Sparks, Distinguished Professor of Soil Chemistry and Chair
Department of Plant and Soil Sciences
University of Delaware
Newark, DE 19717-1303
Phone: (302) 831-8435
Email: dlsparks@udel.edu

2. Analytical Chemist Position in Baltimore (FG)

ChemPacific Corporation offers contract research, custom chemical, and API manufacturing service. The state-of-the-art research and development facilities in Baltimore, Maryland, are equipped with 200MHz NMR and other modern analytical instruments that provides customers

flexible, high quality and cost-effective products and services. The company has one position opening:

Analytical chemist

An M.S. or higher degree in Analytical Chemistry or related field is desired, experience preferably in analytical chemistry, but not necessary. The position will require to use HPLC and other chromatography, to use GC, GC-MS, IR and UV/Vis instruments, to write SOP and protocol for cGMP process. The position will test raw materials, intermediates, metabolites, in-process samples, and other samples. Report to Director of R & D Department. The company will sponsor H1 visa and permanent residence visa if applicable. Please contact

Dr. Dean D. Wei, Ph.D
ChemPacific Corporation
6200 Freeport Center
Baltimore, MD 21224
Tel: (410) 633-5771, Fax: (410)633-5808
E-mail: dwei@chempacific.com, website: <http://www.chempacific.com>

3. Postdoc Positions at University of California-Riverside

Dr. Bai-Lian (Larry) LI has two postdoc positions open in the near future at UC-Riverside. The following is Larry's announcement originally sent out on July 29, 2001.

I have decided to accept a tenured, senior faculty position and move my research group to University of California-Riverside this late summer. I will have 1-2 postdoctoral research associate or equivalent positions open. Although the funding is available now, due to my moving and lab renovation, I plan to hire a person for the first position in winter or spring quarter 2002. Applicants should have strong mathematical, statistical, computational and communication skills, with research interest in ecological complexity and modeling. The successful candidate must be highly motivated and passionate for doing research, not just for a job. Whether or not you have an academic degree is not important. The initial appointment will be for one year, with the possibility of extension to 2-5 years, subject to continued productivity. The position is renewable on a five-year basis. The initial salary ranges between \$34,000 and \$38,000, depending on experience.

Please notice that I only hire people I know their work well and highly productive. I have had 5 postdoctoral fellows during the last 4 years; all of them have published more than 3 journal papers per year and landed a tenure track or tenured faculty position. I encourage my postdocs to develop their own idea or project. For your own idea or project, you don't need to co-author with me. (I have plenty stuff needed to write up myself anyway. Last year I published 8 journal articles. This year I already published 5 papers, another 7 in press, and we submitted more than 11 papers this summer as well.) If you believe that you are the right person for the positions, you should initiate the contact with me. You can send your cv to this e-mail address. If you plan to attend the ESA Meeting at Madison next week, we can also talk there. Please do NOT send me anything if you are not qualified for the position. Thanks.

If you are interested in the position, please contact Larry at larry@sevilleta.unm.edu (Larry: Please provide your new e-mail address after you get to UCR).

4. Plant Physiological Ecologist, Tenure-track Assistant Professor (WC)

The Department of Environmental Studies at the University of California, Santa Cruz seeks a Plant Physiological Ecologist for a tenure-track appointment at the Assistant Professor level. We seek applicants who will contribute to the departmental goal of addressing global environmental problems from an interdisciplinary perspective while providing specific strength in the field of plant physiology, particularly in the areas of plant-water relations, photosynthesis, stress tolerance, biogeochemical cycling, agroecology, conservation, and restoration ecology.

We seek a plant physiological ecologist with expertise in the following areas: (a) plant responses to the environment; (b) impacts of anthropogenic increases in carbon dioxide, temperature, precipitation and pollutants on plant functions; (c) scaling of functional phenomena from molecular to global scales; and (d) the impact of plant responses to global climate change and their impact on social systems.

The Department of Environmental Studies at UCSC includes both social and natural scientists and emphasizes communication and collaboration across disciplinary boundaries. The successful candidate will be expected to interact strongly with students and faculty whose research interests include agroecology, conservation biology, environmental policy, and political economy. Applicants for this position should have an enthusiastic and creative interest in teaching and mentorship at both the graduate and undergraduate levels. In accordance with campus-wide priorities at UCSC, the Department is building its research specialization in global- and regional-scale processes. The department and campus feature a range of facilities for plant physiological ecology research, including a fully-equipped GIS laboratory, the Center for Agroecology and Sustainable Food Systems, the UCSC Arboretum, the UCSC Campus Natural Reserve, and access to many UC Natural Reserve sites.

RANK: Assistant Professor

SALARY: \$46,100 - \$51,400, commensurate with qualifications and experience.

MINIMUM QUALIFICATIONS: Ph.D. in Environmental Studies, Biology, Botany, Plant Physiological Ecology, or other related field. Ph.D. must be in hand no later than June 30, 2003. Candidates are expected to show evidence of teaching ability, an established research program, and a commitment to collaboration across disciplinary boundaries.

POSITION AVAILABLE: July 1, 2002

APPLICATION: Interested applicants should submit a letter of application discussing their research agendas and teaching interests, three to five publications, three letters of recommendation (all letters will be treated as confidential documents) and a curriculum vitae to:

Chair, Search Committee
Environmental Studies Department
University of California
1156 High Street
Santa Cruz, CA 95064

Please refer to position #585-02 in your reply

CLOSING DATE: Applications must be received by October 15, 2001. All application materials should be received by deadline because review of files will begin immediately after the deadline.

This is also posted at <http://www2.ucsc.edu/ahr/academic.htm>

5. Distinguished Visiting Scholar with NOAA's (JL)

NOAA'S Great Lakes Environmental Research Laboratory (GLERL) is pleased to announce the initiation of the GLERL Distinguished Visiting Scholar Program. Appointments for up to 12 Months are open to candidates with at least 5 years post-doctoral experience in all areas of research complementary to the laboratory's current programs including: Ecosystem and Food Web Dynamics, Non-indigenous Species, Aquatic Contaminants and Biogeochemistry, Hydrodynamics and Physical Processes, Climate Change, and Water Resources (www.glerl.noaa.gov).

Please submit a brief (2 page) proposal describing the planned research, collaborations, proposed products and resources required, along with a curriculum vitae to:

Peter Landrum
NOAA GLERL
2205 Commonwealth Blvd
Ann Arbor, MI 48105

Submission must be received by Friday, November 2, 2001. Preference will be given to candidates who can collaborate with GLERL's principal investigators. For more information contact Peter Landrum at (73)741-2276, or Landrum@glerl.noaa.gov.

6. Post-Doctoral Positions at Georgia Tech (JL)

Georgia Institute of Technology (Georgia Tech) Schools of Biology, Chemistry and Biochemistry, and Civil and Environmental Engineering are searching for as many as 6 Post-Doctoral Fellows to join an interdisciplinary group in Aquatic Chemical Signaling and Ecology.

Georgia Tech's new program in Aquatic Chemical Signaling invites recent Ph.D.s to apply for post-doctoral positions working with faculty and graduate students in a collaborative, interdisciplinary, and well-funded research effort combining chemistry, ecology, fluid dynamics, and sensory biology and physiology. We are especially interested in candidates who bridge

disciplinary borders between chemistry, biology and physics, or in highly trained scientists from a single discipline who now want to broaden their approach to include interdisciplinary questions. Positions are available on the main campus in Atlanta and at Georgia Tech's new marine facility at Skidaway Island, Ga. Also see www.biology.gatech.edu.

(1) Two NSF IGERT Post-doctoral Fellows These are multidisciplinary positions spanning chemistry, ecology, fluid dynamics, and sensory biology and physiology. We seek applicants to conduct research and help train IGERT graduate students at the juncture of two, or more, of the above disciplines. This program is devoted to training graduate students and post-docs in investigations of how chemical signals are produced, transported, received, and processed in aquatic systems, as well as the role of chemical signaling in affecting population and community structure. Selected candidates may have considerable flexibility in choices of processes (defense, mate selection, prey sensing) and systems (coral reefs, plankton, microbes) to investigate. One position will be on campus at Georgia Tech, the other at Skidaway Island. For questions contact Dr. Mark Hay at mark.hay@biology.gatech.edu or any of the IGERT faculty listed at <http://www.biology.gatech.edu/igert.htm>.

(2) Dreyfus Foundation Environmental Chemistry Post-doc Candidates should have a Ph.D. in organic, biological, or analytical chemistry, and be interested in applying their skills to ecological and environmental questions. The postdoc can choose among a broad range of projects focused on aquatic chemical signaling in systems such as coral reefs, rivers, lakes, or the open ocean plankton, exploring the role of chemistry in defending organisms from natural enemies (e.g. predators, competitors, parasites), in sexual attraction and mate tracking, in locating food, etc. Previous experience in ecology or environmental research is not required; instead, this opportunity is intended to enable a trained chemist to contribute to a new research area. Field and laboratory resources and training in ecological techniques at our Atlanta campus and at our marine lab on Skidaway Island, GA, are available. For questions, contact Dr. Julia Kubanek at julia.kubanek@biology.gatech.edu.

(3) Phytoplankton Chemical Ecology We seek candidates with expertise in the natural products chemistry of phytoplankton, phytoplankton ecology, culturing techniques, and/or phytoplankton-grazer interactions to work with a NSF Biocomplexity funded multidisciplinary group investigating the direct and cascading effects of chemical signaling in affecting interactions between *Phaeocystis* and its natural enemies. This position will be located at Georgia Tech's new marine facility at Skidaway Island, Ga. For questions, contact Dr. Mark Hay at mark.hay@biology.gatech.edu.

(4) Freshwater Chemical Ecology and Plant-Herbivore Interactions We seek candidates with expertise in the ecology of aquatic macrophytes or invertebrates, in macrophyte-herbivore interactions, and/or chemical defenses of aquatic macrophytes. Experience with aquatic systems in the southeastern United States is desirable. The position will be located on campus at Georgia Tech. For questions, contact Dr. Mark Hay at mark.hay@biology.gatech.edu.

(5) Soft-Substrate Marine Ecology We seek candidates with experience in experimental studies of factors affecting the population and community structure of marine soft-substrate communities. An interest in chemical signaling will be advantageous. This position will be located at Georgia Tech's

new marine facility at Skidaway Island, Ga. For questions, contact Dr. Mark Hay at mark.hay@biology.gatech.edu.

Salaries range from \$32,000-36,000/yr with benefits. Applicants should send a resume, up to 3 reprints, a statement of research interests, and have 3 letters of references sent to: Aquatic Post-doc Search, School of Biology, Georgia Institute of Technology, Atlanta, GA 30332-0230. Applications will be considered beginning October 15, 2001. Georgia Institute of Technology is a unit of the University System of Georgia and an affirmative action/equal opportunity employer.

Your Help Needed

1. The 2000-02 Chair Committee plans to update our website. We definitely hope that some members with webpage managing experience will take charge of this effort. Another effort would be to create links to our members' home page. If you have your homepages ready and are willing to have them linked to SINO-ECO website, please provide your homepage addresses (to Dr. Shili Miao, or any of the Chair Committee member listed at the end of this newsletter).
2. From Fang Gao: I am looking for a fundamental map of China, with English names and notes, for a research project. I need to add some notations and explanations on the map. If you have or know where to get such a map, please help (fgao@state.de.us). Thanks in advance.

Membership Update

1. Welcome New Members (WF)

The following is list of our new members who joined SINO-ECO this year (up to today):
Welcome to Sino-Eco!

<u>Name</u>	<u>E-mail Address</u>
He, Jixiang	jhe@mailbox.syr.edu
Ji, Wei	jiwei@umkc.edu
Liu, Xiaozhong	xliu@ou.edu
Zhu, A-xing	axing@geography.wisc.edu
Li, Jiahong	sico2@titan02.ksc.nasa.gov
Wang, Xianzhong	xzwang@ldeo.columbia.edu
Wan, Shiqiang	swan@ou.edu
Cheng, Yufu	ycheng@sunstroke.sdsu.edu
Hui, Dafeng	dafeng@ou.edu
Ding, Xiaoping	xding1@bigred.unl.edu
Jiang, Lin	ljiang@eden.rutgers.edu
Song, Xianzhi	xs1704@silver.sdsmt.edu
Chen, Xuexia	xuexiachen@hotmail.com

Wang, Xinghuo

harryxhw@plateautel.net

2. Free Copy of Book “Global Ecology: Climate Change and Ecological Response”

The above book has been recently published in China by the Higher Education Press and Springer Press. SINO-ECO members have contributed about 50% of the book contents. The SINO-ECO 2000-02 Chair Committee would like to inform our student and postdoc members that a free copy of the book will be available for each of you sometime in late November 2001. Please send your request and an accurate mailing address to Ms. Wei Fang, SINO-ECO's treasurer, at weifang@life.bio.sunysb.edu, by October 1, 2001. Wei will check your membership status for the free-copy offer.

Other members can get a copy of the book at a cost of \$5 (\$3 for book \$2 for shipping). Please send Wei your request and check, payable to SINO-ECO Club, by October 1, 2001.

3. Members Directory Update

The 2000-02 Committee is planning to update our members directory. If you hope that your contact information is included in the new directory, please send the following to Dr. Shili Miao at smiao@sfwmd.gov before October 1, 2001.

Name:

Work phone: Fax: , E-mail:

Work Address:

Current status or title:

Work and/or Research Area(s):

Home Address: (Optional), phone: (optional), e-mail: (optional)

4. Membership Due

SINO-ECO membership is counted on a calendar year basis. Our members should pay due in November-December time frame for the coming calendar year, so that a whole-year membership is guaranteed.

If you pay your membership fee at any time during a calendar year, your membership is valid for that year, unless you specify that the due is for the next calendar year.

Regular membership: \$10;

Student and postdoc membership: \$5;

Donation is always welcome.

Payable to: SINO-ECO Club.

Send to: Wei Fang

Department of Ecology and Evolution

SUNY at Stony Brook

Stony Brook, NY 11794-5245

SINO-ECO Treasure's Report

Dear Sino-Eco members and friends,

The new SINO-ECO 2000-2002 Chair Committee would like to inform you the operation (income and spending) of our membership due/donations during Aug. 2000-Aug. 2001, and welcome your comments and suggestions on how to do it better.

In Aug. 2000, a total of \$1855.02 was transferred from the Treasurer of the previous Chair Committee. Over one year period, we have received a total of \$505.00, including membership dues of \$360 and donations of \$145, from active members. The two expenses during this period, after thorough discussion among Chair Committee members, were \$150 donation to WRSC01 as a sponsor organization and \$95 to cover one third of the traditional get-together dinner bill (for a group of 19 members) during 2001 ESA meeting. That leaves us a total of \$2142.02 in the bank (maybe slightly more due to the bank interest).

In year 2000, we had 18 active members (members who paid their membership dues that year), among which 6 were new members and 5 were graduate students. In year 2001 (up to mid-August), we have 32 active members, among which 14 are new members and 9 are graduate students. We are happy to see more and more friends in our society and we need your continuing support.

One issue frequently discussed among the Chair Committee members is that how we can use our limited money to better serve the purposes and missions of our society. Besides the free book copies of recently published *Global Ecology: Climate Change and Ecological Responses*, one recent suggestion is to set a graduate student award through Ecological Society of China to encourage dedicated and outstanding ecology graduate students in China. We are very eager to hear your comments and suggestion regarding this issue and related matters. You can e-mail to any of the Committee members.

Cheers,
Wei Fang, SINO-ECO Treasurer 2000-02

SINO-ECO 2000-2002 Chair Committee Members

Yude Pan, President (ypan@fs.fed.us)
Shili Miao, Vice President (smiao@sfwmd.gov)
Wei Fang, Treasurer (weifang@life.bio.sunysb.edu)
Paul Mou, Public Affairs (ppmou@uncg.edu)
Fang Gao, General Editor (fgao@state.de.us)

Appendix 1: SINO-ECO In Brief

As one effort to enhance SICO-ECO's public awareness in China, Dr. Yude Pan has suggested that a brief description of the organization be prepared for general public and colleagues in China. The first version of the brief (drafted by the editor) , with a Chinese version and an English version, is hereby attached for distribution. You are encouraged to use this brief to introduce SINO-ECO to your friends and colleagues in China, as well as in US and other countries. Suggestions and comments from our members are welcome.

THE SINO-ECO CLUB OVERSEAS

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The SINO-ECO Club Overseas

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SINO-ECO in Brief

The SINO-ECO Club was proposed by 20 Chinese students during the 1988 Ecological Society of America (ESA) Annual Meeting, held in August 1988 at University of California's Davis campus. After the annual meeting, Jianguo Wu, Yegang Wu and Xinyuan Wu (the so-called "Triple Wu") worked intelligently and wholeheartedly as organizing coordinators for a whole year until the club was formally established in the US and its first president was elected in 1989. The following is the list of SINO-ECO presidents since 1989: Drs. Jianguo Liu, Xingguo Han, Pu Mou, Jiquan Chen, Xi He, Quan Dong, Ye Qi, Guanghui Lin, Junda Lin, and Yude Pan (the current president).

Now, SINO-ECO is a non-profit academic organization registered in the State of Delaware, USA. The club has more than 100 members, most of them hold doctorate degrees and are working in universities, research institutes, and government agencies in the US and Canada. It has also some members in other western countries, and in China. The president of SINO-ECO is a standing board member of the Ecological Society of China.

SINO-ECO's Purposes and Missions

SINO-ECO's purposes and 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 foreign ecologists, through which mutual understanding and cooperation can be enhanced.

SINO-ECO takes the tasks of promoting and enhancing development of China's ecology and related disciplines as its noble missions.

Highlights of SINO-ECO Activities and Accomplishments

Since its establishment, SINO-ECO members have been working diligently to fulfill its missions. Some highlights of the club's activities and achievements are described below.

Many SINO-ECO members have been participating in active collaborations with the domestic colleagues. Such collaborations include, but are not limited to, the followings:

conducting joint research and co-authoring technical papers, lecturing and organizing workshops, introducing new methods and technologies, and consulting for central and local governments. SINO-ECO members in the US also sponsor and/or arrange visit of domestic scholars to the US.

Many SINO-ECO members are now renowned scholars and experts in their individual fields. Many of them have been appointed by domestic institutes, universities and governmental agencies at various levels to be scientific and technical advisors, adjunct and visiting professors, and consulting experts on various environmental and ecological issues.

On behalf of SINO-ECO, its members have participated in editing or co-editing 4 books published in Chinese: (1) *Advances in Modern Ecology*, 1992, Jianguo Liu, Editor-in-Chief (club member). All Chapters of the book are written by SINO-ECO members. (2) *World's Large Dams and Their Environmental Impacts*, 1996, Yegang Wu at al., Editors (all club members). All chapters are written by SINO-ECO members. (3) *Global Ecology: Climate Change and Ecological Responses*, 2000, Junda Lin, Co-editor (club member). Approximately 50% of the book contents is written by SINO-ECO members. (4) *Lecture in Ecology (Vol. II)*, 2001, Jianguo Wu and Xingguo Han, Editors-in-Chief (both club members). Approximately 70% of the book contents is written by SINO-ECO members. In addition, it is estimated that SINO-ECO members have published thousands of scientific and technical papers in their individual fields.

Current Leaders and Contacts

The routine operation of SINO-ECO is managed by its president who chairs an operating committee. For the term of 2000-2002, the president and the committee members are as follows:

President and Committee Chair: Dr. Yude PAN, USDA Forest Service,
e-mail: ypan@fs.fed.us

Vice President: Dr. Shili MIAO, South Florida Water Management District,
e-mail: smiao@sfwmd.gov

Treasurer: Ms. Wei FANG, State University of New York at Stony Brook,
e-mail: weifang@life.bio.sunysb.edu

Public Affairs Coordinator: Dr. Paul MOU, University of North Carolina,
e-mail: ppmou@uncg.edu

General Editor: Dr. Fang GAO, Delaware Department of Natural Resources,
e-mail: fgao@state.de.us

We welcome colleagues from all over the world to contact us for potential collaborations.

21st Century China and Globalization: Problems and Countermeasures” (2000, Beijing). Each year the symposium held both at home and abroad has attracted hundreds of domestic and overseas specialists and professionals.

Previous symposia topics cover different subjects ranging from the role of overseas scholars, sustainable development, and international economic competition to the challenge of globalization. Each symposium consists of four to five panel discussions or round-table meetings focusing on major issues related to the development of science and technology, education, economics and trade, and social sciences in China.

Apart from the support of over 50 overseas professional organizations in sponsoring the symposium series, the WRSA has each year obtained strong supports and endorsements from various government institutions and organization, such as the Chinese People's Political Consultative Conference, the China Overseas Friendship Association, Ministry of Personnel, Ministry of Science and Technology, Ministry of Education, the Chinese Academy of Sciences, the China Association for Science and Technology, the State Commission of Natural Science Foundation and so on..

In the '96 symposium, President Jiang Zemin met with attendees and gave a 45-minute speech. President Jiang Zemin encouraged WRSA and overseas scholars to continue the mission of bridging China and overseas by connecting with returned scholars, caring for their work and life, conveying their suggestions and needs. It is highly recognized that, as citizen ambassadors, returned and overseas Chinese scholars play an important role in promoting social and economic exchanges between China and other countries in the world.

Organization Structure

Sponsor Western Returned Scholars Association (WRSA)

Supporters Chinese People's Political Consultative Conference
China Overseas Friendship Association
Ministry of Personnel, PRC
Ministry of Science and Technology, PRC
Ministry of Education, PRC
Chinese Academy of Sciences
China Association for Science and Technology
State Commission of Natural Science Foundation
Tianjin Municipality Government

Organizer Tianjin Economic and Technological Development Area

Overseas Sponsors

Chinese Academic Link International Association.
Chinese Association for Science and Technology in the US
Chinese Association for Science & Business
Chinese Economists Society
Chinese Historians in the United States
Association of American Chinese Professionals
China Bridges International
Tsinghua Alumni Association
United Council of American Chinese for Promotion of Trade and S&T
Chinese School Association in the United States
Hua Xia Chinese School (NJ/NY/PA)
Sino-Professional Club
Sino-Ecologists Overseas Club
Chinese Professionals Association for Geographical Information Systems
International Fund for China's Environment
Chinese-American Innovation & Development Association
Chinese Association for Science, Economics and Culture in South Florida
Professional Association for China's Environment
Overseas Chinese Association for Institution Research
New Jersey Chinese Computer Professional Association
Sino-America Pharmacy Association
Chinese Finance Society
Peiyang — Tianjin University Alumni Association in North America
Canada China Economy & Technology Center
Canada China Economic Promotion Association
Canada-China Society of Science and Technology
SinoCann Entrepreneurs Association
Ottawa Chinese Association for Science and Technology

All-Japan Federation of Overseas Chinese Professional

The Association of Chinese Scientists and Engineers in Japan
Chinese Academy of Science and Engineering in Japan
All Japan Federation of Chinese Students
Ausinan Science & Technology Society
Association of Chinese Computer Scientists in Germany
Association Des Ingenieurs Chinois En France
Association des Scientifiques et des Ingenieurs Chinois en France (ASICF)
Chinese Students and Scholars Association in the United Kingdom
Association of Chinese Engineers in the UK
Life Science Society for Chinese Bioscientists in UK
The Chinese Students and Scholars Association of Isreal
Die Österreichisch-Chinesische Gesellschaft

Honorary Chairmen **DING Shisun** *Vice Chairman of the Standing Committee National People's Congress;*
CHENG Siwei *President of WRSA*
Congress; *Vice Chairman of the Standing Committee, National People's Congress;*
Honorary President of WRSA

Steering Committee (in Chinese alphabetical order)

WANG Nai *Executive Vice President of WRSA*
WEI Yu Vice Minister of Ministry of Education
PI Qiansheng Standing Member, CPC Tianjin Committee; Member and Director, CPC Working Committee of TEDA and Tianjin Port Free Trade Zone
SUN Huaishan *Vice Secretary General of the Chinese People's Political Consultative Conference*
ZHU Xun Chairman of Hong Kong, Macao and Taiwan affairs Commission, CPPCC; Vice President of WRSA
ZHANG Yutai Vice President of the China Association for Science and Technology
ZHANG Tinghan Vice Secretary General of the Chinese People's Political Consultative Conference; Vice President of the China Overseas Friendship Association
LU Yucheng Chairman of the Board, Huaxia Bank; Vice President of WRSA
CHEN Jiaer President, State Commission of Natural Science Foundation
HU Qiheng Vice President of WRSA
XU Songtao Vice Minister, Ministry of Personnel
NIE Li Vice Chairman, All-China Women's Federation;
Vice President of WRSA
HUI Yongzheng Vice Minister, Ministry of Science and Technology
SHU Huiguo Vice Minister, Ministry of Personnel
LU Yongxiang President, Chinese Academy of Sciences; Vice President of WRSA

Chairman **BAI Chunli** *Vice President, Chinese Academy of Sciences;*

Vice President of WRSA

Scientific Committee FENG Changgen (Co-Chair) Secretary of the Secretariat, China Association for Science and Technology; Vice President, WRSA
LI Guolin (Co-Chair) *Executive Vice Chairman, Administrative Commission of Tianjin Economic and Technical Development Area*
(in Chinese alphabetical order)
CAI Rang, MA Qiyuan, WANG Yafei, WANG Huiyao, FENG Changgen, TIAN Qianli, BAI Chunli, BAI Shuxiang, WU Yegang, SUN Junhong, ZHANG Zhongliang, ZHANG Jiansheng, LI Lei, LI Zhaoxi, LI Guolin, CHEN Wei, CHEN Zhangliang, YI Min, FAN Yong, ZHENG Quan, ZHENG Yanyou, HU Angang, YUAN Yaxiang, XU Deqing, XUE Lan

Organizing Committee WU Tie (Co-Chair) Executive Vice President, WRSA
LI Yong (Co-Chair) *Chairman, Administrative Commission of Tianjin Economic and Technical Development Area*
(in Chinese alphabetical order)
YU Liqun, WEN Guanzhong, WANG Hua, WANG Shiyun, WANG Xinggang, WANG Jianjun, WANG Zhaozhong, WEI Datong, FENG Jilin, CHI Liqun,
SHI Mingde, SHI Deli, LIU Yaping, CHENG Zhang, ZHU Shangxiang, ZHU Ningwen, ZHU Yafeng, JIANG Liping, RUAN Kesan, HE Ping, WU Zhishen, YAN Changming, ZHANG Jie, ZHANG Guosheng, ZHANG Yue, ZHANG Rungang, ZHANG Weiyang, ZHANG Fuchun, ZHANG Min, YU Lisheng, LI Lu, LI Daxi, LI Xiaobing, LI Yunchen, LI Hongshan, LI Yong, LI Zandong, XU Xiang, YANG Lihu, YANG Xiangzhong, XIN Tao, QIU Xiaohua, SHAO Duwang, SHAO Binhong, CHEN Aimin, CHEN Jieyan, CHEN Yisong, ZHOU Keming, ZHOU Zhiping, ZHOU Shengzong, LIN Ping, LIN Junda, WU Tie, LUO Xiaoping, ZHENG Lianggen, YU Yanmin, HONG Zhaohui, HU Nan, HU Sen, HU Zhiliang, YU Jian, FEI Qing, ZHAO Zhensheng, LUO Ning, LUO Yaoguang, NI Tiejing, Ling Xiuhua, XU Yonglong, TU Hanming, JIA Hao, GUO Guang, GUO Shiyu, GAO Yongjian,
LIANG Bing, YAN Jiansheng, XIAO Shuigen, XIE Jian, XIE Jiaye, HAN Enhou, LEI Zhibin, BAO Zhiguang, BAO Ke, TAN Tieniu, PAN Yude, XUE Aifang, WEI Jianing

Secretary General **ZHENG Quan** *Executive Vice President, WRSA*

Vice Secretary General **BAO Zhiguang** *Director, Labour & Personnel Bureau, Administrative Commission, TEDA*

Coordinator ZHANG Jiansheng Vice Secretary General, WRSA

Overseas Coordinators Dr. Yegang Wu (USA)
13120 Meadow Breeze Dr.
West Palm Beach, FL 33414, USA

Secretariat

Mr. ZHUANG Liang and Ms. WANG Tong
Western Returned Scholars Association
111 Nanheyuan Street, Beijing 100006
Tel: 86-10-65258320 Fax: 86-10-65129895
Email: wrsa@public3.bta.net.cn
Website: www.wrsa.net

Ms. ZHOU Yan and Mr. SUN Fei
Labour & Personnel Bureau
Tianjin Economic Technological Development Area
No. 19, Hong Da Street, TEDA
Tianjin 300457
Tel: 86-22-25201019, 25201239
Fax: 86-22-25201249
Email: zhouyan@teda.gov.cn, sunf@teda.gov.cn
Website: www.teda.gov.cn

Call for Papers

The 2001 symposium consists of plenary session and panel discussions focusing on the theme of "Globalization of human capital market and the role of overseas Chinese scholars". There will be four folds in this Symposium:

- (1) Plenary sessions for keynote speakers*
- (2) An open panel discussion on " Globalization of human capital market and the role of overseas Chinese scholars"*
- (3) Five technical concurrent sessions for academic presentations*
- (4) Business plan/projects conferences*

Keynote speakers for the Plenary Sessions will be recommended and invited by the Scientific and Organizing Committees.

The following topics have been proposed but not limited for the Open Panel Discussion, such as,

1. Study on the theory of competition in the human capital market
2. Impact of human resources competition on the development of China
3. Trend and perspectives of the competition in the human capital market in the first decade of the 21st century
4. Brain-drain and its impacts
5. Guidelines and strategies of international competition in the human capital market
6. Comparative study on the human resources management mechanism
7. Case study on human resources management in business sectors
8. Globalization of human resources and human capital market
9. Personal recruitment/job-hunting experiences
10. The role of overseas Chinese scholars and professionals

Symposium also highlights and includes the following 5 Technical Concurrent Sessions:

- (1) Human resources training and management*

- (2) *Education and continuing education*
- (3) *WTO and international trade*
- (4) *Environment and natural resource management*
- (5) *Science and high-tech for the future*

An important and new format of this Symposium is the "Business Plan/Projects Conferences". This is to request and welcome all the business proposals for a possible sponsor project and collaboration with **Tianjin Economic and Technological Development Area** and **Fujian Province**.

We cordially invite you to come joining us. You are encouraged to contribute papers for discussions and sharing your thoughts and wisdoms for China's development in the 21st Century. Please submit a paper or an abstract for presentation according to the symposium topics. All papers and abstracts should be submitted before September 30, 2001, preferably via email, to the Symposium Secretariat in Beijing, China.

Call for Business Plan/Project Cooperation

Overseas participants in business sectors are encouraged to submit your business plan or project collaboration to the Secretariat for business meetings with your Chinese partners. Tianjin Economic and Technological Development Area and local enterprises of Fujian Province will also organize business meetings during the symposium and post-symposium visits.

General Program Schedule

December 21, 2001 (Friday)

08:00-22:00	Registration
18:00-19:00	Opening ceremony
19:00-20:00	Welcoming banquet
21:00-22:00	Round-table meeting of Representatives from Co-sponsoring Organizations

December 22, 2001 (Saturday)

08:30-12:00	Plenary session
14:00-18:00	Panel forum I: Human Resource Management
14:00-18:00	Panel forum II: Education and Continuing Education
14:00-18:00	Panel forum III: Economics (WTO and International Trade)
14:00-18:00	Panel forum IV: Environment and Natural Resource Management
14:00-18:00	Panel forum V: Science and Technology
14:00-18:00	Panel forum VI: Enterprise (business conferences)
20:00-22:00	Panel Discussion: Globalization of human capital market and the role of overseas Chinese scholars

December 23, 2001 (Sunday)

08:30-12:00	Panel forum I: Human Resource Management
08:30-12:00	Panel forum II: Education and Continuing Education

08:30-12:00 Panel forum III: Economics (WTO and International Trade)
08:30-12:00 Panel forum IV: Environment and Natural Resource Management

08:30-12:00 Panel forum V: Science and Technology
08:30-12:00 Panel forum VI: Enterprise (business conferences)
14:00-18:00 Plenary session

December 24, 2001 (Monday)

- * Release of related economic policies of the Tianjin Economic and Technical Development Area (TEDA)
- * Technical visits and meetings with overseas Chinese ventures in TEDA
- * Business discussions
- * Invitations to honorary TEDA residents and advisors
- * Closing ceremony / Dinner

Application for International Travel Subsidy

Overseas participants are encouraged to apply to your own companies or institutes for international conference subsidy. Due to limited funding, the symposium can only subsidize a few overseas participants upon application. If you need financial subsidy from the Symposium, please select your choice in the Registration Form. Subsidy application must be accompanied by your resume and sent back to the secretariat in Beijing before September 30, 2001 for possible consideration.

Post-Symposium Arrangement

After the Symposium, Fujian Province will invite 30-50 participants to the symposium entitled ‘Fujian Forum on the Development of High-tech Industry: Globalization of Economics, Science and Technology in the 21st Century’. Fujian Province will provide local travel and accommodations. Please indicate in the Registration Form for the chance to be invited to visit Fujian Province. Detailed information and schedule will be provided in due time.

Contact Person: ZHU Jiansheng, GAO Wenzhong, LIN Ying
Address: No. 7 Hudong Road, Fuzhou 350003
Tel: 86-591-7823004
Fax: 86-591-7856767
Email: fast@pub1.fz.fj.cn

Overseas Coordinator for visit to Fujian: Dr. Dennis Xu
Tel: 203-974-0254
Email: xu@ultrachina.com

Registration Form

Please fill in the form in block letters and return it to the WRSA Secretariat before September 30, 2001.

Name ----- Male() Female() Profession/Title-----

Affiliation -----

Address -----

Telephone -----Fax -----

Email -----

I'd like to join the "Open Panel Discussion"

I'd like to give a presentation at the Technical Concurrent Session and submit a paper(abstract) entitled (Deadline September 30, 2001):

 I am interested in a "Business Meeting" and include my business interests/plan/projects for cooperation with Chinese partners. **You must submit a business plan/project proposal (long or short) before September 30, 2001.** The title of my proposal is,

 I'd like to be invited to join the Fujian group after the Symposium.

I will apply for traveling fund from my own Company/Institute.

I want to apply for a full international travel subsidy from the Symposium.

I want to apply for a partial international travel subsidy from the Symposium.

I want to apply for a waive of my registration fee (US\$100) for the Symposium..

I want to apply for a subsidy for my hotel room and meals (US\$200) during the Symposium.

Signature -----Date -----

Symposium Secretariat: Mr. Zhuang liang or Ms. Wang Tong

Western Returned Scholars Association

111 Nanheyan Street, Beijing 100006, P.R. of China

Tel: 86-10-65258320

Fax: 86-10-65129895

Email: wrsa@public3.bta.net.cn

Appendix 3

Forum on the development of Fujian High-tech Industry : Economic Globalization in the 21st Century

Organizer: Fujian Association for Science and Technology

Call for Papers

Forum on the development of Fujian high-tech industry: economic globalization in the 21st century will be held from December 26 to 27 in Fuzhou, Fujian, China. It is an activity after WRSA Tianjin 2001. Fujian will invite 30-50 delegates to attend this forum.

● **Call for Papers**

The subject of the symposium is:

The development of Fujian high-tech industry: economic globalization in the 21st century

The following topics are proposed:

- 1j ¶Analysis on the global economic and technological development.
- 2j ¶Impact of world high-tech and industrial development on China and Fujian.
- 3j ¶Adjustment and optimization of Fujian economic and industrial structure under the situation of economic globalization.
- 4j ¶The choice of key fields of Fujian high-tech development.
- 5j ¶The transfer of high-tech.
- 6j ¶High-tech research and capital invested.
- 7j ¶Risk investment and risk investment company.
- 8 Suggestion on China and Fujian from the development of NASDAQ market.
- 9 Human resources problem in the development of Fujian economy.
- 10 The policies and regulations for high-tech development.

The topics may also include:

1. Information science and microelectronic technique.
2. Life science and biology science.
3. Environment, resource and sustainable development.
4. New material science and engineering technology.
5. Agricultural technology.
6. WTO and international trade.

You are welcome to contribute papers on concerning topics. **Please submit your paper before September 30, 2001**, preferably via email, to Fujian Association for Science and Technology.

● **General Program Schedule:**

December 25, 2001 (Tuesday)

8:00-18:00 Registration

18:00 Welcoming Banquet

December 26, 2001 (Wednesday)

8:30-9:30 Opening Ceremony

9:40-12:00 Plenary Session

14:00-18:00 Plenary Session

December 27, 2001 (Thursday)
8:30-12:00 Concurrent Sessions
14:00-18:00 Concurrent Sessions

● **Expenses during the Symposium**

For those whose papers are accepted by our symposium, we will provide free air tickets from Tianjin to Fuzhou, and Fuzhou to another port city in China Mainland (such Shanghai, Beijing, Guangzhou) for you to leave China. Your accommodations and local transportation during the symposium will also be on us.

Contact Person: ZHU Jiansheng, GAO Wenzhong, LIN Ying
Address: Fujian Association for Science and Technology (FAST)
No. 7 Hudong Road, Fuzhou 350003
Tel: 86-591-7823004
Fax: 86-591-7856767
Email: fast@pub1.fz.fj.cn

Overseas Coordinator for visit to Fujian: Dr. Dennis Xu
Tel: 203-974-0254
Email: xu@ultrachina.com

Registration Form

Please fill in the form in block letters and return it to FAST **before September 30,2001.**

Name _____ Male () Female () Profession/Title _____
Affiliation _____
Address _____
Telephone _____ Fax _____
Email _____

I will submit a paper entitled

Signature _____ Date _____