

# Curriculum Vitae

## Jay P. Sah

### 1. Status/ Address:

Research Associate/Faculty  
Southeast Environmental Research Center  
Modesto A. Maidique Campus, OE-148  
Florida International University  
Miami, FL 33199, USA.  
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Project Collaborator – Florida Coastal Everglades (FCE) - LTER

### 2. Career Objective

Be an academician, keep on learning by studying, doing innovative researches, and sharing knowledge with students, fellow researchers and society, primarily in the field of ecology, and provide scientific feedbacks to the natural resource managers.

### 3. Educational Degree:

- 2002**      **Ph. D. in Biology** (Ecology)-Florida International University, Miami, FL 33199, USA.  
(GPA: 3.86/4.0; Dissertation: *Vegetation Dynamics and their Implications for the Management of Wetlands in the Lowlands of Nepal*)
- 1993**      **M. Sc. in Natural Resources Planning Management**-Asian Institute of Technology, Bangkok, Thailand.(GPA: 3.88/4.0, Stood First; Thesis: *Wetland Vegetation and Its Management: A Case Study in Koshi Tappu Region, Nepal*)
- 1983**      **Degree (M. Sc.) in Botany** (Ecology)-Tribhuvan University, Kathmandu, Nepal.  
(Aggregate Score: 73.2%, Stood First) (Thesis: *Nutrient Content in Leaf Litter of Major Tree Species at Phulchoki Hill, Kathmandu, Nepal*)

### 4. Areas of Professional Work:

Research and Teaching. Research Areas: Vegetation Analysis, Vegetation Classification, Vegetation-environmental Relationships, Wetland plant ecology, Wetland Ecology and Management, Disturbance Ecology, Biodiversity Conservation, Environmental Impact Assessment, and Interdisciplinary Approach to Natural Resource Ecology and Management

#### Major research activities are:

- Study of plant community structure and function
- Analysis of underlying vegetation-environment relationships and vegetation responses to disturbances to answer a wide range of ecological questions at various spatial and temporal scales by using multivariate statistical techniques and GIS
- Strategic analysis of integrating ecological and socio-economic approaches in natural resource management

## 5. Languages (Fluent in reading and writing): English, Nepali, Hindi, Maithili

## 6. Scholarships and Awards:

- **Tropical Biology Dissertation Fellowship:** Research fellowship and Tuition waiver. Spring 2001.
- **Teaching/Research Assistantship and Tuition Waiver:** At Florida International University. Aug.1995-April 1997; Jan. 2000 – Aug. 2002.
- **The James A. Linen III Memorial Prize:** For First position among students in Interdisciplinary Natural Resources Development and Management Program graduating on 19th August 1993 from Asian Institute of Technology, Bangkok, Thailand.
- **Canadian International Development Agency (CIDA) Scholarship:** For studying Master's Degree in Natural Resource Management at Asian Institute of Technology, Bangkok, Thailand (Through AIT).
- **Meritorious Scholarship:** For securing highest marks among students graduating from Central Department of Botany, T. U. Kirtipur, Kathmandu, during 1981/1982.

## 7. Work Experience:

### A. Teaching and Research (Professional appointments):

<b>2007 -Present</b>	<b>Research Associate/Faculty</b>	Southeast Environmental Research Center, Florida International University (FIU), Miami, FL. <b>Activities:</b> (PI or Co-PI) Actively involved in proposal writings, research design, field observations, data analysis, report writing, presentation of results at various meetings, and manuscript preparation for several research projects that have focus on the study of structure and function of plant communities, vegetation classification, vegetation-environment relationships, disturbance ecology, natural resource ecology and management.
<b>2003 – 2007</b>	<b>Visiting Research Associate</b>	Southeast Environmental Research Center, FIU, Miami, FL. (Research Design, Coordination of field works, data analysis, report writing, presentations at the meetings, manuscript preparation)
<b>2002 – 2003</b>	<b>Postdoctoral Research Associate</b>	Southeast Environmental Research Program, FIU, Miami, FL. (Research Design, Coordination of field works, data analysis, report writing, presentations at the meetings, manuscript preparation- <i>analyzed Tree island and L-31 vegetation data, and wrote the vegetation part of the comprehensive reports</i> )
<b>1992 – 2002</b>	<b>Lecturer*</b>	Central Department of Botany, Tribhuvan University, Kirtipur, Kathmandu, Nepal ( <i>Designed courses, taught plant ecology; conducted researches and supervised M. Sc. students' thesis</i> ).

<b>1984 – 1992</b>	<b>Assistant Lecturer *</b>	Central Department of Botany, Tribhuvan University, Kirtipur, Kathmandu, Nepal <i>(Taught plant ecology, anatomy, and embryology, and labs related to general botany, including plant physiology, plant genetics, and taxonomy: engaged in research, and supervised M. Sc. student's thesis).</i>
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*(\*Full time faculty position; on paid study leave-Jan 1992 to Dec 1994; Aug 1995 to Aug 1998; On leave w/t pay - 2000 to 2002)*

#### **B. Teaching & Research (Others):**

<b>2008 Spring</b>	<b>Adjunct Instructor</b>	Taught EVR-4026 at Florida International University.
<b>2002 – 2003</b>	<b>Adjunct Instructor</b>	Department of Biological Sciences, Florida International University, Miami, USA <i>(Taught undergrad Biology Lab.)</i>
<b>2000 – 2002</b>	<b>Research Assistant</b>	Southeast Environmental Research Center, Florida International University, Miami, FL 33199. (Field observations, Data analysis – <i>Analyzed Shark Slough vegetation data; Big Pine Key fire monitoring data</i> )
<b>2000 – 2001</b>	<b>Teaching Assistant</b>	Department of Biological Sciences, Florida International University, Miami, USA <i>(Taught undergrad Biology Lab)</i>
<b>1996 – 1997</b>	<b>Research Assistant</b>	Southeast Environmental Research Program, Florida International University, Miami, FL 33199. (Worked as Data Analyst – <i>analyzed C111 vegetation data, Pit-Mound data; contributed in writing reports</i> )
<b>1995 – 1997</b>	<b>Teaching Assistant</b>	Department of Biological Sciences, Florida International University, Miami, USA <i>(Taught undergrad Biology Lab.)</i>
<b>1994</b>	<b>Adjunct Instructor</b>	Central Department of Geography, Tribhuvan University, Nepal. <i>Worked as a part-time instructor for giving training on GIS for Natural Resource Management. (Four weeks)</i>
<b>1994 – 1995</b>	<b>Adjunct Teacher</b>	Cornell-Nepal Study Program, Kirtipur, Kathmandu. <i>(Worked as a part-time teacher for teaching Ecology and Environment and supervising students' research projects).</i>
<b>1990 – 1991</b>	<b>Science Teacher</b>	Rhododendron International Boarding School, Kalanki, Kathmandu. (Part-time teacher for teaching Physics)
<b>1985 – 1988</b>	<b>Science Teacher</b>	Prabhat Secondary School, Tyagal, Lalitpur, Kathmandu. (Part-time teacher for teaching Physics, Chemistry and Biology)

### C. Other Work Experience:

<b>2009 – Present</b>	<b>Editor</b>	<i>Journal of Wetlands Ecology</i> . Publisher - Wetland Friends of Nepal.
<b>1999-2000</b>	<b>Editor</b>	<i>Grassland Ecology and Management in Protected Areas of Nepal</i> . Vol. I – III. Publisher - International Center for Integrated Mountain Development (ICIMOD), Nepal. ISBN # 92 9115 166 1.
<b>1998 – 1999</b>	<b>Associate Editor</b>	<i>Ecoprint</i> - An International Journal of Ecology. Published by Ecological Society (ECOS), Kathmandu, Nepal. Volumes 5 and 6.
<b>1993</b>	<b>Research Associate</b>	IUCN Southeast Asia Regional Program, Asian Institute of Technology, and Bangkok. ( <i>Literature review, Manuscript preparation for the book, “Koshi Tappu Wetlands: Nepal’s Ramsar Site”</i> )
<b>1977</b>	<b>Assistant to Meteorologist</b>	Meteorological Station, Tribhuvan International Airport, Nepal. ( <i>Recording &amp; plotting meteorological data</i> )

### 8. Students supervised:

#### M. Sc. Students

(The theses were submitted to Central Department of Botany, Tribhuvan University, Nepal)

1. Sharma, Indu. 2001. *Effect of brewery industry effluents on agricultural crops and soils in Kathmandu*.
2. Sharma, Bindu. 2000. *Above Ground Biomass and Primary Productivity in the Grassland of Royal Shuklaphanta Wildlife Reserve, Nepal*. (Working for an International NGO in Nepal)
3. Poudyal, Srijna. 2000. *Impact of Management Practices on Species Composition and Soil Characteristics in Grasslands of Royal Shuklaphanta Wildlife Reserve, Nepal*. (In UK)
4. Poudyal, Shishir. 2000. *Comparative Study of Vegetation Structure and Soil Characteristics in Community- and Government-managed Forests in the Udayapur District, Nepal*. (Doing Ph.D. in USA)
5. Ghimire, Kavita. 1999. *Impact of Air Pollution on Roadside Vegetation in Urban area of Kathmandu Valley*.
6. Acharya, Prashuram. 1997. *Wetland Vegetation and its utilization in Ghodaghodi and Nakharodi Tal, Nepal*. (In Canada)
7. Shrestha, Krishna B. 1997. *Plant Diversity along Environmental and Disturbance gradients in the Oak Forest on Phulchoki Hill, Nepal*. (Doing Ph.D. at the University of Bergen, Norway)
8. Yadav, Ram K. 1994. *Quantitative Analysis of Vegetation (Trees and Shrubs) on Nagarjun Hills, Phulchoki Hills, Kathmandu*. (Obtained Ph.D. from Greece, and working as Asst. Professor in Nepal)
9. Acharya, Sunil K. 1989. *Study of Family Fagaceae on Phulchoki Hill*. (Botanist, Nepal Government)

**Undergrad Student:** Javier, Jose. 2008. *The effects of wildfires on the magnetic properties of soils in the Everglades*. Funded under The FCE-LTER Research Experience for Undergraduates (REU) Program. (Jointly supervised with Dr. Brad Clement, Department of Earth Sciences)

## 9. Research Experience/Projects:

### A. Research Funding (PI or Co-PI)

1. Vascular Plant Community Composition and Distribution in Cape Sable seaside sparrow Sub-population D. Funded by South Florida Water Management District (SFWMD), West Palm Beach, FL. April 1, 2011 to Sept 30, 2011. Award # 4500058454. Funding amount \$38,531+22,575. Co-PI with Mike Ross (PI).
2. Assessing the Impact of Deep Fire on Hardwood Hammocks in Big Cypress National Preserve. Funded by US Geological Survey. March 1, 2011 to Feb 29, 2012. Award # G11AC20030. Funding amount \$18,000. PI with Mike Ross (Co-PI).
3. Landscape Pattern – Ridge, Slough, and Tree Island Mosaics. Funded by U.S. Army Corps of Engineers, U. S. Army Engineer Research and Development Center (ERDC), Vicksburg, MS. Project period: Aug 1, 2010 – July 31, 2011. Co-PI with Jim Heffernan (PI), Mike Ross (Co-PI), and Len Scinto (Co-PI).
4. Monitoring of Tree Island Condition in the Southern Everglades. Funded by Army Corps of Engineers, U. S. Army Engineer Research and Development Center (ERDC), Vicksburg, MS. Proposed project period: July 1, 2010 – June 30, 2011. Award # W912HZ-09-2-0019. Funding amount: \$150,660 (FY2010), Co-PI with Mike Ross (PI) and Steve Oberbauer (Co-PI).
5. Landscape Pattern: Marl Prairie/Slough Gradients. Funded by U.S. Army Corps of Engineers, U. S. Army Engineer Research and Development Center (ERDC), Vicksburg, MS. July 1, 2010 – June 30, 2011. Award # W912HZ-09-2-0018. Funding amount: \$118,910. Co-PI with Mike Ross (PI).
6. Cape Sable seaside sparrow habitat monitoring and assessment. Funded by USACOE, FY 2010 May 1, 2010 to April 30, 2011). US\$ 157,707, Cooperative Agreement # W912HZ-10-2-0025. (Co-PI, with Dr. Mike Ross (PI), FIU and Dr. Jim Snyder (Co-PI), USGS).
7. Carbon Isotopic Signature in the Soil Organic Matter in Marl Prairie Soil Cores in the Everglades. Funded by U. S. Geological Survey (USGS), Reston, VA 20192. Funding period: April 1, 2010 – March 31, 2011. Award # G10AC00234. Funding amount: \$16,445. Principal Investigator (PI) with Mike Ross.
8. Landscape pattern - ridge, slough and tree island mosaic. June 1, 2009 to Sep 30, 2009. Funded MAP-RECOVER, SFWMD (CO-PI with Dr. Jim Heffernan (PI), FIU, Dr. Mike Ross (Co-PI), and Len Scinto (Co-PI) from FIU, and Dr. Matt Cohen (Co-PI) and Todd Osborne (Co-PI) from UF.
9. Cape Sable seaside sparrow habitat monitoring and assessment. Funded by USACOE, FY 2009. US\$ 192,162, Cooperative Agreement # W912EP-09-C-0024. (Co-PI, with Dr. Mike Ross (PI), FIU and Dr. Jim Snyder (Co-PI), USGS).
10. Monitoring of Tree Island Condition in the Southern Everglades. Funded by U.S. Army Corps of Engineers, U. S. Army Engineer Research and Development Center (ERDC), Vicksburg, MS. Funding period: June 1, 2009 – Sept 30, 2010. Co-operative Agreement # W912HZ-09-2-0019. Funding amount: 132,250. Co-PI with Mike Ross (PI) and Steve Oberbauer (Co-PI).
11. Landscape Pattern: Marl Prairie/Slough Gradients. Funded by U.S. Army Corps of Engineers, U. S. Army Engineer Research and Development Center (ERDC), Vicksburg, MS. Funding period: June 1, 2009 – Sept 30, 2010. Co-operative Agreement # W912HZ-09-2-0018. Funding amount: 114,957. Co-PI with Mike Ross (PI).
12. Cape Sable seaside sparrow habitat monitoring and assessment. Funded by USACOE, FY 2008. US\$ 132,872, Cooperative Agreement # W912EP-08-C-0018. (Co-PI, with Dr. Mike Ross (PI), FIU and Dr. Jim Snyder (Co-PI), USGS).

13. Estimating biomass production and nutrient concentrations of tree species growing along hydrologic gradient on LILA tree islands. Funded by SFWMD, Dec 15, 2008–Mar 15, 2010. US\$ 49,305 (Co-PI, with PI-Dr. Mike Ross)
14. Cape Sable seaside sparrow habitat monitoring and assessment. Funded by USACOE, FY 2007. US\$ 180,278, (Co-PI, with Dr. Mike Ross (PI), FIU and Dr. Jim Snyder (Co-PI), USGS).
15. Developing allometric biomass equation for saplings of tree species common in Everglades tree islands. Funded by SFWMD, June 1, 2007-Sept 30, 2008. US\$ 48,750, (Co-PI with PI-Dr. Mike Ross, FIU)
16. Developing a data-driven classification of south Florida plant communities. Funded by National Park Service. 2006-2008. US\$ 55,318 (Co-PI with PI-Dr. Mike Ross, FIU)
17. Effect of grazing on *Mikania micrantha* in Koshi Tappu Wildlife Reserve, Nepal: A case study. Funded by IUCN. Funded by IUCN-Bangkok, Sept 1 – Dec 31, 2006. US\$ 5,000 (Co-PI with Prof R. P. Chaudhary (PI), TU, Nepal)
18. Everglades fire effects monitoring in Cape Sable seaside sparrow habitat and adjacent plant communities. Funded by Everglades National Park. Nov 1, 2005 – Dec 31, 2006. US\$ 16,000. (PI with Dr. Mike Ross)
19. Implications of Vegetation Dynamics for managing wetlands in lowland Nepal. May, 1997-Dec 2000. Funded by National Geographic Society, USA. Grant # 5809-96. US\$ 10,000 (PI as a Ph.D. Candidate)
20. Diversity and Conservation Strategy of some potential Medicinal Plants in Manang, Nepal. Funded by Annapurna Conservation Area Project (ACAP), Nepal. June-August, 1995. US\$ 2,000 (Co-PI with Dr. Krishna K. Shrestha (PI), TU, Nepal)
21. Wetland Vegetation and Management in Ghodaghodi Tal, Nepal. Funded by IUCN, South-east Asia Regional Office, Bangkok. Sept. 1994 - Aug. 1995. US\$ 500 (PI)
22. Study of some Medicinal Plants around Pokhara Valley. Funded by Royal Nepal Academy of Science and Technology (RONAST), Nepal Dec 1987 to Dec 1989. US\$ 2500 (Co-PI with Dr. Radheshyam Kayastha-PI)

## **B. Research Works (others):**

1. Effects of hydrologic restoration on habitat of the Cape Sable Seaside Sparrow. A DOI-funded Southeast Environmental Research Center (SERC) Project. Aug. 2002 – 2006. (Worked as a Post-doctoral Research Associate with Dr. Mike Ross, Principal Investigator - coordinating field works, compiling and analyzing data, and writing reports and peer-reviewed papers)
2. Fuel development and woody plant invasion in the Everglades prairies. Funded by US Fish & Wildlife Service June 1, 2005 – Dec 31, 2007 (Worked as an investigator with PI: Dr. Mike Ross).
3. Tree Islands in the Shark Slough Landscape: Interactions of Vegetation, Hydrology and Soils. (Aug 2003 – Sept 2004) (Worked as an Investigator and Data Analyst – PI: Dr. Mike Ross )
4. Vegetation Dynamics in ENP Marshes, with Emphasis on Taylor Slough (Jan 2003-Aug 2003) (Worked as an investigator and data analyst – PI: Dr. Mike Ross).
5. The L-31E Surface Water Re-diversion Pilot Project. (Aug 2002 – May 2003) (Data analysis, report writing,, PI - Dr. Mike Ross)
6. Developing Ecological Criteria for Prescribed Fire in South Florida Pine Rockland Ecosystems. (Sept 2001-Aug. 2002) (Data analysis, report writing, PI - Dr. Mike Ross).
7. Assessment of marsh vegetation responses to hydrological restoration in Shark Slough, Everglades National Park. A Southeast Environmental Research Program Project. Jan. 2000 – Dec 2000) (Data analysis, report writing,, PI: Dr. Mike Ross).
8. Environmental Impact Assessment of Bheri-Babai Hydroelectricity Project, Nepal, Conducted by NEW ERA-Nepal and funded by JICA. Sept. 1999 - Dec. 1999. (Worked as a Wetland Ecologist)

9. Ghodaghodi Tal Conservation Project. An IUCN-Nepal Project funded by Canadian Cooperation Mission. Nov. 1997-April 1998. (Worked as an Ecological Expert for IUCN)
10. Windthrow in South Florida Pine rock lands: Pit and Mound features and Plant Micro-habitat Associations following Hurricane Andrew. A Southeast Environmental Research Program Project from Everglades National Park. Contract # CA 5280-4-9013. Dec 1996-Jan 1997. (Data analysis, report writing, PI: Dr. Mike Ross & Dr. Jack Meeder)
11. Vegetation Analysis in the C-111/Taylor Slough Basin. A Southeast Environmental Research Program Project, Contract # C-4244. May 1996 - Aug. 1996. (Data analysis, report writing, PI - Dr. Mike Ross & Jack Meeder)
12. Biological and Cultural Diversity in Parsa Wildlife Reserve, Parsa, Nepal. Funded by National Geographical Society, USA. August 1994 - July 1995. (Worked as a Research Associate, PI - Dr. R. P. Chaudhary)
13. Environmental Impact Assessment of Arun III Transmission Line. NEW ERA-Nepal, for Joint Venture (JV), Nepal. June - July 1991. (Worked as an Expert for Ecological Survey)
14. Exploitation of Grain Amaranth in Nepal. International Foundation for Science, Sweden funded Project # C/0865- I & II, Nov. 1985 - Aug. 1989. (Worked as a Research Associate, PI - Dr. P. K. Jha)
15. Analysis of Structure and Function of Kulekhani Watershed. Funded by Nepal National Committee for Man and Biosphere (MAB). 1988. (Worked as a Research Associate for 1 year, PI - Dr. P. K. Jha)
16. Ecological Problems and Impact of Agriculture in Shuganikas Village. Funded by National Development Service, Tribhuvan University, Kirtipur, Kathmandu, Nepal. 1983. (Worked as an Investigator)

## 10. Publications:

### A. Books:

1. Sah, J. P. 1997. *Koshi Tappu Wetlands: Nepal's Ramsar Site*. IUCN-Nepal in collaboration with IUCN-Wetland Program, South and South-east Regional Office, Bangkok. pp. 254. ISBN 2-8317-0237-2.
2. Richard, C., Sah, J. P., Basnet, K., Karki, J., Subba, B., and Raut, Y. (Eds.). 2000. *Grassland Ecology and Management in Protected Areas of Nepal. Vol. I: Action Summary*. 102 pp. Richard, C., Basnet, K., Sah, J. P., and Raut, Y. (Eds.) *Vol. II: Technical and Status Papers on Grasslands of Terai Protected Areas*. 137 pp. Richard, C., Basnet, K., Sah, J. P., and Raut, Y. (Eds.) *Vol. III – Technical and Status Papers on Grasslands of Mountain Protected Areas*. 104 pp. 4Proceedings of the International Workshop on Grassland Ecology and Management in Protected Areas of Nepal, March 14-19, 1999, Nepal. Department of National Parks and Wildlife Reserve (DNPWC)/International Center for Integrated Mountain Development (ICIMOD)/WWF-Nepal, Kathmandu, Nepal ISBN # 92-9115-166.

### B. Book Review:

1. Review of Ecology of Wetlands and Associated Systems. Edited by S. K. Majumdar, E. W. Moller and F. J. Brenner. The Pennsylvania Academy of Science, Easton, PA 18042, USA. *Ecoprint 6 (1)*: 78.

### C. Book Chapter:

1. Sah, J. P. and Sah, S. K. 1999. Wetlands of Nepal: Biodiversity and its Conservation. In *Nepal-Nature's Paradise*. Eds. Majupuria, T. C. and Kumar, R. M. Devi Publishers, Gwalior, India: 569-594.

### D. Research Papers (Peer-reviewed Journals):

1. Shrestha, K. B., Måren, I. E., Arnegerg, E., Sah, J. P. and Vetaas, O.R., Plant diversity along an anthropogenic disturbance gradient in the oak forests of the Middle Hills, Nepal, Central Himalaya. *Plant Ecology and Diversity*.
2. Ross, M. S. and Sah, J. P. 2011. Forest resource islands in a sub-tropical marsh: soil-site relationships in Everglades hardwood hammocks. *Ecosystems* (Online First. DOI: 10.1007/s10021-011-9433-y)
3. Espinar, J., Ross, M. S. and Sah, J. P. 2011. Pattern of nutrient availability and plant community assemblage in Everglades tree islands, Florida USA. *Hydrobiologia* 667: 89-99.
4. D'Odorico, P., Engel, V., Carr, J., Oberbauer, S. F., Ross, M. S. and Sah, J. P. 2011. Tree-grass coexistence in the Everglades freshwater system. *Ecosystems* 14: 298-310.
5. Stoffella, S. L., Ross, M.S., Sah, J. P., Price, R., Sullivan, P. and Cline, E. A. 2010. Survival and growth responses of eight Everglades tree species along an experimental hydrologic gradient on two tree island types. *Applied Vegetation Science* 13: 439-449.
6. Hanan, E. J., Ross, M.S., Ruiz, P. L., and Sah, J. P. 2010. Multi-scaled grassland-woody plant dynamics in the heterogeneous marl prairies of the southern Everglades. *Ecosystems* 13:1256-1274.
7. Clement, B. M., Javier, J., Sah, J. P. and Ross, M.S. 2010. The effects of wildfires on the magnetic properties of soils in the Everglades. *Earth Surface Processes and Landforms*. 7 pp. DOI: 10.1002/esp.2060 (Published online in Wiley Online Library)



8. Sah, J. P., Ross, M.S., Snyder, J. R. and Ogurcak, D. E. 2010. Tree mortality following prescribed fire and a storm surge event in slash pine (*Pinus elliottii* var. *densa*) forests in the Florida Keys, USA. **International Journal of Forestry Research** (Volume 2010, Article ID 20495; 13 pp. doi: 101155/2010/204795).
9. Ross, M. S., Ogurcak, D. E., Sah, J. P. and Ruiz, P. L. 2010. Using Florida Keys reference sites as a standard for restoration of forest structure in Everglades tree islands. **International Journal of Forestry Research**. Volume 2010, Article ID 176909; 8 pp. doi:10.1155/2010/176909.
10. Ross, M. S., Ruiz, P. L., Sah, J. P. and Hanan, E. J. 2009. Chilling damage in a changing climate in coastal landscapes of the sub-tropical zone: a case study from south Florida. **Global Change Biology** 15 (7):1817-1832.
11. Armentano, T. V., Sah, J. P., Ross, M. S., Jones, D. T., Cooley, H. C. and Smith, C. S. 2006. Rapid responses of vegetation to hydrological changes in Taylor Slough, Everglades National Park, Florida, USA. **Hydrobiologia** 569: 293-309.
12. Ross, M. S., Mitechell-Bruker, S., Sah, J. P., Stohoff, S., Ruiz, P. L., Reed, D. L., Jayachandran, K. and Coultas, C. L. 2006. Interaction of hydrology and nutrient limitation in the Ridge and Slough landscape of the southern Everglades. **Hydrobiologia** 569: 37-59.
13. Sah, J. P., Ross, M. S., Snyder, J. R., Koptur, S. and Cooley, H. 2006. Fuel loads, fire regimes and post-fire fuel dynamics in the Florida Keys pine forests. **International Journal of Wildland Fire** 15 (4): 463-478.
14. Jones, D. T., Sah, J. P., Ross, M. S., Oberbauer, S. F., Hwang, B. and Jayachandran, K. 2006. Growth and physiological responses of twelve tree species common in Everglades tree islands to simulated hydrologic regimes. **Wetlands** 26 (3): 830-844.
15. Ross, M. S. Ruiz, P. L., Sah, J. P., Reed, D. L., Walters, J. and Meeder, J. F. 2006. Early stand development in Fringe mangrove forests of contrasting productivity following hurricane. **Plant Ecology** 185: 283-297.
16. Sah, J. P., Ross, M. S., Koptur, S. and Snyder, J. R. 2004. Estimating biomass of broadleaved woody plants in the understory of Florida Keys pine forests **Forest Ecology and Management** 203: 319-329.
17. Ross, M. S., Reed, D. L., Sah, J. P., Ruiz, P. L. and Lewin, M. T. 2003. Vegetation:environment relationships and water management in Shark Slough, Everglades National Park. **Wetland Ecology and Management** 11 (5): 291-303.
18. Sah, J. P., Singh, R. L. and Bhatta, N. 2003. Diversity, abundance and economic use of flowering plants in Royal Shuklaphanta Wildlife Reserve, Nepal. **Journal of Economic and Taxonomic Botany** 27 (2): 358-383.
19. Lockwood, J. L., Ross M. S. and Sah, J. P. 2003. Smoke on the water: The interplay of fire and water flow on Everglades restoration. **Frontiers in Ecology and the Environment** 1 (9): 462-468.
20. Paudel, S and Sah, J. P. 2003. Physiochemical characteristics of soil in tropical Sal (*Shorea robusta* Geartn.) forests in eastern Nepal. **Himalayan Journal of Sciences** 1 (2): 107-110.
21. Sah, J. P., Singh, R. L. and Bhatta, N. 2002. Floristic diversity and use of plants in Ghodaghodi Lake area, Nepal. **Journal of Natural History Museum** (Nepal), 21: 243-266.
22. Chaudhary, R. P., Sah, J. P., Singh, R. L. and Tiwari, R. D. 2002. The use of plant resources and its impact on conservation in Parsa Wildlife Reserve, Nepal. **Environmental Biology and Conservation** 7: 67-80.
23. Sah, J. P. and Heinen, J. T. 2001. Wetland resource use and conservation attitudes among indigenous and migrant peoples in Ghodaghodi Lake area, Nepal. **Environmental Conservation** 28 (4): 345-356.
24. Sah, J. P., Sah S. K., Acharya P., Pant D. and Lance, V. A. 2000. Assessment of water pollution in the Narayani River, Nepal. **International Journal of Ecology and Environment** 26: 235-251.
25. Ross, M. S., Meeder, J. F., Sah, J. P., Ruiz, P. L. and Telesnicki, G. J. 2000. The southeast saline Everglades re-visited: 50 years of coastal vegetation change. **Journal of Vegetation Science** 11: 101-112.

26. Ghimire, S. K., Shrestha, K. K., Sah, J. P. and Bajracharya, D. 1999. Ecological study of some high altitude medicinal and aromatic plants in the Gyasumdo Valley, Manang, Nepal. ***Ecoprint* 6** (1): 17-25.
27. Yadav, R. K. P. and Sah, J. P. 1998. Quantitative study of vegetation on the Nagarjun Hills, Kathmandu. ***Ecoprint* 5** (1): 61-72.
28. Jha P. K., Sah, J. P. and Chettri, M. K. 1992. Amaranth productivity under biological stresses. ***Crop Research* 5** (2): 195-198.
29. Jha, P. K., Sah, J. P. and Chettri, M. K. 1991. Assessment of grain amaranth productivity in Nepal. In *Plant Science and Man: Problems and Prospects*, Eds. Islam A. K. M. N., Q. A. Fattah, I. A. Muttaqui and A. Aziz. ***Journal of Bangladesh Botanical Society***: Special Issue: *Proceedings of International Botanical Conference* 10-12, January 1991. Bangladesh Botanical Society, Bangladesh: 99-106.
30. Acharya S. K., Shrestha, K. K. and Sah, J. P. 1991. Study of the members of Fagaceae on Phulchoki Hill, Nepal. In *Plant Science and Man: Problems and Prospects*, Eds. Islam A. K. M. N., Q. A. Fattah, I. A. Muttaqui and A. Aziz. ***Journal of Bangladesh Botanical Society***: Special Issue: *Proceedings of International Botanical Conference* Jan. 10-12, 1991. Bangladesh Botanical Society, Bangladesh: 85-92.
31. Sah, J. P. and P. K. Jha. 1986. Seasonal variation of Nutrient content in Leaf Litter of major Tree species of Phulchoki Hill. ***Journal of Natural History Museum*** (Nepal) **10** (1-4): 93-112.
32. Sah, J. P. and Jha, P. K. 1983. Attitudinal variation of Nutrient Content in Leaf Litter of Major Tree species of Phulchoki Hill, Kathmandu. ***Journal of Institute of Science & Technology*** (Nepal) **6**: 17-26.

#### E. Research Papers (Conference Proceedings and others):

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33. Sah, J. P. 1998. Ghodaghodi Lake Area: A Unique Ecosystem. Report submitted to IUCN-Nepal. May 1998. 67 pp.
34. Ross, M. S., Meeder, J. F., Sah, J. P., Herndon, A. Ruiz, P. L. and Telesnicki, G. J. 1997. Windthrow in South Florida Pine Rocklands: Pit-and-Mound Features and Plant Microhabitat Associations Following Hurricane Andrew - Report to Everglades National Park. July 15, 1997.
35. Meeder, J. F., Ross, M. S., Telesnicki, G., Ruiz, P. L. and Sah, J. P. 1996. Vegetation Analysis in the C-111/Taylor Slough Basin. November, 1996. 103 pp.

## 11. Reviewed manuscripts/Reports for the Journals/Organizations

**Journals:** Wetlands, Castanea, Journal of Hydrology, International Journal of Wildland Fire, Energy and Fuels, Complex Systems, Journal of Forest Research, Population and Environment, Environmental Quality Management, Journal of Environmental Quality, Journal of Environmental Management, Environmental Management, Himalayan Journal of Sciences, Ecoprint,

**Organizations:** US Geological Survey; IUCN-The World Conservation Union (Nepal).



## 12. Presentations (Since 1991) –

### A. Conferences, Workshops, Meetings etc.:

1. 2010 Cape Sable seaside sparrow Symposium. Dec 7, 2010. Everglades National Park, Homestead, FL. (Presented paper, “*Cape Sable seaside sparrow habitat: incipient effects of retention areas on vegetation with and without fire.*”)
2. GEER (Greater Everglades Ecosystem Restoration) 2010 Conference: The Everglades- A Living Laboratory of Change. Naples, FL. July 12-16, 2010. (Presented the paper, “*Changing Cape Sable seaside sparrow habitat conditions in marl prairie landscape and their implications for Everglades restoration*”)
3. GEER (Greater Everglades Ecosystem Restoration) 2010 Conference: The Everglades- A Living Laboratory of Change. Naples, FL. July 12-16, 2010. (Presented the paper, “*Understory vegetation composition and biomass on the tree islands in the Loxahatchee impoundment landscape assessment (LILA) experimental site*”)
4. Pine Rockland Conference 2010 (An international – South Florida and Caribbean - meeting organized by Pine Rockland Working Group), Miami, FL. Feb 10-12, 2010. (Presented the paper - *Tree mortality following prescribed fire and a storm surge event in the Florida Keys pine forests*)
5. 2009 Cape Sable seaside sparrow Symposium. Dec 8, 2009. Everglades National Park, Homestead, FL. (Presented paper, “*Cape Sable seaside sparrow habitat: hydrology, fire and vegetation change (2005-2009).*”)
6. 4<sup>th</sup> International Fire Ecology and Management Congress (An International meeting organized by Association of Fire Ecology), Savannah, GA, USA. Nov 30 – Dec, 5, 2009. (Paper presented - *Effect of post-fire hydrology on vegetation dynamics in southern Everglades marl prairie*).
7. 7<sup>th</sup> North American Forest Ecology Workshop, Logan, UT. June 22-26, 2009. (Presented the paper “*Fuel loads, fire severity, and tree mortality in Florida keys pine forests.*”)
8. Plant Biologists of South Florida Meeting-2009. April 5, 2009. Corkscrew Swamp Sanctuary, Naples, FL. (Presented paper “*Developing a Data-driven Classification of South Florida Plant Communities – Data Acquisition, and classification of herbaceous vegetation.*”)
9. 2008 Cape Sable seaside sparrow Symposium. Dec 2-3, 2008. Everglades National Park, Homestead, FL. (Presented paper, “*Cape Sable seaside sparrow habitat: hydrology, fire and vegetation change.*”)
10. 2008 Greater Everglades Ecosystem Restoration Conference, Naples, FL. July 28-August 1, 2008. (Presented the paper “*Developing a Data-driven Classification of South Florida Plant Communities – Data Acquisition and Management, and classification of herbaceous vegetation.*”)
11. Pine Rockland Conference 2008: Rockland Forests in a Changing World. Miami, FL, USA & Andros, Bahamas. February 28-March 1, 2008. (Presented the paper “*Results of 7 years (1999-2005) of prescribed fire in Everglades National Park pinelands*”).
12. 2007 Cape Sable seaside sparrow Symposium. Dec 4-5, 2007. Everglades National Park, Homestead, FL. (Presented paper, “*Cape Sable seaside sparrow habitat: hydrology, fire and vegetation change (2004-2007).*”)
13. Everglades Avian Ecology Workshop-2007. Sanctioned by South Florida Ecosystem Restoration Task Force and organized by Sustainable Ecosystems Institute. Florida International University, Miami, FL. August 13-14, 2007. (Presented the paper “*Vegetation dynamics in Southern Everglades Marl Prairies and their implications on Cape Sable seaside sparrow*”)
14. The Ecological Society of America (ESA) 92nd Annual Meeting – Ecology-based restoration in a changing world. San Jose, CA, USA. August 5-10, 2007. (Presented the paper “*Relationship between species richness and biomass along a hydrologic gradient in the marl prairie landscape in the southern Everglades, Florida, USA*”).

15. Ecosystem, Protected Areas and People Workshop. Organized by IUCN – The World Conservation Union, Asia Regional Office. Bangkok, Thailand. June 12-15, 2007. (Presented the paper, “*Lesson learned in protected areas: A case study in Koshi Tappu Wildlife Reserve, Nepal – grazing and invasive species Mikania micrantha HBK*”)
16. Workshop on the Regime Shift in Southern Prairie Ecosystems. Everglades National Park, Homestead. April 30 – May 1, 2007. (Presented the paper, “*Vegetation Dynamics in Southern Everglades Prairies in Recent Years: Causes and Implications*”)
17. 2006 Cape Sable seaside sparrow Symposium. Dec 5-6, 2006. Everglades National Park, Homestead, FL. (Presented paper, “*Cape Sable seaside sparrow census sites revisited: assessment of vegetation change in three years.*”)
18. Workshop on ‘Developing a data-driven classification of South Florida plant communities’. Florida International University, Miami, Florida, USA. December 12-13, 2006. (Worked as an Organizer and a Moderator)
19. 3<sup>rd</sup> International Fire Ecology and Management Congress, San Diego, CA, USA. November 13-17, 2006. (Presented the paper, “*Assessing the interactions fire and hydrology on marl prairie vegetation in the southern Everglades, Florida, USA*”)
20. First Himalayan Policy Research Conference, University of Wisconsin’s South Asian Pre-conference Venue, Madison, WI, USA. October 19, 2006. (Presented the paper, “*Issuing annual permits for harvesting thatch grass as compensation to local people in Nepal: does this policy have effects on conservation attitude?*”)
21. 2006 Greater Everglades Ecosystem Restoration Conference, Buena Vista Palace, Orlando, FL. June 5-9, 2006. (Presented the paper “*Vegetation-environment relationships and their implications for Cape Sable seaside sparrow populations in Everglades Marl Prairies*”, and Worked as a member on the Discussion Panel on “*Defining Success – Everglades Tree Islands*”)
22. Pine Rockland Conference 2006: Bridging the Gaps between Florida and the Bahamas. Miami, FL, USA & Abaco, Bahamas. February 8-12, 2006. (Presented the paper “*Fuel loads, fire regimes and post-fire fuel dynamics in Florida Keys pine forests*”)
23. 2005 Cape Sable seaside sparrow Symposium: Fire management strategies of occupied CSSS habitat. Dec 6-7, 2005. Everglades National Park, Homestead, FL. (Presented paper, “*The habitat of Cape Sable seaside sparrow: vegetation-environment relationships.*”)
24. Society of Wetland Scientists’ 26<sup>th</sup> Annual Meeting – Ecological, Landscape, and Regulatory Interactions: Coastal Plain Wetlands as Models for a Changing World. Charleston, SC, USA. June 5-10, 2005. (Presented the paper “*Vegetation dynamics and its implications for Cape Sable seaside sparrow populations in Everglades marl prairies*”, and worked as “a member of the Judge Committee to evaluate student’s posters”).
25. 2005 Florida Coastal Everglades (FCE)-LTER All Scientists Meeting. March 25-26, 2005. Fairchild Tropical Botanic Garden, Coral Gables, FL, USA. (Presented the poster: *Vegetation dynamics and Cape Sable seaside sparrow populations in the marl prairie landscape.*)
26. 47th Annual Meeting of the International Association of Vegetation Science - Landscape Change and Ecosystem Disturbance: Islands and Continents. Kailua-Kona, Hawai’i, USA. July 18-23, 2004. (Presented the paper “*Vegetation-environment relationships in the habitat of Cape Sable seaside sparrow in the Everglades, USA*” and worked as “a member of the Judge Committee to evaluate student's posters”).
27. Pineland Workshop, Miami, FL. Feb 2-3, 2004. (Presented the paper “*Fuel loads and their implications for fire management in Florida Keys pine forests*”).
28. The Ecological Society of America (ESA) 88th Annual Meeting - Uplands to Lowlands: Coastal Process in Time of Global Change. Savannah, GA, USA. August 3-8, 2003. (Presented the paper “*Vegetation structure and composition along hydrologic gradients in Everglades Tree Islands*”).
29. Joint Conference on the Science and Restoration of the Greater Everglades and Florida Bay Ecosystem: From Kissimmee to the Keys. Palm Harbor, FL, USA. April 13-18, 2003. (Presented

- the paper "*Fuel loads in the understory of Florida Keys pine forests along a chronosequence of time since last fire.*"
30. 29th Natural Areas Association (NAA) Conference: The Power of Nature- The Empowerment of Natural Areas. Asheville, NC, USA. Oct. 2-5, 2002. (Presented a poster "*Biomass and fuel loads associated with hardwoods in the understory of Florida Keys pine forests*").
  31. Biology Research Symposium. Organized by Tropical Biology Program at Fairchild Botanical Garden, Miami, FL, USA. Jan 18, 2002. (Presented the paper "*Vegetation-environment relationships on the floodplains of the Mahakali River, Nepal*").
  32. Natural Areas Association (NAA) Conference 2001: A Spatial Odyssey Searching for a Natural Balance at Cape Canaveral, FL, USA. Oct 3-6, 2001. (Presented the paper "*Effects of burning and grazing on floral composition, plant diversity and biomass production in Imperata-Vetiveria dominated grasslands in Nepal*").
  33. Biology Research Symposium. Organized by Tropical Biology Program at Florida International University, Miami, FL, USA. Feb. 2, 2001. (Presented the paper "*Effects of anthropogenic disturbances on community structure and biomass production in seasonally flooded grasslands in Nepal*").
  34. Intensive Teaching Workshop. Organized by The Academy for the Art of Teaching at Florida International University, Miami, FL, USA. Aug. 24-25, 2000. (As a Participant)
  35. Quebec 2000: Millennium Wetland Event/INTECOL VI International Wetland Symposium. Jointly organized by International Peat Society, Society of Wetland Scientists/International Association of Ecology/International Mire Conservation Group at Quebec City, Canada. Aug. 6-12, 2000. (Presented the paper "*Participatory approach to wetland management in Nepal: A case study in Ghodaghodi Lake Area*" and worked as "a Volunteer").
  36. International Conference on Tropical Aquatic Ecosystems: Health, Management and Conservation. Jointly organized by Aquatic Ecosystems Health and Management Society, Canada, National Institute of Ecology, India and International Limnological Society, Netherlands at Nainital, India. Oct. 25-30, 1999. (Presented the paper "*Assessment of Water pollution in the Narayani River, Nepal*" and worked as "a Reporter").
  37. Workshop on Grassland Ecology and Management in the Protected Areas of Nepal. Jointly organized by Department of National Parks and Wildlife Reserve (DNPWC), WWF-Nepal and ICIMOD at Royal Bardia National Park, March 15-18, 1999. (Presented papers "*Koshi Tappu's treasure: wetlands or grasslands?*" and "*Wetlands in Royal Shuklaphanta Wildlife Reserve and their importance in grassland management*", and worked as "an Editor for Proceedings").
  38. International Conference on Environment and Agriculture. Organized by Ecological Society at Kathmandu, Nepal. Nov. 1-3, 1998. (Worked as a Member of the Organizing Committee, the Coordinator of the Poster Session, and Co-author of the paper: "*Industrial effluents and their use in agriculture along the Narayani River in Nawalparasi District, Nepal*" and the poster "*Vegetation study in the abandoned agricultural fields of Shuklaphanta Wildlife Reserve*").
  39. International Conference on Asian Wetlands. Organized by Indian Environmental Society at New Delhi, India. Jan 29-31, 1998. (Presented the paper "*Wetlands in Shuklaphanta Wildlife Reserve, Nepal: present status and management issues*").
  40. Workshop on Wetland Conservation and Management (Ghodaghodi Tal). Jointly Organized by Natural History Society of Nepal and IUCN-Nepal at Kathmandu. Dec 15-17, 1997. (Presented the paper "*Ghodaghodi Lake system: a unique ecosystem in the lowlands of Nepal*").
  41. International System Dynamics Conference. Massachusetts Institute of Technology, Cambridge, Massachusetts, USA. 21-25 July, 1996. (As a participant and worked as "an Organizing Volunteer").
  42. Second International Seminar cum Workshop on the Design and Establishment of Computerized Database of Legumes of South Asia. Jointly Organized by NBRI, Lucknow, India and Central Department of Botany, T. U., Kathmandu, Nepal. April May 1-3, 1995.(Presented the poster

- “*Study on Ecology and Ethnobotany of Legumes in Parsa, Nepal*” and worked as “a Member of Organizing Sub-committee”)
43. International Conference on System Dynamics. University of Stirling, Scotland, UK. July 11-15, 1994. (Presented the paper “*Wetland vegetation and its management in Koshi Tappu, Nepal: a system dynamic approach*”).
  44. Second National Conference on Science and Technology held in Kathmandu, Nepal. Organized by Royal Nepal Academy of Science and Technology (RONAST). June 8-11, 1994. (Presented the paper “*A Study on Vegetation Dynamics in Koshi Tappu, Nepal*” and was a co-author of the poster “*Vegetation Ecology of Herbs in Nagarjun Hill, Nepal*”).
  45. Regional Conference on Environment and Biodiversity, Organized by Ecological Society (ECOS), Kathmandu. March 7-9, 1994. (Presented the paper “*The shifting of the Koshi river and its Impact on land use change in Nepal*”. and worked as “a Coordinator of Organizing Sub-committee for General Management”).
  46. International Workshop on Sustainable Agriculture, held in Bangkok. Organized by Natural Resources Program, AIT, Bangkok. Dec 14-17, 1993. (Presented the paper “*Role of Wetlands in Sustainable Agriculture in Nepal with Reference to Koshi Tappu Region*” and worked as a Volunteer)
  47. International Botanical Conference held in Dhaka. Organized by Bangladesh Botanical Society, Dhaka. Jan. 10-12, 1991. (Presented the papers “*Assessment of Grain Amaranth Productivity in Nepal*” and a poster on “*Study of the members of Fagaceae on Phulchoki Hill, Nepal*”).

## B. Invited Seminars, Lectures:

1. Sah, J.P. et al. Vegetation dynamics in marl prairies and interplay of hydrology and fire and its implications on Everglades Restoration. Southeast Environmental Research Center (SERC) Seminar, FIU. March 9, 2011.
2. Sah, J. P. et al. The changing face of endangered species habitat management challenges in Himalayan foothill floodplains and the Everglades wetlands. Presented at: Water, Wetlands and Watershed Seminar, University of Florida, Gainesville, FL. Nov 10, 2010.
3. Sah, J. P. et al. Developing a Data-driven Classification of South Florida Plant Communities – Data Acquisition and Management, and classification of herbaceous vegetation. Plant Talk. Department of Biological Sciences, Florida International University, Miami, FL. Feb 17, 2010.
4. Sah, J. P. Fire: a disturbance? In EVR-4594: Analysis of South Florida Ecosystems- 2010 Spring Semester (Instructor – Mike Ross), Florida International University, Miami, FL. Feb 10, 2010.
5. Sah, J. P. Floodplain ecology and management. In EVR-5320: Environmental Resource Management-2007Spring Semester (Instructor – Mike Ross), Florida International University, Miami, FL. Feb 27, 2007.
6. Sah, J. P. Resource use pattern and people’s attitude: do they really matter in participatory approach to protected area management? In EVR-5360: Protected Area Management -2007 Spring Semester (Instructor – Joel Heinen). Florida International Management, FL. Feb 6, 2007.
7. Sah, J. P. Issuing annual permits for harvesting thatch grass as compensation to local people in Nepal: does this policy have effects on conservation attitude? Department of Environmental Studies Seminar, Florida International University, Miami, FL. Fall 2006.
8. Sah, J. P. et al. The habitat of the Cape Sable seaside sparrow: vegetation-environment relationships Southeast Environmental Research Center (SERC) Brown Bag Seminar, Florida International University, Miami, FL. April 14, 2004.
9. Sah, J. P. et al. Vegetation dynamics in ENP marshes with emphasis on Taylor Slough. Department of Environmental Studies Seminar, Florida International University, Miami, FL. Nov. 5, 2003.

10. Sah, J. P. GIS approach to the natural resource management in Nepal: a case study in Koshi Tappu Region Geographic Information System (GIS) Seminar. FIU GIS group at Florida International University, Miami, USA. Aug. 16, 1996.

### 13. Affiliated Professional Organizations:

#### Current memberships

1. International Association of Vegetation Science (IAVS) – **Member** (2009- )
2. Association of Fire Ecology (AFE) - **Member** (2006- )
3. The International Association for Ecology (INTECOL) - **Member** (2004- )
4. The Ecological Society of America (ESA) - **Member** (2004- )
5. Society of Wetland Scientists (SWS) - **Member** (2004- )
6. National Geographic Society (NGS) - **Member** (2001- )
7. Wetlands Nepal (WetNepal) - **Life Member and Founder President** (1999-2001)
8. National Institute of Ecology, India (NIE) - **Life Member** (Since 1998)
9. Natural History Society of Nepal (NAHSON) - **Life Member** (Since 1998)
10. Nepal Botanical Society (NBS) - **Life Member** (Since 1994)
11. Ecological Society, Nepal (ECOS) – **Life Member** (Since 1994)

#### Professional Services/Past memberships

12. American Association for the Advancement of Science (AAAS) - **Member** (2006- 2009)
13. Natural Areas Association (NAA) - **Member** (2001- 2007)
14. Nepal Botanical Society - **Treasurer** (1994-1996)
15. Nepal GIS Society (NEGISS) - **Executive member** (1995-1996)
16. Ecological Society, Nepal (ECOS) - **Executive member** (1994-1996)
17. Nepal University Teacher's Association, Kirtipur - **Executive Member** (1994-1996)
18. Nepal Biotechnology Association - **Executive Member** (1989-1992)
19. International Society for Tropical Ecology (ISTE)- **Member** (1984-2000)
20. Indian Ecological Society - **Member** (1985-1989)
21. Nepal Environmental Conservation Group - **Member** (1983-1989)
22. Tribhuvan University Botanical Society - **Graduate student representative** (1980-1982)

Jay P. Sah (Sd/-)

Date: May 1, 2011