

From SINO-ECO 2000-02 Chair Committee to Our Members, Friends and Their Families:

Merry Christmas and Happy New Year of 2002!
And
Thank you for your constant participation
and support in the past year!

NEWSLETTER OF SINO-ECO

December 14, 2001

General Editor: Fang Gao

Contributors to this issue: Wei Fang, Yude Pan, Kunfang Cao, Shili Miao, Bo Song, Hanqin Tian, Fang Gao, Jay Bai, Zhong Chen, Shiqiang Wan.

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News

1. Beijing CERN Workshop and Kunming Trip (YP)

Teamed by 8 Sino-eco-club members, Yude PAN, Jiquan CHEN, Quan DONG, Qinfeng GUO, Harbin LI, Pu MOU, Zhihua XU and Xiwei YIN, and funded by China Zhongtian High Tech. Company and Chinese Ecological Research Network (CERN), Chinese Academy of Sciences, we made a wonderful group trip to China from November 16 to 24. During the trip, we held a workshop in CERN, visited the State Environmental Protection Administration in Beijing.

We then traveled to Kunming, Yunnan Province and had a several meetings with scientists and officials from academic Institutes and local government agencies. Our trip was well received, successful and pleasant.

Background of the Trip

Early this year, Sino-Eco-Club Chair Committee began to consider organizing an investigation trip to West China, which was inspired by the China National Plan of “Development of West China”. As we know, several prominent features about West China are shortages in natural resources, deteriorated environment and serious pollutions, and the lack of technological know-how for environmental protection. We believe that ecological conservation and environmental protection would be critical and central issues for whether or not the National Plan could be successfully implemented. We were willing to contribute our knowledge and expertise to this significant National Project.

Meanwhile, another idea came on line when the Committee members, Drs Yude Pan and Paul Mou took the summer trips to China and had a discussion with Dr. Ouyang Hua, Director of CERN. We decided, in the name of Sino-Eco-Club Overseas, to hold an international workshop in Beijing with the joint effort from the CERN, CAS. After a hard fund raising work and several changes in our plan and team members, we finally made the trip to China in November for these two combined plans.

Academic Workshop in Beijing

An intensive 2-days’ workshop (11/19-20) was held in the Institute of Geographical Science and Natural Resources, CAS, cooperated by CERN and Sino-ECO-Club Overseas. 23 domestic scientists from all over the country and 9 scientists from our team (including Dr. Yu Hua from the National University of Singapore) presented their research in the workshop.

The Theme of the workshop was “Advances and Current Issues in Ecological Research”, and 4 sessions of the workshop covered a broad range of topics: 1) Overview: Regional Ecology of China and Resource Management; 2) Ecosystem Dynamics and Vegetation Science; 3) Carbon Cycle and Global Change, and 4) Spatial Ecology and Conservation Biology.

The presentations from our members were well received by the audience. For example, talks from Drs. Harbin Li, Jiquan Chen and Xiwei Yin raised great interests. They showed their excellent work and theoretical thoughts on importance of scaling up, timing and patterns in ecological studies, resource management and decision and policy making processes. Academician, Professor Hanxi Yang highly praised their talks. Presentations from our domestic colleagues were also excellent and impressive, such as talks delivered by Drs Xinquan Zhao, Ming Dong and Zhiyuan Ouyang (see Attached Agenda). They fully demonstrated research progress made in recent years in China and were truly inspiring.

In the close remark of the workshop, Dr. Bojing FU, the director of Bureau of Science & Technology for Resources and Environment, CAS, expressed sincere expectation for Overseas ecologists and described the opportunities and financial programs of CAS that support Overseas ecologists to collaborate research with domestic scientists. We also expressed the perspective of the Sino-Eco Club Overseas: we will encourage our members to actively involve in collaborative research in China and will also look for opportunities for the Club to cooperate academic activities with the Institutes of CAS and make our contribution to ecological studies in China.

Visit State EPA

On November 21, before departing from Beijing, the team took the morning time to visit State Environmental Protection Administration. We had a meeting with the Senior Advisor, the former director of EPA, Prof. Kunmin Chang and several Chiefs from different Sections. They briefed us the undergoing national projects implemented by the EPA and the Tenth Five-Year Plan and related financial investments in different sectors for environmental protection and treatment. Our members challenged the EPA officials about the environmental management strategies in China that were essentially based on engineering treatments but lack of ecological approaches. We also expressed our other concerns such as the neglect of stream ecology studies in China that are extremely important for the health of river systems. Our comments were well taken and we agreed to send our investigation report to the State EPA. The discussion was enthusiastic until the time was run out and we had to catch the flight to Kunming right away.

Yunnan Trip

Three days' visit in Yunnan was remarkable and enjoyable. The beautiful scenes of Kunming and warm welcomes from local people impressed us. Arranged by the Oversea Chinese Office of Yunnan Provincial Government, we visited the Institute of Ecology and Geobotany of Yunnan University, the Environmental Protection Bureau of Yunnan Province, and Forestry Bureau of Yunnan Province and Forestry Research Institute. We had several meetings with scientists, environmental experts, project managers and governmental officials. In these meetings, we learned a lot from the local experts, and exchanged our ideas regarding conservation and environmental issues in Yunnan.

Two environmental problems in Yunnan had drawn most of our attention: how to remedy polluted Dian Lake, and how to conserve biodiversity in Yunnan. In the past years, because of serious urban, agricultural and industrial pollutions and other ecological damages such as inappropriately introducing exotic species, reclaiming land from lake, Dian Lake has been severely degraded and becomes one of most difficult lakes in the world for restoration. The central and local government have invested tremendous funds and resources in the lake treatment for many years, but have not achieved any notable results.

In discussions, our members emphasized that the only solution for restoring Dian Lake was to combine engineering and ecological approaches in the lake remediation rather than temporarily alleviating symptoms. We introduced successful experiences in the United States on environmental management. We also discussed environmental policies and ecological compensation systems regarding biodiversity conservation.

In the afternoon of our last business day, we toured Dian Lake. We could still see the beauty of the lake that was breath taking, but the lake water was turbid, smelling, the waterweeds introduced in 60s floated everywhere.

Follow-up Issues

The team has been working on several follow-up issues. Our Investigation Report of Yunnan trip has been drafted and will be sent to relevant agencies after revision. In the report, we provide our suggestions about strategies in Dian Lake remediation and several other issues regarding ecological conservation and management in China. We also consider writing a news report. We hope our voices can be heard by people and government agencies.

We would like to use experiences we have learned from this trip and set up a long-term goal for the Club in terms of collaborating academic activities and advancing ecological studies in China, as well as broadening our function by providing information and expertise to relevant agencies aimed to promote China environmental protection. We hope the Club will have more chances to organize such trips to China in the future.

2. Nomination and Election of Next SINO-ECO President (YP)

Dear Sino-Eco-Club Members:

Our term for serving you will be terminated in May, 2002. Now it is time to consider nominating the candidates of Sino-Eco-Club president for next term (2002-2004). This is our first call for your attention. We will plan to organize an election committee and run election in the early of 2002. Please send your nominations to Dr. Yude Pan (ypan@fs.fed.us). Great thanks for your response and participation of club's business.

3. Preliminary Announcement of the Ecology Workshop in Guangzhou Workshop (SM)

Fist call for the workshop "Ecosystem Succession Theory and Ecological Restoration Practice" Summer 2002 in Guangzhou.

The Chair Committee of SINO-ECO has been working on the funding application of an ecological workshop, the Ecosystem Succession Theory and Ecological Restoration Practice, with South China Institute of Botany, the Chinese Academy of Sciences. In the application, we request that the workshop cover the costs for overseas scientists, including international air fares. If the application is approved, SINO-ECO will co-organize the workshop with South China Institute of Botany in Guangzhou in summer 2002. The Chair Committee of SINO-ECO plans to select a group (10-20) of member scientists to attend the workshop. To facilitate the application process, the Chair Committee asks interested members to send your tentative title of your talk to Dr. Shili Miao of South Florida Water Management District, at smiao@sfwmd.gov, by the middle of January 2002.

The Chair Committee has appointed Shili to be in charge of the proposed Guangzhou workshop. If you need more information about the workshop, please contact Shili. Thanks you.

4. Western Returned Scholars Association (WRSA) 2001 International Symposium (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 23, 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, 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 has attracted hundreds of domestic and overseas specialists and professionals.

So far, we have learned that SINO-ECO members Drs. Yegang Wu, Junda Lin, and Fang Gao are planning to participate in this special symposium. We will provide a report with symposium details in our next newsletter. If you need more information regarding this symposium, please contact Dr. Jiansheng Zhang, Deputy Secretary General of WRSA, or Ms. Tong Wang, Project Coordinator, at wrsa@public3.bta.net.cn.

5. Visit of Dutch Scientists to the Xishuangbanna Tropical Botanical Garden (KC)

Between November 18 and 25, 2001, a delegation from the Wageningen University, the Netherlands, where Dr. Kun-fang Cao earned his Ph.D., visited the Xishuangbanna Tropical Botanical Garden (XTBG), the Chinese Academy of Sciences. This delegation is consisted of Prof. Dr. G. M. J. Mohren who is the editor in chief of the international journal “Forest Ecology and Management”, Prof. Dr. F. Bongers and Dr. P. van der Meer. Dutch scientists have a long history and tradition in the research of tropical biology. Their research programs have covered American, African and Asian tropics. The Dutch scientists were surprised to see that the physiognomy and structure of the dipterocarp forests in Xishuangbanna, southern Yunnan, are quite similar to those of rainforests on Borneo. They were also impressed with rich types of tropical and subtropical forests occurring in a relatively small region of Xishuangbanna. These forest types include riparian rain forests, moist dipterocarp forests, semi-deciduous seasonal rain forests, dry forests on limestone hills, tropical montane rain forests, and subtropical evergreen broadleaved forests.

During the visit, we discussed the plan to establish a long-term collaboration between Wageningen University and XTBG. As a part of this joint research program, the Wageningen University will regularly train some Ph.D students for XTBG.

XTBG has some 300 staff members, about half of which are academic fellows, and focuses on the research programs on the structure, function and processes of tropical and subtropical forests, conservation of these forests, and acclimation of tropical and subtropical plants. It also has programs of graduate and postgraduate studies, public botanical science education, and social development. In the last few years, the research facilities of XTBG have been improved rapidly. Recently renewed office buildings in the garden are equipped with central air-conditioning and entranet systems. The facilities are available for research of plant ecophysiology, seed physiology, biochemistry, forest meteorology, and plant genetics. It has a branch in Kunming, herbarium in the garden, and two field stations located in tropical and subtropical rain forest sites. XTBG has the strategic location conducive for the research of tropical biology. The forests in the marginal tropics of southern Yunnan have special value for research. XTBG is also a popular tourist site, which attracts about a half million visitors each year. We warmly welcome overseas Chinese scientists to conduct joint projects with us either on tropical and subtropical forests or on other types of ecosystems in southwestern China.

If you need more information about the visit of the Dutch scientists to XTBG, or about XTBG itself, please contact Dr. Kunfang Cao at caokf@xtbg.ac.cn.

Members' Profiles

1. Dr. Jay Bai of MDSM Research, Colorado (JB)

In our last couple of newsletters, we reported Dr. Jay Bai on his return to China and his research on MDSM. Here is another report submitted by Jay to the newsletter. You can contact Jay for further information at jaybai_mdsm@att.net.

“Most of you may know that I (T. Jay BAI) went back and stayed in China for last 18 months. During my staying there, I cooperated with some professors in math, and completed the Multi Dimensional Sphere Model (MDSM) research. We published one CD and submitted two papers. Now, the papers are published in Acta PhotyEcologica Sinica, November (APES 25(6):687-692 & 751-753). The papers summarized the theory of the model and answered some frequently asked questions. I hope these papers may help some of our young friends, as it may bring more work opening in next a few years.

Enclosed is the English abstract of one of the papers. For more information, the interested friends can visit the webpage to down load the manuscripts.

<http://mdsm.org/papers/CHINESE/MDSM TIME SERIES.htm>

http://mdsm.org/papers/CHINESE/Forum_APES.htm

Comments and critiques are welcome as we did before.

Thanks for so many friends helped me to finish this research. Their contribution will never be forgotten.

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Abstract (revised):

Monitoring vegetation is important and possible. Multi-Dimensional Sphere Model (MDSM) is a new multivariate data analysis method to synthesize and analyze the vegetation monitoring data. Vegetation can be expressed as points in multivariate space, or multi-component vectors. The magnitude of the vector expresses the biomass of the vegetation, but the direction of the vector expresses the composition of the vegetation. For temporal dynamic analysis, the composition of the vegetation is more important than the production of the vegetation, and the ratio of the changes can explain more than the differences do. Both the geometrical and arithmetic series can be adopted to analyze the vegetation monitoring data. However, MDSM prefers and uses the geometrical series. To improve the model, the moving average and second degree trend may be introduced.”

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. Kun-Fang Cao, Xishuangbanna Tropical Botanical Garden, CAS

- Cao, Kun-fang, 2001. Morphology and growth of evergreen and deciduous broad-leaved saplings in a Chinese beech forests with dense bamboo undergrowth. *Ecological Research* 16 (3): 509-517.
- Cao, Kun-fang & Booth, W.E. 2001. Leaf anatomical structure and photosynthetic induction for seedlings of five dipterocarp species under contrasting light conditions in a Bornean heath forest. *Journal of Tropical Ecology*, 17: 163-176
- Cao, Kun-fang. 2000. Leaf anatomy and chlorophyll content of twelve woody species growing in contrasting light conditions in a Bornean heath forest. *Canadian Journal of Botany*, 78:1245-1253
- Cao, Kun-fang. 2000. Water relations and gas exchange of tropical saplings during a prolonged drought in a Bornean heath forest, with reference to root architecture. *Journal of Tropical Ecology*, 16:101-116.
- Cao, Kun-fang & Ohkubo, T. 1999. Suppression and release during canopy recruitment in *Fagus crenata* and *Acer mono* in two old-growth forests in Japan. *Plant Ecology*, 145: 281-290.

2. Dr. Zhong Chen, Northern Arizona University

- CHEN, Z., KOLB, T. E., and CLANCY, K. M. 2001a. Mechanisms of Douglas-fir resistance to western spruce budworm defoliation: budburst phenology, photosynthetic compensation, and growth rate. *Tree Physiology* 21:1159-1169.
- CHEN, Z., KOLB, T. E., CLANCY, K. M., HIPKINS, V. D., and DEWALD, L. E. 2001b. Allozyme variation in interior Douglas-fir: association with growth and resistance to western spruce budworm herbivory. *Can. J. For. Res.* 31:1691-1700.

3. Shiqiang Wan, The University of Oklahoma

- Shiqiang Wan, Dafeng Hui, and Yiqi Luo. 2001. Fire effects on nitrogen pools and dynamics in terrestrial ecosystem: a meta-analysis. *Ecological Applications* 11(5): 1349-1365.
- Yiqi Luo, Shiqiang Wan, Dafeng Hui, and Linda L. Wallace. 2001. Acclimatization of soil respiration to warming in tall grass prairie. *Nature*, 413: 622-625.

4. Xinyuan Ben Wu, Texas A&M University

- Wu, X.B., E.J. Redeker and T.L. Thurow. 2001. Vegetation and water yield dynamics in an Edwards Plateau watershed. *Journal of Range Management*, 54(2):98-105.
- Wu, X.B. and D.Z. Sui. 2001. An initial exploration of a lacunarity-based segregation measure. *Environment and Planning, B* 28(3):433-446.
- Derner, J.D. and X.B. Wu. 2001. Light distribution in mesic grasslands: Spatial patterns and temporal dynamics. *Applied Vegetation Science*, 4:189-196.

- Ansley, R.J., X.B. Wu, and B.A. Kramp. 2001. Observation: Long-term increases in mesquite canopy cover in a North Texas savanna. *Journal of Range Management*, 54(2):171-176.
- Bridges, A.S., M.J. Peterson, N.J. Silvy, F.E. Smeins, and X.B. Wu. 2001. Differential influence of weather on regional quail abundance in Texas. *Journal of Wildlife Management*, 65:10-18.
- Ueckert, D.N., R.A. Phillips, J.L. Petersen, X.B. Wu and D.F. Waldron. 2001. Redberry juniper canopy cover dynamics on western Texas rangelands. *Journal of Range Management*, 54(5): 603-610.
- Wu, X.B., T.L. Thurow, and S.G. Whisenant. 2000. Fragmentation and changes in hydrologic function of tiger bush landscapes, southwest Niger. *Journal of Ecology*, 88(5):790-800.
- Wu, X.B. and F.E. Smeins. 2000. Multiple-scale habitat modeling approach for rare plants conservation. *Landscape and Urban Planning* 51(1):11-28.
- Wu, X. 2000. Remote sensing for landscape ecology: New metric indicators for monitoring, modeling, and assessment of ecosystems (by R.C. Frohn), book review. *Ecological Engineering*, 14:309-310.
- Mitsch, W.J. , X.B. Wu, R.W. Nairn, and N. Wang. 2000. To plant or not to plant: response from Mitsch et al. *BioScience* 50:188-190.

Student Corner

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

The following paragraphs were included in our last newsletter. The editor decides to post them here again to draw our students' attention.

“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.”

2. Are you interested in a new interdisciplinary graduate program in Regional Resilience and Adaptation at University of Alaska-Fairbanks? (WF)

If you are interested in the title of the program, you can read more information about it in Appendix 2 at the end of this newsletter.

People On Move

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

Dr. Zhong Chen will move back this month to Northern Arizona University to join his wife in Flagstaff, Arizona. Zhong will quit his job in the Dept. of Ecology and Evolutionary Biology at the University of Michigan, and will take a postdoctoral research associate position in the School of Forestry at Northern Arizona University in the beginning of 2002. His new research project is on the forest health and restoration ecology in south Rocky Mountains, with emphasis on tree physiological ecology and interactions between ponderosa pines and bark beetles. Zhong's contact information is (after December 2001):

Dr. Zhong Chen
School of Forestry
P.O. Box 15018
Northern Arizona University
Flagstaff, AZ 86011-5018
Email: zc2@dana.ucc.nau.edu

Welcome back to Arizona, the Grand Canyon State!

Career Opportunities

1. Positions with Xishuangbanna Tropical Botanical Garden (XTBG), Chinese Academy of Sciences (CAS) (KC)

The XTBG is soliciting applications for three long-term positions of "Outstanding Overseas Scientists," and various short-term positions of "well-known overseas scientists." The CAS research institute, founded in 1959, is located in northern tropics in southern Yunnan, with a branch in Kunming. The institute is considered as one of the most important and prominent, research centers in Southwest China, featured by its research in and contribution to tropical and subtropical forest studies.

If you are interested in any of the positions, please read Appendix 1 of this newsletter. You can also contact Dr. Kunfang Cao at caokf@xtbg.ac.cn for further information.

2. Graduate Positions at Clemson University

One Ph.D. (3 yrs) and one M.S. (2 yrs) research assistantships are available in the interdisciplinary fields of forestry, landscape ecology, and GIS applications with an emphasis on the disturbance of fire and forest management on landscapes. The students will be expected to work as part of a cooperative team on interactions among fires, forest management, and land mosaics. Applicants should hold a degree, M.S. for Ph.D. program and B.S. for M.S. program, respectively, in a

related field (forestry, landscape ecology, fire ecology, and geography, etc.). Experience in GIS, ecological modeling, and field data collection is desirable. To apply, please submit a letter of interest, resume, photocopy of transcripts, GRE scores, and contact information for 3 references to:

Dr. Bo Song
Department of Forest Resources
Clemson University
Belle W. Baruch Institute of Coastal Ecology and Forest Science
P.O. Box 596, Georgetown, SC 29442-0596
Email: bosong@clemson.edu
Ph: 843-545-5673
Fax: 843-546-6296

3. Graduate Positions at University of Kansas

Graduate Research Assistantship (GRA): We seek Ph.D. graduate students in the areas of large-scale ecology, biogeochemistry and land-atmosphere interactions. The graduate students will be involved in several research projects which aim at investigating terrestrial ecosystem dynamics, the carbon and nitrogen cycling, and land-atmosphere interactions at large scales from watershed to global. He or she should possess some experience in simulation modeling, GIS or remote sensing and computer programming in C or Fortran. The successful candidates should also possess a Degree in Plant/Ecosystem ecology, Biogeochemistry, Meteorology or GeoSciences or related Fields. If interested, please contact:

Dr. Hanqin Tian, Associate Professor
Department of Ecology and Evolutionary Biology
The University of Kansas
Haworth Hall
Lawrence, KS 66045
Phone: 785-864-5703
Fax: 785-864-5321
e-mail: tian@ku.edu
<http://www.ukans.edu/~eeb/Main/tian.htm>

Your Help Needed

1. This is the third time that the 2000-02 Chair Committee calls for help for updating 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).

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>Affiliation</u>	<u>E-mail Address</u>
Binhe Gu	SFWMD	bgu@sfwmd.gov

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

In the last newsletter, we informed our members that a copy of the above book would be available upon request. We have received three requests from Shiqiang WAN, Zhong CHEN, and Bai-lian LI. Copies have been shipped to Shiqiang and Zhong. A copy is ready for Bai-Lian but waits for his new mailing address at UC-Riverside. If any one is still interested in getting a free copy, please contact Ms. Wei Fang, SINO-ECO’s treasurer, at weifang@life.bio.sunysb.edu. We will try to get you one as soon as we can.

3. SINO-ECO Directory Update, 2001 (SM)

The Chair Committee of SINO-ECO Club sincerely thanks over 40 fellow friends in response to our call for Directory updating. From the updated Directory, you will find our SINO-ECO friends have been so successful in their respective fields. The information received was arranged in alphabetic order according to the last name. Please check your section, because I might make errors about your first and last names, in particular for people whose name with two words. For those who have not found time to send their information to me, please take two minutes during the holiday season. We will update the Directory on our next newsletter. Also, I would like to add your webpage address on the Directory. Thanks for your support.

Shili Miao

On behalf of the Chair Committee

Note: The 2001 SINO-ECO Directory is attached to this newsletter as “S_E01dir”.

4. Membership Due

SINI-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 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.

Positions with Xishuangbanna Tropical Botanical Garden, Chinese Academy of Sciences

1. Three Positions For Outstanding Overseas Young Scientists

About Xishuangbanna Tropical Botanical Garden

Xishuangbanna Tropical Botanical Garden, Chinese Academy of Sciences, was found in 1959, is located in northern tropics in southern Yunnan, with a branch in Kunming. Primary tropical forests such as riparian tropical rain forests, dipterocarp forests, semi-deciduous seasonal rain forests, and montane rain forests, are with a half hour or a few hours drive. It has some 300 staff members, of which about half are academic fellows, and focuses on the research programs on the structure, function and dynamics of tropical and subtropical forests, and conservation of these forests, and acclimation of tropical and subtropical plants, and also has programs of graduate and postgraduate studies, public botanical science education, and social development. It is quipped with facilities for research of plant ecophysiology, seed physiology, biochemistry, forest meteorology, and plant genetics, a herbarium, and two field stations located in tropical and subtropical rain forest sites.

Selection criteria:

- (1) Chinese citizens or willing to settle down in China permanently
- (2) in general, younger than 45 years
- (3) at least two-year professional experience after Ph.D., with capacities of carrying out initiative and creative research, and leading a research group
- (4) at least three papers published in peer reviewed international journals as the first or sole author
- (5) research field: ecology/botany/conservation biology

Materials required for the application

- (1) Curricula Vitae
- (2) publication list
- (3) photocopies of two to three representative papers
- (4) research plan for the future three years if employed

Research grants provided

The ministry of Finance of China will award an amount of two million Chinese Yuan to each of the selected scientists for the start-up research fund.

Stipends and conditions

The selected scientist will become professor at the “Southwest Base of Science and Knowledge Innovation”, Chinese Academy of Sciences, and receive monthly salary of about 2500 Chinese Yuan, additional 1000 Yuan per month during the first three years, and at the end of year a bonus of about 30% of total yearly salary on the basis of performance. Our botanical garden will provide the selected scientist a flat with three rooms in Kunming and a job to his or her spouse at our Kunming Branch, and will help to arrange schools for the dependent children. The flat will transfer to his/her private property after working with us for eight years. In case the employment with our institute is shorter than 8 years, the flat should give back to our institute, but a compensation for future housing will be given on the basis of employment duration with our institute.

Deadline of the application: 20 October 2002

+++++-----2. Annually 3-4 month positions for well-known overseas scientists

The Chinese Academy of Sciences has recently initiated a program that supports well-known senior overseas scientists to work in an institute of the Academy for 3-4 months each year.

Qualifications required

- (1). Holding positions of associate professor or higher in foreign countries;
- (2). Having made significant contributions in the professional field, earned international academic reputation and recognition;
- (3). Capable to lead a research group for carrying out research that reaches internationally leading level.
- (4). Having published quite a few significant papers in leading international journals; or owning important innovation patent, or mastering some core techniques of high technology.
- (5) Able to work in China for 3-4 months each year.

Stipend and Conditions

The same to those for outstanding overseas young scientists(see above).

Application procedure

The same to that for outstanding overseas young scientists.

If you are interested in any of the above position, please contact:

Mr. Li Hong-Wei
Xishuangbanna Tropical Botanical Garden
Department of Personnel and Education
Chinese Academy of Sciences
Meng-Lun, Meng-La County, Yunnan,
Postal code: 666303, China
Fax: +86-691-8715070
Tel: +86-691-8715454
Email: rsc@bn.yn.chinfo.net

Appendix 2.

The Interdisciplinary Graduate Education and Research Training (IGERT) Program in Regional Resilience and Adaptation, the University of Alaska, Fairbanks

<http://www.regional-resilience.uaf.edu>

The University of Alaska Fairbanks offers a graduate training program in Regional Resilience and Adaptation (RR&A) to train scholars, policy-makers, and managers to address issues of regional sustainability in an integrated fashion. This program prepares students to address a major challenge facing humanity: To sustain the desirable features of Earth's ecosystems and society at a time of rapid changes in all of the major forces that shape their structure and functioning. The program provides training at the Ph.D and Masters level. It integrates the tools and approaches of ecology, economics, anthropology, climate dynamics, philosophy, and community and regional development in a systems framework to understand the functioning of regional systems. Our underlying assumptions are: The major problems facing the world must be addressed at the regional scale, and no solution is tenable unless it is ecologically, economically, and culturally sustainable. The program emphasizes high-latitude ecosystems, where current management issues require an application of the integrated understanding of these disciplines. This approach is, however, equally applicable to all developing and developed nations, and we welcome students who seek to apply this training to any region of the globe. The RR&A program provides training at the PhD and Masters levels. Our goal is to educate a new generation of scholars, policy makers, and managers to integrate the perspectives of natural and social sciences in addressing both the basic understanding of regional systems and the application of this understanding to management issues. The program provides training to graduate students from the University of Alaska and to graduate students at other universities who wish to enroll for one year of intensive course work in Regional Resilience and Adaptation at the University of Alaska. We provide course work and a seminar program that integrates ecology, economics, and anthropology in a systems-modeling framework. We also provide faculty mentorship and internships in areas outside each student's parent discipline. The RR&A program is associated with numerous research programs at the University of Alaska and in state and federal agencies. These research programs provide interdisciplinary research opportunities for RR&A students. The program emphasizes cross-cultural communication through heavy involvement with the Alaskan Native American community and with managers, businesses, and conservation groups. We offer NSF-funded fellowships to PhD candidates entering the program. Additional funding is available to both PhD and Masters students through participating departments. A detailed description of the program and application forms are available at or by contacting F. Stuart Chapin, III (terry.chapin@uaf.edu) at the Institute of Arctic Biology,

University of Alaska, Fairbanks, AK 99775. February 1 is the target date for reviewing applications to the RR&A program, although applications received after that date will also receive consideration. We strongly encourage applications from ethnic minorities and other under-represented groups.

Target date for applications: February 1, 2002

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