

VITA FOR JU CHOU

PERSONAL DETAILS

Name: Ju Chou

Date of birth: February 28, 1958

Place of birth: Taipei, Taiwan, R.O.C.

Present position: Professor

Graduate Institute of Environmental Education

National Taiwan Normal University

88, Ting-Jou Rd., Sec. 4, Taipei, Taiwan 116, R.O.C.

Tel: 886-2-77346568 (work)

886-2-22300981 (home)

Fax: 886-2-29336947 (work)

886-2-22300981 (home)

E-mail: t73003@ntnu.edu.tw

ACADEMIC QUALIFICATIONS

Ph.D. October 1991

Major: Environmental Education, Minor: Environmental Management
The Ohio State University, School of Natural Resources, Columbus, Ohio,
U.S.A.

Dissertation: Determination of the Underlying Constructs of Basic
Concepts in Environmental Education as Perceived by Faculty of Ohio
State University and National Taiwan University

M.S. in Environmental Education/Communication May 1986

State University of New York, College of Environmental Science and
Forestry, Syracuse, New York, U.S.A.

B.S. in Biology June 1981

Tunghai University, Department of Biology, Taichung, Taiwan, R.O.C.

POSITIONS HELD

- 06.04 ~ present *Professor*, Graduate Institute of Environmental Education,
National Taiwan Normal University
- 02.05 ~ 08.05 *Visiting Professor*, Design and Social Context, Royal
Melbourne Institute of Technology University, Melbourne,
Victoria, Australia.
- 08.01 ~ 07.04 *Director*, Graduate Institute of Environmental Education,
National Taiwan Normal University
- 07.97 ~ 09.97 *Visiting Associate Professor*, School of Natural Resources, The
Ohio State University, Columbus, Ohio, U.S.A.
- 08.93 ~ 05.04 *Associate Professor*, Graduate Institute of Environmental
Education, National Taiwan Normal University

- 02.92 ~ 07.93 *Research Fellow*, Environmental Education Center, National Taiwan Normal University
- 07.86 ~ 06.88 *Specialist*, July 1986-June 1988, Office of Comprehensive Planning, Environmental Protection Administration, Government of Taiwan, Republic of China
- 05.85 ~ 11.85 *Environmental Educator*, Pocono Environmental Education Center Dingmans Ferry, Pennsylvania, U.S.A.

RESEARCH EXPERIENCE

Research Areas

- National and international policies and strategies in environmental education and education for sustainable development
- Basic constructs and concepts of environmental education, and curriculum planning
- Assessment and evaluation of formal and non-formal environmental education and communication program
- Issues and trends in urban environmental education
- Environmental interpretation
- Assessment and evaluation of environmental interpretation program
- Environmental learning center's (nature center) issues such as programs, human resources, facilities, and management
- Issues and trends in education for sustainable development
- Concept learning in environmental education

Research Projects and Key Tasks

- 08.11 ~ 07.12 Coordinator, "The Study of the Current Situation and Promotion Strategies for Taiwan's Environmental Learning Centers" (National Science Council's research project, NSC100-2511-S-003-030)
- 04.11 ~ 05.12 Coordinator, "Development Plan of Nature Center in Yehliu Geopark" (North Coast & Guanyinshan National Scenic Area, Tourism Bureau, Ministry of Transportation and Communications cooperate with Neo-Space International Inc.)
- 09.09 ~ 07.11 Coordinator, "Using Logic Model in the Development, Implementation and Evaluation of Routine-Based Environmental Education Program in Nature Center--- A Case Study from Guandu Nature Center" (National Science Council's research project, NSC98-2511-S-003-007-MY2)
- 03.09 ~ 03.10 Coordinator, "Guidance and Enhancement Plan for Nature Centers of Taiwan Forestry Bureau" (Taiwan Forestry Bureau, Council of Agriculture, Executive Yuan)

- 08.08 ~ 07.09 Coordinator, “The Relationships of Factors Resulting in College Students’ Behavior of Stopping Global Warming” (National Science Council’s research project, NSC97-2511-S-003-029)
- 07.06 ~ 08.08 Coordinator, “Development plan of nature centers of national forestry recreation areas, Taiwan Forestry Bureau” (Taiwan Forestry Bureau, Council of Agriculture, Executive Yuan)
- 04.06 ~ 12.06 Coordinator, “Strategic analysis and development of environmental education for Environmental Protection Administration, Executive Yuan” (Environmental Protection Administration, Executive Yuan)
- 07.05 ~ 12.05 Coordinator, “Promoting the education for sustainable university at National Taiwan Normal University” (Environmental Protection Office, Ministry of Education)
- 03.05 ~ 12.05 *Coordinator*, research project “Comprehensive planning of policy and strategies for environmental education development of Taiwan Forest Services” (Taiwan Forest Service Research Project)
- 07.05 ~ 12.05 *Coordinator*, implementation project “An university-based implementation of education for sustainable development-National Taiwan Normal University’s Sustainable Campus initiative” (Ministry of Education funded Implementation Project)
- 09.04 ~ 12.04 *Coordinator*, training project “Working together to become a competent environmental interpreter in Taiwan Forest Service’s Forest Recreation Area” (Taiwan Forest Service Interpreter Professional Development Project)
- 08.03 ~ 07.04 *Coordinator*, research project “ A research on the EE development model in nature centers – a case study of Guandu Nature Center II” (2/2) (National Science Council Research Project)
- 08.02 ~ 07.03 *Coordinator*, project “Study on EE development models in nature centers – a case study of Guandu Nature Center I” (1/2) (National Science Council Research Project)
- 08.01 ~ 07.02 *Coordinator*, “Whole language based environmental education at early elementary school teaching: An action research” (National Science Council Research Project)
- 12.01 ~ 04.02 *Coordinator*, “Training and program development for environmental education and interpretation for national park interpreters” (Construction and Planning Agency, Ministry of Interior Research Project)

- 08.00 ~ 07.01 *Coordinator*, “Teachers’ Guidelines development and standards for selecting EE materials” (National Science Council Research Project)
- 08.00 ~ 12.00 *Co-coordinator*, “Master planning and implementation of EE training projects and information and education centers in national parks” (Research Project Construction and Planning Agency, Ministry of Interior)
- 09.99 ~ 07.00 *Coordinator*, “Research and planning of local environmental learning center - A case study of metro-Taichung City” (Research Project, Division of Environmental Protection, Ministry of Education)
- 09.99 ~ 06.00 *Coordinator*, “Study on the planning of the establishment of an urban environmental learning center in Hsindian River Park of Taipei City” (Research, Development and Evaluation Commission, Taipei City Government)
- 09.98 ~ 06.99 *Coordinator*, “Planting trees to protect our water source: the development of EE supporting materials for elementary school” (R & D Project, EPA & Chinatimes Educational Foundation)
- 09.98 ~ 06.99 *Co-coordinator*, “Research on EE curriculum goals and materials for Grades 1-9 Integration” (Ministry of Education Research Project)
- 01.98 ~ 06.98 *Coordinator*, “Research and Planning for the Establishment of EE centers in National Parks – a case study of Yangmingshan National Park” (Construction and Planning Agency, Ministry of Interior Research Project)
- 08.97 ~ 07.98 *Coordinator*, “Action Research and the Development of Teachers’ EE Abilities” (National Science Council Research Project)
- 08.96 ~ 07.97 *Coordinator*, “Preliminary study on using the Internet to promote EE methods” (National Science Council Research Project)
- 08.95 ~ 05.96 *Coordinator*, “Effect of Ministry of Education sponsored nature center environmental education in-service teacher training program in Taiwan” (Environmental Protection Working Group, Ministry of Education)
- 08.95 ~ 07.96 *Coordinator*, “Study on NGO models of EE (II)” (National Science Council Research Project)

08.94 ~ 07.95	<i>Coordinator</i> , “Study on NGO models of EE, part I” (National Science Council Research Project)
08.93 ~ 06.94	<i>Coordinator</i> , “Discussion and analysis of problems with EE in-service teacher training” (Division of Environmental Protection, Ministry of Education Project)
04.94 ~ 06.94	<i>Coordinator</i> , “Study on strategies for promoting EE” (Environmental Protection Administration, Executive Yuan)
02.94 ~ 07.95	<i>Co-coordinator</i> , “Study on conceptual framework of 8 th graders’ environmental knowledge” (National Science Council Research Project)
04.93 ~ 09.93	<i>Co-coordinator</i> , “Developing the focus of EE research in Taiwan” (National Science Council Research Project)
From 03.94	<i>Coordinator</i> , “River EE plan” (Jointly sponsored by the EPA and the Green Consumer Foundation)
01.93 ~ 06.93	<i>Co-coordinator</i> , “Research on developing a national environmental education act” (EPA, Executive Yuan)
08.92 ~ 07.93	<i>Coordinator</i> , “Research on the conceptual framework of EE in Taiwan” (National Science Council Research Project)
03.92 ~ 06.92	<i>Coordinator</i> , “Supplementary EE material development and design for higher grade levels of elementary schoolchildren” (EPA, Executive Yuan)
03.88 ~ 07.88	<i>Co-Researcher</i> , “Planning the establishment of a EE center in National Taiwan Normal University” (EPA and NTNU)
12.87 ~ 06.88	<i>Co-Researcher</i> , “Planning regional promotion of EE in Taiwan” (EPA and NTNU)
01.88 ~ 06.88	<i>Co-Researcher</i> , “Plan to promote EE for Chinese youth” (EPA and Scouts Of China)
07.83 ~ 03.84	<i>Research Assistant</i> , “R.O.C.--U.S.A. Joint Science Program, No. FCR-141” (National Defense Medical Center, Parasitology and Tropical Medicine)

RESEARCH AND DEVELOPMENT INTEREST

1. Research and development in the fields of learning regarding concern, knowledge, and behavior in formal and non-formal EE and ESD
2. Principles and methods of EE applications and environmental teaching in environmental management and resource conservation

Research

Planning and analysis of EE policies; evaluation and analysis of environmental awareness, attitude and knowledge; program evaluation of EE and environmental interpretation, planning and development of urban EE; development of environmental action skills; review of EE plans; research of EE conceptual framework; conceptual studies; environmental behavior; applications of the Internet in EE; cross-cultural studies of EE

Development

System planning of formal and non-formal EE; planning for environmental learning center/nature center, program design and development of EE, environmental interpretation program, interpretive trail design, curriculums and teaching material for different age groups; In-service and pre-service teacher training in EE areas; planning and development of multimedia EE

Interest of Teaching Areas

- EE Curriculum Planning
- Instructional Methods of EE
- Urban Environmental Education
- Global Environmental Problems and Environmental Education
- Research Methods for EE
- Environmental Interpretation
- Environmental Communication
- Natural Resources Conservation
- Environmental Science
- Environmental Ecology
- Development of Environmental Action Skills
- Development and Strategy for EE Development
- Local, regional and international EE System Master Planning

ACADEMIC ACTIVITIES AND HONORS

Involvement in Academic Journal

- *Reviewer*, Environmental Education Research (UK), 2009~present
- *Advisory Editor*, Australian Journal of Environmental Education (Australia), 1999 ~2011
- *Chief Editor*, Journal of Environmental Education Research (Taiwan), 2003 ~ 2009

Visiting to Foreign University

- *Visiting Professor*, College of Design and Social Context, Royal Melbourne Institute of Technology University, February-August, 2005, Australia
- *Visiting Associate Professor*, School of Natural Resources, The Ohio State University, July~September 1997

Inviting to International EE Activities

- *Invited Speaker*, 2011 Forum on Environmental Education Base and Technical Cooperation between Chinese and Japanese Forestry Learning Symposium, Center for Environmental Education & Communications of Ministry of Environmental Protection of China, November 22-25, 2011, Guangzhou, China.
- *Socio-Scientific Committee member*, 2011 World Environmental Education Congress, July 19-23, 2011, Brisbane, Australia
- *Advisory Committee Member*, “Education for Sustainable Development for Middle School,” Center for University and School Partnership, The Chinese University of Hong Kong, 07.2008 ~ 02.2010
- *Consultant*, Asia Good ESD Practice Project (AGEPP), Japan Council on the UN Decade of Education for Sustainable Development, 2008
- *Invited Speaker*, 4th Annual Symposium on Education for Sustainable Development, Center for Environmental Education & Communications of Ministry of Environmental Protection of China, January 6-7, 2008, Beijing, China
- *Invited Speaker*, International Conference on Environmental Education 2007: Focus on Rice Fields, October 29, 2007 at Keidanren Kaikan, Tokyo, Japan
- *Invited Speaker*, International Conference on Education for Sustainable Development: Beyond Environmental Education and Development Education & ESD Workshop, September 22-25, 2005, Tokyo, Japan.
- *Keynote Speaker*, The Eighth UNESCO/Japan Seminar on Environmental Education in Asian-Pacific Region, September 13-15, 2004, Tokyo, Japan
- *Consultant*, Curriculum Committee, Postgraduate Diploma Program of the Education for Sustainable Development, Faculty of Education, Chinese University of Hong Kong, 2004~ present.
- *Representative of Taiwan*, Learning to Change Our World: International Consultation on Education for Sustainable Development, Gothenburg, Sweden, May 2004
- *Taiwan Co-coordinator*, International Network of UNESCO Chair on Reorienting Teacher Education to Address Sustainability, 2001~present
- *Education Coordinator*, “EE theory and practice strategies” specialized and advanced curriculum for elementary grade EE, jointly sponsored by the Education Department of Hong Kong; Chinese University of Hong Kong Faculty of Education – university and alumni cooperation center; and the Chinese University of Hong Kong – HK education research institute, May 2002
- *Visiting specialist* in EE planning for television curriculum, “international committee for solving mutual environmental problems of the US and Canada” International Joint Commission, Washington, DC., April 1991

Participation to Academic Organizations

- *Member*, North American Association for Environmental Education (NAAEE), 1985~present
- *Member*, Association of Nature Center Administrators (ANCA), 1998 ~ present
- *Member*, National Association of Interpretation (NAI), 1995 ~ present

- *President*, Chinese Society of Environmental Education (CSEE), 2001~2003
- *Board Member*, Chinese Society of Environmental Education, 1993 ~ present
- *EE Committee Member*, Society of National Park, ROC. 1992 ~ 1993

Honours and Awards

- *Recipient*, 2009 National Forestry and Conservation Honour Award, Ministry of Agriculture, March 12, 2009
- *Recipient*, 35th National Science Council, Science and Technology Professionals Grants for Research Abroad
- *Recipient*, Excellence of Research Grant, National Science Council, 1994, 1996
- *Recipient*, Alumni Research Award, The Ohio State University
- *Scholarship recipient*, Research abroad in the field of environmental education, Ministry of Education, 01.1989 ~ 12.1991
- *Scholarship recipient*, State University of New York Research Foundation, 1984 ~1985

Consultation to Government

- *Advisory Committee Member*, National Environmental Education Law, Environment Protection Administration, Executive Yuan, 2011 ~ present
- *Expert Member*, Resource Integration and Reward Support System of Outdoor Teaching for Elementary and Middle Schools, Ministry of Education, 2010 ~ present
- *Consultant*, Environmental Education and Interpretation, Project of the Planning and Designing of Heng-Chun Tropical Botanical Garden and Kenting Forestry Recreational Area, Field Operations (a landscape architecture company based in New York City), U.S.A. and Taiwan Forest Research Institute, Ministry of Agriculture, R.O.C., 2004~ present.
- *Consultant*, Education for Sustainable Development, Council for Sustainable Development, Taipei City Government, 2003~ 2006.
- *Board Member*, Recycling Fund Management Board, Taipei City Environmental Protection Bureau, 2003 ~ 2009
- *Consultant*, Agriculture Exhibition Hall, National Taiwan University, 2003 ~ 2004
- *Member*, National Council for Sustainable Development, Board of Counselors, 1998~1999
- *Consultant*, Division of Environmental Education, Ministry of Education, 1993-present

Professional Supporting/Services

- *Organizer*, 2009 National Symposium on Promoting Nature Center, Taiwan Forestry Bureau, December, 2009
- *Organizer*, 2008 International Symposium on Nature Center, Taiwan Forestry Bureau, April, 2008

- *Organizer*, university lecturer workshop, 2006 Chinese-Macau Education for Sustainable Development Workshop: Reorienting Education for the UN Decade of Education for Sustainable Development, November, 2006
- *Organizer*, General Education for the Environment and Sustainable Development Workshops for Colleges, 2001
- *Co-organizer*, International Symposium on General Education for the Environment and Sustainable Development, 2001
- *Co-organizer*, International Symposium for EE Methodology, 2001
- *Organizer*, Environmental Learning Center and Environmental Education Workshop, 2001
- *Co-coordinator*, Environmental Education International Academic Forum—Reflections and Outlook on New Era of EE, 2001
- *Instructor*, Rural EE Strategies Seminar, Taipei Public Service Institute, 2000~present
- *Organizer*, Taiwan-Australia EE Symposium – EE for the 21st Century of Sustainable Development, 1999
- *Organizer*, Taiwan-US EE Symposium - EE for the 21st Century of Sustainable Development, 1998

PUBLICATIONS

Articles in Journals

- Morgan, M., Lin, H. N., Chou, J., & Wu, H. (2007). An interpretation specialization continuum of environmental volunteerism in Taiwan. *Journal of Interpretation Research*, 11(2), 7-20.
- Chou, J., Tsai, H. M., & Wang, S. C. (2006). Exploring Taiwan National Park Service interpreter's needs and possible program framework for professional development on environmental education and interpretation, *Journal of National Park*, 16(2), 61-83.
- Chou, J. (2003). Criteria for selecting quality environmental education teaching materials in Taiwan. *Applied Environmental Education and Communication*, 2(3), 161-168.
- Chou, J. (1997). Identification of the essential elements and development of a related graphic representation of basic concepts in environmental education in Taiwan. *Proceedings of the National Science Council, Part D: Mathematics, Science, and Technology Education*, 7(3), 155-163.
- Chou, J., & Roth, R. E. (1995). Exploring the underlying constructs of basic concepts in environmental education. *The Journal of Environmental Education*, 26(2), 36-43.
- **Following articles were written and published in Chinese.****
- Chou, J., & Chiang, Y. C. (2011). Explore the characteristics of a quality environmental learning center through Delphi method. *Journal of Environmental Education Research*, 9(2) (Accepted, soon be published).

- Wang, H. C., Lin, H. N., Chen, W. L., & Chou, J. (2011). Exploring naturalists' professional competencies and their needs for professional growth in nature centers within the Taiwan Forestry Bureau. *Journal of Environmental Education Research*, 9(1), 75-108.
- Pan, S. L., Wu C. H., & Chou, J. (2008). Research on the relationships among volunteer activity involvement, place attachment and satisfaction: A case study from the National Museum of Natural Science. *Journal of Outdoor Recreation Study*, 21(3), 23-47.
- Chou, J., & Liu, K. M. (2008). Creating a quality environmental learning service: Discussing the development of Taiwan Forestry Bureau's nature centers. *Taiwan Forestry Journal*, 34(1), 16-43.
- Chou, J., & Ho, S. Y. (2004). What are the next steps: Discussion of the status quo, developing needs, and strategies of Taiwan Forestry Bureau in promoting environmental education. *Taiwan Forestry Journal*, 30(6), 2-16.
- Chou, J. (2003, April). We need a meaningful mechanism for outdoor learning. *Nature Magazine*, 96-101.
- Wu, W. D., & Chou, J. (2003). Research on development and applications of studying on-campus habitat to carry out campus EE – Case study at Hsishan Elementary School, Taipei City. *Journal of Environmental Education Research*, 1(1), 19-50.
- Chou, J. (2002). Best resource and service of EE: Nature centers. *Taiwan Education Review*, 615, 2-14.
- Chou, J., & Wang, C. M. (2001). When “Whole Language” encounters environmental education. *Secondary Education*, 52(2), 20-39.
- Chou, J. (2000). Action research and the development of teachers' EE abilities. *Taiwan Education Review*, 589, 22-28.
- Chou, J. (1998). The key points of promoting EE, the enhancement of teachers' ability to teach EE. *Journal of Guangzhou Normal University (Social Science Edition)*, 73, 62-69
- Chang, T. C., & Chou, J. (1998). A study on the EE model of NGOs. *Journal of National Taiwan Normal University (Science Education Edition)*, 43.
- Chou, J. (1995). The progress and promotion of EE of non-governmental Organizations. *Taiwan Education Review*, 532, 37-46.
- Chou, J. (1993). Interpretation skills. *Environmental Education Quarterly*, 18, 7-11.

- Chou, J. (1993). Importance of learning of environmental related concepts. *Journal of Environmental Science and Technology*, 1, 37-44.
- Chou, J., & Huang, H. F. (1993). EE supplementary teaching materials for grades 5-6 (II). *Environmental Education Quarterly*, 18, 68-76.
- Chou, J., & Huang, H. F. (1993). EE supplementary teaching materials for grade 5-6 (I). *Environmental Education Quarterly*, 17, 49-60.
- Chou, J. (1993). EE planning and design. *Environmental Education Quarterly*, 16, 17-25.
- Chou, J. (1992). An exploration of environmental ethics. *Environmental Education Quarterly*, 15, 25-31.
- Chou, J. (1992). Non-formal environmental education and museum. *Museology Quarterly*, 6(15), 71-76.

National and International Conference Papers

- Chou, J., & Pan, S. L. (2011). *The Development and implementation of routine-based environmental education program in nature center*. Article presented at the 6th world environmental education congress. 19-23, July, 2011. Brisbane, Queensland, Australia.
- Chou, J., Pan, S. L., & Wu, H. C. (2009). *Factors resulting in college students' behaviours of stopping global warming*. Article presented at the 38th North American Association For Environmental Education (NAAEE) Annual conference. October 7-10, 2009. Portland, Oregon, USA.
- Chou, J., & Lin, H. N. (2009). *Trends in Taiwanese interpretation - A public involvement perspective*. Article presented at Tsunagu-Hito Symposium: Aiming for Asian Interpreters Network. September 5, 2009. Rikkyo University, Tokyo, Japan.
- Chou, J., Guo, Y. R., Lin, H. J., & Liu, K. M. (2009). *Development of Taiwan Forestry Bureau's nature center system*. Article presented at the 5th World Environmental Education Congress. May 10-14, 2009. Montreal, Canada.
- Pan, S. L., Wu, H. C., & Chou, J. (2008). *Research on the factors influencing volunteer interpreters' satisfaction in Taiwan*. Article presented at the 37th Annual Conference of The North American Association for Environmental Education. October 15-18, 2008. Wichita, Kansas, U.S.A.
- Chou, J. & Chiang, Y. C. (2007). *Exploring the characteristics of quality environmental learning center in Taiwan*. Article presented at the 36th Annual Conference of The North American Association for Environmental Education. November 14-17, 2007, Virginia Beach, Virginia, U.S.A.

- Chou, J. & Chiang, C. F. (2007). *Looking for alternative approach of environmental education: Organic farm environmental learning center's story*. Presented at the International Conference on Environmental Education 2007: Focus on Rice Fields, October, 29, 2007 at Keidanren Kaikan, Tokyo, Japan.
- Chou, J. (2006). *The development of environmental education and environmental learning center in Taiwan*. Article presented at the Asian Academic Meeting on 'SATOYAMA' Research and Environmental Education, July 14-17, 2006, Kanazawa, Japan: Kanazawa University.
- Chou, J. (2005). *Taiwan's efforts on development of education for sustainable development*. Article will be presented at the International Conference on Education for Sustainable Development: Beyond Environmental Education and Development Education & ESD Workshop, September 22-25, 2005, Tokyo, Japan.
- Chou, J. (2004). *What are the National Park interpreter's EE and EI qualification in Taiwan*. Article presented at the 33rd Annual Conference of The North American Association for Environmental Education. November 6-10, 2004, Biloxi, Mississippi, U.S.A.
- Chou, J. (2004). *Together we stand: Experience from an EE program "Choir of Trees" in Taiwan*. Article presented at The Eighth UNESCO/Japan Seminar on Environmental Education in Asian-Pacific Region, September 13 – 15, 2004, Tokyo, Japan.
- Chou, J. (2002). *What are the indicators for useful environmental education materials?* Article presented at the 31st Annual Conference of The North American Association for Environmental Education, August 6-10, 2002, Boston, Massachusetts, U.S.A.
- Chou, J. (2002). The fundamentals on environmental education and environmental interpretation for national parks' interpreters in Taiwan. In *Proceedings of the fourth conference on the protected areas of east Asia IUCN/WCPA-EA-4: Benefits beyond boundaries in east Asia, March 18-23, 2002, Yangmingshan National Park, Taiwan, R.O.C.* (pp. 599-605). Taipei, Taiwan: Taiwan Organizing Committee for the Fourth Conference of the Protected Areas of East Asia.
- Chou, J. (2000). *Effect of Ministry of Education sponsored nature center environmental education in-service teacher training program in Taiwan*. Article presented at the 28th Annual Conference of The North American Association for Environmental Education. August 26-30, 1999, Cincinnati, Ohio, U.S.A.
- Chou, J. (1998). *Application action research in in-service teacher training*. Article presented at the 27th Annual Conference of The North American Association for Environmental Education, September 4-8, 1998, Atlanta, Georgia, U.S.A.

- Chou, J. (1996). *An assessment of Republic China's Ministry of Education's in-service teacher training program in environmental education*. Article presented at The 25th Annual Conference of The North American Association for Environmental Education, November 1-5, 1996, San Francisco, California, U.S.A.
- Chou, J. & Fang, J. (1996). Application of a construct model of environmental concepts in a community-based river environmental education program in Taipei, Taiwan. In the *Proceeding of the Regional Environmental Seminar and Workshop--Environmental Education in Action and Partnership* (pp. 55-65). Hong Kong: Hong Kong University, Green Power, The Conservancy Association, Friends of the Earth, & World Wide Fund for Nature.
- Chou, J. (1994). Major concerns of environmental education in the Republic of China. In R. Mrazek (Ed.), *Pathways to partnerships: Coalitions for environmental education* (pp. 220-228). Proceedings of the 22nd Annual Conference of The North American Association for Environmental Education, September 23-27, 1993, Big Sky, Montana, U.S.A. Troy, Ohio: The North American Association for Environmental Education.
- Chou, J. (1994). *Developing the model for underlying constructs of basic concepts in environmental education in The Republic of China*. Article presented at The 23rd Annual Conference of The North American Association for Environmental Education, September 24-29, 1994, Cancun, Quintana Roo, Mexico.
- Chou, J. (1993). *Major concerns of environmental education in the Republic of China*. Article presented at The 22nd Annual Conference of The North American Association for Environmental Education, September 23-27, 1993, Big Sky, Montana, U.S.A.
- Chou, J. (1993). A comparison of the National Taiwan University and Ohio State University faculty's perception toward the basic concepts in environmental education. In *Proceedings of The 5th Sino-Japan Symposium on Science Education: Environmental Education, May 23-27, 1993, Taipei, Taiwan, R.O.C.* (pp. 65-79). Taipei, Taiwan: National Science Council, R.O.C. and Interchange Association, Japan.
- Chou, J., & Roth, R. E. (1992). *A determination of the underlying constructs of basic concepts in environmental education*. Article presented at A World Congress for Education & Communication on Environment & Development, October 16-21, 1992, Toronto, Canada: The United Nations Educational, Scientific and Cultural Organization (UNESCO); the United Nations Environment Program (UNEP).

****Following articles were written and published in Chinese.****

- Chou, J. (2011). Development of conceptual framework of Taiwan's forest environmental education program: Case study of Taiwan Forestry

Bureau's nature center. Presented at 2011 Forum on Environmental Education Base and Technical Cooperation between Chinese and Japanese Forestry Learning Symposium. November 22-25, 2011. Guangzhou, China: Center for Environmental Education & Communications of Ministry of Environmental Protection of China.

Chou, J., & Yeh, Y. Y. (2011). Appropriate number of words for Chinese outdoor interpretation signs. In *Proceeding of 2011 Environmental Education Symposium: Environmental Citizenry and Environmental Education* (pp. 26-27). Hualien, Taiwan: National Dong Hwa University.

Pan, S. L., & Chou, J. (2011). Moving towards ecological tourism: Developing and assessing environmental education plan in natural environment regions. Presented on 2011 the 13th Leisure, Recreation, and Tourism Research Symposium. Taipei, Taiwan: Shih Hsin University.

Chang, J. T., & Chou, J. (2011). The evaluation of the implementation of the outdoor education program, "Forest Reservoir" of Dongyanshan Nature Center. Presented at 2011 Symposium on Animal Behavior, Ecology and Environmental Education. Tainan, Taiwan: National University of Tainan.

Chou, J. (2010). Nature centers: Our challenges and opportunities. In *Proceeding of Vision Formosa, New Wave of Recreation Symposium* (pp. 47-54). Taipei, Taiwan: King Car Education Foundation.

Hsieh, C. Y., & Chou, J. (2010). The assessment of needs of Taipei City elementary school teachers using mountain trails for outdoor environmental education. In *Proceeding of 2010 Tourism and health, Recreation Symposium* (pp. 85-96). Taipei, Taiwan: Graduate Institute of Tourism and Health Science, National Taipei University of Nursing and Health Sciences.

Chou, J. (2009). What I have seen, heard, and pondered: My thoughts and expectations to the enhancement of environmental learning center in Taiwan. In *Proceeding of 2009 National Nature Center Symposium* (pp. 54-68). December 18-19, 2009. Taipei, Taiwan: Forestry Bureau, Council of Agriculture, Executive Yuan; and Chinese Society of Environmental Education.

Chang, K. S., & Chou, J. (2009). Exploring the status of junior high school and elementary school teachers' participation in the Roots & Shoots program. In *Proceeding of 2009 Environmental Education Symposium* (pp. 663-677). Taipei, Taiwan: Chinese Society of Environmental Education.

Wang, C. Y., & Chou, J. (2009). The impact of Taiwan Ministry of Education promoting characteristic school and outdoor environmental education in elementary School. In *Proceeding of Environmental Education Symposium* (p. 77). Taipei, Taiwan: Chinese Society of Environmental Education.

- Chou, J., & Chen Y. N. (2008). Exploring the underlying constructs of Taiwan forest environmental education. In *Proceeding of 2008 Environmental Education Symposium* (p. 45). Taipei, Taiwan: Chinese Society of Environmental Education.
- Chou, J., & Chen, H. N. (2008). Taiwan Forestry Bureau staff's professional competency of nature center. In *Proceeding of 2008 Environmental Education Symposium* (p. 51). Taipei, Taiwan: Chinese Society of Environmental Education.
- Chou, J., & Pan, S. L. (2008). The environmental education theory and operational base in cities: Case study of Taipei City urban environmental learning center. Presented at 2008 Cross-strait Environmental Education Symposium, July 15, 2008. Shanghai, China: Shanghai Normal University.
- Lin, P. Y., Chou, J., & Wang, S. M. (2008). The effects of the companion animal protection education program on middle-grade elementary school students' animal protection knowledge, attitude and intention behavior. In *Proceeding of 2008 International Conference on Theory and Practice of Curriculum and Instruction Reform* (p.84). Hualien: Taiwan: Graduate Institute of Compulsory Education, National Hualien University of Education.
- Hsu, M. H., & Chou, J. (2007). The study of the cooperation between national parks and nearby schools for outdoor environmental education: Case study of the nature awareness programs of Yangmingshan National Park and Taipei Municipal Ge-Zhi Junior High School. In *Proceeding of 2007 Environmental Education Symposium* (pp. 39-40). Hualien, Taiwan: Graduate Institute of Ecology and Environmental Education, National Hualien University of Education.
- Chou, J., Wang, M., & Chen, C. C. (2007). Enhancing the international view of environmental issues for college freshmen enrolled in non-science majors: Case study of e-learning platform. In *Proceeding of Cross-strait Environmental and Sustainable Development Education Symposium* (pp. 11-18). Beijing, China: Beijing Normal University.
- Chou, J., & Chiang, Y. C. (2006). A preliminary study of quality environmental learning center. In *Proceeding II of 2006 Environmental Education Symposium* (pp. 879-888). Taichung, Taiwan: Graduate Institute of Environmental Education and Management, National Taichung University of Education; and Chinese Society of Environmental Education.
- Chen, T. Y., & Chou, J. (2006). A preliminary study of incorporating nature journaling into arts and humanities area for 4th-graders in elementary school to explore environmental education. In *Proceeding of 2006 International Environmental Education Symposium* (pp.301-310). Taichung, Taiwan: Graduate Institute of Environmental Education and Management, National Taichung University of Education.

- Lin, H. N., & Chou, J. (2005). The relationship between activity involvement, place attachment and resource knowledge of volunteer interpreters: The Er-ge Mountain environmental observation group of the Society of Wilderness. In *Proceeding of 2005 Environmental Education Symposium* (pp. 653-661). Taipei, Taiwan: Taipei Municipal University of Education and National Taiwan Normal University.
- Chou, J. (2004). Best sites to encounter for city residents, nature and culture: Nature centers. In *Proceeding of Nature and Culture Symposium* (pp. 25-33). Taipei, Taiwan: Taiwan Forestry Research Institute.
- Chou, J. (2003). A case study of EE Development of Guandu Nature Center. In *Proceedings for 2003 Environmental Education Symposium* (pp.235-242). Hua-lian, Taiwan: National Dong Hua University.
- Chou, J. (2003). Alternative recreation industry—Needs and possibilities of Taiwan’s nature centers. In *A discussion on theory, policy and practice of “recreation, culture and green resources* (pp. 2A7.1-2A7.22). Taipei, Taiwan: National Taiwan University.
- Wu, W.D., & Chou, J. (2002). Developing a habitat for learning on campus: An action research designated for the promotion of environmental education in Shi-Shan Primary School in Taipei. In *Proceeding of Cross-strait EE Symposium* (pp. 805-812). Taichung, Taiwan: National Taichung Teacher’s College.
- Chou, J., & Liu., S. J. (2002). Development of references and standards for teachers to choose EE materials. In *Proceeding of Cross-strait EE Symposium* (pp. 271-279). Taichung, Taiwan: National Taichung Teacher’s College.
- Chou, J. (2001). In search of a place to practice EE – the needs and concepts of an environmental learning center. In *2001 International EE Symposium* (pp. 72-80). Taipei, Taiwan: MOE, CSEE, and NTNU.
- Chou, J. (2001). A place to practice environmental education ideals: The environmental learning center. In *Proceeding of Chinese Society of Environmental Education Annual Conference on School EE Symposium* (pp. 17-42). Taipei, Taiwan: Chinese Society of Environmental Education.
- Chen, J. H., & Chou, J. (2000). Social marketing strategies for saving the ancient forest of Chilan Mountain. In *Proceeding of 2000 EE Symposium* (pp. 210-220). Kaohsiung, Taiwan: National Kaohsiung Normal University.
- Chou, J., Lue, J. C., Chen, H. H., & Guo., Y. J. (1999). Preliminary assessment of establishing nature centers in Taiwan’s National Parks. In *6th Cross-strait Environmental Protection Symposium Proceeding* (pp. 279-284). Kaohsiung, Taiwan: National Kaohsiung Normal University.

- Tung, H. F., Chou, J., & Chen, P. C. (1999). Needs analysis of elementary school teacher EE knowledge development. In *6th Cross-strait Environmental Protection Symposium Proceedings* (pp. 254-258). Kaohsiung, Taiwan: National Kaohsiung Normal University.
- Chang, T. C., & Chou, J. (1997). *Research on NGO models of EE*. Article presented at 1997 EE Symposium, 25-26 April 1997. Kaohsiung, Taiwan: National Kaohsiung Normal University.
- Chou, J. (1997). An alternative option for EE: The internet. In *Proceedings from the EE and internet symposium* (pp.27-44). Taipei, Taiwan: National Taiwan University & Division of Environmental Education, Ministry of Education.
- Chou, J., & Chang, T. C. (1996). *Exploration of NGO EE models*. Article presented at the First Environmental Values and EE Symposium, 30 November 1996. Tainan, Taiwan: National Chung Kung University.
- Chou, J. (1994). *Research on important strategies in the development of EE*. Article presented at the Chinese Institute of Environmental Engineering's 7th Environmental Planning and Management Forum, 27 November 1994. Taichung, Taiwan: National Chunghsing University.
- Chiu W. Y., Hsueh, H. W., Chou, J., Yang, F. L., & Guo, C. J. (1993). Comparison of Taiwan and international EE implementation system. In *Proceedings of the Chinese Institute of Environmental Engineering's 6th Environmental Planning and Management Symposium* (pp.23-37). Tainan: National Chung Kung University.
- Chou, J. (1993). Exploration of the fundamental constructs of EE concepts. In *Proceedings of the 8th Science Education Academic Symposium of ROC* (pp. 253-270). Kaohsiung : National Kaohsiung Normal University

Books and Articles

- **Books (in Chinese)**

Chou, J. (2011). *The practice of environmental education: Environmental learning center*. Taipei, Taiwan: Wu-Nan Book Inc.

Chou, J., & Fang, J. (1993). *Re-visit the river: River environmental education program manual*. Taipei, Taiwan: Green Consumers' Foundation.
- **Translation**

In order to introduce the principles and practice of environmental education into Taiwan faster, the following books had been translated into Chinese by Ju Chou and colleagues.

Meredith, J., Cantrell, D., Conner, M., Evener, B., Hunn, D., & Spector, P. (2003). *Best practices for environmental education: Guidelines for success* (J. Chou, Trans.). Taipei, Taiwan: Chinese Society of Environmental Education. (Original work published 2000)

Engleson, D. C., & Yockers, D. H. (2003). *A guide to curriculum planning in environmental education* (J. Chou, T. C. Chang, & H. F. Huang, Trans.). Taipei, Taiwan: Wu-Nan Book Inc. (Original work published 1994)

Hammerman, D. R., Hammerman, W. M. & Hammerman, E. L. (1999). *Teaching in the outdoors* (J. Chou, & J. C. Lue, Trans.). Taipei, Taiwan: Wu-Nan Book Inc. (Original work published 1994)

- **Edited Books** (*in Chinese*)

Chou, J., & Chen, P. C. (Eds.). (2000). *“Choir of Trees” : An integrated environmental education program*. Taipei, Taiwan: EPA, COA, MOA, Chinatimes Cultural and Educational Foundation, Chinese Society of Environmental Education.

- **Articles in Books**

Chang, T. C., & Chou, J. (2007). Sustainable campus initiative at National Taiwan Normal University. In M. Rosalyn & H. Charles (Eds.), *Good practices in education for sustainable development in action: Teacher education institutions*. Good practices series of UNESCO documents for the Decade: Education for sustainable development in action good practices No. 1., pp. 35-40. Paris, France: UNESCO Section for Education for Sustainable Development.

Chou, J. (1994). Major concerns of environmental education in the Republic of China. In R. Mrazek (Ed.), *Pathways to partnerships: Coalitions for environmental education* (pp. 220-228). Troy, Ohio: The North American Association for Environmental Education.

****Following articles were written and published in Chinese.****

Chou, J. (2011). The development of quality platform for environmental and sustainable development education—Experience learned from the development of Environment Learning Center in Taiwan. In J. C. K. Lee, *Research on Education for Sustainable Development in Cross-Straits, Hong Kong and Macao* (pp. 18-38). Guangzhou, China: Guangdong Education Press.

Chou, J. (2000). An investigation on environmental issues. In T. C. Chang, & H. Wang (Eds.), *The instructional modules of education for the environment and sustainable development for College Level* (pp. 4~1-4~22). Taipei, Taiwan: Graduate Institute for Environmental Education, NTNU, MOA.

Chou, J. (1998). Myth and mythology of environmental education. In *Contemporary education forum: Role of environmental education at the elementary school level* (pp. 18-21). Taipei, Taiwan: National Taipei Teacher's College, National Institute of Educational Resources and Research.

- Chou, J. (1996). Outdoor environmental education center and outdoor education. In Chinese Scout Association (Ed.), *Designing and implementation of scout's EE activities* (pp. 16-23). Taichung, Taiwan: Office of Education of Taiwan Provincial Government.
- Chou, J. (1994). The Application of EE Theory in Water Resource Education. In C. Y. Chen (Ed.), *Water: The spring of life* (pp. 99-108). Taipei: Ministry of Economic Affairs.
- Chou, J. (1994). A study on the important strategies in the development of EE. In *Proceeding of 7th Chinese Society of Environmental Engineering annual conference: Environmental planning and management* (pp. 150-161). Taichung, Taiwan: National Chung Hsing University.
- Chou, J. (1993). First step in effective interpretation: Getting to know your audiences. In Y. N. Wang (Ed.), *Interpretation Manual in Forest Recreation (Chinese Forestry Series No. 933)* (pp. 9-18). Taipei, Taiwan: Chinese Forestry Association.

Technical Reports (in Chinese)

- Chou, J., Guo, Y. R., & Liu, K. M. (2010). *Year 1 report for the guidance and enhancement of Taiwan Forestry Bureau's nature centers*. Taipei, Taiwan: Forestry Bureau, Council of Agriculture, Executive Yuan.
- Chou, J., Guo, Y. R., & Liu, K. M. (2008). *Final report for the development of Taiwan Forestry Bureau's nature centers in National Forest Recreation Areas (year 2)*. Taipei, Taiwan: Forestry Bureau, Council of Agriculture, Executive Yuan.
- Chou, J., Guo, Y. R., & Liu, K. M. (2007). *Final report for the development of Taiwan Forestry Bureau's nature centers in National Forest Recreation Areas (year 1)*. Taipei, Taiwan: Forestry Bureau, Council of Agriculture, Executive Yuan.
- Chou, J., & Kao, T. S. (2006). *Final report on the analysis and development of EPA's environmental education policy and strategy*. Taipei, Taiwan: Environmental Protection Administration, Executive Yuan.
- Chou, J. (2005). *Final report on Taiwan Forestry Bureau's comprehensive planning and strategic development on environmental education*. Taipei, Taiwan: Forestry Bureau, Council of Agriculture, Executive Yuan.
- Chou, J., & Tsai, H. M. (2001). *Progress report for establishment and training of National Park interpreters EE and environmental interpretation curriculum*. Taipei, Taiwan: Division of National Parks, Construction and Planning Agency, Ministry of Interior.
- Tsai, H. M., Guo, C. Y., & Chou, J. (2000). *Research progress report on the "Implementation plan and comprehensive management of information and EE training" of the National Park information and education*

training center. Taipei, Taiwan: Division of National Parks, Construction and Planning Agency, Ministry of Interior.

- Chou, J., Lin, M. J., & Hsiao, J. T. (2000). *A study on the planning of environmental learning center in Taichung City.* Taipei, Taiwan: Division of Environmental Protection, Ministry of Education.
- Chou, J. (2000). *Planning and research for the establishment of the Hsindian River Park urban environmental learning center in Taipei City.* Taipei, Taiwan: Research, Development and Evaluation Commission, Taipei City Government.
- Chou, J. (1999). *Final report on "1999 Taiwan-Australia EE Symposium: EE for the 21st century of sustainable development."* Taipei, Taiwan: Division of Environmental Protection, Ministry of Education.
- Chou, J., Lu, J. J., Chen, S. H., & Guo, Y. R. (1998). *Planning and research for the establishment of National Park EE Center: Case study of Yangmingshan NP.* Taipei, Taiwan: Construction and Planning Agency, Ministry of Interior.
- Chou, J., Chang, T. C., & Lu, J. C. (1996). *Evaluation on the implementation status of nature education centers sponsored by the Ministry of Education.* Taipei, Taiwan: Division of Environmental Protection, Ministry of Education.
- Chang, T. C., & Chou, J. (1996). *Research on NGO models of EE, part II.* Taipei, Taiwan: Office of Science Education, National Science Council.
- Chou, J., & Chang, T. C. (1995). *Research on NGO models of EE, part I.* Taipei, Taiwan: Office of Science Education, National Science Council.
- Chou, J. (1994). *Evaluation of Ministry of Education sponsored in-service teacher training program on environmental education.* Taipei, Taiwan: Division of Environmental Protection, Ministry of Education.
- Chou, J. (1994). *Study on strategies of promoting environmental education.* Taipei, Taiwan: EPA, Executive Yuan, & Chinese Society of Environmental Education.
- Chou, J., & Yang, K. C. (1993). *A study on the construct model underlying the basic environmental education concepts in Taiwan.* Taipei, Taiwan: Division of Science Education, National Science Council.
- Chiu W. Y., Hsueh, H. W., Chou, J., Yang, F. L., & Guo, C. J. (1993). *The research on the development of national EE Act.* Taipei, Taiwan: EPA, Executive Yuan.

- Chou, J. (1993). How NGO effectively implement environmental education?
In *EPA's 8301st environmental protection personnel training seminar manual*. Taipei, Taiwan: Environmental Protection Personnel Training Institute, EPA, Executive Yuan.
- Chou, J. (1993). Principles and methods of environmental education. ? In
EPA's 8301st environmental protection personnel training seminar manual. Taipei, Taiwan: Environmental Protection Personnel Training Institute, EPA, Executive Yuan.
- Chou, J. (1992). *Supplementary EE instructional materials for grade 5-6*.
Taipei, Taiwan: Environmental Protection Administration, Executive Yuan.