

# CURRICULUM VITAE OF PROF. C.V. NAIDU

**Name** : **PROF. C. VARADARAJULU NAIDU**

**Date of Birth** : **July 1<sup>st</sup>, 1961**

**Address for Communication** : **HEAD & Dean**  
Department of Biotechnology  
Department of Herbal Science  
School of Herbal Studies and Naturo Sciences  
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Kuppam – 517 425  
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## **EDUCATION:**

- a) B.Sc., in Biology from S.V University, Tirupati, India during 1984.
- b) M.Sc., in Botany from Bhopal University, Bhopal, India, during 1987.
- c) M.Phil. in Plant Physiology from Vikram University, Ujjain, India, during 1988.
- d) Ph.D. in Plant Physiology from S.V. University, Tirupati, India during 1992.

**Present Position** : **Professor, Head, Dean, BOS**

**Research Experience** : 27 Years

**Teaching Experience** : 17 years

## **Title of M.Phil Thesis:**

Effects of Light and some Nitrogenous salts and Respiratory Inhibitors on Seed Germination in *Caesulia axillaries* Roxb.

## **Title of Ph.D Thesis:**

Studies on growth, Photosynthesis and Biomass production in some under exploited Indigenous Tree species.

### **Post Doctoral Research Experience:**

- **Six years** worked as **Post Doctoral Fellow** in Biotechnology Research Centre for Tree Improvement (a research organisation of Andhra Pradesh Forest Department) Tirupati, Andhra Pradesh, India during 1990-1997.
- Worked as Postdoctoral Fellow for two years at USA during 2002-2004.

### **Areas of Research**

- Medicinal and Aromatic Plants Biotechnology
- Nanobiotechnology
- Phytomedicine
- Phytoremediation

**Papers Published : Total : 111**

- International : 65
- National : 46

**Papers Accepted : Total : 04**

- International : 04
- National : ---

**Papers Communicated : Total : 02**

- International : 02
- National : ---

**Papers Presented in Conferences : 56  
Both India and Abroad**

**Short term training courses : 13  
Attended Both India and Abroad**

**Conferences/seminars attended : 32  
Both India and Abroad**

**Foreign Countries Visited: USA, Australia, Mexico and Greece.**

## **Academic / Administrative positions held :**

### **Registrar**

- : 1). Dravidian University, Kuppam  
from 23-06-2010 to 21-08-2011
- 2). Dravidian University, Kuppam  
from 28-11-2011 to 16-08-2012

### **Dean**

- : 1). School of Herbal Studies and Naturo  
Sciences, Dravidian University, Kuppam.  
from July, 2008 to till date.
- 2). School of Science and Technology  
Dravidian University, Kuppam.  
from January, 2010 to till date.

### **Head**

- : Department of M.Sc. Biotechnology  
(from July, 2008 to till date)
- : Department of Herbal Science  
(from July, 2008 to till date)
- : Department of M.Sc. Bioinformatics  
(from July, 2008 to June, 2010)
- : Department of B.Sc. Biotechnology  
(from July, 2008 to till date)
- : Department of M.Sc. Biotechnology,  
S.V. University, Tirupati.  
(from July, 2007 to June, 2008)

### **Chairman, Board of Studies**

- : Department of M.Sc. Biotechnology  
(from July, 2008 to till date)
- : Department of Herbal Science  
(from July, 2008 to till date)
- : Department of M.Sc. Bioinformatics  
(from July, 2008 to till date)
- : Department of M.Sc. Organic Chemistry  
(from July, 2008 to till July, 2010)
- : Department of B.Sc. Biotechnology  
(from July, 2008 to till date)

<b>Professor</b>	: Department of Biotechnology, Dravidian University, Kuppam. (from June, 2008 to till date)
<b>Associate Professor</b>	: Department of Biotechnology, S.V. University, Tirupati. (from March, 2006 to June, 2008)
<b>Assistant Professor</b>	: Department of Biotechnology, S.V. University, Tirupati. (from March, 1997 to March, 2006)
<b>Special Officer</b>	: University Industry Interaction & Consultancy Cell, S.V. University, Tirupati. (from Feb. 2006 to June, 2008.)
<b>Convener</b>	: Bridge Courses S.V. University, Tirupati. (from Feb. 2006 to June, 2008)
<b>Director/ Co-ordinator</b>	: Internal Quality Assurance Cell (IQAC) Dravidian University, Kuppam (from 4-11-2009 to 7-5-2012)
<b>Member</b>	: Internal Quality Assurance Cell (IQAC) Dravidian University, Kuppam (from 5-6-2013 to till date)
<b>Co-ordinator for UGC and Other Funding agencies</b>	: Dravidian University, Kuppam (from 17-10-2013 to till date)

### **Seminars Organized:**

- National Workshop on Dravidian Herbal Heritage and Modern Clinical Systems, from 1<sup>st</sup> – 4<sup>th</sup> August, 2008, Dept. of Biotechnology, Dravidian University, Kuppam.

### **Services Rendered at State Level:**

Nominated as member of the subject committee in Biotechnology to prepare 'Model Curricula' at the undergraduate level by the Andhra Pradesh State Council of Higher Education during the year 2008.

<b>Particulars of Research Guidance:</b>	<b>M.Phil.</b>	<b>Ph.D.</b>
➤ No. of Scholars Awarded :	<b>02</b>	<b>07</b>
➤ No. of Scholars submitted :	<b>-</b>	<b>-</b>
➤ No. of Scholars under Supervision :	<b>01</b>	<b>06</b>

**No. of M.Sc. student Dissertations Awarded : 98**

**Awards and / or other Recognitions Received:**

- **Young Scientist award in Life Sciences for the year 1995 by the Andhra Pradesh Academy of Sciences, Hyderabad, Andhra Pradesh.**
- **Professor Hira Lal Chakravarthy award for the year 1997-98 in Botany by the Indian Science Congress Association (ISCA), Calcutta, India.**
- **Elected as Associate Fellow of the Andhra Pradesh Akademi of Sciences, Hyderabad, Andhra Pradesh, for the year 1997.**
- **Nominated as Advisory Board member for the Journal of Annals of Forestry, Forest Research Institute, Dehra Dun, India.**
- **Nominated as Fellow by the Association of Biotechnology and Pharmacy for his distinguished and dedicated service for the profession Biotechnology and Pharmacy for the year 2009.**
- **Received State Award (Best Teacher Award) to Meritorious Teachers for the year 2009 in recognition of his distinguished service as a teacher by the Govt. of Andhra Pradesh, Dept. of Higher Education, Hyderabad, A.P.**
- **Member of the Academic Senate : Sri Venkateswara University, Tirupati. (from 23-12-2013 to till date)**

- **Member of the Academic Senate : Dravidian University, Kuppam. (from 2008 to till date)**

### **Memberships in Professional Bodies/ Academies/ Societies:**

- Indian Botanical Society
- Indian Society of Plant Physiologists.
- Andhra Pradesh academy of Sciences.
- Indian Science Congress Association.
- Association of Biotechnology and Pharmacy

### **Resource Person:**

- Academic Staff College, S.V. University, Tirupati, Andhra Pradesh.
- Academic Staff College, Andhra University, Visakhapatnam, Andhra Pradesh.
- Biotechnology Research Centre for Tree improvement, Tirupati, Andhra Pradesh.
- Entrepreneurship Development Cell, S.V. University, Tirupati.

### **M. Phil. Degrees Awarded**

1. K. V. Saritha (2002). Studies on micropropagation of *Spilanthes acmella* Murr.
2. G. Rajesh Gandhi (2011). Isolation and characterisation of aqous extract of *Diatoms* from dead carposes on different pathogenic micro organisms and their effects.

### **Ph. D. Degrees Awarded**

1. K. V. Saritha (2005). Tissue culture studies on the medicinal plant *Spilanthes acmella* Murr.
2. D. Giribabu (2008). Studies on micropropagation, growth, pulp and seed physiology and marketing survey of *Tamarindus indica* Linn.

3. P. Shanmukh Anand (2008). Studies on plant regeneration, phytochemicals and molecular marker analysis of *Sphaeranthus indicus* (L.) – An important antijaundice medicinal plant.
4. S. Hemadri Reddy (2008). Studies on micropropagation of *Asclepias curassavica* (L.) – An important multipurpose medicinal plant.
5. D. Preethi (2008). Studies on plant regeneration, phytochemicals and molecular marker analysis of *Stevia rebaudiana* (Bert.) – An important caloriefree biosweetner.
6. P. Sujana (2011). Studies on plant regeneration, phytochemicals and antibacterial activities of *mentha piperita* (L). An important multipurpose medicinal plant.
7. T.M. Sridhar (2011). Studies on Plant Regeneration, Phytochemicals and Antimicrobial activities of *Solanum nigrum* (L.) – An Important Antiulcer Medicinal Plant.

## **SCIENTIFIC PAPERS PUBLISHED**

1. **C.V. NAIDU** and P.M. SWAMY (1993). Effect of shade on growth, biomass production and associated physiological parameters in *Pongamia pinnata* (Linn.) Pierre. **Indian J. Plant Physiology.** XXXVI (4): 212-214.
2. **C.V. NAIDU** and P.M. SWAMY (1993). Studies on growth and biomass production in response to application of seed oil cakes as fertilizer in *Lannea coromandelica*. **Indian J. Forestry.** 16(3) : 255-259.
3. **C.V. NAIDU** and P.M. SWAMY (1993). Seasonal variation of biomass production in some selected tropical deciduous forest tree saplings under natural conditions. **J. Tropical Forestry.** 9(2): 132-137.

4. **C.V. NAIDU** and D. AMRITPHALE (1993). Effect of light and storage in seed germination of *Caesulia axillaris* Roxb. **Seed Research**.22(1):58-61.
5. **C.V. NAIDU** (1993). Role of macronutrients and growth regulators in nursery. In: H.K. Desai (ed.): Forest Tree Improvement, pp.128-130, Andhra Pradesh Forest Department, Hyderabad, India.
6. **C.V. NAIDU** and D. AMRITPHALE (1994). Effect of light and its interaction with respiratory inhibitors on seed germination of *Caesulia axillaris* Roxb. **Seed Science and Technology**. 22: 163-169.
7. **C.V. NAIDU** and K.P. SRIVASUKI (1994). Effect of forest fire on soil characteristics in different areas of Seshachalam hills. **Annals of Forestry**. 2(2): 166-173.
8. **C.V. NAIDU** and P.M. SWAMY (1994). Morphology, composition and seasonal variation of leaf epicuticular waxes of some selected tree species. **J. Indian Bot. Society**. 73: 19-24.
9. **C.V. NAIDU** and P.M. SWAMY (1994). Seasonal course of calorific values in different plant parts of seven selected tropical deciduous forest tree species. **Annals of Forestry**. 2(1): 19-25.
10. **C.V. NAIDU** and P.M. SWAMY (1994). Relationship between leaf soluble sugar content and net photosynthetic rate in some tropical deciduous tree species. **Annals of Forestry**. 2(2): 207-208.
11. **C.V. NAIDU** and P.M. SWAMY (1994). Seasonal variation in N, P and K content of different plant parts in tropical deciduous tree species. **Indian J. Plant Physiology**. XXXVII (4): 224-228.
12. **C.V. NAIDU** and K.P. SRIVASUKI (1994). Effect of forest fire on some tree species in different areas of Seshachalam hills. **J. Tropical Forestry**. 10(3): 177-181.
13. **C.V. NAIDU** and P.M. SWAMY (1994). Effect of seed oil cakes as fertilizer on growth and biomass production of *Terminalia bellerica* (Gaertn.) Roxb. **Indian Forester**. 120(12):1084-1088.



14. **C.V. NAIDU** and P.M. SWAMY (1995). Seasonal variation in leaf relative water content and its relationship with biomass production in some selected deciduous forest tree species. **Indian Forester**. 121(1) : 23-28.
15. **C.V. NAIDU** and P.M. SWAMY (1995). Effect of gibberellic acid on growth, biomass production and associated physiological parameters in some selected tree species. **Indian J. Plant Physiology**. XXXVIII(1) : 15-17.
16. **C.V. NAIDU** and P.M. SWAMY (1995). Seasonal variation in ribulose 1,5-bisphosphate carboxylase activity and its relationship with leaf protein content and net photosynthetic rate in tropical deciduous tree species. **Photosynthetica**. 31(1) : 85-90.
17. **C.V. NAIDU** and P.M. SWAMY (1995). Relationship between leaf soluble protein content and net photosynthetic rate in tropical deciduous tree species. **Photosynthetica**. 31 (3):437-439.
18. **C.V. NAIDU** and P.M. SWAMY (1995). Seasonal variation in chlorophyll content and its relationship with photosynthetic rate and biomass production in tropical deciduous tree species. **Photosynthetica**. 31(3): 345-350.
19. **C.V. NAIDU** and P.M. SWAMY (1995). Seasonal pattern of photosynthetic rate and its relationship with chlorophyll content, ribulose 1, 5-bisphosphate carboxylase activity and biomass production in tropical deciduous tree species. **Biologia Plantarum**. 37(3): 349- 354.
20. **C.V. NAIDU** and P.M. SWAMY (1995). Seasonal variation of growth characteristics in some selected tree species. **Indian Forester**. 121(9) : 797-801.
21. T. VIJAYA and **C.V. NAIDU** (1995). Studies on decomposition and associated mycoflora in *Albizzia amara* Bovine. leaf litter. **Indian J. Forestry**. 18(2): 153-157.
22. T. VIJAYA and **C.V. NAIDU** (1995). Effect of aflatoxins B1 on nucleic acids, protein and chlorophyll synthesis in *Sorghum* seeds. **Indian J. Forestry**. 18(3): 205-207.

23. **C.V. NAIDU** and P.M. SWAMY (1995). Seasonal patterns of protein content in different plant parts of some selected deciduous forest tree species under natural conditions. **Annals of Forestry**. 3(1): 72-76.
24. **C.V. NAIDU** and P.M. SWAMY (1995). Seasonal changes of carbohydrate content in different plant parts of some selected deciduous forest tree species under natural conditions. **J. Tropical Forestry**. 11(3):190-197.
25. **C.V. NAIDU** and P.M. SWAMY (1996). Seasonal variation in Ca, Mg, S and Na content of different plant parts in tropical deciduous tree species. **Indian J. Plant Physiology**. 1 (1): 1-5 (New series).
26. **C.V. NAIDU** and P.M. SWAMY (1996). Seasonal patterns of carotenoid and chlorophyll content in some selected tropical deciduous tree species under natural conditions. **Annals of Forestry**. 4(1): 89-93.
27. **C.V. NAIDU** and P.M. SWAMY (1996). Seasonal changes in lipid content in different plant parts of seven selected deciduous forest tree species under natural conditions. **J. Tropical Forestry**. 12(3): 107-112.
28. **C.V. NAIDU** and P.M. SWAMY (1996). Relationship between leaf starch content and net photosynthetic rate in tropical deciduous tree species. **Annals of Forestry**. 4(1): 111-112.
29. **C.V. NAIDU**, N.V. SIVARAM PRASAD and T.V. RAMANA REDDY (1997). Studies on marketing survey and selection of high yielding plus trees of *Tamarindus indica* in Andhra Pradesh. in: P.S. Rao (ed.): Proceedings of National Symposium on *Tamarindus indica* L. pp. 198-211. Andhra Pradesh Forest Department, Hyderabad, India.
30. G. RAJENDRUDU and **C.V. NAIDU** (1997). Leaf gas exchange capacity in relation to leaf position on the stem in field grown teak (*Tectona grandis* L.f.). **Photosynthetica**. 34(1): 45-55.
31. **C.V. NAIDU**, B. CHANDRA MOHAN and P.M. SWAMY (1998). Diurnal patterns of net photosynthetic rate in five tropical deciduous tree species under sun and shade conditions. **J. Tropical Forestry**. 14(1): 32-34.

32. G. RAJENDRUDU and **C.V. NAIDU** (1998). Effects of water stress on leaf growth and photosynthetic and transpiration rates of teak (*Tectona grandis* L.f.). **Biologia Plantarum**. 40(2): 229-234.
33. **C.V. NAIDU**, B. CHANDRA MOHAN and P.M. SWAMY (1998). Influence of shade on growth and biomass production in five tropical deciduous tree species. **J. Tropical Forestry**. 14(4): 204-206.
34. G. REJENDRUDU and **C.V. NAIDU** (1998). Induction of shoot growth in teak (*Tectona grandis* L.f.) during dormancy periods. **Indian Forester**. 125(3): 293-300.
35. G. RAJENDRUDU, **C.V. NAIDU** and K. MALLIKARJUNA (1999). Effect of water stress on photosynthesis and growth in two teak phenotypes. **Photosynthetica**. 36(4): 627-630.
36. **C.V. NAIDU**, P.S. SRINIVASA SASTRY and K.P. SRIVASUKI (1999). Performance of some tree species in alkali soil. **Indian Forester**. 125(5): 508-512.
37. **C.V. NAIDU**, G. RAJENDRUDU and P.M. SWAMY (1999). Effect of temperature and acid scarification on seed germination of *Sapindus trifoliatus*. **Seed Science and Technology**. 27: 885-892.
38. **C.V. NAIDU**, B. CHANDRA MOHAN and P.M. SWAMY (1999). Effect of shade on leaf anatomy, chlorophyll content and net photosynthetic rate in five tropical deciduous tree species. **Annals of Forestry**. 7(1): 26-32.
39. **C.V. NAIDU** and P.M. SWAMY (2000). Studies on biomass production and calorific values of seven selected tropical tree species for energy plantations. *In*: R. Ramamurthi, S. Kastury and W. H. Smith (eds.). **Bioenergy - Vision for the New Millennium**, pp. 131-136, Oxford and IBH Publishing Co. Pvt. Ltd., New Delhi, India.

40. P.M. SWAMY and **C.V. NAIDU** (2000). Woody biomass production, species, land availability, policy issues, scientific and technology needs-assessment. *In*:R. Ramamurthi, S. Kastury and W. H. Smith (eds.). **Bioenergy - Vision for the New Millennium**, pp. 74-84, Oxford and IBH Publishing Co. Pvt. Ltd., New Delhi, India.
41. **C.V. NAIDU**, B.V. PRASADA REDDY and P.S RAO. (2001) Mineral composition of various components of seed of *Givotia rottleriformis* Griff. **J. Tropical Forestry. 17 (3): 77-80**
42. **C.V. NAIDU**, G. RAJENDRUDU and P.M. SWAMY (2000). Effect of plant growth regulators on seed germination of *Sapindus trifoliatius* Vahl. **Seed Science and Technology. 28: 249-252.**
43. **C.V. NAIDU**, B.V. PRASADA REDDY, N.C. MOHAN REDDY and P.S. SHANKAR REDDY (1999). Intensive forest fire management-a case study. **J. Tropical Forestry. 16(4): 1-9.**
44. **C.V. NAIDU**, B. CHANDRA MOHAN and P.M. SWAMY (1999). Effect of shade on leaf transpiration rate and epicuticular wax content of five tropical deciduous tree species. **J.Tropical Forestry. 15: 281-284.**
45. **C.V. NAIDU**, B.V. PRASADA REDDY and P.S. RAO (2000). Status of phenolic acids and associated enzymes in different seed parts of *Sapindus trifoliatius*. **Annals of Forestry. 8(2): 262-265.**
46. **C.V. NAIDU**, B. CHANDRA MOHAN and P.M. SWAMY (2000). Effect of shade on biomass production and certain enzymes of nitrogen metabolism in some tropical deciduous tree species. **Annals of Forestry. 8(1):94-98.**
47. **C.V. NAIDU**, B.V. PRASADA REDDY and P.S. RAO (2000). Levels of phenolic acids and associated enzymes in various components of seed of *Givotia rottleriformis* Griff. **Indian J. Forestry. 23(4): 401-404.**
48. **C.V. NAIDU**, P.M. SWAMY and P. JOSTHNA (2000). Correlation between photosynthetic rate and other physiological parameters in *Terminalia arjuna* used as food for tropical tasar silkworm. **Annals of Forestry. 8(1): 152-153.**

49. **C.V. NAIDU**, M. MASTAN, B. NAGARAJU, N.V. SIVARAM PRASAD, B.V. PRASADA REDDY and P.S. RAO (2000). Impact of potting media on some tree species in book type of root trainers. **J. Tropical Forestry**.16:50-56.
50. V. LOKANATHA, **C.V. NAIDU**, B.V.PRASADA REDDY and P.S. RAO (2000). HPLC determination and monitoring of azadirachtin in different agroclimatic neem ecotypes of Andhra Pradesh. **J. Non-Timber Forest Products**. 7:73-76.
51. **C.V. NAIDU** and P.M. SWAMY (2000). Diurnal variation of net photosynthetic rate in some selected tropical deciduous tree species. **Indian J. Forestry**. 23(4): 418-421.
52. **C.V. NAIDU** (2000). Seed scarification requirement in *Pterocarpus santalinus* Linn.f. **J. Indian Bot. Society**. 79: 175-178.
53. **C.V. NAIDU** (2001). Improvement of seed germination in *Pterocarpus santalinus* Linn.F. by plant growth regulators. **Indian J. Plant Physiology**. 6 (2): 205-207.
54. **C.V. NAIDU** and G. RAJENDRUDU (2001). Influence of kinetin and nitrogenous salts on seed germination of *Pterocarpus santalinus* Linn.F. **Seed Science and Technology**. 29:669-672.
55. **C.V. NAIDU** and M. MASTAN (2001). Seed pretreatment methods to improve germination in *Pterocarpus santalinus* Linn.F. **Indian J. Forestry**. 24 (3): 342-343.
56. **C.V. NAIDU**, B.V. PRASADA REDDY and P.S. RAO (2001). Effect of nitrogenous salts on seed germination of soapnut (*Sapindus trifoliatus*). **Indian J. Forestry**.24 (1): 90-92.
57. **C.V. NAIDU**, P.M. SWAMY and B. CHANDRA MOHAN (2001). Influence of shading on protein content in different plant parts of some tree species. **J. Tropical Forestry**. 17 (3):74-76.

58. A. RAJASEKHAR REDDY, M. MASTAN, **C.V. NAIDU** and P.S.RAO (2001). Seasonal variation in rooting response of stem cuttings of *Givotia rottleriformis*. **Indian J.Forestry**. 24 (4): 475- 477
59. **C.V. NAIDU** and D. AMRITPHALE (2001). Effect of light and its interaction with nitrogenous salts and seed germination of *Caesulia axillaris* Roxb. **Indian J. Forestry**. 24(4): 471-474.
60. K.V.SARITHA, E.PRAKASH, N.RAMAMURTHY and **C.V. NAIDU** (2002). Micropropagation of *Spilanthes acmella* Murr. **Biologia Plantarum**. 45(4)- 581-584.
61. D.L. ROCKWOOD, **C.V.NAIDU**, D.R. CARTER, M. RAHMANI, T.A. SPRIGGS, C.LIN, G.R.ALKER, J.G.ISEBRANDS and S.A SEGREST (2004) Short-rotation woody crops and phytoremediation: Opportunities for agroforestry?. **Agroforestry systems**. 61: 51-63, 2004
62. TADAHIDE IZUMI, DAVID. B. BROWN, **C.V. NAIDU**, KISHORE K.BHAKAT, MARK A. MACLNES, HIROSHI SAITO, DAVID J. CHEN and SANKAR MITRA (2005). Two essential but distinct functions of the mammalian a basic endonuclease. **PNAS**. 102 (16): 5739-5743.
63. SRINIVASA R PEDDI, RANAJOY CHATTOPADHYAY, **C. V. NAIDU** and TADAHIDE IZUMI (2006). The human apurinic/aprimidinic endonuclease-1 suppresses activation of poly (adp-ribose) polymerase-1 induced by DNA single strand breaks. **Toxicology**. 224 (1-2) : 44-55.
64. A. RAJASEKHAR REDDY, M. MASTAN and **C.V.NAIDU** (2006). A survey of medicinal plants in Nallamalai forests of Andhra Pradesh, India. **PAPAS**. 10(2):121- 127.
65. K. V. SARITHA, E. Prakash, P.M. Swamy and **C. V. NAIDU** (2003). Indirect shoot regeneration from leaf explants of *Spilanthes acmella* Murr. **J. Plant Biology**. 30 (1): 31-36.
66. **C.V.NAIDU**, P.JOSTHNA,P.M.SWAMY (2006). Studies on some pretreatment methods to improve seed germination in *Terminalia species*. **J.Indian Bot. Society**. 85:35-36.

67. **C.V. NAIDU**, P.M. SWAMY and M. BHUPATHI NAIDU (2006). Effect of low light on calorific values and associated physiological parameters in different plant parts of five selected tropical tree species. **J. Indian Bot. Society.** 85:30-32.
68. **C.V.NAIDU**, P. JOSTHNA, P.M. SWAMY, and M. BHUPATHI NAIDU (2006). Effect of auxins on the vegetative propagation of V-1 mulberry variety (*Morus alba*) stem cuttings. **J.Indian Bot. Society.** 85:33-34.
69. K. V. SARITHA, **C. V. NAIDU**, and P. M. SWAMY (2006). Phytochemical analysis of callus, tissue cultured and field grown plants of *Spilanthes acmella* (Murr.). **PAPAS.**10:253-257.
70. K. V. SARITHA, **C. V. NAIDU** and P.M. SWAMY (2006). RAPD analysis in tissue cultured and field grown plants of *Spilanthes acmella* Murr. **PAPAS.** 10: 259-264.
71. K. V. SARITHA AND **C. V. NAIDU** (2007). *In vitro* flowering of *Withania somnifera* Dunal. – an important antitumor medicinal plant. **Plant Science.**172:847-851.
72. **C.V. NAIDU**, A. R. REDDY, M. MASTAN, ANAND. P.S, REDDY. S.H. and K.V.SARITHA (2007). A survey of antidiabetic medicinal plants in Rayalaseema Region of Andhra Pradesh, India. **Acta Horticulturae.** 756:245-250.
73. K.V. SARITHA and **C.V. NAIDU** (2006). High frequency plant regeneration and *in vitro* flowering of regenerated plantlets of *Spilanthes acmella* Murr. – an important threatened bio-insecticide medicinal plant. **Acta Horticulturae.** 756:183-198.
74. **C. V. NAIDU** and P.M. SWAMY (2007). Studies on nutrient status and some physiological parameters in leaves of *Lannea coromandelica* used as fodder. **Annals of Forestry.** 15(2): 273-276.

75. **C.V. NAIDU**, A. RAJASEKHAR REDDY, B.V. PRASADA REDDY and P.S.RAO (2007). Levels of flavonoids in different seed parts of *Sapindus trifoliatus* Vahil. (Sapindaceae). **Journal of Non-Timber Forest Products**. 14(3): 227-228.
76. **C.V. NAIDU** and P.M. SWAMY (2007). Studies on nutrient status and some physiological parameters in levels of *Lannea coromandelica* used as fodder. **Annals of Forestry**. 15 (2): 273-276.
77. K.V. SARITHA and **C.V. NAIDU** (2008). Direct shoot regeneration from leaf explants of *Spilanthes acmella*. **Biologia Plantarum**. 52 (2): 334-338
78. A.R.S.REDDY and **C.V.NAIDU** (2008). Callus induction and regeneration in *Azadirachta indica* (A.Juss.). **Indian Forestry**. 138(2): 226-232
79. **C.V. NAIDU** (2007). Status of flavonoids in various components of seed of *Givotia rottleriformis* Griff. **J. Indian Bot. Society**. 86 (3 & 4): 199-200.
80. M. MASTAN and **C.V. NAIDU** (2007). Comparative study of growth and fruit pulp physiological characteristics of high yielding plus tress of *Tamarindus indica* in Andhara Pradesh. **J. Indian Bot. Society**. 86 (3 & 4): 105-108.
81. D. PREETHI, P. SHANMUKH ANAND, S. HEMADRI REDDY, S.P. JEEVAN KUMAR, P. JOSTHNA AND **C.V. NAIDU** (2008). In vitro plant regeneration of *Stevia rebaudiana*. **J. Trop. Med. Plants**. 9 (1): 71-76.
82. **C.V. NAIDU** AND P.M. SWAMY (2009). Effect of low light on lipid, protein and carbohydrate content in different plant parts of some tropical decidous tree species. **J Indian Bot. Society**. 88: 186-189.
83. **C.V. NAIDU**, A. RAJASEKHAR REDDY AND M. MASTAN (2009). Rooting response of stem cuttings of *celastrus paniculata* and *clerodenorn serratum* as influenced by rooting hormones. **J Indian Bot. Society**. 88: 181-183.



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86. D. PREETHI, T.M. SRIDHAR AND **C.V. NAIDU** (2011). Direct shoot organogenesis from leaf explants of *Stevia rebaudiana*. **Journal of Phytology**. 3(5): 69-73.
87. D. PREETHI, T.M. SRIDHAR, P. JOSTHNA AND **C.V. NAIDU** (2011). Studies on antibacterial activity, phytochemical analysis of *Stevia rebaudiana* (Bert.) - An important calorie free biosweetner. **Journal of Ecobiotechnology**. 3(7): 05-10.
88. D. PREETHI, T.M. SRIDHAR AND **C.V. NAIDU** (2011). Efficient protocol for indirect shoot regeneration from leaf explants of *Stevia rebaudiana* (Bert.) - An important calorie free biosweetner. **Journal of Phytology**. 3(5): 56-60.
89. P. SUJANA AND **C.V. NAIDU** (2011). Influence of bavistin, cefotaxime, kanamycin and silver thiosulphate on plant regeneratin of *Mentha piperita* (L.) - An important multipurpose medicinal plant. **Journal of Phytology**. 3(5): 36-40.
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91. P. SUJANA AND **C.V. NAIDU** (2011). Indirect plant regeneration from leaf explants of *Mentha piperita* (L.) - An important multipurpose medicinal plant. **Journal of Phytology**. 3(5): 19-22.

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93. T.M. SRIDHAR AND **C.V. NAIDU** (2011). An efficient callus induction and plant regeneration of *Solanum nigrum* (L.) – An important antiulcer medicinal plant. **Journal of Phytology**. 3(5): 23-28.
94. T.M. SRIDHAR AND **C.V. NAIDU** (2011). Effect of different carbon sources on *In Vitro* shoot regeneration of *Solanum nigrum* (Linn.) – An important antiulcer medicinal plant. **Journal of Phytology**. 3(2): 78-82.
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96. T.M. SRIDHAR AND **C.V. NAIDU** (2011). *In Vitro* direct shoot organogenesis from leaf explants of *Solanum nigrum* (L.) – An important antiulcer medicinal plant. **Journal of Phytology**. 3(5): 29-36.
97. T.M. SRIDHAR, P. JOSTHNA AND **C.V. NAIDU** (2011). *In Vitro* antibacterial activity and phytochemical analysis of solanum nigrum (Linn.) – An important antiulcer medicinal plant. **Journal of Experimental Sciences**. 2(8): 24-29.
98. T.M. SRIDHAR, D. PREETHI AND **C.V. NAIDU** (2011). Effect of silver thiosulphate on *In Vitro* regeneration of *Solanum nigrum* (Linn.) – An important antiulcer medicinal plant. **Current Botany**. 2(7): 14-16.
99. T.M. SRIDHAR AND **C.V. NAIDU** (2011). High frequency plant regeneration, *In Vitro* flowering of *Solanum nigrum* (L.) – An important antiulcer medicinal plant. **Journal of Phytology**. 3(2):85-93.

100. SALLA HEMADRI REDDY, MOHAN CHAKRAVARTHI, KRISHNAPPA NAGARATHNA CHANDRASHEKARA AND **CHALLAGUNDLA VARADARAJULU NAIDU** (2012). Influence of bavistin and silver thiosulphate on *in Vitro* regeneration of *Asclepias curassavica* (L.) using nodal explants. **American Journal of Plant Sciences**. 3: 941-946.
101. S. HEMADRI REDDY, M. CHAKRAVARTHI, K.N. CHANDRASHEKARA AND **C.V. NAIDU** (2012). Phytochemical screening and antibacterial studies on leaf and root extracts of *Asclepias Curassavica* (L.). **Journal of Pharmacy and Biological Sciences**. 2: 39-44.
102. PARA SUJANA, THULASI MUNEPPA SRIDHAR, PENCHALANENI JOSTHNA AND **CHALLAGUNDLA VARADARAJULU NAIDU** (2013). Antibacterial Activity and Phytochemical Analysis of *Mentha piperita* L. (Peppermint) – An important Multipurpose Medicinal Plant. **American Journal of Plant Sciences**. 4: 77-83.
103. S. HEMADRI REDDY, M. CHAKRAVARTHI, K.N. CHANDRASHEKARA AND **C.V. NAIDU** (2013). Effect of MS and L Medium on Callusing and Regeneration from Nodal explants of *Asclepias curassavica*- (L). **International Journal of Engineering Research and Applications**. 3: 294-301.
104. S. HEMADRI REDDY, M. CHAKRAVARTHI, K.N. CHANDRASHEKARA AND **C.V. NAIDU** (2013). Biochemical marker studies in tissue cultured and naturally growing plants of *Asclepias curassavica* (L). **Asia Pacific Journal of Research**. 1(8): 59-65.
105. CHANDRA SEKHAR PANATHULA, MANIKYAM DORAISWAMY NAIDU MAHADEV AND **CHALLAGUNDLA VARADARAJULU NAIDU** (2014). The stimulatory effect of the antimicrobial agents Bavistin, Cefotaxime and Kanamycin on *In Vitro* plant regeneration of *Centella asiatica* (L.) – An important antijaundice medicinal plant. **American Journal of Plant Sciences**. 5: 279-285.

106. MANIKYAM DORAISWAMY NAIDU MAHADEV, CHANDRA SEKHAR PANATHULA AND **CHALLAGUNDLA VARADARAJULU NAIDU** (2014). Impact of different carbohydrates and their concentrations of *in vitro* regeneration of *Solanum viarum* (Dunal)-An important anticancer medicinal plant. **American Journal of Plant Sciences**. 5: 200-204.
107. M.D. MAHADEV, CHANDRA SEKHAR PANATHULA AND **C.V. NAIDU** (2014). Influence of Bavistin, Cefotoxime, Kanamycin and Silver Thiosulphate on plant regeneration of *solanum viarum* (Dunal) – An important anticancer medicinal plant. **American Journal of Plant Sciences**. 5: 403-408.
108. CHANDRA SEKHAR PANATHULA, M.D. MAHADEV AND **C.V. NAIDU** (2014). High efficiency adventitious indirect organogenesis and plant regeneration from callus of *Centella asiatica* (L.) – An important antijaundice medicinal plant. **International Journal of Advanced Research**. 2(1): 1027-1036.
109. D. MAHADEV, CHANDRA SEKHAR PANATHULA, **C.V. NAIDU** (2014) "Efficient protocol for direct shoot organogenesis from in vitro raised nodal explants of *Solanum viarum* (Dunal) - An important anticancer medicinal plant" **International Journal of Medicinal and Aromatic Plants**. 4 (1): 48-55.
110. CHANDRA SEKHAR PANATHULA, M. D. MAHADEV, **C. V. NAIDU** (2014) "Effect of different carbohydrates on *In vitro* plant regeneration of *Centella asiatica* (L.) -An important antijaundice medicinal plant" **International Journal of Medicinal and Aromatic Plants**. 4(1): 41-47.
111. A. Balakrishna, P. Josthna and **C.V. Naidu** (2014) "Evaluation of *in vitro* antioxidant activity of root bark of *Chromolaena odorata* - An Important Antidiabetic Medicinal Plant". **Pharmacophore**. 5 (1): 49-57.

# RESEARCH CONTRIBUTIONS OF PROF. C.V. NAIDU

## 1. SEED DORMANCY STUDIES:

Seed dormancy and germination of *Caesulia axillaries* (Asteraceae) an annual herb (weed) found growing in agricultural fields and wastelands was studied in detailed. Studies on red, far-red, blue and green light irradiations on seeds of *Caesulia axillaris* were found photoblastic. Nitrogenous salts and respiratory inhibitors also reduced the dormancy period in this weed species.

Methods for breaking seed dormancy in 50 economically important tropical deciduous forest tree species like *Pterocarpus santalinus*, *Tectona grandis*, *Anogeissus latifolia*, *Sapindus trifoliatus*, *Givotia rottleriformis* etc., have been attempted to reduce duration of dormancy period and more percentage of germination. Some important seed physiological parameters viz., Phenols and related enzymes, flavonoids, mineral status and terpenoids were also studied to see the correlation with dormancy of forest tree species.

## 2. FOREST ECOLOGICAL STUDIES:

A detailed study was carried out on the effect of wildland forest fires on the physical and chemical properties of the soil and also natural regeneration ability of different tropical forest tree species. Based on the study a few forest tree species which exhibited high potential for regrowth after forest fires were identified. Such species have been recommended for afforestation programmes in repeated fire affected areas of the country.

## 3. PHOTOSYNTHESIS AND BIOPRODUCTIVITY OF TROPICAL FOREST TREE SPECIES:

A detailed study on photosynthesis, water relations and bioproductivity of different tree species was under taken with a view to utilize the knowledge gained through the study for effective

implementation of afforestation, agroforestry and social forestry programmes to meet the energy demands of the country as well as to maintain ecological balance and environmental stability.

### **LINES OF WORK CARRIED OUT:**

Photosynthetic gas exchange characteristics of selected forest tree species during early stages of their growth were studied using portable photosynthesis measuring system. The productivity of different forest tree species at their early stages of growth and under natural environment was studied based on plant growth analysis using destructive sampling technique. The relationship between photosynthetic CO<sub>2</sub> exchange characteristics and biomass production of selected tree species was studied by adopting regression analysis. The correlation between transpirational water loss and the rate of photosynthetic CO<sub>2</sub> exchange characteristics was under taken to select tree species exhibiting high potential for biomass production under natural environmental conditions.

### **SIGNIFICANT FINDINGS OF THE STUDY:**

Among the tree species tested, *Chukrasia tabularis*, *Dolichandrone atrovirens*, *Eugenia jambolana*, *Gmelina arborea*, *Lannea coromandelica*, *Terminalia arjuna* and *Terminalia bellerica* etc., were found tolerate to drought based on their growth, photosynthetic and CO<sub>2</sub> exchange characteristics. The above tree species showed fast growing, high water use efficiency, energy rich and high biomass production were identified under natural environment. Methods and techniques used in the study were found potential and would be useful to select right type of tree species for developmental programmes such as afforestation, agroforestry and social forestry.

4. **PHYSIOLOGICAL STUDIES IN TEAK (*Tectona grandis*):**

Photosynthetic and growth characteristics in two teak phenotypes having narrow and broadleaved were studied. Seasonal and diurnal gas exchange measurements were also made in leaves of two teak phenotypes at different positions on the stems. The effect of water stress on photosynthesis and growth characteristics were also made. Based on these studies the teak phenotype with narrow leaves found to be fast growing and drought tolerant. These characteristics were found associated with photosynthetic rates. This narrow leaved teak phenotype can be used for plantation purpose in drought prone areas of this country to meet the timber demand as well as to maintain ecological balance and environmental stability.

5. **VEGETATIVE PROPAGATION METHODS OF FOREST TREE SPECIES:**

Economically important forest tree species like *Pterocarpus santalinus*, *Tectona grandis*, *Azadirachta indica*, *Santalum album*, *Sapindus trifoliatus*, *Pongamia pinnata*, *Givotia rottleriformis*, *Eucalyptus camadulensis*, *Albizzia lebbeck* and *Dalbergia latifolia* etc., were successfully used for large scale propagation by rooting of leafy stem cuttings and plant cell, tissue and organ culture techniques.

6. **VEGETATIVE PROPAGATION METHODS IN FRUIT BEARING TREES:**

High yielding *Tamarindus indica* (Tamarind), *Annona squamosa* (Custard apple), *Feronia elephantum* (Wood apple), *Syzygium cumini* and *Embllica officinalis* etc., were identified through an extensive field survey and these have been used for large scale clonal propagation by rooting of leafy stem cuttings and axillary bud culture techniques. Such fruit bearing trees started yielding on third year of plantation instead of 15 years by normal seed propagation.

## **7. VEGETATIVE PROPAGATION STUDIES IN MEDICINAL PLANTS:**

Some important antidiabetic and other medicinal plants were identified in the Seshachalam Hills of Nallamalai Forests of Andhra Pradesh and some of the active principles were studied and attempts were made for the vegetative propagation.

## **8. PRODUCTION OF SECONDARY METABOLITES:**

High value secondary metabolites like azadirachtin and saponin were estimated in elite neem (*Azadirachta indica*) and soapnut trees (*Sapindus trifoliatus*) and such compounds of economic value have been obtained from plant tissue callus cultures with yields comparable to parent.

## **9. PHYTOREMEDIATION:**

Experiments were conducted on both organic and contaminants such as TCE, PCE and inorganic contaminants such as Lead, Cadmium, Mercury and Arsenic by using different plant species for cleaning the soil, water and air. Plant molecular biology based experiments were also conducted for the production of hyperaccumulator plants for more accumulation of contaminants.

## **OUTSTANDING ACHIEVEMENTS OF DR. C.V. NAIDU**

1. Simple and most useful techniques were developed for breaking dormancy of seeds of tropical forest tree species for afforestation and social forestry programmes.
2. Drought tolerant and fast growing forest tree species were identified through photosynthesis, water relations, growth characteristics and biomass production for afforestation and social forestry programmes.
3. Fire tolerant forest tree species were identified through repeated field visits and re-growth characteristics for repeated fire affected areas in the forest land of Andhra Pradesh, India.



4. A high yielding 40 tamarind (*Tamarindus indica*) varieties were identified in South India and 3,50,000 plants were produced through axillary bud culture technique, which started yielding on third year of plantation instead of 15 years by seed propagation.
5. Very economically important timber yielding tropical tree species were propagated on large scale production through different types of plant cell, tissue and organ culture methods as a result 5.5 lakhs of plants were produced.
6. Salt tolerant and fast growing forest tree species were identified through photosynthesis and growth characteristics for saline-alkaline soils in Andhra Pradesh, India.
7. Drought tolerant and fast growing teak (*Tectona grandis*) phenotype with narrow leaves was identified through photosynthesis, growth characteristics and water relations under commercial plantations outside its natural occurrence. This narrow leaved teak phenotype can be used for plantation in the drought prone areas of this country.
8. Some important anti-diabetic and other medicinal plants were identified and some of the active principles were studied and attempts were made for vegetative propagation.
9. High value secondary metabolites like azadirachtin and saponin were estimated from elite neem (*Azadirachta indica*) and soapnut trees (*Sapindus trifoliatus*).
10. Hyperaccumulator plants were screened to clean the organic and inorganic contaminants present in air, water and soil based on plant molecular biology techniques.

11. *In vitro* flowering, fruiting and seed set was achieved first time in *Withania somnifera* an important antitumor medicinal plant. The observations reported here are novel and it leads to a better understanding of the physiological and molecular events. The protocol also can be extended to plant breeding studies for the purpose of quick flowering and fruit formation.

## **SHORT TERM TRAINING COURSES ATTENDED BOTH IN INDIA AND ABROAD**

1. National Workshop on Radio-chemistry and applications of radio-isotopes. Sponsored by the Indian Association of Nuclear Chemists and Allied Scientists (IASCAS) Government of India, during 5-9th September, 1991 at S.V. University, Tirupati, India.
2. Orientation Programme on Recent Advances in Drought Research. Organised by Rubber Research Institute of India, Kottayam (Kerala) and Society for Plant Physiology and Biochemistry, New Delhi, during 10-13th December, 1991.
3. Training programme on Tree improvement and improved nursery technology held at Biotechnology Research Centre for Tree Improvement, Tirupati, India from 24-27<sup>th</sup> September, 1993.
4. Training programme on Afforestation and tree planting organised by National Afforestation and Eco-development Board during 17-19th November, 1994 at Biotechnology Research Centre for Tree Improvement, Tirupati, A.P., India.
5. Training programme on Interactive seminar on technology transfer held at Biotechnology Research Centre for Tree Improvement, A.P. Forest Department, Tirupati, A.P., India, during 1-2nd August, 1996.

6. Indo-US Workshop on Eco-Friendly technologies for biomass conversion to energy and industrial chemicals held at Sri Venkateswara University, Tirupati, A.P., India from 23-26<sup>th</sup> September, 1996.
7. Practical training course on techniques in Molecular Biology and Plant Biotechnology sponsored by the department of Biotechnology, Govt. of India during 8-28<sup>th</sup> September 1998 at School of Life Sciences, Pondicherry University, Pondicherry.
8. Training programme on Improved Nursery Technology held at Biotechnology Research Centre for Tree Improvement, A.P. Forest Department, Tirupati, A.P., India, during 10-13<sup>th</sup> February, 1999.
9. Four Week Orientation Programme organized by Academic Staff College, Sri Venkateswara University, Tirupati, from 13<sup>th</sup> December 1999 to 8<sup>th</sup> Jan. 2000.
10. Participated in the three week refresher course in the subject of Biotechnology by Academic Staff College, Sri Venkateswara University, Tirupati from 4-23<sup>rd</sup> June, 2001.
11. Participated in the three week refresher course in the subject of Information Technology by Academic Staff College, Sri Venkateswara University, Tirupati from 19<sup>th</sup> Dec. 2005 to 7<sup>th</sup> Jan. 2006.
12. Participated in the two days National workshop on Medicinal Plants conducted by Department of Botany, Sri Venkateswara University, Tirupati, India from 10<sup>th</sup>-11<sup>th</sup> March, 2006.
13. Participated in the four days National work shop on Dravidian Herbal Heritage and Modern Clinical Systems by Department of Biotechnology, Dravidian University, Kuppam, India from 1<sup>st</sup> – 4<sup>th</sup> August, 2008.

## **CONFERENCES / SEMINARS ATTENDED BOTH IN INDIA AND ABROAD**

1. Workshop on medicinal plants, at S.V.Ayurvedic College, Tirupati, India. Sponsored by the ministry of health and family welfare, Government of India, from 9-11th February, 1990.
2. U.G.C. National seminar on prospect ion of ground water in different terrains of India-Environmental strategies for 21st Century (2001 A.D.) and VII annual conference on National Environmental Science Academy (NESA) from 28-31st December, 1990 at Tirupati, India.
3. U.G.C. National Seminar on Regionalization of Agriculture in India held at S.V.University, Tirupati, India during 7-9th March, 1991.
4. National seminar on Nuclear power, production and management including environmental aspects. Sponsored by Indian Association of Nuclear Chemists and Allied Scientists (IANCAS) from September 2 - 4th 1991, at Tirupati, India.
5. Department of Non-Conventional Energy Sources (DNES) meeting on Fuel wood Production and Improvement held at CSIR complex Palampur (H.P.), India, during 10- 11th, November, 1991 at Palampur, India.
6. National symposium on *Tamarindus indica* held at Biotechnology Research Centre for Tree Improvement, Tirupati, A.P., India, during 27-28th June, 1997.
7. National symposium on Emerging Trends in Plant Sciences - held at Sri Venkateswara University, Tirupati, A.P., India, from 15-17 March, 1999.
8. Brain storming colloquim on Biodiversity monitoring, conservation and management-A need for a national agenda to meet the challenges of the next millennium sponsored by Department of Science and Technology, Govt. of India, during August 26-27<sup>th</sup>, 1999 held at Sri Venkateswara University, Tirupati, India.

9. National seminar on Watershed Management for Sustainable development with Reference to Drought Prone Areas sponsored by Union Ministry of Water Resources, New Delhi, held at Department of Economics, Sri Venkateswara University, Tirupati from 7-18<sup>th</sup> December, 1999.
10. National seminar on Energy and Environment for Sustainable development sponsored by Andhra Pradesh State Council of Science and Technology held at Department of Civil Engineering, S.V.University, Tirupati from 25 & 26<sup>th</sup> February, 2000.
11. National seminar on Tribal Ecology and Sustainable Development in India held at S.V.University, Tirupati from 1<sup>st</sup> & 2<sup>nd</sup> March, 2000.
12. Plant Biotechnology and beyond Conducted by International Association for plant tissue culture and biotechnology, Orlando, Florida, USA, June 23<sup>rd</sup>- 28<sup>th</sup>, 2002.
13. Applications of waste remediation technologies to agricultural contamination of water resources. Kansas, MO, USA, July 30<sup>th</sup>-August 1<sup>st</sup>, 2002.
14. The 9<sup>th</sup> new Phytologist: Heavy metals and plants from ecosystems to biomolecules. University of Philadelphia, PA, USA, Sept 29<sup>th</sup> Oct 1<sup>st</sup>, 2002.
15. Tools for environmental clean up: Engineered plants for Phyto-remediation. Jan 26<sup>th</sup>- 28<sup>th</sup> 2003. Seattle, WA, USA.
16. International applied phytotechnologies, Chicago, IL, USA, sponsored by United States of Environmental Protection Agency, March 3<sup>rd</sup>-5<sup>th</sup>, 2003.
17. Biotechnology for Foresters, genetic control and breeding of complex traits. Sponsored by school of Forest resources and conservation, University of Florida, Gainesville, Florida, USA, may 5-6<sup>th</sup> 2003.
18. 13<sup>th</sup> Annual west coast conference in contaminated soil, sediment and water San Diego, California, USA, March 17-20<sup>th</sup> 2003.

19. 34<sup>th</sup> Annual symposium on Forest resource values: Florida's legacy and future. Conducted by School of Forest Resources and Conservation of Society of American Foresters, University of Florida, Gainesville, Florida, USA, April 23<sup>rd</sup>-24<sup>th</sup> 2003.
20. 2<sup>nd</sup> International symposium on contaminated sediments. Quebec, Canada, May 26-28<sup>th</sup> 2003.
21. The Seventh International symposium on *insitu* and on-situ bioremediation, Orlando, Florida, USA, June 2<sup>nd</sup>-5<sup>th</sup> 2003.
22. 2<sup>nd</sup> European bioremediation conference organized by European federation of biotechnology event, Chania, Crete, Greece, June 30<sup>th</sup>-July 4<sup>th</sup> 2003.
23. Plant Biology ASPB 2003, annual meeting, Honolulu, Hawaii, July 26-30, 2003.
24. The National Urban Forest Conference, San Antonio, Texas, USA, Sept 17-20<sup>th</sup> 2003.
25. The 19<sup>th</sup> Annual International Conference on soils, sediments and water. University of Massachusetts, Amherst, USA, Oct 21<sup>st</sup>-24<sup>th</sup>, 2003.
26. Ecological Engineering for integrated water management. The future of industrial, urban and agricultural water shed management, conducted by Harvard University, Boston, USA. October 31<sup>st</sup>-Nov. 2<sup>nd</sup>, 2003.
27. UGC National Seminar on Scenario of Sericulture in India, conducted by Department of Sericulture, S.P Mahila Visvavidyalayam, Tirupati A.P, India, March, 25<sup>th</sup>-26<sup>th</sup> 2005.
28. UGC Regional Seminar on Phytoremediation. The process from green to clean, conducted by Department of Biotechnology, P.V.K.N. Govt. College, Chittoor, A.P., India, July 9<sup>th</sup>-10<sup>th</sup>, 2005.
29. DST seminar on Brain storming session on Disaster Management conducted by Sri Venkateswara University, Tirupati, A.P., India from 27<sup>th</sup>-28<sup>th</sup> Feb, 2006.

30. National seminar on Environmental Biotechnology conducted by Department of Microbiology and Biotechnology, Jagarlamudi Kuppuswamy Choudary college, Guntur, A.P. India from 21<sup>st</sup>- 22<sup>nd</sup> Jan, 2006.
31. International Symposium on Medicinal and Neutraceutical plants conducted by International Society for Horticultural Science (ISHS) at Fort Valley State University, Macon, Georgia, USA from March 19<sup>th</sup>-23<sup>rd</sup>,2007.
32. International seminar on Medicinal Plants & Herbal Products conducted by Department of Botany, S.V.University, Tirupati & A.P. Medical & Aromatic Plants Board, Hyderabad, A.P., India from March 7<sup>th</sup>-9<sup>th</sup> 2008.

## **RESEARCH PAPERS PRESENTED IN CONFERENCES BOTH IN INDIA AND ABROAD**

1. P.M.SWAMY and **C.V.NAIDU**: Biomass production by some under exploited indigenous tree species. Paper presented at 6th annual convention of Bio-energy Society of India, Madurai, from 29-31st January, 1990.
2. **C.V.NAIDU** and P.M.SWAMY: Effect of seed oil cakes as fertilizer on growth and biomass production of *Lannea coromandelica*. Paper presented in Workshop on Vegetative Propagation/Biotechnologies for tree improvement. Organised by the Andhra Pradesh Forest Department at Tirupati (A.P.). India from 25-26th March, 1991.
3. P.N.BHAVANI, **C.V.NAIDU** and P.M.SWAMY: Alleviating PEG-6000 induced water stress effects by calcium. Paper presented in Recent advances in drought research at Rubber Research Institute of India, Kottayam, Kerala from 10-13th December, 1991.
4. P.M. SWAMY and **C.V.NAIDU**: Woody biomass production, species, land availability, policy issues, scientific and technology needs assessment. Paper presented in the Indo-US workshop on "Eco-Friendly technologies for biomass conversion to energy and industrial chemicals" held at Sri Venkateswara University, Tirupati, A.P. India from 23-26th September, 1996.

5. **C.V.NAIDU** and P.M.SWAMY: Effect of gibberellic acid on growth, biomass production and associated physiological parameters in some tropical tree species. Paper presented in the Indo-US Workshop on "Eco-Friendly Technologies for biomass conversion to energy and industrial chemicals" held at Sri Venkateswara University, Tirupati, A.P., India from 23-26<sup>th</sup> September, 1996.
6. **C.V.NAIDU** and P.M.SWAMY: Studies on biomass production and calorific values of seven selected tropical deciduous tree species for energy plantations. Paper presented in the Indo-US Workshop on Eco-Friendly technologies for biomass conversion to energy and industrial chemicals held at Sri Venkateswara University, Tirupati, A.P., India from 23-26<sup>th</sup> September, 1996.
7. **C.V.NAIDU**, B.CHANDRA MOHAN and P.M.SWAMY: Influence of shade on growth and biomass production in five tropical deciduous tree species. Paper presented in the Indo-US workshop on Eco-Friendly Technologies for biomass conversion to energy and industrial chemicals" held at Sri Venkateswara University, Tirupati, A.P., India from September, 23-26, 1996.
8. **C.V.NAIDU**, B.V.PRASADA REDDY and P.S. RAO: A market study on *Tamarindus indica* products and a strategy for improving the structure with emphases on benefit to producers, held at Biotechnology Research Centre for Tree Improvement, Tirupati, A.P., India from 27-28<sup>th</sup> June, 1997.
9. N. V. SIVARAM PRASAD, **C.V.NAIDU** and T.V.RAMANA REDDY: Selection of candidate plus tress of *Tamarindus indica* in Andhra Pradesh, held at Biotechnology Research Centre for Tree Improvement, Tirupati, A.P. India from 27-28<sup>th</sup> June, 1997.
10. T.VIJAYA, **C.V.NAIDU** and K.JANARDHANAM: Biofertilizers-a step towards pollution control". Paper presented in the National Conference on Environmental Pollution–Solid Waste Management-held at Sri Venkateswara University, Tirupati, A.P.India from 25-26<sup>th</sup> March, 1998.



11. T.VIJAYA, **C.V.NAIDU** and K.JANARDHANAM: Minimising environmental pollution by conversion of different biofeed stocks into biogas. Paper presented in the National Conference on Environmental Pollution-Solid waste Management held at Sri Venkateswara University, Tirupati, A.P. India from 25-26th March, 1998,
12. **C.V.NAIDU**, T.VIJAYA and K.JANARDHANAM: Pollution control through earthworms by utilizing biowaste materials. Paper presented in the National Conference on Environmental Pollution - Solid Waste Management held at Sri Venkateswara University, Tirupati, A.P. India from 25-26th March, 1998.
13. M. MASTAN, **C.V.NAIDU**, N.V.SIVARAM PRASAD, B.V.PRASADA REDDY and P.S.RAO: Comparative study of growth and fruit pulp physiological characteristics of high yielding plus trees of *Tamarindus indica* L. Paper presented in the National Symposium on Emerging Trends in Plant Sciences, held at Sri Venkateswara University, Tirupati, A.P., India, March 15-17, 1999.
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