

**NATIONAL SEMINAR ON PLANT RESOURCES  
OF WESTERN GHATS**

*Ecology, Economics and Conservation*

**7<sup>th</sup> and 8<sup>th</sup> December, 2006**

**PROGRAMME SCHEDULE**

Venue: Satish Dhawan Auditorium, CSIC, IISC, Bangalore

*Organised by:*

**Karnataka Biodiversity Board,  
Bangalore, Karnataka**

*Sponsored by:*

**National Biodiversity Authority,  
Govt. of India, Chennai**

**National Seminar on Plant Resources of Western Ghats  
On 7<sup>th</sup> & 8<sup>th</sup> December, 2006 at Satish Dhawan Auditorium, CSIC,  
IISC, Bangalore-12**

**PROGRAMME**

**Day 1 : 7<sup>th</sup> December, 2006**

9.00 AM - 9.30 AM  
9.30 AM - 10.30 AM

Registration  
Inaugural Session

- Invocation
- Nadageethe
- Welcome Note by Sri. N. D. Tiwari, Member Secretary, KBB
- Inaugural Address by Prof. S. Kannaiyan, Chairman, NBA
- Keynote Address by Dr. S. Natesh, Dept of Biotechnology, Ministry of Science and Technology.
- Presidential Remarks by Abhijit Das Gupta, Principal Secretary, Forest, Environment and Ecology Dept., GOK
- Vote of Thanks by Dr. K.N. Ganeshiah, UAS, Bangalore

10.30 AM - 10.45 AM

Tea

**Technical Session I - Diversity, Distribution of Plant Resources of Western Ghats**

Chairman : Dr. Dilip Kumar, Co- Chairman Sri. Ganhadara V Maddikere  
10.45 AM - 12.40 PM

10.45 AM - 11.05 AM

✓ **Patterns of Plant Resource diversity along Western Ghats:**  
Dr. K.N. Ganeshiah, UAS, Bangalore

11.05 AM - 11.30 AM

✓ **Distribution of Vegetation types along Western Ghats:**  
Ramesh, B.R., French Institute, Pondicherry

**Contributed Presentations**

11.30 AM - 11.40 AM

Forest Bioresources of Kerala: Past, Present & Future:  
Sharma, J.K.

11.40 AM - 11.50 AM

Tree Species Composition and diversity in a moist deciduous forest of Bhadra Wildlife Sanctuary, Karnataka  
Prakasha, H. M, Nanda. A. and Krishnamurthy, Y. L.

11.50 AM - 12.00 PM

Quantitative assessment of plant resources from Perner and Sangamner Tahsils of Ahmednagar district (Maharashtra):  
Shendage, S. M., Malpure, N. V., Pawar, N. V., Bhise, D. S. and Yadav, S. R.

12.00 PM - 12.10 PM

Studies on distribution and diversity of aquatic Macrophytes in lentic water bodies of mid Westernghat range, Shimoga district:  
Narayana, J.

12.10 PM - 12.20 PM

Diversity of Liverworts in Bhadra Wildlife Sanctuary- Karnataka:  
Sathish, A.M. and Krishnappa, M.

12.20 PM - 12.40 PM

Discussion on above papers

**Technical Session II - Livelihood and Bio-prospecting**

Chairman : Dr. S.N. Hegde, Co- Chairman : Dr. R. Umashankar  
12.40 PM - 3.00 PM

**Invited Speakers**

12.40 PM - 1.05 PM

A talk by Dr. Ved, FRLHT, Bangalore

- 1.05 PM – 1.30 PM      **Conservation and Bioprospecting of Forest Genetic resources of Western Ghats:**  
Dr. R. Uma Shanker, University of Agricultural Science, Bangalore.
- 1.30 PM – 2.30 PM      **Lunch**
- Contributed Presentations**
- 2.30 PM – 2.40 PM      **Diversity in Uppage (Garcinia cambogea) – (-)- hydroxy citric acid yielding medicinal tree:**  
Hegde, L., Kuruvinshetty, M.S., Padnad, Mahesh and Thimmaraju, R.
- 2.40 PM – 2.50 PM      **Ethnobotany of 'Naaga Beedhi' in Udipi and Dakshina Kannada Districts of Karnataka:**  
Hebbar, A.
- 2.50 PM – 3.00 PM      **Timber and Non timber tree species in coffee based agroforestry systems of Kodagu, Central – Western Ghats:**  
Sathish, B.N., Kushalappa, C.G. and Chandrashekar, M.
- 3.00 PM – 3.10 PM      **Ethnobotanical Study of Plant Resources of Jogimatti Scrub Forest, Karnataka:**  
Taranath, T.C. and Hiremath, V.T.
- 3.10 PM – 3.20PM      **Ethno-Veterinary Knowledge Of Khare-Vokkaliga Community in Karnataka:**  
Somashekhara Achar, K.G., Rajakumar, N., Parashurama, T.R. and Shivanna, M.B.
- 3.20 PM – 3.40PM      **Discussion**
- 3.40 PM – 3.50PM      **Tea**

### Technical Session III – Vegetation and landscape of Western Ghats

Chairman :Dr. K. Shivashankar , Co- Chairman : Dr. A. Rajanna

3.50 PM – 5.45 PM

#### Invited Speakers

- 3.50 PM – 4.15 PM      **Landscape level Characterization of Phytoresources of Western ghats:**  
Dr. P. S. Roy, NSRA, Hyderabad.
- 4.15 PM – 4.40 PM      A talk by Dr. Irfan, ATREE, Bangalore.

#### Contributed Presentations

- 4.40 PM – 4.50 PM      **Dry evergreen forests and its floristic significance in Agasthyar hills, southern Western Ghats:**  
Ganesan,R., V.Ganesan, R.Kottai Muthu and K.N.Ganeshaiah
- 4.50 PM – 5.00 PM      **On the patterns of woody plant diversity : A case study from Northern Western Ghats of India**  
Radhika Kanade, Medhavi Tadwalkar, Neelesh Dahanukar, Sujoy Chaudhuri and Ankur Patwardhan
- 5.00 PM – 5.10 PM      **Cultural perspectives and biodiversity conservation in a sacred grove at alagarkoil hills of madurai district, Tamilnadu**  
RM. Ganesan, G. Ramesh, M. Prabhu Inbaraj, G. Jegan, P. Ravi Kumar and K. Muthuchelian
- 5.10 PM – 5.20 PM      **Edge effect on plant biodiversity in the tropical forest ecosystems at Periyar Wildlife Sanctuary in the Western Ghats**  
SM. Sundarapandian, Pascal J. Karoor, Jomy Augustine and P.S. Swamy
- 5.20 PM – 5.45 PM      **Discussion**

### Technical Session IV – Plant in ecosystem stability of western Ghats

Chairman : Dr. G. Raghunath, Co- Chairman : Dr. T.C. Taranath

9.30 AM – 11.45 PM

#### Invited Speakers

9.30 AM - 10.00 AM

✓ Plant Pollinator Interactions in Western Ghats  
Dr. Soubadra Devi, ATREE, Bangalore

10.00 AM - 10.30 AM

✓ Plants in Ecosystem Stability of Western Ghats  
Dr. N. Parthasarthy, Pondicherry University, Pondicherry.

#### Contributed Presentations

10.30 AM - 10.40 AM

Malabar gray hornbills aid in the dispersal and establishment of White cedar (*Dysoxylum malabaricum* Bedd.):

Hareesh T.S., R. Vasudeva, K.R. Shivanna, R. Uma Shaanker and Gladwin Joseph

10.40 AM - 10.50 AM

Reclamation of Iron-ore mine rejects using seaweed- A case study:  
Veeresh, A.V.

10.50 AM - 11.00 AM

Ecological Effects of Forest Fires: Implications on species diversity and invasion.

Devagiri, G.M., Devakumar, A.S., Deepak, M.S. and Ullasa, K.

11.00 AM - 11.10 AM

Wild Cucurbits of Western Ghats  
Chavan, N. S.

11.10 AM - 11.35 AM

Discussion on above papers

11.35 AM – 11.50 AM

Tea

### Technical Session V – Threats to, Conservation of Plant Resources of Western Ghats

Chairman : Dr. N. Nandini, Co- Chairman : Sh. Kumaraswamy Udupa

11.50 PM- 1.30 PM

#### Invited Speakers

11.50 AM – 12.00 PM

✓ Conservation of endangered species in Western Ghats: A case study of Conservation action

Dr. R. Vasudeva, Department of Forest Biology, College of Forestry, Sirsi

12.00 PM – 12.30 PM

Effectiveness of Protected Areas in conserving plant resources along Western Ghats

✓ Dr. Narayani Barve, ATREE, Bangalore.

#### Contributed Presentations

12.30 PM – 12.40 PM

Medicinal and Economically important plants of Western Ghats and their status

Balakrishna Gowda, C. Haleshi, M.D.Rajanna and K.T.Prasanna

12.40 PM – 12.50 PM

Notes on rare, endemic and endangered and threatened plants of western Ghats

Udayan P.P., K.V.Tushar, Satheesh George & Indira Balachandran  
Conservation Strategy for *Mammea suriga*: a commercially important

12.50 PM – 1.00 PM

Aromatic NTFP Forest Resource of the Western Ghats

Rajesh P Gunaga and R. Vasudeva

1.00 PM – 1.10 PM

Biodiversity of coastal Sand Dune Vegetation

Kasturi Desai

1.10 PM – 1.30 PM

Discussion

1.30 PM – 2. 30 PM

Lunch

## Technical Session VI – Human Societies and Plant resources of Western Ghats

Chairman : Dr. M.A. Singalchar, Co- Chairman : Dr. Balakrishna Gowda

2.30 PM – 4.30 PM

### Invited Speakers

2.30 PM – 3.00 PM

Kodagu model forest programme – the first model forest programme for India.

Dr. G.G. Kushalappa, Forestry College, Ponnampet

3.00 PM – 3.30 PM

Human Societies and Plant Resources of Western Ghats

Dr. K Muthuchelian Centre for Biodiversity and Forest Studies, Madurai Kamaraj University, Madurai

### Contributed Presentations

3.30 PM – 3.40 PM

Dry evergreen forests and its floristic significance in Agasthyar hills, southern Western Ghats

Ganesan, R., V. Ganesan, R. Kotai Muthu and K.N. Ganeshalah

3.40 PM – 3.50 PM

The relevance of Institutional Initiatives in Research, Education and Extension Programmes for conservation of Floristic Biodiversity of Western Ghats: The Challenges and Opportunities

Keshava H. Korse and B. Yashovarma

3.50 PM – 4.00 PM

Tea

4.00 PM – 4.10 PM

Conservation of NWFPs through Rational harvesting and cultivation in Farm and Betta lands in Uttara Kannada dist

V. M. Dabgar, H. Pradeep Kumar, G. O. Manjunatha and S. K. Patil

4.10 PM – 4.20 PM

Conservation significance of Coffee forests: a case study from Kodagu, Central Western Ghats

B.N. Sathish, C.G. Kushalappa and M. Chandrashekar

4.20 PM – 4.30 PM

Documentation Of Ethno-Medico-Botanical Knowledge In Shimoga Taluk, Karnataka, India

Rajakumar, N., T. R. Parashurama and M. B. Shivanna

4.30 PM – 4.45 PM

Discussion

4.45 PM- 6.00 PM

Panel Discussion & Valedictory Function

Plenary talk by Prof. Madhav Gadgil

### Panelists

Prof. S. Kannaiyan

Dr. Ravi Ralph

Mr. R.M. Roy

Mr. MuniReddy

Dr. N.D. Tiwari

Prof. K. Shivashankar

Dr. M.A. Singalchar

**Session I - Diversity, Distribution of Plant Resources of Western Ghats**

**Assessment of Species Diversity under different Plantations in Sirsi Division of Karnataka**

Ganesh H Hosmane, Ramesh Rathod and K. V. Devar

**Assessment of plant resources of Western Ghats from Dhule and Nandurbar Districts.**

N. V. Pawar, N. V. Malpure, S. M. Shendage, D. S. Bhise and S. R. Yadav

**Ethno-Botanical uses of Plant Species in the Tribal Areas of Uttara Kannada District, Karnataka**

Prashant Rondli, Ramesh Rathod, Devar K. V. and Ganesh Hosmane

**Conservation strategies for mulberry genetic resources in India**

R. P. Saraswat, M. Chandrashekhar and S. Raje Urs

**Diversity of Liverworts in Bhadra Wildlife Sanctuary - Karnataka**

Sathisha, A.M. and Krishnappa, M.

**Biodiversity With Special Reference To The Flora Of Tulsii And Vihar Lake Of Mumbai City, Maharashtra**

A.K. Rangari, Aftab Ahmed and S. N. Pardeshi

**Biodiversity of fungi in soils of Dharwad:** Ch.Ramesh, K.M.Raju and Asha B.D.

**Diversity of Basidiomycetous fungi from Western Ghats of Karnataka** Ch.Ramesh and Manohar.G.Pattar

**Diversity of water borne fungi from foam of Uttara Kannada region, Karnataka.** Ch.Ramesh and S.Vijayakumar\*

**Database of Medicinal Plants of Mumbai**

Satish Pardeshi, Aftab Ahmed, Archana Rangari and T. Srinivasu

**Quantitative assessment of plant resources from Parner and Sangamner Tahsils of Ahmednagar district (Maharashtra)**

S. M. Shendage, N. V. Malpure, N. V. Pawar, D. S. Bhise and S. R. Yadav

**Study on Diversity of Macrofungi in Western Ghat Regions of Shimoga District-Karnataka**

Swapna S., Syed Abrar and Krishnappa, M

**Plant diversity of medicinal plants conservation areas located in Karnataka** Udsyan P.S.

**Biochemical composition of *Iphigenia* species from Western Ghats of Maharashtra**

Anjali Sabale and Sujata Kalebere

**Comparison of tree diversity in high and mid elevation evergreen forests of Talakaveri Wildlife Sanctuary, Kodagu, Central Western Ghats**

Santhosha, G.R., Prakash, N.A., Kushalappa, C.G. and Vasudeva,R.

**Diversity of Liverworts in Bhadra Wildlife Sanctuary – Karnataka** Sathisha, A.M. and Krishnappa, M

**Assessment of Species Diversity under different Plantations in Sirsi Division of Karnataka**

Ganesh H. Hosmane, Ramesh Rathod and K. V. Devar

**Ethno-Botanical Uses of Plant Species in the Tribal Areas of Uttara Kannada District, Karnataka**

Prashant Kondli, Ramesh Rathod, Devar K.V. and Ganesh Hosmane

**Biodiversity of Orchids in The Western Ghats: their in Situ and Ex Situ Conservation for Sustainable Development**

T. Ananda Rao and S. N. Hegde

**Diversity of Pteridophytes from the Western Ghats, India**

A.Benniamin & V.S. Manickam

## Session II – Livelihood and Bio-prospecting

**Wild Edible Plants: Documentation and Nutritional Analysis Theme: Plant resources of Western Ghats, Ethnobotany**

Medhavi Tadwalkar, Kedar Champhekar, Shamika More, Sarita Bhawalkar, and Ankur Patwardhan

**Economically important Ethnomedicinal plants in Tirunelveli hills, Southern Western Ghats**  
Ayyanar, M and Ignacimuthu, S

***Cinnamomum*'s of Central Western Ghats, Karnataka**

C.Haleshi, Balakrishna Gowda, K.T. Prasanna and M.D.Rajanna

***Garcinia* spp. - a source of livelihood and their diversity in the Western Ghat region of Karnataka.**  
Krishnakumar, G. and H.S. Shenoy

**Timber and Non timber tree species in coffee based Agroforestry systems of Kodagu, Central Western Ghats.**  
B.N. Sathish, C.G. Kushalappa and M. Chandrashekar

**Developing Quantitative Fruit and Seed Descriptors for *Garcinia gummi-gutta* (L) Robsn. Genetic Resources**  
Bhagyavanth N Masudi and R. Vasudeva

**Variation for fruit traits in *Garcinia indica* (Choisy.): an important NTFP tree of the Western Ghats**  
Hareesh T.S., R. Vasudeva, K.R. Shivanna, R. Uma Shaanker and Gladwin Joseph

**Wild Edible Fruit Resources of the Central Western Ghats: Distribution, Population and Regeneration Status**  
Shrikant V. Gunaga, Vigneshwar D. Hegde, R. Vasudeva and K.N. Ganeshiah

**Importance of Non-Timber Forest Products for Forest Based Rural Livelihoods: A Case Study in West Kameng District, Arunachal Pradesh, India**

Debabrata Saha, K. Ibotombi Sing, Shivaji Chaudhary, Mihir Dollo, A.K. Das, R.C. Sundriyal

***Lantana camara*: A realistic approach for alternative livelihoods**

Ramesh kannan, Gladwin Joseph and R.Uma Shaanker

**Impact of Habitat Fragmentation on Density, Richness and Regeneration of Medicinal Plants in Sacred Groves of Shimoga District, Karnataka**

Praveena Kumar, Channabasappa, K. S., Umar Badshah, N. K. and Pradeep Kumar

## Session III – Vegetation and landscape of Western Ghats

**Land Use in the Western Ghats**

N.S.Adkoli.

**Assessment of three land use systems in Kodagu for diversity, productivity and possible role in carbon sequestration**

Devakumar, A.S., Amith kumar, Balaji.V, Bhagya Lakshmi. M.C., Divya, P.K, and S. Hanumantharaju.

**Positive Response of *Erythrina indica* lam. to van, rhizobium and Molybdenum sources**  
H. C. Lakshman

**Detection of genetic diversity in *Piper* species using RAPD markers**

Varadaraj N., Sunil Kumar, N. Raghu, H. B. Marjunath, H. Vishwanath, M and Ramakrishnappa, K.

**Genus *Chlorophytum* Ker-Gawl. (Anthericaceae) in Karnataka**

N. V. Malpure and S. R. Yadav

**Plant Endemism and their habitat diversity on the Eastern slopes of Agasthyar hills, Western Ghats.**

Ganesan,V., R.Kottai Muthu, R.Ganesan and K.N.Ganeshiah

**Impact of Habitat Fragmentation on Density, Richness and Regeneration of Medicinal Plants in Sacred Groves of Shimoga District, Karnataka**

Praveena Kumar, Channabasappa, K. S., Umar Badshah, N. K. and Pradeep Kumar

**Edge effect on plant biodiversity in the tropical forest ecosystems at Periyar Wildlife Sanctuary in the Western Ghats**

SM. Sundarapandian, Pascal J. Karoor, Jomy Augustine and P.S. Swamy

**Major Soils of Forest Ecosystems in the Western Ghats of Karnataka**

Vadivelu, S., Shivaprasad, C.R., Ramesh Kumar, S.C., and Srinivas, S.

**Evaluation of Genetic Variability in *Alpinia Calcarata***

A. John De Britto, G.S. Rekha, N. Nirmal Kumar and K. Patchimuthu

**Floristic Studies on Protected Area of Kappathgudda, Gadag District, Karnataka**

K. Kotresha

### Poster Session II : 8<sup>th</sup> December, 2006

#### **Session IV – Plant in Ecosystem Stability of Western Ghats**

**Reclamation of Iron-ore mine rejects using seaweed – A case study**

A.V.Veeresh

**Diversity in vegetative Phenology of Tropical Dry Deciduous Forest of Bhadra Wild life Sanctuary, Karnataka, India.**

Nanda.A., Prakasha.H.M and Y.L. Krishnamurthy

**Kodagu Model Forest Programme – The First Model Forest Programme for India.**

C.G.Kushalapa and K.A.Kushalappa

**Understanding autoecology is the key for the active conservation of critically endangered plant species of the Western Ghats**

Raghu H.B., R. Vasudeva and Sunil Kumar, N

**Distribution, Population structure and Regeneration of *Dipterocarpus indicus*, Bedd: An endangered and economically important tree species of the Central Western Ghats**

Vigneshwar D. Hegde, Shrikant V. Gunaga, R. Vasudeva and K.N. Ganeshalaiah

**Population structure of Ashoka (*Saraca asoca* (Roxb.) De Wilde) in relation to disturbance**

Basavaraj Walad and R. Vasudeva

#### **Session V – Threats to, Conservation of Plant Resources of Western Ghats**

***Ex situ* Conservation of Ksheeravidari (*Ipomoea mauritiana* Jacq.) in geoclimatic conditions of Bangalore**

Gajendra Rao & Gopakumar

**Cryopreservation of embryonic axes of recalcitrant seed species *Myristica malabarica* Lam., a rare medicinal plant of the Southern Western Ghats.**

Radha RK, William Decruse S, Krishnan PN, Seeni S and Ganeshan S

**Conservation of Medicinal and Endangered plants of Western Ghats at Botanical garden, GKVK, Bangalore**

Haleshi, C., K.T.Prasanna, M.D.Rajanna, K.R.Geetha and Balakrishna Gowda

**Environmental Conservation of Sacred Trees**

N.Rajalakshmi

***Ex situ* conservation Strategies for Plant Resources of Western Ghats : Challenges and Prospects**

P.E.Rajasekharan

**Some Endemic Angiosperms of Western Ghats: Their Survey, Ornamental Potential and *Ex-Situ* Conservation**

Mayur Y. Kamble, Sandeep R. Pai and S. M. Shendage



**Genetic variation in the fragmented populations of *Saraca asoca* (Roxb.) De Wilde in central Western Ghats, using RAPD markers**

Basavaraj Walad, R.L. Ravikumar and R. Vasudeva

***Ex situ* conservation of *Mitragardnia populifolia* (Roxb.) Schott & Engl., an endangered tree species**

A.R. Levariya, V. Kumaresan, T. Senthil kumar and M.V. Rao

**Constraints and problems of Plant Diversity Conservation at Nagarahole - Jajjigandhi National Park**

A.G. Devi Prasad

### **Session VI - Human Societies and Plant resources of Western Ghats**

**Conservation of NWFPs Through Ration Harvesting and Cultivation in Farm and Betta Lands in Uttara Kannada District (Karnataka)**

V. M. Debgar, H. Pradeep Kumar, G. C. Manjunatha and S. K. Patil

**Long Term Monitoring of Bioresources in Belligiri Rangaswamy Temple Wildlife Sanctuary, Karnataka.**

Paramesha, M. and R.Ganesan

**Potential Wild edible fruits for domestication from Western Ghats**

Kottai Muthu,R., V.Ganesan, R.Ganesan and K.N.Ganeshalah

**Biochemical composition of *Ipthigenia* species from Western Ghats of Maharashtra**

Anjali Sabale and Sujata Kalebore