

Academic Profile of Dr. S.K.Chaturvedi

FBS, FIAT, FBRs, FBSA.



1. **Name:** SUNIL KUMAR CHATURVEDI
2. **Date of Birth-** 10th July, 1955.
3. **Academic Qualifications-**
- a. B.Sc. University of Allahabad 1974.
 - b. M.Sc. University of Allahabad 1976, Botany.
 - c. D.Phil. University of Allahabad 1984. Thesis entitled as “**Studies in Pollination of some Indian plants**”.
 - d. German Proficiency Certificate, 1979.
University of Allahabad, Allahabad-211 002.
4. **Present Position-**
- Professor
Department of Botany,
GGV, Bilaspur- 495009
5. **Positions held**
- Head
Department of Botany
Nagaland University, Lumami- 798627
- Dean Students Welfare, Nagaland University
- Director, IQAC, Nagaland University
- Director
Centre for Biodiversity study
Nagaland University, Lumami
- Coordinator, UGC- SAP (DRS-I)- 2004-2009
Coordinator, UGC- SAP (DRS-II)- 2009-14
- Coordinator, Botanical Garden Project
Nagaland University, Lumami.

6. Present Address:

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7. Area/ Group of Specialization-

Morphology, Embryology with special reference to the pollination biology, Melissopalynology, Plant diversity, plant systematic and Ethno botany.

8. Membership/ Fellowship in Professional Bodies-

1. Elected Member of IUCN, SSC (2009-2012)
2. Elected Member of Executive Council of the Indian Botanical Society (2011- 2014)

Membership of Scientific/Academic Societies:

1. Botanical Society of America, U.S.A. 1985-1987.
2. International Asclepiads Society, London, 1982-1991.
3. International Society of Plant Morphologists, New Delhi. 1982- 1990.
4. Indian Botanical Society (Life member).
5. Indian Science Congress Association, Calcutta, India. (Life member)
6. Society of Indian Plant Taxonomists, Botany Department, Allahabad Univ. Allahabad. (Life member)
7. Bioed Research and communication Society, India. (Life member)
8. Bombay Natural History Society. 1995-1996.
9. International Union for the Study of Social Insects, Indian Chapter, Bangalore (Life member)
10. International Commission for Plant- Bee relationship (ICPBR), France.

11. Asian Society of Apiculture, Indian Chapter, Simla.
12. International Working Group on Depterocarps IWGD (IUFRO Working party S 107-07 Thailand. 1994-1998.
13. Botanical Society of Allahabad University, Allahabad.(Life Member)
14. Swami Botanical Club, Tiruchirapalli (life Member)
15. Indian Association of Angiosperm Taxonomy (Life Member).
16. Current Science Association of India, Bangalore.
17. “Science Reporter” New Delhi. (Since 2004)
18. “The Orchid Society of India” (Life Member)
Department of Botany, Punjab University, Chandigarh.
19. “Botanical Society of Assam” (Life Member)
Cotton College, Guwahati (Assam).
20. “Eastern Himalayan Society for Spermatophyte Taxonomy” (Life Member)
Department of Botany, North Bengal University, Siligurhi, Darjeeling.
21. “International Society of Plant Reproductive Biologists” Agra. (Life Member)

9. Fellowships-

1. Fellow of Indian Botanical Society (FBS).
2. Fellow of Bioved Research & Communication Society (FBRS)
3. Fellow of Indian Association for Angiosperm Taxonomy (FIAT).
4. Fellow of Botanical Society of Assam (FBSA).

10. List of Publications-

(2 Books, 61 full papers, 3 popular Articles, 90 Abstracts and Nine project reports).

11. Research Projects Undertaken/ ongoing – (Six completed and five in hand)

| S. No. | Title | Funding Agency | Period | Amount (Rs.) | Status |
|--------|---|---|--------------|---------------|-----------|
| 1. | “Pollination studies of some Indian asclepiads” | DST, Govt. of India, New- Delhi | (1985-1988) | 1, 50, 000=00 | Completed |
| 2. | “Pollination biology in some asclepiads” | DST Govt. of India, New- Delhi. | 1988-1991) | 3, 35,000=00 | Completed |
| 3. | “Reproductive Biology of some Endangered Indian Asclepiads”. | DST, Govt. of India, New Delhi, | (1996-2000) | 12,50,000=00 | Completed |
| 4. | “Plants diversity in Nagaland” SAP (DRS-I) | UGC, Govt. of India, New Delhi. | (2004-2009) | 28,75,000=00 | Completed |
| 5. | Botanical Garden Project | Ministry of Envir. & Forests, Govt. of India. | 2003- | 21,00,000=00 | Completed |
| 6. | Centre for Biodiversity Studies. | UGC, Govt. of India, New Delhi. | 2004- | 37, 50,000=00 | continue |
| 7. | Plants diversity in Nagaland SAP (DRS-II) | UGC, Govt. of India, New Delhi. | 2009- | 75,00,000=00 | continue |
| 8. | Reproductive Phenology of RET trees of Nagaland & Manipur (NE). | Ministry of Envir. and Forests, Govt. of India. | (2010-2014) | 28,75000=00 | continue |

COORDINATED PROJECTS WITH NGO’S/ OTHER ORGANIZATIONS (As PI / Co-PI)

1. Multiplication of *Taxus baccata*, Phek district Farmer’s Association, DBT, Govt. of India.
(Completed). Total Cost Rs. 27,00,000=00

2. Herbal medicinal Wealth of North East India, NIPER, Mohali, (All India Coordinated Project) Completed. Rs. 1.5 Lakhs (for one year only).
3. DBT, Govt. of India, On Apiculture in Phek district, Nagaland, Phek district Farmer's Association, Rs. 12,0 lakhs.

12. Contribution for the development of Plant taxonomy-

1. Work on the plant diversity has been taken up District wise in Nagaland.
2. Time to time groups of Plant taxonomists are invited to deliver lectures and also to teach the recent techniques involved in the studies of plant systematic.
3. One general and one special paper in Plant Taxonomy has been included in the syllabus for P.G. Students of Botany.
4. "Plant Diversity in Nagaland" has been chosen as thrust area for Special Assistance Program of UGC, Govt. of India, New Delhi.

13. Teaching Experience-

29 years,

Since 1983-1997 Assisting in teaching Programme in the Department of Botany, Allahabad University at the graduate and Post-graduate levels.

Presently teaching at Nagaland University, Department of Botany, H.Q.Lumami, since, August 1997.

14. Administrative Experiences-

8 years and 11 months (As HOD, Botany)

1. Head of the Botany Department, Nagaland University, since Nov. 16, 2000 to July 20, 2007. August 2010-cont--
2. Acting Director "Centre for " Biodiversity . Studies".
3. Coordinator, UGC- SAP (DRS-I) 2004-2009 UGC- SAP (DRS-II) 2009- 2014
4. Director, IQAC, Nagaland University, 2011-. 2014 .

5. Co-ordinator, Nagaland University .
Botanical Garden Project (Funded by DOE,
Govt. of India, New Delhi).
6. Chairman Board of Post -graduate Studies
(BPGS) in Botany, Nagaland University,
7. Chairman, Board of Under- Graduate
Studies (BUGS) in Botany, Nagaland
University.
8. Member, Campus Development Board,
Nagaland University, Lumami.
- 9.. Member, Planning Board, Nagaland .
University.
- 10.. Member, Academic Council, Nagaland
University.
11. Chairman, Sports committee, P.G.S.U.,
Nagaland University, Lumami.
12. Member Central Purchase Committee,
Nagaland University, Lumami.
13. Time to time worked as In-Charge of .
Nagaland University, Hqrs. Lumami.
14. Member, CMC, N.U., Lumami.
15. Director, IQAC, Nagaland University, Lumami.

15. Research Experience:

36 Years,

Worked as Junior Research Fellow, Senior Research Fellow, Principal Investigator DST Project, Research Associate CSIR and Scientist (Co-PI), DST Project, as mentioned below:-

16. Gold Medals-

(Four Gold Medals for Research contributions)

1. Recipient of Professor Y.S. Murty Medal, of
Indian Botanical Society.
2. Recipient of Dr. R.P. Dwivedi Gold medal of
Bioved Research Society, 2005.
3. Recipient of Prof. E.P. Odum Gold Medal,
of International Ecological Society, Dumka,
Jharkhand, 2007.
4. Prof. J.S. Datta Munshi Gold Medal, International

Ecological and Communication Soc., Hazari Bag
(Jharkhand), 2009.

17. Academic honours -

1. Recipient of best researcher award of Bioved,
Research and Communication Society, 1992.
2. Elected Fellow of Indian Botanical Society, 1992.
3. Recipient of young scientist award of Bioved
Research Society, 1995.
4. Elected Fellow of Bioved Research Society,
(FBRs), 1996.
5. Elected member of executive committee of
Indian Botanical Society for 3 years
i.e, 1999- 2001.
6. Elected member of Editorial Board of Swami
Botanical Journal, Deptt. Of Life Sciences
Bharathidasan University , Tiruchirapalli,
Tamil Nadu. 2001.
7. Adjudged best teacher by the PGSU (Lumami)
For the year 2000 - 2001.
8. Elected member of the sectional Committee of the
“Plant Sciences” for 2004-2005 during 91st meeting of
Indian Science Congress Association held at Punjab
University, Chandigarh, Jan. 4, 2004.
9. Elected E.C. Member, Indian Botanical Society,
for three Years w. e. f. 2004-2007.
10. Nominated Fellow of Indian Association for
Angiosperms Taxonomy (FIAT) during its annual
meeting held at ARI, Pune from Oct. 4-6, 2006
11. Nominated Fellow of Botanical Society of Assam
During its EC meeting held in Dec.2007.
12. Nominated member of IUCN, 2009-2012.
13. Unanimously Elected member of Executive Council of
the Indian Botanical Society for 2011-2014.

14. Elected council member of the “International Society of Plant Reproductive Biologists.”

18. Member of Editorial Board / Referee for projects proposals

1. Journal of the Indian Bot. Soc.
2. Journal of Tropical Forest, FRIM, Malaysia.
3. Journal of Assam Science Society, Latasil, Guwahati.
4. Journal of Current Sciences, Dumka, Jharkhand
5. Journal of Swami Botanical Club, Tiruchirapalli .
6. Current Science, (Bangalore)- 2005, 2006.
7. One of the referees for projects submitted in the Department of Science and Technology (DST) on Pollination and reproductive biology of plants.
8. Member Editorial Broad of the International Journal ‘Bioved’, 1989-1994.
9. Member Editorial Broad of the International Journal ‘New Agriculturist’ 1995.
10. Research Journal of Nagaland University- 2003-2005.
11. Member Editorial Broad of the International Journal of Biodiversity and Environment “Bioherald”.

19. Examiners of Ph.D. Thesis as well as UG and PG Examination of various Indian Universities.

20. Seminar/ Symposia Attended: Seventy two (72)

**21. Visited abroad eight times for attending Seminar/ symposia and workshops on
Reproductive Phenology of Asclepiads and Orchids as well as Plant diversity.**

List of publication of Dr. Sunil Kumar Chaturvedi

Full Papers Published

1. Pant, D.D., Nautiyal, D.D. and Chaturvedi, S.K., 1981. Microscopic examination of faecal pellets of insect larvae feeding on leaves of some cycads, Proceedings of Indian Academy of Sciences (Plant Sciences), 90 (6); 509-514.
2. Pant, D.D., Nautiyal, D.D. and Chaturvedi, S.K., 1982. "Insect Pollination in some Indian Glumiflorae" *Beit. Biol. Pflanzen*, Germany, **57**; 229-236.
3. Pant, D.D., Nautiyal, D.D. and Chaturvedi, S. K., 1982. "Pollination ecology of some Indian Asclepiads" *Phytomorphology*, **32** (4); 302-313.
4. Pant, D.D., Nautiyal, D.D. and Chaturvedi, S.K., 1984. "Pollination mechanism in some members of family Labiatae" *Proc. Nat. Symp. Devl. Comp. Asp. Plant Struc. Function*, 103 - 106.
5. Pant, D.D. and Chaturvedi, S. K., 1985. "Anthecological study of some Insect pollinators under SEM" *Beit. Biol. Pflanzen (Germany)* **60**; 89-92.
6. Pant, D.D. and Chaturvedi, S. K., 1986. Pollination ecology of *Asclepias curassavica* L. *Geophytology* **26** (1); 119-121.
7. Chaturvedi, S.K. and Pant, D.D., 1986. "Further studied in the Pollination of some Indian Asclepiads", *Bull. Bot. Survey India*, **28** (1-4), 23-30.
8. Chaturvedi, S.K. 1987. Pollination and pollen germination in *Cynanchum canescens* (Wild) Schum. *Asklepios*, **40**; 93-96. (London).
9. Chaturvedi, S.K., 1988. Abiotic pollination in *Tylophora hirsuta* Wight (Asclepiadaceae), *Asklepios*, **45**; 58-62. (London).
10. Chaturvedi, S.K., 1989. A new device of self pollination in *Boerhaavia diffusa* L. (*Nyctaginaceae*), *Beit. Biol. Pflanzen* **64**; 55-58, (Germany).
11. Chaturvedi, S.K., 1990. Mechanism of pollination in some members of family Verbanaceae. *Bioved*, **1** (1); 59-63.
12. Chaturvedi, S.K., 1993. "Studies on Insect visitors / Pollinators of some Angiospermous plants in Allahabad" (Edt.) B.K. Dwivedi, *New Approaches in Agri. Technology*, 301-334.
13. Chaturvedi, S.K., 1993. Significance of light-windows in the pollination of some Indian Ceropegias (Asclepiadaceae), *Journ. Cact. Succ. Soc. America*. **65** (2), (U.S.A).

14. Chaturvedi, S.K., Nautiyal, D.D. and Mukherji, S., 1990. Studies on some endangered Indian Asclepiads. *Proc. Intern. Conf. Trop. Biodiversity*, "In harmony with Nature" Kuala Lumpur, Malaysia. 219-224.
15. Chaturvedi, S.K., 1993. Modes of Pollination in some Indian Ceropegias (Asclepiadaceae). *Proc. Intern. Symp. Pollin. Tropics. Agri. Univ. Bangalore*. IUSI, Indian chapter. 1993, (Edts) G.K. Veeresh, R. Uma Shanker and K.N. Ganeshaiyah.
16. Chaturvedi, S.K., J.Lal and Shonali Chaturvedi 1995. Distributional range extension of an endemic *Ceropegia* (Asclepiadaceae). In A.K. Pandey (ed.) *Taxonomy and Biodiversity*, C.V.S. Publication, New Delhi.
17. Chaturvedi, S.K., 1995. Floral Biology of Some Asclepiads- an over-View. *Indian Journal of Palynology* Vol. 31: 239-251. (Prof. P.K.Nair- Commemoration Vol).
18. Chaturvedi, S.K. and Shonali Chaturvedi 1995. Insect behaviour and mode of pollination of Asclepiads growing in India. In R. Kiew (Edt) *The Taxonomy and Phytochemistry of the Asclepiadaceae in Tropical Asia*. Pp. 45-60, Universiti Pertanian, Malaysia
19. Chaturvedi, S.K. and Shonali Chaturvedi 1995. Pollination diversity in family asclepiadaceae. *Proceedings Botany-2000*, Kuala Lumpur, Malaysia.
20. Chaturvedi, S.K. 1994. Pollinators behaviour and Pollination efficiency in Asclepiadaceae. DST sponsored Brain Storming Session on Reproduction Biology, Jammu University, Pp: 21-22.
21. Chaturvedi, S.K. and Nautiyal, 1998. Reproductive Phenology and seed storage problem in some Endemic Ceropegias, In M.Marzalina, K.S.Khoo, N.Jayanti, F.Y.Tsan and B.Krishnapillai (Edt), *Proc.IUFRO Seed Symp. 1998 "Recalcitrant Seeds"*. Kuala Lumpur, Malaysia.
22. Chaturvedi, S.K. 2000. Chemical and Physical aspects of pollination. Pp.231-238. In D.K. Chauhan (Edt). *Recent trends in Bot. Researches*, (Prof. D.D Nautyal Common Vol). Dept. of Botany, Allahabad University. Allahabad.
23. Chaturvedi, S.K. 2001. Floral biology of *Ceropegia juncea* Roxb. Pp,176-182, on S.V.S Chauhan and S.N. Chaturvedi (Edt), *Botanical Essay*, Print well Publ. Jaipur.
24. Chaturvedi, S. K. 2003. Pollination in Asclepiadaceae. *Research Journ. Nagaland Univ. 1* (1); 1-8.
25. Chaturvedi, S.K. and Shonali Chaturvedi, 2003. A new device of Abiotic Pollination in *Cymbidium sinense* (Jacks.Ex Ander). Willd. (F. Orchidaceae). *Proc. Nat. Conf. Sustainability pollen and Pollinator Resources for food and Nutritional Security for Human Welfare*. Deptt. Env. Sciences, Andhra Univ. Visakhapatnam (Andhra Pradesh). Nov. 25- 27.

26. Chaturvedi, S.K. and Shonali Chaturvedi, 2003. Comparative study in Pollination- biology of Asclepiads and Orchids. *Professor P.C. Trivedi Felicitation Vol.*, Deptt. Bot. Rajsthan Univ. Jaipur.
27. Shonali Chaturvedi and Chaturvedi, S.K. 2003. Epidermal studies of leaves in family Araucariaceae. Prof. P.C. Trivedi Felicitation *Vol.*, Deptt. Bot. Rajsthan Univ. Jaipur.
28. Chaturvedi, S.K. and Shonali Chaturvedi, 2003. Living interaction for survival in the tropical forests of Nagaland. Prof. S.V.S. Chauhan Commemoration Volume. Department of Botany, Dr. B.R. Ambedkar University, Agra.
29. Chaturvedi, S.K. and Tamsunungla, 2004. Melissopalynology in Ungma village of Mokokchung District in Nagaland. *Nagaland Univ. Res. J.*; 2, 95-99.
30. Chaturvedi, S.K. 2005. Floral Biology of *Coelogyne nitida* (Wall. Ex D. Don) Lindl. (Orchidaceae) in Nagaland. *Nagaland Univ. Res. J.*; 3, 68-71.
31. Chaturvedi, S.K. 2005. Floral Biology and Orchid Industry. In Sema, A., Sebastian, A.J. and Savino, A. (Edt.), *Economic Development in Nagaland: Prospects and Constraints*, Pp. 77-83, N.V. Press Kohima.
32. Chaturvedi, S.K. 2006. Ceropegias and their pollination Biology. In Kumar S. (edt) Proc. Nat. Symp. Plant Sci. Res. In India: Challenges & Prospects. Pp. 101-109. Botanical Survey of India, Northern Circle, Dehradun.
33. Chaturvedi, S.K. 2007, Light windows and their significance in pollination biology of some angiosperms. *Bionature*. 26 (2) : 75-80.
34. Chaturvedi, S.K. and Shonali Chaturvedi, 2007. Biodiversity and its implications. *Souvenir*, Nat. Symp. Biodiversity Assessment, Conservation & Eco-planning, Deptt. Of Bot. ISD College, Allahabad, Sponsored by DBT & MOE & Forest, Pp. 42- 44.
35. Chaturvedi, S.K. and Jamir, N.S., 2007. Some Ethnomedical Plants of Nagaland, India, Das A.P. and Pandey, A.K. (Edt) *Advances in Ethnobotany*, pp. 83-93, Publ. Bishen Singh and Mahendra Pal Singh, Dehra Dun, India.
36. Chaturvedi, S.K. and Moakum, 2007, Extension of distributional range of genus *Mussaenda* L. to Zunheboto district, Nagaland, *Pleione*, 1 (2): 57-61.
37. Chaturvedi, S.K. and Moakum 2008. *Aeschynanthus* W. Jack (Gesneriaceae) in Mokokchung and Zunheboto districts of Nagaland, India. *Pleione* 2 (1): 106- 110
38. Chaturvedi, S.K. 2008. Mechanism of Self Pollination in *Cymbidium sinense* (Jacks. Ex Ander.) Willd. (Orchidaceae) *J.Plant Reprod. Biol.* 1(1): 1-4.
39. . Chaturvedi, S.K. 2008. Floral Biology of *Asclepias physocarpa* (E. Mey.) Schltr. in Nagaland, India. *Asklepios*, London, 102.
40. Chaturvedi S.K. and Shonali Chaturvedi 2008. Diversity of thalloid liverworts in Mokokchung and Zuneboto districts of Nagaland, India. In Mohamed, H., Baki, B.B., Nasrullahaq- Boyce A, Lee PKY, (Eds) “ *Bryology in New Millenium*” Pp. 83-01, Kuala Lumpur, University of Malaya, Malaysia

41. Chaturvedi, S.K. 2008, Anthecological studies of *Paphiopedilum insigne* (Wall.ex. Lindl.) Pfitz. (F. Orchidaceae) in Mokokchung district, Nagaland". *J. Orchid Soc. India*. **22** (1-2): 55-58. Department of Botany, Punjab University, Chandigarh.
42. Chaturvedi, S.K. and Moaakum 2008, Diversity of genus *Hedychium* Koenig in Mokokchung and Zunheboto Districts, Nagaland, India. *Folia malaysiana*, 9 (2) 129-140. Kualalumpur .
43. Chaturvedi, S.K. 2009a. Mechanism of self Pollination in *Cymbidium sinense* (jaks. Ex Ander) Wild. (Orchidaceae) *Journ. Plant Reprod. Biol.* 1 (1): 1- 4..
44. Chaturvedi, S.K. 2009b. Pollination Mechanism in *Coelogyne corymbosa*, *Journ. Plant Reprod. Biol.* 1 (2): 133- 135.
45. Chaturvedi, S.K. and Temsunungla, 2009c. Melissopalynological Studies at Kubza Village of Mokokchung District, Nagaland. *J. Palynology*, 45: 89-100.
46. Chaturvedi, S.K. and Shonali Chaturvedi, 2010. Biotic Pollination in *Aerides odorata* Lour. (Orchidaceae) *Journ. Plant Reprod. Biol.* 2 (1): 45-49.
47. Chaturvedi, S.K. 2010. Orchids Pollination: An over- view. Proc. Nat. Conf. Orchid Syst. Diversity: Analysis for Conserv. Sustainable Utilization. The Orchid Soc. India, Pp. 17-24. Bot. Deptt. Panjab Univ. Chandigarh- 160 014. India.
48. Bansal, pooja, Nath, V. and Chaturvedi, S.K. 2010. Morphotaxonomic Study on the genus *Brachymenium* Schwaegr. From Nagaland (North –Eastern Hills), India , *Phytomorphology* 60 (3-4) : 150-155.
49. Chaturvedi, S.K. and Shonali Chaturvedi, 2011. A unique mode of autogamy in *Flickingeria calocephala* Tsi & Chen (Orchidaceae) *The Intern. J. Plant Reprod. Biol.* 3 (1): 1-3.
50. Chaturvedi, S.K., Vaphuno Sale and Eshuo, K. 2011. Morphotaxonomic study on some corticolous mosses of Longkhum reserve forest, Mokokchung district, Nagaland., *Bionature*, 31 (1) : 1-12.
51. Eshuo, K. and Chaturvedi, S.K. 2011. *Ceropegia longifolia* Wallich (Apocynaceae: Asclepiadaceae)- A new record for Manipur, India. *Pleione* 5(1): 201-204.
52. Chaturvedi, S.K. 2011. Anthecology or pollination in Orchids, *Bioherald (Int. Journ. Biodiv. Environment)* , 1 (1): 13-26.
53. Eshuo, K. and Chaturvedi, S.K., 2011. *Porella obtusata* var. *macroloba* (Hepaticae): a new addition to eastern Himalayan bryoflora, *Bioherald ,(Int. Journ. Biodiv. Environment)*, 1 (1): 84-87.
54. Chaturvedi, S.K., V., Sale and Eshuo, K. 2011. Diversity of genus *Fissidens* hedw. (Musci) from Kohima district, Nagaland, *Journ. Ind. Bot. Soc.* 90 (1 & 2): 372-375.
55. Eshuo, K. Chaturvedi, S.K., 2011. New distributional record for six species of *Bazzania* S.F. Gray (Lepidoziaceae) from Nagaland, India and their morpho-taxonomic studies. In Ghosh, C. & Das A.P. (Edt) *Recent Studies in Biod. and Tradit. Knowl. In India*, 45-57. ISBN: 978-81-920386-1-2. Sarat Book Distributors, Kolkata.
56. Nath, V., Chaturvedi, S.K. and Pooja Bansal, 2011. Studies on the genus *Frullania* Reddi of Nagaland (North –East Hills) India. *NURC*, 6: 171-178.

57. S.K.Chaturvedi, 2012. Unique Mode of Mechanical Autogamy in *Phalaenopsis taenialis* (Lindl.) E.A. Christensen & Pradhan (Orchidaceae) , *The Intern. J. Plant Reprod. Biol*; 4 (1) : 1-4.
58. Chaturvedi, S.K., Eshuo, K. and Vaphuno Sale, 2011. *Fossombronia wondraczekii* (Corda) Dum. (Fossombroniaceae): New to Eastern Himalayas, *Phytomorphology*; 61 (3&4): 93-96.
59. Chaturvedi, S.K., Sinha, B.K. and Dey, S., 2011. *Mycetia mukerjiana* Deb & Dutta (Rubiaceae) : New distributional record for Nagaland, India. *Pleione* 5(2): 201-204
60. Pooja Bansal, Nath, V. and Chaturvedi, S.K., 2011. Epiphytic Bryophytes on *Thuja occidentalis* in Nagaland, North-Eastern India, *Bangladesh J. Plant Taxon.* 18 (2): 163-167.
61. Eshuo, K. and Chaturvedi, S.K., 2011. Distributional Range of genus *Saccogynidium* Grolle (Hepaticae: Geocalycaceae) in the North East India, *Bionature*; 31(2): 85-89.
62. Thomas,V.P., Sabu,M. and Chaturvedi,S.K., 2012. *Amomum carnosum* (Zingiberaceae): a new species from Nagaland, north-east India. *Kew Bulletin*; 67: 1-5.
63. Benniamin, A., Chaturvedi, S.K., Dey,S. and Moakum, 2012. Supplements to the Root Parasitic Plant in India. A New Recorded Species *Christisonia siamensis* Craib. (Orobanchaceae); *Taiwania*, 57(2): 217-221. .
64. Chaturvedi, S.K. and Eshuo, K. 2012. Abnormal asexual reproduction in *Asterella khasyana* (Griff.) Pande, K.P. Srivast. & Sultan Khan (Marchantiophyta: Hepaticae) from Nagaland, *The Intern. J. Plant Reprod. Biol.* 4(2)89-92.
65. Eshuo,K.,Chaturvedi,S.K. and Vaphuno Sale 2012. Morpho-Taxonomic studies on genus *Scapania* (Dumort.) : Hepaticae in Nagaland, India. *Indian J. Fundam. Applied Life Sci.* 2(2): 42-50.

Popular articles Published

66. Kumar, A. and Chaturvedi, S.K., 1977, “of pollen and spores” *Science Reporter*, 599-600.
67. Chaturvedi, S.K., 1980, “Prakrit ke Pujari aur unki Bhasha” *Vigyan Bharti*, 6;20-23.
68. Chaturvedi, S.K., 1981, “Podhon ko Mat chheriye unhen Takleef Hoti Hai”, *Vigyan Charcha*, *Amrit prabhat*, 12 March.

Book/s Published

1. “*Biology of Reproduction in Angiosperms*” 2001. Pp.-130, Bioved Res. & Commun. Soc. Allahabad, 211002.

Chapter Written in books

1. Chaturvedi, S.K., 1994, Insect behaviour and modes of pollination in some Asclepiads. In Ruth Kiew (ed.) *Botany-2000 proceedings volume on the Asclepiadaceae*. Univ. Pertanian , Malaysia, Selangor, Malaysia.
2. Chaturvedi, S.K., 1994, Pollination in angiosperms. In A.k.Pandey (edt.) *Reproduction in angiosperms* (based on UGC syllabus for P.G. classes).
3. Chaturvedi, S.K., 1995, Pollen- Pistil relationship. In Prof. G.S.Paliwal (edt.) N.C.E.R.T. book for studies in Botany.

.Papers Communicated/ accepted for Publication

1. Chaturvedi, S.K. , Eshuo, K. and Vaphuno Sale, 2011. Extension of distribution range of genus *Asterella* P. Beauv. *J. Ind. Bot. Soc.* (accepted)

Collaborator In Book Publication

1. K.K. Bhutani, 2008. Herbal Wealth of North-East India (A Pictorial and Herbaria Guide) Nat. Inst. Pharmaceut. Edu. Research.Mohali, (Panjab).India.
2. K.K. Bhutani, 2008. Herbal Wealth of North-East India: Database and Appraisal. Nat. Inst. Pharmaceut. Edu. Research.Mohali, (Panjab).India.

20. Seminar/ Symposia Attended: Seventy two (72)

| Particulars of Conferences, Venue and Date | Titles of papers Presented |
|--|--|
| 1. National Symposium on "Pollination Ecology and applied palynology "Hissar Agr. Univ. Hissar, 1977. | Insect Pollination in some Indian Glumiflorae. |
| 2. All India Seminar on " Recent trends in the studies of Plants structure, Bot. Dept. A.U. Allahabad-1978 | Ants and bee Pollination in <i>Lepatadaenia reticulata</i> W&A |
| 3. National Symposium on developmental and comparative spect's of plants structure and function" Bot. Dept. A.U. Allahabad 1979. | Pollination Mechanism in Some members of Family labiatae. |
| 4. Indian Botanical Conference, Jaipur, 1984. | Pollination Ecology of <i>Asclepias curassavica</i> L. |

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| 5. National seminar on "Plant animal interaction" Bot. Survey of India, Pune. 1985. | Further studies in the pollination of some Indian asclepiads. |
| 6. 2 nd International Symp. On life sciences, NEHU Shillong 1985. | Pollinia insertion and the sites of their germination in some Indian Asclepiads. |
| 7. 8th Indian Bot. Conference, Hyderabad 1985. | Pollination mechanism in <i>Sarcostemma acidum</i> (Roxb) Voigt. |
| 8. 9th Indian Bot. Conf. Madras 1996 | Reproductive Biology of some Indian Plants. |
| 9. D.S.T. Workshop Pant nagar Agr. Univ.1985. | Pollination of some Indian Asclepiads. |
| 10. D.S.T. Workshop Imphal Univ. Manipur 1987. | Pollination and pollinators of Asclepiads. |
| 11. International Workshop on "reproductive Ecology of tropical Forest Plants "Bangi,K.U.M. Malaysia, 1987. | Biotic and Abiotic pollination in some Indian asclepiads. |
| 12. 11th Indian Botanical Conference Bharathidasan University, Tiruchirapalli, 1988. | Mechanism of Pollination in <i>Ceropegia hirsuta</i> W & A. |
| 13. International Conf. On the Conservation of Tropical Biodiversity, Malayan Nature Society, 1990. | Studies on some endangered Indian - asclepiads. |
| 14. National Seminar on Modern advances in Botany , Botany Department, Poona University 1990. | Light Windows and their Significance in some Indian <i>Ceropegia</i> (Asclepiadaceae) |
| 15. Natoinal seminar on progress of palynology in tropical India. Kakatiya Univ.Warangal, 1991. | Biotic and Abiotic pollination in some Indian <i>Ceropegia</i> (Asclepiadaceae). |
| 16. International seminar on global enviroment and diversification of plants through Geological Time, botany Deptt. Allahabad Univ.1991. | 1. Pollination biology of some Ceropegias (Asclepiadaceae). 2. Sapromyophily in <i>Stapelia</i> <i>gigantia</i> N. E. Br. (Asclepiadaceae) |
| 17. Annual meeting of Indian Botanical Society, | Insect trapping and the |

- Botany Deptt. Aurangabad,1992.
...
18. Annual meeting of Indian Science Cong. Association, Goa University,1993.
19. International Symposium on Pollination in tropics G.K.V.K. Agri. Univ. Bangalore IUSI Indian Chapter,1993.
20. Annual meeting of IBS, R.D.University Jabalpur, 1993.
21. Annual meeting of ISCA, Rajasthan Univ. Jaipur, .
22. Brain storming session on “Reproduction in Plants” sponsored by the Deptt. Of science and Technology, Govt. of India at Jammu Univ. Jammu 1994.
23. Annual meeting of IBS, Panjab University, Prof.Y.S. Murty Award, lecture, Chandigarh 1994.
24. Vth Round table conference on Dipterocarps, Chiang Mai, Thailand 1994
25. XVIIIth annual meeting of IBS, Jammu Univ. Jammu Tawi. 1995.
26. Natoinal conference on the seed technology, Bot, Deptt. HNB University, Srinagar, Garhwal 1996.
27. National Seminar on Tropical Bees and the Environment, Century Foundation, Bangalore, 1996.
28. XIXth Annual Conference of Indian Bot.Society
- mechanism of Pollination in some Indian
Ceropegia L. (F. Asclepiadaceae).
- Pollination in *Calliandra surinamensis* (Mimosoidae).
- Modes of Pollination in *Ceropegias* (Asclepiadaceae).
- Population Dynamics and Pollination mechanism in *Ceropegia sahyadrica*.
Ansari et Kulkarni (Asclepiadaceae).
- Bio-Control of *Opuntia* through *Dactylopius* sp.
- Insect behaviour and Modes of Pollination in family Asclepiadaceae.
- Pollination diversity in family Asclepiadaceae.
- Seedling management and Regeneration in *Shorea robusta* (Dipterocarpaceae).
- Floral biology of *Ceropegia juncea* Roxb. (Asclepiadaceae).
- Pollinators behaviour and Pollination efficiency in Asclepiadaceae.
- Foraging behaviour of some Indian bees.
- Reproductive status of a few

- Haridwar, 1996. endemic plants in northern Western Ghats.
29. National conference on Apiculture and Honey Festival, Bangalore, 1997. Effect of light intensity and Temperature on the visits of some Indian bees.
30. National Symposium on Conservation of Biodiversity, Allahabad 1997. Diversity in floral biology of Asclepiads.
31. National Symposium on the conservation of Biodiversity and its conservation, Botany Deptt. Nov.27-29. A.U. 1997. Conservation of endemic orchids of North Eastern region.
32. Recent trends in Botanical studies, Warangal, Kakatiya Univ. March 16-18, 1998. Pollination and Pollinators of Ceropegias of North-Western Ghats.
33. IUFRO Seed Symposium, 1998 Oct. 12-15, 1998. Kuala Lumpur, Malaysia. "Recalcitrant seeds" Reproduction Phenology and seed Storage problem in some endemic Ceropegias.
34. XXIInd Annual Conference of Indian Botanical Society, Mumbai 1999. Chaired the technical Session on plants Reproduction and Embryology.
35. Annual Conference of the Mendalian Soc. of India, Nov.-2000, Ambedkar Univer. Agra. Conservation strategies and Pollination mechanism in some Indian Asclepiads.
36. XXIIIrd Annual meeting of Indian Botanical Society C.C.S. Meerut Univ. Oct. 19-21, 2000. Chaired the paper reading session on "Embryology and Reproductive biology of plants".
37. National seminar on " Botanical Researches in sanctuaries and National Parks of Assam" July 27- 28, 2002, Handique Girls College, Guwahati. Endemic Ceropegias : wild life Prospects for their conservation. .
38. 13th Annual conference of Indian Assoc. Angiosp. Taxonomy and Internat. Sympos. Plant Taxonomy: Advances and Relevance. Nov. 14-16, 2003. "Rare and Indigenous Angiospermous Taxa of Nagaland.

39. 26th All India Botanical conference, Dec. 29-31, 2003. Jamia Hamdard University, Delhi. Traditional knowledge of medicinal plants from North-eastern Region of India.
40. "Reproduction in Plants" Under the auspices of Ninety First Session of Ind.Sci. Cong. Chandigarh, Jan. 3-8, 2004. Modes of pollination in some indigenous Orchids of Nagaland.
41. 6th Indian Agricultural Scientists and Farmers Congress. Feb. 21-22, 2004. Bioved Research & Commun. Society, Allahabad. 211002. Cyanobacterial diversity in certain areas of Nagaland.
42. "Plant Science: In Retrospect And Prospect With Special Reference to Opening Of Indian Market To World", Deptt. Bot., School of Life Sciences, Dr. B.R. Ambedkar University, Khandari Campus, Agra. Dec. 19-20, 2004. Living Interaction For Survival in Tropical Rain . Forests of Nagaland.
43. XVth Annual Conf. IAAT and National Seminar on "Emerging Trends in Plant Taxonomy" Oct. 20-21, -Bot. Deptt. Nagpur Univ. Nagpur Diversity of Asclepiads in Mokokchung and Zunheboto district of Nagaland.
44. XXVIIIth All India Botanical Conference. Oct. 24-26. 2005. BSI, Deharadun. Floral Biology of *Coelogyne corymbosa* Lindl. (Orchidaceae) in Nagaland.
- Diversity of zingibers In Mokokchung and Zunheboto districts of Nagaland.
45. Nat. Symp.Plant Sci. Res. In India: Challenges & Prospects. Oct 24-26. Ceropegias and their pollination Biology.
46. Nat. Sem Econom. Dev. In Nagaland : Prospects & Constrants. Nagaland Univ., Lumami.Dec. 2-4, 2005 Floral Biology and Orchid Industry.
47. Silver Jubily symp. " Ethnobotany in the New Millenium. Jan. 12-14, 2006 *Dicentra macrocapnos* Prain (F. Fumariaceae): A wonder drug used by Naga tribes.
48. Nat. conf. Biodiv. Related Intrn. Conventions: Role Indian Scientific Community. INSA, New Delhi Interesting Plants of Mokokchung & Zunheboto

- March 8-10, 2006. districts of Nagaland.
49. Annual conference of IAAT and International Seminar On Angiosperm Taxonomy, ARI, Pune, Oct 4-6, 2006 Diversity of genus *Impatiens* (Balsaminaceae) in Zunheboto District, Nagaland.
50. XXIV Annual conference of Indian Botanical Society, Dept. of Botany, M L Sukhadiya Univ., Udaipur, Oct. 9- 11, 2006. Floral Biology of *Cynanchum walichii* wight (Asclepiadaceae).
51. DBT & MOE & Forests sponsored National symposium on “Biodiversity Assessment, and Ecoplanning”, Deptt. of Botany ISDC, Allahabad, Jan. 11-12, 2007. 1. Biodiversity and its Conservation.
2. Diversity of Plants in Zunheboto and Mokokchung districts, Nagaland.
52. 9th Agricultural Scientist and Farmers Congress, Bioved Res. & Communic. Soc., Allahabad, Jan. 29-30, 2007. --
53. UGC Sponsored National Seminar on “Intellectual Property right and Indian Wisdom” ADC, Allahabad, Feb. 3 – 4, 2007. “Biodiversity and its implications- World Scenario with special reference to the Western ghats of Indian Sub-continent”
54. DST, sponsored National seminar on “Science & Agric. Technology Awareness Program” Bioved Res. & Communic. Soc., Allahabad, Jan- 03 – Feb. - 03, 2007. “Biodiversity reserves and conservation”.
55. World Bryology conference, Univ. Malaysia, Kualalumpur, Deptt. Botany, July 23-27, 2007. “ Diversity of Thalloid liverworts of Mokokchung and Zunheboto districts of Nagaland, India”
56. XXX th Annual Conference of Indian Botanical Society, Nov. 28 – 30, 2007, Deptt. Botany, Jivaji University, Gwallior. “ Floral Biology of *Paphiopedilum insigne* (Wall. ex. Lindl.) Pfitz. (F. Orchidaceae) in Mokokchung district, Nagaland.

57. 95th ISCA conference, Andhra Univ. Visakhapattanam, Jan. 3-8, 2008. (Invited lecture). "Anthecological Studies of some Asclepiads and Orchids".
58. XXXI st Annual Conference of Indian Botanical Society, Dec. 17-19, 2008. Deptt. of Botany, Allahabad Univ. All. 1. Anthecological studies in *Aerides odoratum* (F. Orchidaceae)
2. Teratological studies in *Marchantia palmata* Nees.
59. Silver Jubilee conference of The Orchid Society of India (TOSI), Dec. 16-17. 2009. Panjab University, Chandigarh. Strategies and adaptation for Pollination in some Indigenous Orchids of Nagaland.
60. Recent trends in Biodiversity Researches, Department of Life Sciences, Assam University, Silcher, March, 16-18 2009. Orchids vs. Asclepids in anthecological studies.
61. National Seminar on Traditional Healers Practices in North-East - India. September 30-Oct.1, 2008. NEIFM, Pasighat. Nodal Officer (Nagaland) Arunachal Pradesh. Ministry of Asush, New Delhi.
62. Workshop on Traditional Healing Practices In Nagaland, Nov. 12, 2008 Deptt. of Botany, Nagaland University, Lumami. Organising Secretary
63. National Seminar on Role of Reproductive Biology in Coservation of Biodiversity. Organised by the Society of Reproductive Biology, Agra. Nov. 30- Dec.1, 2008 Pollination strategies among Asclepiads and Orchids and conservation of Biodiversity
64. Intern. Conf. on Recent trends Life Sci. vis -a -vis Natural 'Resource Management, sustainable Devel. And Human Welfare, VBU, Hazaribag, Jharkhand (India). June, 2009. Anthecological studies in some Indigenous Orchids of Nagaland.
65. One Day Workshop on Traditional Healing Practices in Nagaland, NEARI, Guwahati., July, 25-26, 2009. Traditional Healing Practices In Nagaland: Problems and Prospects.
66. National seminar on Biodiversity Conservation", Deptt. of Botany, M.S. University, Vadodara, Dec. 20-22, 2010. "Orchids and its pollinators"
67. One week Workshop on Techniques in reproductive Biology, Inst. Bioresource and Sustainable Development, Imphal, June 13-20. 1. Pollination and Orchid Biology.
2. Insect Pollinator and their Behaviour.
68. Annual Conf. of Indian Bot. Soc. , Oct. 8-10, 2011, Bot. Chaired a Technical Session.

Deptt., Lucknow Univ. Lucknow

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| 69. International Conference on Conservation and management Of Pollinators, September 14-17, 2011, Kuching, Sarawak, Malaysia. | Modes of Pollination and foraging behavior of pollinators among Indigenous Orchids in Nagaland State, North-East India. |
| 70. Nat. Conf. TOSI, Dec. 21-23, 2011, NASI, Allahabad. | Modes of Pollination among Orchids. |
| 71. Workshope on Reproductive Biology, April 27-30, 2012, Deptt. Of Botany, Delhi University, Delhi. | Studies on Pollination and the Behaviour of Pollinators. |
| 72. Training for Field Investigators and Traditional healing Practices in Nagaland, April 10-17, 2012. | Key note Address, “ Medicinal Plants of Nagaland and Conservation strategies” |

SIGNIFICANT RESEARCH ACHIEVEMENTS/ IMPACT OF RESEARCH WORK

1. Has described mechanism of Pollination in about 120 Indian plants including cultivated and wild.
2. For the first time reported **Entomophily** in some Indian grasses and sedges.
3. Reported **New device** of self pollination in *Boerhaavia diffusa* L.
4. Reported Abiotic pollination in *Tylophora hirsuta* due to in-situ germination of pollinia (This is the first documentation of self pollination in Family Asclepiadaceae).
5. Reported **Significance of light Windows** in Indian Ceropegias.
6. Reported Abiotic pollination in *Ceropegia santapauui* and discussed its importance in adaptation for self pollination.
7. Discovered Biological control of *Opuntia* through insect pests, viz, *Dactylopius tomentosus*.
8. Completed three research projects finance by the Department of Science and Technology, Govt. of India, New Delhi.
9. Described **NEW TERMINOLOGY** for the Mode of Pollinaria transfer by the Legs (**Tasinotribic**) and Proboscis (**Probonotribic**) of insects among Asclepiads.

10. Described **NEW TERMINOLOGY** for the germination of Pollinia among asclepiads, Viz., **Apical, Basal and Unilateral**.
11. First Person to Published Papers on the Modes of Pollination of Indigenous Orchids of Nagaland.
12. First Person to publish paper on the Thalloid liverworts of Nagaland..
13. First hand report of Melliso – palynology in Nagaland and its use in Biodiversity Assessment and detection of adulteration in Honey.
14. Reported the effect of light intensity and Temperature on the visit of Insects
15. Significance of light windows in Pollination in genus *Ceropegia* L.
16. Prepared Pollination Calendar for 120 Angiospermous Plants.
17. Reported Modes of Pollination (Biotic as well as Abiotic) in some indigenous Orchids of Nagaland (North-East India).

Current/ Future Work To be Undertaken-

1. Presently, working out various aspects of pollination biology in some ornamental, rare, endangered, endemic and medicinal plants belonging to family Asclepiadaceae, Zingiberaceae and Orchidaceae. There is no other Indian Botanist working on this aspect (Floral Biology) of plants in North –East India.
2. Assessment of plant diversity through Melissopalynology.

22. WORK QUOTED - So far 210 citation of the papers are there.

The research work has been quoted in various original contributions published in national as well as international journals and books mentioned below:-

From Netherland

Elvers, I., 1980, Pollen eating thricops flies (Diptera, Muscidae) on *Arrhennantherum pubescens* and some other grasses. *Botaniska Notiser*.

From Germany

Kunze, Henning, 1991. Structure and function in asclepiad pollination, *Plant Systematics & Evolution*, 176; 227-253.

Kunze, Henning, 1995. Bau und Funktion der Asclepiadaceenblute, *Phyton Annales Rei Botanicae* Vol.35,FASC 1,1-176.

From USA

Barad, G.S.,1991. Pollination of the stapeliads, *Cact. Succ. Journ. America*,**62**;130-140.

From U.K.

Ollerton, J & Liede, S. 1997. *The ASCLEPOL database.*

Ollerton & Liede 1997. Pollination systems in the Asclepiadaceae: a survey and preliminary analysis, *Biological Journal of the Linnean Society*, Vol. 62: 593-610.

Ollerton, J., Johnson, S. D., Cranmer, L. and Kellie, S. 2003. The pollination Ecology of an Assemblage of Grassland asclepiads in South Africa. *Annals of Botany* 92: 807 – 834.

From India

Johri, B.M., Ambegaokar, K.B. and Srivastava, P.S. 1992. *Comparative Embryology of angiosperms*. Vol. I and II. Published by Springer Verlag, Germany.

Vasudeva, R. and Lokesh, R. 1993. Plant- Pollinator interactions, *Curr. Sci.* 65 (2):198-201.

Rao, R.R. and Arti Garg, 1996. Pollination Ecology of the Ex Benth. (labiateae). *Taiwania* **41(4)**:309-301.

Pandey, A.K. 1997. *Introduction to Embryology of Angiosperms*. Pp.24, 71. CBS Publishers and Distributors, New Delhi,

23. Overseas assignments

1987

Kabangsan University, Selangor Malaysia

To attend the International workshop on “reproductive ecology of tropical rain forests. The visit was sponsored by the Department of Science and Technology, Govt. of India and UNESCO.

1990

Malayan Nature Society, Kuala Lumpur, Malaysia

To attend the International Conference on “The Conservation of rare species” ‘In harmony with nature’

The visit was sponsored by DST Govt. of India and the University of Allahabad.

1994

Chiang Mai, Thailand

To attend the “fifth round table conference on Dipterocarps”. The visit was sponsored by IUFRO.

1998

Forest Research Institute of Malaysia, Kuala Lumpur

To attend and present paper in .IUFRO Seed Symposium, 1998 “Recalcitrant seeds” Oct. 12-15, 1998, Kuala Lumpur, Malaysia.

Paper presented on “Reproduction Phenology and seed storage problem in some endemic *Ceropegias*”.

2007

Invited to Attend and present a paper during the “World Bryology Conference” held from July 23 – 27, 2007 at University of Malaysia, Kuala Lumpur,

Paper presented on “ Diversity of Thalloid liverworts of Mokokchung and Zunheboto districts of Nagaland, India.”

2011

Invited to attend the International Conference on the Conservation and Management of Pollinators (ICCMP-2011), held at Kuching, Sarawak, Malaysia, Sept. 14-17, 2011.

Paper presented and chaired a technical session.

24. Special lectures Delivered: Thirty Three

25. Invited as Resource Person to Deliver Lectures

1988

(1) Bihar Council of Science & Technology, Govt. of India.

Topic of deliveration-“ Inspiration in Research”.

1994

(2) Botany Department, Jammu University, Jammu.

Brain storming session on “Reproduction in plants”. Sponsored by Deptt. Of Science and Technology. Govt. of India, New Delhi.

Topic of Deliberation- “Foraging behaviour and mode of pollination in family Asclepiadaceae”.

(3) Panjab University, Chandigarh

Invited by the Indian Botanical Society, to deliver Professor Y.S. Murty award lecture.

Topic of deliberation-

“ Pollination diversity in family asclepiadaceae”.

(4) Botany Deptt., Meerut University, Meerut.

Delivered two lectures for the participants of refresher course in Morphology.

Topic of deliberations

(1) “ Reproduction in some Indian asclepiads”

(2) “Origin and Evolution of plant-animal interaction in relation to Pollination and insectivory”.

1996

(5) HNB Garhwal University, Srinagar, Garhwal.

Topic of deliberations

(1) Seed Technology

(2) Pollination biology

(6) Goa University, Staff Training College

Topic of deliberation

(1) Reproduction in flowering plants.

(7)HNB Garhwal University, Srinagar,Garhwal

Topic of deliberation

(1) “Pollinators behaviour and Pollination efficiency in family Asclepiadaceae.”

2002**Department of Botany, Guwahati University, Guwahati**

Delivered four lectures for the participants to the UGC sponsored refresher course in Botany.

Topics of the deliberations

- (1) Floral diversity in family Asclepiadaceae
- (2) Mechanism of pollination in family Asclepiadaceae.
- (3) Living interaction for survival.
- (4) Foraging behaviour of some insect visitors.

2004**Department of Botany, school of life sciences, Dr. B.R. Ambedkar university, Agra.****Topic of deliberation**

1. Modes of pollination in some indigenous orchids of Nagaland.

Department of Botany, Guwahati University, Guwahati

Delivered four lectures for the participants to the UGC sponsored refresher course in Botany.

Topics of the deliberations

- (1) Modes of pollination in family Asclepiadaceae
- (5) Mechanism of pollination in family Asclepiadaceae.
- (6) Living interaction for survival.
- (7) Foraging behaviour of some insect visitors.

2006**Department of Zoology, Allahabad University, Allahabad**

Invited, as resource person, to deliver two lectures during the UGC sponsored refresher course in Environmental Sciences- Dec., 26 and 26, 2006.

Topics of Deliberations-

1. Biodiversity and conservation strategies
2. Role of Floral Biology in Flower industry.

2007

(A) Invited, as resource person, to deliver lecture during the DBT, Govt. of India and MOE & F, Govt. of India sponsored National seminar on “Biodiversity Assessment, conservation & Ecoplanning” organized by Iswar Saran Degree College, Allahabad. Jan. 11-12, 2007

Topics of Deliberations-

1. Diversity of Plants in Zunheboto and Mokokchung district, Nagaland.

(B). Invited as resource person to deliver lecture during the UGC sponsored National seminar on “Intellectual Property right and Indian Wisdom” organized by the Allahabad degree College, Allahabad. Feb. 3-4, 2007

Topics of Deliberations-

1. Biodiversity and its implications: World Scenario with special reference to the Western Ghats of Indian Subcontinent.

(C) Invited to deliver Prof. A.C. Dutta memorial lecture at Cotton College, Guwahati, Dec. 11, 2007.

Topic of Deliberation –

“ Anthecological studies among Asclepiads ”.

2008

1. Sectional Presidents (Plant) Sciences Nominee to Deliver Invited lecture during ISCA Conference.

(Department of Botany, Andhra University, Visakhapatnam)

Invited to deliver special lecture as the Sectional President Nominee of Plant Sciences Section of Indian Science Congress Association to be held at Andhra University, Visakhapatnam from Jan. 3 – 7, 2008, under an special Seminar entitled as “ Role of Reproductive Biology in Biodiversity Conservation”

Topic of Deliberation-

“ Anthecological studies among Asclepiads and Orchids”.

2. **Silver Jubilee Celebration Conference of The Orchid Society of India, Panjab University, Chandigarh, Dec. 16-17, 2008.**

Topic of Deliveration-

Floral Biology of Indigenous Orchids of Nagaland

2009

26. **Winter School in Environmental Sciences, UGC sponsored , Academic Staff College, Allahabad University, Allahabad- Jan. 7& 8, 2009.**

Topic of Deliberations-

1. **Biodiversity: World Scenario with special reference to the Westen Ghats of India.**
2. **Floral Biology and its role in Biodiversity Conservation.**

27. **Vinoba Bhave University, Hazaribag, Jharkhand During “International Conference on Recent trends in Life Science Research vis-à-vis Natural Resource Management, Sustainable Development and Human Welfare” June 27-29, 2009.**

Topic of Deliberation-

“ Anthecological Studies on some indigenous Orchids of Nagaland”

28. **North –East Ayurveda Research Institute (NEARI), Guwahati, July, 25-26.**

Topic of Deliberation-

“ Traditional Healing Practices in Nagaland: Problem and Prospects”

2010

Department of Botany, M.S. University, Vadodara (Gujrat)

Topic of Deliberation-

1. “Modes of Pollination in some Indigenous Orcids of Nagaland”

2011

ICCMP-2011, Kuching, Sarawak, Malaysia

Topic of Deliberation –

Modes of Pollination and foraging behaviour of pollinators among some Indigenous Orchids of Nagaland state, North-East India.

2011

National Academy of India, Allahabad and The Orchid Society of India (TOSI)

Abiotic mode of pollination among Orchids of Nagaland.

2012

Department of Botany, Delhi University, Delhi

Topic of Deliberation-

Pollinators and Mechanism of Pollination among Orchids and Asclepiads

27. Seminars/ Symposia/ Workshops Organised /Collaborated - (Five)

1. One day Workshop on the Traditional Healing Practices in Nagaland , Nov. 12, 2009 at Mokokchung, in collaboration with NEIFM, Pasighat, Arunachal Pradesh, Sponsored by the Ministry of Ayush, Govt. India, New Delhi. (Nodal Officer, Nagaland)
2. One Day SAP Seminar, April 20, 2009. Nagaland University, Lumami. (Coordinator cum Convener).
3. Workshop on Traditional Healing Practices in Nagaland, Guwahati, July, 25-26, 2009.
In Collaboration with NEARI, Guwahati. Sponsored by Deptt. of Ayush, MHFW, Govt. of India, New Delhi. (Nodal Officer, Nagaland)
4. Training for Field Investigators and Traditional Healers of Nagaland, April 10-17, 2012, Nagaland University, Lumami. Sponsored by NEIFM, Pasighat in collaboration with IRFLM, Bangalore. (Nodal Officer, Nagaland and Organizing Secretary)
5. National Conference on “Recent Trends In Plant Diversity Study and Conservation of Biodiversity” Department of Botany, Nagaland University, Lumami. (Organizing Secretary).

28. Audio-Visual

Prepared, a 10 minutes Video film entitled as “Pollination of some Asclepiads.”

29. Book/s Published

- (1) “Biology of Reproduction in Angiosperms” Bioved Research Soc., Allahabad.
- (2) Herbal Wealth of North-East India : A Pictorial and Herbaria Guide (EDT) by K.K. Bhutani, NIPER, Mohali, Panjab, India

30. Other relevant information, if any-

1. One of the Referees in *CURRENT SCIENCE*, (Bangalore).
3. Member of Editorial Board of International Journal “Pleione” (North Bengal University, Siliguri, ling, Darje West Bengal)
4. Sub-editor “ Journal of Current Sciences, Magadh University, Bodh Gaya, 824 234 Bihar (India).
- 5.. Work has been quoted in the reputed text books and Journals in India and Abroad.
6. Five times visited abroad to participate and present papers in the International conferences and workshops on Reproductive Biology, reproductive ecology and diversity of various groups of Plants.

Abstracts Published

1. Pant, D.D. and Chaturvedi, S.K., 1979. Insect pollination in some Indian Glumiflorae, *Nat. Symp. Pollin. Ecol. and Appl. Palynol.* Abstracts, 8,pp.6, HAU, Hissar.
2. Pant, D.D., Nautiyal, D.D. and Chaturvedi, S.K., 1979. Structural features of Cycas leaves and adaptation of an insect pest in attacking and digesting them. *Nat. Sem. Recent Trends in the study of plants structure.* Abstracts, V-3, pp. 16,Bot. Dept., A.U. Allahabad.
3. Pant, D.D. and Chaturvedi, S.K., 1979. Ant and Bee Pollination in *Leptadaenia reticulata* W & A, Ibid. Abstracts VIII. Pp. 26.
4. Pant, D.D., Nautiyal, D.D. and Chaturvedi, S.K.,1982. Pollination ecology of some Indian Asclepiads, Abstracts, 69th Sci. Cong. *Symp. Pollin. Biol.* Mysore.

5. Pant, D.D., Nautiyal, D.D. and Chaturvedi, S.K., 1982. Pollination mechanism in a few members of family labiatae. Abstracts, 9.4 *Nat. Symp. Dev. Comp. Asp. Plant struc. Function.* Bot. Dept. A.U.
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