

Curriculum Vitae

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Associate Professor of Paleobotany

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Paleobotany Curator

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Gray, Tennessee 37615

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A. Education:

- Ph.D.**, Nanjing Institute of Geology & Paleontology, Chinese Academy of Sciences,
Paleobotany and Plant Biology, 1992
Dissertation Vol. 1: First Discovery of *Cycas* (Cycadaceae) Fossil Pinnae in China with Comments on the Phylogeny and Historical Biogeography of *Cycas*. 133 pp. and 39 plates.
Dissertation Vol. 2: Leaf Architecture of Betulaceae and Fossil History of the Chinese Betulaceae. 168 pp. and 32 plates.
- M.Sc.**, Nanjing Institute of Geology & Paleontology, Chinese Academy of Sciences,
Paleobotany and Plant Biology, 1989
Thesis: A Pleistocene Megaflora and its Paleoclimate from Baise Basin, Guangxi, southern China. 150 pp. and 25 plates.
- B.Sc.**, Sichuan University, ***Botany***, 1986
Thesis: On the Taxonomy of *Lindera* (Lauraceae) from the Mt. Emei, Sichuan, southwest China. 30 pp. and 5 plates.

B. Experience (Academic/Professional Appointments):

AUGUST 2006 - PRESENT: EAST TENNESSEE STATE UNIVERSITY (ETSU)

- 08/2010 – present *Tenured Associate Professor of Paleobotany*, Department of Biological Sciences
- 08/2006 – present 1) *Paleobotany Curator*, ETSU & General Shale Brick Natural History Museum, Gray, TN
2) *Member*, Don Sundquist Center of Excellence in Paleontology, College of Arts and Sciences
- 09/2008-09/2009 *Interim Director* of Don Sundquist Center of Excellence in Paleontology, College of Arts and Sciences
- 08/2006 – 07/2010 *Assistant Professor of Paleobotany*, Department of Biological Sciences
08/2008 *Summer Alexander von Humboldt Research Fellow*, Institute of Geology, University of Bonn, Germany
- 05 – 07/2007 *Summer Mercer Research Fellow*, Harvard University Herbaria, Harvard University, Cambridge, MA

AUGUST 2003 - JULY 2006: UNIVERSITY OF WISCONSIN-STEVENS POINT (UWSP)

- 08/2003 – 07/2006 *Assistant Professor of Paleobotany and Paleobotany Curator*, Department of Biology
- 06 - 08/2005 *Summer Alexander von Humboldt Research Fellow*, Institute of Palaeontology, Museum of Natural History, Humboldt University of Berlin, Germany

SEPTEMBER 2001 - JULY 2003: FIELD MUSEUM OF NATURAL HISTORY, CHICAGO

- 09/2001 – 07/2003 *Collections Manager of Fossil Plants*, Department of Geology

FEBRUARY 1994 - AUGUST 2001: POSTDOCTORAL RESEARCH FELLOW

- 11/1998 – 08/2001 *Postdoctoral Research Fellow*, Department of Geological Sciences, University of Saskatchewan, Canada.
- 01/1997 - 10/1998 *Alexander von Humboldt Postdoctoral Research Fellow*, Institute of Palaeontology, Museum of Natural History, Humboldt University of Berlin, Germany

- 03/1995 - 03/1996 *Japan Society for the Promotion of Science (JSPS) Postdoctoral Research Fellow, Laboratory of Forest Ecology, Department of Environmental Studies, Chiba University, Matsudo, Japan*
- 02/1994 - 01/1995 *Austrian Foreign Exchange Service (Österreichischer Austauschdienst) Postdoctoral Research Fellow, Department of Palaeobotany & Palynology, Institute of Palaeontology, University of Vienna, Austria*

**NOVEMBER 1992 - AUGUST 2001: NANJING INSTITUTE OF GEOLOGY & PALAEOLOGY, CHINESE ACADEMY OF SCIENCES:
DEPARTMENT OF PALAEOBOTANY**

- 06/1998 – 08/2001 *Professor of Paleobotany*
 04/1996 - 05/1998 *Associate Professor of Paleobotany*
 11/1992 - 01/1994 *Assistant Professor of Paleobotany*

C. TEACHING EXPERIENCE

Fall 2006 – present: Teaching at *East Tennessee State University (all the courses offered with Honors section)*

- **BIOL 1120: General Biology II (Organismal and Biodiversity)** (4 credits with labs), 70 students (Fall 2007)
- **BIOL 1130: General Biology III (Population and Ecology)** (4 credits with labs), 120 students (Fall 2006)
- **BIOL 3240: Plant Anatomy** (4 credits with labs), 15 students/semester (Falls 2007 and 2009)
- **BIOL 3420: Plant Biology (General Botany)** (4 credits with labs), 25 students (Fall 2006)
- **BIOL 3421/5421: Comparative Morphology of Vascular Plants** (4 credits with labs), 15 students (Fall 2008)
- **BIOL 3992: Research Orientation** (2 credits), for biology majors in Honors-in-Discipline only. 10 students/semester (Spring 2009 and Spring 2011)
- **BIOL 4347/5347: Biogeography** (2 credits), 30 students (Spring 2009 and Spring 2011)
- **BIOL 4487/5487: Paleobotany** (4 credits with labs), 15 students/ semester (Springs 2007, 2008, and 2010)
- **UHON 4808-SA1 (Study Abroad Program offered by Honors College): Fossil Field Trip to China** (3 credits) (Summers of 2009 and 2010)
- **BIOL 4910: Undergraduate Research in Biology** (2 credits) (Fall 2006 – present)
- **BIOL 4957/5957: Special Topic in Biology – Global Climate Change** (3 credits), 15 students/semester (Fall 2010)

Fall 2003 – Spring 2006: Teaching at the *University of Wisconsin-Stevens Point*

- **Biology 101: General Biology (Cellular/molecular, organismal/biodiversity, and population/ecology)** (5 credits with labs), 90 students/semester (Fall 2003 – Spring 2006)
- **Biology 323/523: Paleontology Collecting Field Trip to Almont, North Dakota** (3 credits) (Summer 2006).
- **Biology 331/531: Plant Anatomy** (4 credits with labs). 15 students/semester (Falls 2003 and 2005).

- **Biology 332/532: Paleobotany** (3 credits with labs). 25 students/semester (Spring 2006).
- **Biology 399: Independent Studies** (2 credits), supervision of undergraduate research (Fall 2003 – Spring 2006)

Fall 2001 – Spring 2003: Outreach Programs at the *Field Museum of Natural History, Chicago.*

09/2001-08/2003

- Supervised volunteers/interns on inventorying and curating plant fossils and collections database management.
- Guided public tours of the plant fossil collections and “*Life Over Time Exhibit*” and identifying plant fossil specimens for the general public and other institutions/universities from around the country (e.g. *Northwestern University, Loyola University of Chicago, and East Illinois University*).
- Scientific Advisor for the renovation of the “*Life Over Time*” permanent exhibit at the museum.

06/2002

- Member’s Nights – presentation/display about the Arctic paleobotanical trip and the paleoecological implications of plant fossils for *Field Museum*’s over 15,000 members.

Fall 1998 – Summer 2001: Supervising undergraduate/graduate, University of Saskatchewan, Canada.

1999-2001

- Undergraduate-**Andrew Postnikoff**: Systematics of Fossil Conifers in Canadian High Arctic

05/1999

- Ph.D. candidate in Paleobotany from the Department of Botany, National Chung Hsing University (Taiwan)-**Ching-yao Li**: A Study of Miocene Floras in Taiwan

D. PROFESSIONAL ACTIVITIES

I. Grants Received (All as PI, unless otherwise indicated)

| | |
|------|---|
| 2010 | ¥2.12M - Division of Geosciences, National Natural Science Foundation of China (Co-PI. Duration: 01/2011 – 12/2014) |
| | <ul style="list-style-type: none"> ▪ <i>Evolution of Florisitics and Neogene Climates of the Eastern Tibetan Plateau, Sothwestern China</i> |
| | \$1,000.00 – Travel Grant, Office of Research & Sponsored Program, East Tennessee State University (ETSU) |
| | <ul style="list-style-type: none"> ▪ <i>Traveled to the W. Szafer Institute of Botany in Krakow, Poland in July 2010</i> |
| 2008 | \$9,000.00 - Research Development Committee (RDC) Major Research Grants, Office of Research & Sponsored Program, ETSU (Co-PI. Duration: 05/2008 – 05/2009) |
| | <ul style="list-style-type: none"> ▪ <i>Chemical Studies of Biomarkers in the Fossil Plants from the Gray Fossil Site, Tennessee</i> |
| | \$500.00 – Travel Grant, Office of Research & Sponsored Program, ETSU |
| | <ul style="list-style-type: none"> ▪ <i>Traveled to the Birbal Sahni Institute of Paleobotany, Lucknow, India in November 2008</i> |
| 2007 | \$421,657.00 – National Science Foundation (NSF) CAREER AWARDS (EAR-0746105; 5-year project: 06/2008 – 05/2013) |

- *CAREER: Exploring the Neogene Plant Record of Global Vegetational and Climatic Changes in eastern North America*
\$15,000.00 - **National Geographical Society, Washington D.C.**
(NGS Grant 8260-07; Duration: 06/2007-05/2008)
 - *Paleoecology of the Late Miocene-Early Pliocene Flora from Gray, Tennessee, southeastern North America*
\$9,000.00 - **RDC Major Research Grants, Office of Research and Sponsor Program, ETSU** (Duration: 05/2007 – 05/2008)
 - *Systematics of Fossil Seed Plants from a Unique Late Tertiary Flora in Northeast Tennessee and Its Biogeographic Significance*
\$2,000.00 - **Network Research Grants, Appalachian Highlands Science Learning Center, Great Smoky Mountains National Park, National Park Service, U.S. Department of the Interior** (Co-PI. Duration: 03/2007 – 03/2008)
 - *Genetic and morphological diversity in Carolina hemlock populations*
\$1,200.00 - **RDC Small Grants, Office of Research and Sponsor Program, ETSU** (Duration: 05-07/2007)
 - *Comparisons of the 7-4.5 Million Years Old Fossil Fruits/Seeds from the Gray Fossil Site, Northeast Tennessee with the Modern Fruits/Seeds Housed at Harvard University Herbaria*
- 2005 \$3,000.00 - **University of Wisconsin-Stevens Point (UWSP) Personnel Development Committee Grants** (Duration: 07/2005-06/2006)
 - *Palynological Investigation of the Late Miocene Flora from Gray, Tennessee*
- 2004 \$74,300.00 - **NSF DUE CCLI-Adaptation and Implementation (NSF DUE-0511131; Co-PI. Duration: 08/2005-08/2007)**
 - *SEM in the Classroom: Creating a Student-Centered SEM Stereo Biological Imaging Resource (SSBIR) for Teaching and Research*
- \$3,620.00 – **UWSP Personnel Development Committee Grants** (Duration: 10/2004-09/2005)
 - *Arctic Plant Fossils and Their Paleoclimatic and Paleobiogeographic Significances*
- 2003 \$477.00 - **UWSP IT minigrants**
 - *Database Management on Fossil Plant Collection*
- \$1,700.00 - **UWSP Personnel Development Committee Grants.**
 - *Systematic anatomy of Cycas leaves*
- \$1,500.00 - **Undergraduate Education Initiative Grants, College of Letters and Sciences, UWSP**
 - *Request of plant fossil collection tools and lab chemicals*

II. Fellowships/Awards

08/2008 **Alexander von Humboldt Foundation Summer Research Fellowship (Bonn, Germany)**

- 3-week working visit to *Dr. Torsten Utescher* at the University of Bonn, Germany to initiate an international collaboration on the “*Neogene Climate Evolution in the North Hemisphere by Fossil Plant Assemblages.*”
- 06/2008 **NSF CAREER Awards**
 - 5-year (2008-2013) awards (\$421,657.00) for the Faculty Early Career Development from NSF Earth Science Division on research of exploring the Neogene plant record of global vegetational and climatic changes in eastern North America.
- 05-07/2007 **Mercer Research Fellowship, Harvard University Herbaria**
 - 3-month summer research on the systematics of fossil fruits and seeds from the Late Neogene Gray Fossil Site.
- 06-08/2005 **Alexander von Humboldt Foundation Summer Research Fellowship**
 - Summer research collaboration with *Dr. Barbara Mohr* at the Humboldt University of Berlin, Germany on the Eocene pollen flora from Axel Heiberg Island, Canadian High Arctic and oak fossil pollen from the Miocene of eastern China.
- 1998-2001 **Postdoctoral Research Fellowship, Department of Geological Sciences, University of Saskatchewan, Canada.** Collaborator: Professor James F. Basinger.
 - Systematics (Morphological and Anatomical aspects) and Paleocology of the fossil seed plants (fruits/seeds, leaves, pollen and spores) from the Eocene Fossil Forest in Canadian High Arctic.
- 1997-1998 **Postdoctoral Research Fellowship, Alexander von Humboldt Foundation, Institute of Palaeontology, Museum of Natural History, Humboldt University of Berlin, Germany.** Collaborator: Professor Dieter H. Mai.
 - Morphological and anatomical comparison on fruits and seeds in the oak family (Fagaceae) – living and fossil species.
- 1995-1996 **Postdoctoral Research Fellowship, JSPS (Japan Society for the Promotion of Science), Laboratory of Forest Ecology, Department of Environmental Studies, Faculty of Horticulture, Chiba University, Japan.** Collaborator: Professor Arata Momohara.
 - Evolution of the beeches (*Fagus*, Fagaceae): studies on the morphological and anatomical features of vegetative and reproductive organs of living and fossil beeches. Molecular systematics (ITS) on modern beeches was examined.
 - Evolution of the Chinese beech forests over the past 100 million years.
- 1994-1995 **Postdoctoral Research Fellowship Österreichischer Austauschdienst (Austrian Foreign Exchange Service), Department of Paleobotany & Palynology, Institute of Palaeontology, University of Vienna, Austria.** Collaborator: Professors David K. Ferguson and Reinhard Zetter.
 - Miocene pollen flora from eastern China: research focused on taxonomy, floristic analysis, and paleoecologic reconstructions.
- 11/1990 **First Award for the Best Paper, 1st National Graduate Student Conference of Paleobiology and Stratigraphy, Nanjing, China**
 - Early Quaternary Climate Condition of Southern China: Evidence from Megafloral Remains
- 10/1989 **First President Prize of Chinese Academy of Sciences on Graduate Student Research**
 - Cuticular Analyses of Early Pleistocene Lauraceous Leaves

III. Research Interests

- **Systematic Paleobotany** (Morphology and anatomy of fossil leaf and fruit/seed; Scanning Electron Microscopy of fossil pollen/spores and leaf cuticles; Synchrotron X-ray Tomographic Microscopy of fossil fruit/seed)
- **Paleoclimate Studies (Quantitative Reconstruction)** based on Cenozoic mega- and micro-floras from Eurasia and North America
- **Historical Biogeography** of seed plants
- **Vegetational/Floristic Evolution and Environmental Changes** in the Northern Hemisphere during the Late Cretaceous and Cenozoic
- **Paleoecology/Paleoenvironment Reconstruction** from fossil floras

IV. Review Manuscripts for Referred Journals/Grants Proposal

- Reviewed manuscripts for the following referred journals (1999 – present):
 - *Acta Botanica Sinica*
 - *Acta Palaeobotanica*
 - *Acta Palaeontologica Sinica*
 - *American Journal of Botany*
 - *Australian Journal of Botany*
 - *Canadian Journal of Botany* (now *Botany*)
 - *Collection and Research*
 - *Courier Forschungsinstitut Senckenberg*
 - *Indian Journal of Biosciences*
 - *International Journal of Plant Science*
 - *Journal of Systematic Evolution*
 - *Microscopy Research and Technique*
 - *Nature Knowledge* (online education site from Nature Publishing Group)
 - *New Phytologist*
 - *Palaeogeography, Palaeoclimatology, Palaeoecology*
 - *Palaeoworld*
 - *Paleontological Research*
 - *Review of Palaeobotany and Palynology*
 - *Turkish Journal of Earth Sciences*
 - Editorial member of *Acta Palaeontologica Sinica* (1998-2006)
- Reviewed grants proposals:
 - 2009-2010 (11/2009, 04/2010, and 11/2010): **Panelist** for *National Science Foundation - Sedimentary Geology and Paleobiology Program*
 - 2008-2010: **External reviewer** for *National Science Foundation - Sedimentary Geology and Paleobiology Program*
 - 2004: **External reviewer** for *National Natural Science Foundation of China - Botany Program*

V. Publications (* undergraduate/graduate student)

MANUSCRIPTS UNDER REVIEW

- Quan, C., Y.S. Liu, and Z. Zhou. Reproductive and vegetative organs of *Ginkgo* from the Paleocene of Almont, North Dakota. *American Journal of Botany*
- Quan, C., Y.S. Liu, and T. Utescher. Paleogene evolution of precipitation in northeast China supporting the mid Eocene intensification of the East Asian monsoon. *Palaios*

REFEREED PUBLICATIONS (UNLESS OTHERWISE INDICATED)

2011

43. Jacques, F.M.B., **Y.S. Liu**, and E. Martinetto. (2011) Revision of selected fossil endocarp species in the Menispermaceae using a morphometric approach. *Geodiversitas* 33(1): 177-197.
42. Su, T.*, F.M.B Jacques, **Y.S. Liu**, J. Xiang, Y. Xing*, Y. Huang*, and Z. Zhou. A new *Drynaria* (Polypodiaceae) from the Upper Pliocene of Southwest China. *Review of Palaeobotany & Palynology* 164(1-2): 132-142.

2010

41. **Liu, Y.S.**, T. Utescher, Z. Zhou and B. Sun. (in press). The evolution of Miocene climates in northern China: preliminary results of quantitative reconstructions from plant fossil records. *Palaeogeography, Palaeoclimatology, Palaeoecology* (NECLIME [Neogene Climate Evolution in Eurasia] special volume)
40. **Liu, Y.S.** and F.M.B. Jacques. 2010. *Sinomenium macrocarpus* sp. nov. (Menispermaceae) from the uppermost Miocene to lowestmost Pliocene of Gray, northeast Tennessee, USA. *Review of Palaeobotany & Palynology* 159: 112-122.
39. Jacques, F.M.B., S. Guo, T. Su*, Y. Xing*, J. Huang*, **Y.S. Liu**, D.K. Ferguson, and Z. Zhou (in press). Quantitative reconstruction of the late Miocene monsoon climates of southwest China: a case study of the Lincang flora from Yunnan Province. *Palaeogeography, Palaeoclimatology, Palaeoecology* (NECLIME [Neogene Climate Evolution in Eurasia]special volume)
38. Gong, F.*, I. Karsai, and **Y.S. Liu**. 2010. *Vitis* seeds (Vitaceae) from the late Neogene Gray Fossil Site, northeastern Tennessee, U.S.A. *Review of Palaeobotany & Palynology* 162: 71-83.
37. Stults, D.Z.*, B.J. Axsmith, and **Y.S. Liu**. 2010. Evidence of white pine (*Pinus* subgenus *Strobos*) dominance from the Pliocene northern Gulf of Mexico coastal plain. *Palaeogeography, Palaeoclimatology, Palaeoecology* 287: 95-100.
36. Su, T.*, Y. Xing*, F.M.B. Jacques, W. Chen*, Y. Huang*, **Y.S. Liu**, and Z. Zhou (2010). Quantitative reconstructions of Mean Annual Temperatures for Chinese Cenozoic Paleofloras based on the Chinese Leaf Margin Analysis Model. *Geological Review* 56 (5): 638-646.
35. Su, T.*, Y. Xing*, **Y.S. Liu**, F.M.B. Jacques, W. Chen*, Y. Huang*, and Z.K. Zhou. 2010. Leaf Margin Analysis: a new equation from the humid to mesic forests in China. *Palaaios* 25: 234-238.
34. Xing, Y.*, **Y.S. Liu**, T. Su*, and Z. Zhou. 2010. Application of X-ray in the study of fossil cones. *Acta Palaeontologica Sinica* 49: 133-137.
33. Xing, Y.*, **Y.S. Liu**, T. Su*, F.M.B. Jacques, and Z. Zhou. 2010. *Pinus prekesiya* sp. nov. (subsection *Pinus*, Pinaceae) from Late Miocene of Yunnan, southwestern China. *Review of Palaeobotany and Palynology* 160: 1-9.
32. Levy, F., T. McDowell, **Y.S. Liu**. 2010. Biogeography and horticulture of coniferous trees: Three small genera. ETSU Arboretum Brochure (non refereed).

2009

31. **Liu, Y.S.**, B.A.R. Mohr, and J.F. Basinger. 2009. Historical biogeography of the genus *Chamaecyparis* (Cupressaceae, Coniferales) based on its fossil record. *Palaeodiversity and Palaeoenvironments* 89: 203-209.
30. **Liu, Y.S.** and J.F. Basinger. 2009. *Metasequoia* Miki ex Hu et Cheng (Cupressaceae) from the Eocene of Axel Heiberg Island, Canadian High Arctic. *Palaeontographica Abteilung B, Palaeobotany/Palaeophytology* 282(1-3): 69-97.
29. Wu, J.*, B. Sun, **Y.S. Liu**, S. Xie, and Z. Lin. 2009. A new species of *Exbucklandia* (Hamamelidaceae) from the Pliocene of China and its paleoclimatic significance. *Review Palaeobotany and Palynology* 155: 32-41.
28. Xia, K.*, T. Su*, **Y.S. Liu**, Y. Xing*, and Z. Zhou. 2009. Quantitative climate reconstructions of a late Miocene Xiaolongtan megaf flora from Yunnan, southwest China. *Palaeogeography, Palaeoclimatology, Palaeoecology* 276: 80-86.

2008

27. Liu, Y.S., R. Zetter, D.K. Ferguson, and C. Zou. 2008. *Lagerstroemia* (Lythraceae) pollen from the Miocene of eastern China. *Grana* 47: 262-271.
26. Jiang, Y.L. and Y.S. Liu. 2008. A simple and convenient determination of perylene preserved in the Late Neogene wood from northeastern Tennessee using fluorescence spectroscopy. *Organic Geochemistry* 39: 1462-1465.
25. Levy, F., J. Baker*, K. Chen, G. Cooke*, Y.S. Liu, E.S. Walker, and T. McDowell. 2008. Patterns of spread of hemlock woolly adelgid in Carolina hemlock populations. *Proceedings of the 4th Symposium on Hemlock Woolly Adelgid in the Eastern United States* (Hartford, CT Feb. 12-14, 2008). USDA and Forest Service, pp. 169-176.

2007

24. Liu, Y.S., R. Zetter, D.K. Ferguson, and B.A.R. Mohr. 2007. Discriminating fossil evergreen and deciduous *Quercus* pollen: a case study from the Miocene of eastern China. *Review of Palaeobotany and Palynology* 145: 289-303.

2005

23. Liu, Y.S. (academic editor) 2005. An Illustrated Microscopic Identification of Chinese Materia Medica. (Editor-in-Chief: Zhongzhen Zhao) *International Society for Chinese Medicine*. Chung Hwa Book Co., Hong Kong. 383 pp.

2004

22. Ji, Q., H. Li, L.M. Bower, Y.S. Liu, and D.W. Taylor. 2004. Early Cretaceous *Archaeofructus eoflora* sp. nov. with bisexual flowers from Beipiao, western Liaoning, China. *Acta Geologica Sinica* 78(4): 883-896.

2001

21. Liu, Y.S., R. Zetter, B.A.R. Mohr, and D.K. Ferguson. 2001. The flowers of an extinct legume from the Miocene of southern Germany. *Palaeontographica Abteilung B, Palaeobotany/Palaeophytology* 256(4-6): 159-174.

2000

20. Liu, Y.S. and J.F. Basinger. 2000. Fossil *Cathaya* (Pinaceae) pollen grains from the Canadian High Arctic. *International Journal of Plant Sciences* 161(5): 829-847.
19. Sun, G., S.L. Zhang, X.F. Wang, S.W. Mei, and Y.S. Liu. 2000. Subdivision of development stages of Early Angiosperms from NE China. *Acta Palaeontologica Sinica* 39(Supplement): 186-199.
18. Tao, J.R., Z.K. Zhou, and Y.S. Liu. 2000. *The Evolution of the Late Cretaceous – Cenozoic Floras in China*. Science Press, Beijing. 282 pages.

1998

17. Liu, Y.S. 1998. Late Cretaceous fruits/seeds and angiospermous leaves from Ping Chau Island, Hong Kong. In: Lee, C.M. et al. (eds.), *Stratigraphy and Paleontology of Hong Kong* Vol. 2. Science Press, Beijing, pp. 66-87.
16. Liu, Y.S., W.M. Wang, and A. Momohara. 1998. China's beech forest in the Pre-Quaternary. *Mitteilungen aus dem Museum für Naturkunde der Humboldt-Universität in Berlin - Geowissenschaftliche Reihe* 1: 151-166.

1997

15. Liu, Y.S., R. Zetter, and D.K. Ferguson. 1997. Fossil pollen grains of *Cathaya* (Pinaceae) in the Miocene of eastern China. *Mededelingen Rijks Geologische Dienst*, No. 58, pp. 227-235.
14. Ferguson, D.K., Y.S. Liu, and R. Zetter. 1997. The paleoendemic plants of East Asia: evidence from the fossil record for changing distribution patterns. In: Jablonski, N.G. (ed.), *The Changing Face of East Asia during the Tertiary and Quaternary*. Centre of Asian Studies, The University of Hong Kong, Hong Kong, pp. 359-371.

1996

12. Liu, Y.S. 1996. Foliar architecture of Betulaceae and a revision of Chinese betulaceous fossil leaves. *Palaeontographica Abteilung B, Palaeobotany/Palaeophytology* 239(4-6): 23-57.
11. Liu, Y.S., S.X. Guo, and D.K. Ferguson. 1996. A catalogue of Cenozoic megafossil plants in China. *Palaeontographica Abteilung B, Palaeobotany/Palaeophytology* 238(4-6): 141-179.
10. Liu, Y.S., A. Momohara, and S.W. Mei. 1996. A revision on the Chinese megafossils of *Fagus* (Fagaceae). *Journal of Japanese Botany* 71(2): 168-177.

1995

9. Liu, Y.S. and Q. Leng. 1995. The Miocene Shanwang Flora from Linqiu, Shandong. In: *International conference of diversification and evolution of terrestrial plants in geological time, guide book*: 10-14. Nanjing Institute of Geology & Paleontology, Chinese Academy of Sciences. (non refereed)
8. Liu, Y.S., R. Zetter, and D.K. Ferguson. 1995. Discovery of *Lagerstromieia* (Lythraceae) pollen grains from the Miocene of East China and their biogeographical significance. *Southern Connection Newsletter* (7): 17-19. (non refereed)
7. Liu, Y.S. and Y.H. Zheng. 1995. Neogene Floras. In: *Fossil Floras of China through the Geological Ages*, Eds. Xingxue Li et al. Guangzhou: Guangdong Science and Technology Press, pp. 506-551.

1994

6. Liu, Y.S., R. Zetter, and D.K. Ferguson. 1994. A method for identifying fossil spores and pollen grains. *American Association of Stratigraphic Palynologists Newsletter* 27(3): 13-16. (non refereed)

1993

5. Liu, Y.S. 1993. A palaeoclimatic analysis on the early Pleistocene flora of Changseling Formation, Baise Basin, Guangxi. *Acta Palaeontologica Sinica* 32, 151-170.

1991

4. Liu, Y.S. 1991. A solution to Darwin's "abominable mystery". *Plants* (4), 41. (non refereed)
3. Liu, Y.S., Z.Y. Zhou, and H.M. Li. 1991. First discovery of *Cycas* fossil pinnae from the Eocene Guchengzi Formation northeast China. *Chinese Science Bulletin* (22), 1758-1759.

1990

2. Liu, Y.S. 1990. Cuticular studies in two Pleistocene species of Lauraceae in the Baise Basin, Guangxi. *Acta Botanica Sinica* 32, 805-809.
1. Liu, Y.S. 1990. Progress in International Palaeobotany in 1989. *Advances in Earth Science* (5), 87-89. (non refereed)

VI. Fieldwork and Research Experience

- | | |
|-------------------|---|
| 07/2010 | Tertiary fruit/seed comparisons at the Szafer Institute of Botany, Krakow, Poland |
| 06/2010 | Fossil field trip to Yunnan, SW China (visited the Chenjiang Fauna type locality; Western Hills early Cambrian trilobite beds, Jurassic Lufeng Dinosaur Park, Triassic and Pliocene leaf sites) |
| 07/2009 | Fossil field trip to NE China (visited the Lower Cretaceous Jehol Biota in western Liaoning, K/T boundary in Jiayin of Heilongjiang, Eocene Fushun Coalmine of eastern Liaoning) |
| 11/2008 | Paleobotanical research at the Birbal Sahni Institute of Paleobotany, Lucknow, India |
| 08/2008 | Paleoclimatic research at the University of Bonn, Germany |
| 03/2008 | Paleofloristic research at the University of Vienna, Austria |
| 10/2007 | Collected Eocene plants at Paris, Tennessee |
| 05-07/2007 | Systematic research of fossil plants at Harvard University Herbaria |
| 08/2006 – present | Collected Neogene plants at the Gray Fossil Site, Tennessee |
| 06/2006 | Collected Paleocene plants at Almont, North Dakota |
| 10/2002 | Prospected fossils around Cedar City, Utah (Cretaceous plants) |

| | |
|------------|--|
| 07/1999 | Collected fossil plants on Axel Heiberg Island, Canadian High Arctic |
| 06/1998 | Botanized in northern France |
| 07-08/1997 | Botanical field trip around Germany |
| 10-11/1996 | Collected Cretaceous fossils (plants, insects) on Ping Chau Island, Hong Kong |
| 06/1996 | Botanized in Sequoia (Redwood) national forest park, California, USA |
| 07-08/1995 | Botanized and fossil collecting in central Japan |
| 10/1994 | Botanized and fossil collecting in eastern Netherlands and western Germany |
| 08/1994 | Botanized and collecting Tertiary plants in Bohemia, Czech Republic |
| 07/1994 | Botanized in the Austria Alps and Lower Austria |
| 02/1994 | Botanized in Romania |
| 07-08/1993 | Botanized and collected fossil plants around China with visiting Austrian botanists/ paleobotanists |
| 09/1991 | Botanized the temperate vegetation in northeast China |
| 08/1990 | Botanized the subtropical vegetation in central China |
| 03-05/1988 | Collected Tertiary plants in Baise Basin, Guangxi, southwestern China |
| 10/1987 | Botanized the subtropical vegetation in eastern China |
| 06-07/1987 | Collected Miocene plants in southeastern China |
| 01-05/1986 | Botanized the Mt. Emei, southwestern China |
| 07-08/1985 | Botanized the Mt. Hengduan, southwestern China |

VII. Undergraduate/Graduate Theses/Dissertations Supervised

- **Undergraduate/Honors Students at East Tennessee State University:**
 - **Holly Nier** (Spring-Fall 2010): Systematics of *Corylopsis* (Hamamelidaceae) Seeds from the Gray Fossil Site and Their Paleocological Implications
 - **Scott Harris** (Spring 2009): Database of the Neogene Floras in North America: Application in Paleoclimate Reconstructions
 - **Brenda Warner** (Spring 2008): Taxonomy of hickory nuts (*Carya*, Juglandaceae) from the Gray Fossil Site, Northeast Tennessee
 - **Allison Wallace** (Fall 2008): Applying Paleontological Education of the Gray Fossil Site to Tennessee Science Education Standards
 - **Devon Bacon** (Fall 2007): Taxonomy of *Quercus* (Fagaceae) Leaves from the Gray Fossil Site, Northeast Tennessee
 - **Shady Bassaly** (Fall 2006 – Spring 2008): Systematics of *Vitis* (Vitaceae) Seeds from the Gray Fossil Site
 - **Taylor Wright** (Fall 2006 – Fall 2007): Taxonomy of Moonseeds (*Sinomenium*, Menispermaceae) from the Gray Fossil Site, Tennessee and Their Ecological Significance
 - **Graham Cooke** (Fall 2006 – Spring 2008) and **Rachel Wolfe** (Fall 2007): Systematic Survey of Micromorphology of the Foliar Cuticle of Modern Hemlock (*Tsuga*)

- **Undergraduate Students at University of Wisconsin-Stevens Point:**
 - **Nick Collins** (Fall 2004 – Spring 2005): Taxonomy of *Metasequoia* (Dawn Redwood) from the Paleocene of Almont, North Dakota.
 - **Kerry Inda** (Fall 2005): Curation of the Paleontology Collection in the Department of Biology, UWSP.
 - **Nicole Johnson** (Fall 2005): Paleoclimatic Reconstructions from Fossil Leaf Assemblages.
 - **Justin R. Kahler** (Fall 2004 – Fall 2005): Taxonomy of *Glyptostrobus* (Chinese Swamp Cypress) from the Paleocene of Almont, North Dakota.
 - **Megan Pratt** (Spring 2004): Review of fossil and living leaf cuticle and epidermal techniques.

- **Master's Students at East Tennessee State University (Committee chairman):**
 - **Nathan Noll** (Fall 2010 – present): Climate Evolution in the Miocene of Eastern North America: Evidence from Fossil Plants
 - **Diana Ochoa-Lozano** (Fall 2009 – present): Neogene Palynology of the Gray Fossil Site: Biostratigraphic and Paleoecological Implications
 - **Fade Gong** (Fall 2007 – Fall 2009): *Vitis* Seeds (Vitaceae) from the Late Neogene Gray Fossil Site, Northeastern Tennessee, USA ()

- **Ph.D. Students Abroad:**
 - **In China:** co-advisor with *Professor Zhekun Zhou, Kunming Institute of Botany & Xishuangbanna Tropical Botanical Garden, Chinese Academy of Sciences*
 - **Yongjiang Huang** (Fall 2009 – present): A Miocene Carpoiflora from Yunnan, SW China and Its Paleoclimatic and Paleoecological Significance
 - **Tao Su** (Fall 2008 – present): Fossil Evidence for Patterns of Leaf-Feeding from the Miocene of SW China
 - **Yaowu Xing** (Spring 2007 – Fall 2009): Paleoclimatic Analyses on Miocene Floras from Southwest China
 - **In Thailand:** co-advisor with *Dr. Paul Grote, School of Biology, Institute of Science, Suranaree University of Technology*
 - **Pitchanat Ngerndee** (Spring 2010 – present): Estimation of Paleoclimate from Cenozoic Plant Assemblages in Thailand

- **Postdoctoral researcher/visiting scholar at East Tennessee State University:**
 - **Dr. Lu Han (Jilin University, China; October 2007 – August 2008):** Systematics of fossil oak acorns from the late Neogene Gray site, Tennessee
 - **Dr. Cheng Quan (Jilin University, China; August 2010 – July 2011):** Paleogene Thermal Optimum – Evidence from the Tertiary Floras in East Asia
 - **Mr. Wenlong He (Lanzhou University, China; Nov. 2010 – Oct. 2012):** Neogene floras from East China and the paleoclimatic and paleoecologic implications

VIII. Graduate Theses Committee Memberships

- **Master's Students at East Tennessee State University:**
 - **Pavan Chandra Chigurupati** (Fall 2009 – present): Role of Tobacco SABP2 in Non-host Resistance
 - **Shannon McConnell** (Fall 2007- Summer 2010): The Possible Occurrence of Stomach and Intestinal Parasites in an Articulate Tapir (*Tapirus polensis*) Recovered from the Miocene Gray Fossil Site, Northeast Tennessee
 - **Chase Beck** (Fall 2007 – Summer 2010): The Analysis of Paleobotanical Remains from Native American Sites in the Tennessee Region of the Upper Cumberland Plateau
 - **Jordan Baker** (Fall 2006 – Spring 2009): Molecular and Morphology-Based Systematic Analysis of Species Relationships in Genus *Tsuga*.

XI. CONFERENCE PRESENTATION/RESEARCH SEMINAR (* - UNDERGRADUATE/GRADUATE STUDENT)

2011

- Quan, C., Y.S. Liu, and T. Utescher. 2011. Paleogene evolution of precipitation in northeast China supporting the mid Eocene intensification of the East Asian monsoon. Abstracts for the Annual Meeting of the Botanical Society of America. July 9-13, St. Louis, Missouri.
- Quan, C., Y.S. Liu, and T. Utescher. 2011. Climatic gradients, distribution and evolution of the East Asian Eocene. Abstracts for the Annual Meeting of the Botanical Society of America. July 9-13, St. Louis, Missouri.

Zhou, Z.Y., Quan, C., and **Y.S. Liu**. 2011. Tertiary *Ginkgo* ovulate organs with associated leaves from North Dakota USA and its evolutionary significance. Abstracts for the Annual Meeting of the Botanical Society of America. July 9-13, St. Louis, Missouri.

2010

Ochoa-Lozano, D.* , **Y.S. Liu**, and M.S. Zavada. 2010. Floral composition and paleoecological implications of a Late Neogene flora from the Gray Fossil Site, northeastern Tennessee: results from pollen analysis. Geological Society of America (GSA) Annual Meeting, Denver, CO. Oct. 31-Nov. 3, 2010.

Liu, Y.S. 2010. The evolution of Miocene climates in North China: preliminary results of quantitative reconstructions from plant fossil records. Abstracts for the Annual Meeting of the Botanical Society of America. July 31-August 4, Providence, Rhode Island.

Liu, Y.S. 2010. Contributions of Conifer Fossils to Plant Taxonomy, Evolution and Paleobiogeography: Examples of Eocene Remains of Cupressaceae from the Arctic. 8th European Palaeobotany and Palynology Conference, Budapest, Hungary, July 6-10, 2010.

Liu, Y.S. 2010. A Late Neogene carpoiflora from southeastern North America. 8th European Palaeobotany and Palynology Conference, Budapest, Hungary, July 6-10, 2010.

Liu, Y.S. 2010. Exotic plants at the Gray site: why did they die out at Gray? 2010 Gray Fossil Site Symposium, Gray Fossil Site, TN. April 10, 2010.

Ochoa-Lozano, D.* and **Y.S. Liu**. 2010. In search of greener side of the Gray site: reconstructing plants. 2010 Gray Fossil Site Symposium, Gray Fossil Site, TN. April 10, 2010.

2009

Liu, Y.S. 2009. Climate evolution of eastern North America in the late Neogene. Abstract for the 10th NECLIME (*Neogene Climate Evolution in Eurasia*) Annual Meeting, Izmir, Turkey. September 28-October 1, 2009.

Liu, Y.S., C. Quan, and G. Sun. 2009. Early Paleogene climate evolution in NE China: evidence from the fossil floras in Fushun coalfield, NE China. Abstract for the International Symposium of Paleontology, Chaoyang, China. September 12-13, 2009.

Liu, Y.S. and M. Zavada. 2009. Paleoclimatic reconstruction of the late Neogene flora from Gray, Tennessee. Abstracts for the Annual Meeting of the Botanical Society America. July 25-29, 2009. Snowbird, Utah.

Gong, F.* , I. Karsai, and **Y.S. Liu**. 2009. Grape seeds (*Vitis*) from the late Neogene Gray Fossil Site, northeast Tennessee. Abstracts for the Annual Meeting of the Botanical Society America. July 25-29, 2009. Snowbird, Utah.

Wallace, A.* and **Y.S. Liu**. 2009. Applying paleontological education of the Gray Fossil Site to Tennessee Science Education Standards. Abstracts for the 9th North American Paleontological Convention (NAPC), Cincinnati, OH. June 21-26, 2009. pp. 208-209.

Liu, Y.S. 2009. A unique Late Neogene flora from NE Tennessee and its paleoclimatic, paleoecological and paleobiogeographic significance. Invited research seminar in Geobiology Seminar, Department of Geosciences, Virginia Tech. 02/05/2009.

2008

Liu, Y.S. 2008. Biogeography of fossil plants from the Gray Fossil Site, southeastern North America. Invited research seminar at the Birbal Sahni Institute of Palaeobotany, Lucknow, India. 11/24/2008.

Liu, Y.S. 2008. Out-of-India migrations: evidence from plant fossils. Abstracts of Lectures, pp. 14. Brainstorming Session on Out-of-India Biotic Dispersal, 22-23 November, Indian National Science Academy (INSA), New Delhi. Organized by the Department of earth Sciences, Indian Institute of Technology, Roorkee. India.

Liu, Y.S. 2008. *Sinomenium macrocarpum* (Menispermaceae) endocarps from the Gray Fossil Site (Latest Miocene-Earliest Pliocene), northeast Tennessee. Terra Nostra (Schriften der GeoUnion Alfred-Wegener Stiftung) 2: 171. Abstract Volume of the XII International Palynological Congress (IPC-

- XII) and VIII International Organisation of Palaeobotany Conference (IOPC-VIII). University of Bonn, Germany. August 30 – September 5, 2008.
- Stults, D.*, B. Axsmith, and **Y.S. Liu**. 2008. Haploxyton pines from the Mid-Pliocene Citronelle Formation. Abstracts for the Annual Meeting of the Botanical Society America. July 26-30, 2008. University of British Columbia, Vancouver, B.C., Canada.
- Liu, Y.S.** 2008. A Neogene flora from Tennessee. Invited research seminar in Department of Biology, University of South Alabama, Mobile. 03/19/2008.

2007

- Levy, F., J. Baker*, K. Chen, G. Cooke*, **Y.S. Liu**, T. McDowell. 2007. Microscale analysis of the distribution of hemlock woolly adelgid in newly colonized and heavily infested forests. 18th Annual Southern Appalachian Man and the Biosphere Conference. October 22-24, 2007, Carnegie Hotel, Johnson City, Tennessee.
- Liu, Y.S.** 2007. A Late Miocene-Early Pliocene flora from Gray of northeastern Tennessee, southeastern North America. Proceedings of the International Symposium on Paleontology & Stratigraphy in Benxi of China. pp. 66. Benxi, Liaoning Province, China. October 3-8, 2007.
- Liu, Y.S.**, R. Zetter, and D.K. Ferguson. 2007. Out-of-India dispersal hypothesis: evidence from crepe myrtle fossils (*Lagerstroemia*, Lythraceae). Abstracts of the 1st International Palaeobiogeography Symposium. Paris, France. July 10-13, 2007. p. 67.
- Liu, Y.S.**, T. Wright*, and S.M. Bassaly*. 2007. The occurrence of East Asian plants in the Late Miocene-Early Pliocene flora from Gray, northeastern Tennessee. Abstracts for the Annual Meeting of the Botanical Society America. July 7-11, 2007. Chicago, IL.

2006

- Liu, Y.S.**, R. Zetter, D.K. Ferguson, and B.A.R. Mohr. 2006. Evergreen and deciduous *Quercus* from the Miocene of Zhejiang, eastern China: the pollen record. Abstracts for the Annual Meeting of the Botanical Society America. *Chico, California State University. July 28-August 2, 2006. Annual Meeting of the Botanical Society of America.*
- Liu, Y.S.** 2006. Historical biogeography of *Chamaecyparis* (Cupressaceae). Abstract for the *Second International Palaeontological Congress, June 17-21, 2006, Beijing, China.*

2005

- Kahler, J.* and **Y. S. Liu**. 2005. Discovery of 55 million-year-old Chinese swamp cypress (*Glyptostrobus* Endl., Gymnospermae) from Almont, southwest North Dakota. Abstract for the 3rd Annual Seven Rivers Undergraduate Research Symposium on 11/11/2005 at Viterbo University, 900 Viterbo Drive, La Crosse, WI.
- Liu, Y.S.** 2005. Leaves of *Cephalotaxus* from the Paleocene of Almont, North Dakota, U.S.A. Abstracts for the Annual Meeting of the Botanical Society America. *Austin, Texas, August 13-17, 2005.*
- Liu, Y.S.** and J. F. Basinger. 2005. Fagaceous fossils from the Eocene Buchanan Lake Formation, Axel Heiberg Island, Canadian High Arctic. Submitted for *XVII International Botanical Congress, Austria Center, Vienna, 17-23 July 2005.*

2004

- Liu, Y.S.** 2004. The first flower: recent fossil discoveries in China. Invited research seminar in Botanical Club of Wisconsin (Central Wisconsin Chapter). 04/20/2004.

2002

- Ji, Q., H. Li, L.M. Bove, **Y.S. Liu**, and D.W. Taylor. 2002. The earliest fossil herbaceous flowering plant from the Yixian Formation, Sihetun, Liaoning, northeastern China. Abstracts for the Annual Meeting of the Botanical Society America.

Liu, Y.S. 2002. "Advance in Arctic Paleobotany" – 19th Midcontinent Paleobotanical Colloquium (MPC), Florida Museum of Natural History, University of Florida. March 1, 2002.

Before 2000

- Martinetto, E., A. Momohara, and Y.S. Liu. 1997. A paleoclimatic analysis of the Pliocene floras of Italy based on the modern East Asian analogues. - *Abstracts of the Second European Palaeontological Congress (Climates: Past, Present and Future)*, Vienna, Austria. p. 53.
- Liu, Y.S., R. Zetter, D.K. Ferguson, and B.A.R. Mohr. 1996. Fossil flowers of leguminous affinity with tricolporate pollen in situ from the Sarmatian of Germany. - *Abstracts of the Fifth Conference of the International Organization of Palaeobotany, June 30 - July 5, 1996, Santa Barbara, California, USA*. p. 61.
- Liu, Y.S. and A. Momohara. 1996. A revision on the Chinese megafossils of *Fagus* (Fagaceae). - *Abstracts of the Fifth Conference of the International Organization of Palaeobotany, June 30 - July 5, 1996, Santa Barbara, California, USA*. p. 61.
- Ferguson, D.K., Y.S. Liu, and R. Zetter. 1996. The Palaeoendemic Plants of East Asia: Evidence from the Record for Changing Distribution Patterns. *Proceedings 4th International Conference on The Evolution of the East Asian Environment at Hong Kong, January 1995*, p.20.
- Ferguson, D.K., Y.S. Liu, and R. Zetter. 1995. China's endemic genera from a palaeobotanical perspective. *Abstracts of the International Conference of Diversification and Evolution of Terrestrial Plants in Geological Time, Nanjing, China, September 4-8, 1995*, p.69-70.
- Liu, Y.S., D.K. Ferguson, and R. Zetter. 1995. Biogeographical analysis of the genus *Cathaya* (Pinaceae). *Abstracts of the International Conference of Diversification and Evolution of Terrestrial Plants in Geological Time, Nanjing, China, September 4-8, 1995*, p.77-78.
- Liu, Y.S. 1994. "First Discovery of *Cathaya* Pollen Grains from the Miocene in eastern China" - 4th European Palaeobotanical and Palynological Conference. Heerlen, the Netherlands. September 5, 1994.
- Liu, Y.S. 1992c. First discovery of *Cycas* fossil pinnae in China with comments on phylogeny and historical phytogeography of *Cycas*. *Abstracts of the XV International Botanical Congress at Yokohama, Japan, August 28-September 3, 1993*, p.238.
- Liu, Y.S. 1992b. Leaf architecture of Betulaceae. *Abstract of the XV International Botanical Congress at Yokohama, Japan, August 28-September 3, 1993*, p.238.
- Liu, Y.S. 1992a. Fossil history of Chinese Betulaceae. *Abstracts of the XV International Botanical Congress at Yokohama, Japan, August 28-September 3, 1993*, p.238.
- Liu, Y.S. 1987. Introduction to one of the botanical evolutionary theories: Neoteny. *Abstract of the Second Congress of the Palaeobotanical Society of China, Nanjing, November 1987*, p.20-21.
- Liu, Y.S. 1984. Brief survey of the flora in the Emei Mountain, Sichuan Province, southwest China. *Abstracts of the First Congress of Youth Biologists, Department of Biology, Sichuan University, October 1984*, p.14-17.

E. UNIVERSITY/COMMUNITY SERVICE AND ADMINISTRATIVE ACTIVITY

PROFESSIONAL ASSOCIATIONS/SERVICE

- Member of *Paleobotanical Section* of the **Botanical Society of America**
- Member of **Botanical Society of America**
- Member of **International Organization of Palaeobotany**
- Member of **Geological Society of America**
- 07/06-07/10/2010: Symposium convenor (Symposium 8. *Cenozoic conifers: systematics, evolution, and historical biogeography*), 8th European Palaeobotany and Palynology Conference, Budapest, Hungary.
(<http://www.eppc2010.org/modules.php?name=scientific>)

- 03/13-15/2009: Organizer of the 26th Midcontinent Paleobotany Colloquium, East Tennessee State University. (<http://faculty.etsu.edu/liuc/mpc26.htm>)
- 08/2008 – present: Member of the International Research Forum on *Neogene Climate Evolution in Eurasia* [NECLIME] (<http://www.neclime.de>)
- 01~05/2003: Co-organizer of the 20th Midcontinent Paleobotany Colloquium, Field Museum of Natural History, Chicago. (<http://fm1.fieldmuseum.org/aa/Files/yliu/1-circular.html>).

DEPARTMENT SERVICE

- Spring 2009: Member of Ph.D. Program Developing Committee in Biology Department, East Tennessee State University (ETSU)
- Spring 2008: Member of Departmental Bylaws Committee
- 12/2007 – 03/2008: Screen and searching committee member for Chair of Department of Geoscience, ETSU
- 08/2006-present: Member of Honors-in-Discipline Committee, ETSU
- 08/2006-present: Member of Graduate Committee, ETSU.
- 08/2006-present: Member of Student Awards Committee, ETSU
- 03/2005: Screen and searching committee member for Assistant Professor of Plant Geneticist, University of Wisconsin-Steven Point (UWSP)
- Fall 2004-Spring 2006: Academic advisor for undergraduate students of biology majors, UWSP.
- Fall 2003-Spring 2006: Member of Curriculum Committee, UWSP
- Spring 2004-2006: Member of Pit Crew Discussion Group (forum of junior faculty in Biology Department for teaching and research development), UWSP.
- Fall 2001-Spring 2003: Standing Committee Member, Common Ground Project (centralized database for museum collections management), Field Museum of Natural History

UNIVERSITY AND COMMUNITY SERVICE

- 05/2010-present: Education Affairs Committee, College of Arts & Sciences, ETSU
- 05/2010-present: Awards Committee, College of Arts & Sciences, ETSU
- 08/2009: ETSU Student Orientation for Biology Department
- 04/25/2009: Invited speaker of Eco-Smart Talk at the **Gray Fossil Site** – ‘*Exotic Plants in North American Geological Past: Plant Extinction*’
- 2009- present: Fossil Identification Nights, Outreach Program at the **Gray Fossil Site**
- 10/2008: Helped to initiate an ETSU international education exchange program with China’s Shenyang Normal University
- 01/2007-present: Paleobotany Curator and Member of Collections Committee, ETSU and General Shale Brick Natural History Museum and Visitor Center at the Gray Fossil Site
- 02/21/2008: Invited public talk for *Southern Appalachian Plant Society: The biogeographic significance of fossil plants from the Gray Fossil Site, Tennessee*. East Tennessee State University D. Culp Center
- 2007-2010: Judge in the Upper East Tennessee Regional Science Fair
- 08/2006-present: Member of Don Sundquist Center of Excellence in Paleontology, ETSU

- 04/2005: Instructor for **College Days for Kids** program, Network for Gifted Education, University of Wisconsin-Stevens Point – four lectures on the “*Exploration of 45-million-year-old plants in the Arctic*” for 114 students from the Stevens Point School District
- 04/25/2004: Fossil Display for the University of Wisconsin-Stevens Point Open House
- 09/2001-08/2003: Standing Committee Member, Common Ground Project (centralized database for the museum collections management), Field Museum of Natural History, Chicago
- 04/2002: Searching Committee member for Collections Assistant, Department of Geology, Field Museum of Natural History, Chicago

ADMINISTRATIVE ACTIVITY

- 09/08/2008 – 09/01/2009: Interim Director of Center of Excellence in Paleontology, East Tennessee State University