

## Assistant Professor



**Dr. Venkat Ramanan**

### Qualifications:

B. Sc. (Agriculture) in Tamilnadu Agricultural University, Coimbatore  
M. Sc. (Environmental Sciences) in G.B. Pant Univ. of Agri. and Technology  
Ph. D. (Environmental Sciences Minor: Agronomy, Horticulture) in Indian  
Agricultural Research Institute, New Delhi

### Experiences:

1. Junior Research Fellow in the research project on “Application of microbial consortium for the treatment of paper and pulp mill effluent” from September 1996 to August 1998.
2. Senior Research Fellow in the research project on “Differential effect of increases in night versus day temperature on growth, yield and quality of rice and wheat” from August 2003 to August 2008.
3. Assistant Professor in Environmental Sciences in Vanavarayar Institute of Agriculture, (TNAU) Coimbatore. I was the course teacher for the following courses.
  - a. Principles of Analytical Chemistry
  - b. Soils and Fertility Management
  - c. English for Effective Communication

### Programmes on offer

Appreciation Programme on Sustainable Management of Ganga – A Scientific Approach

### Programmes under development

Post Graduate Certificate in Climate Change and Sustainable Development

### PhD Research:

**Title: “Differential effect of increases in night versus day temperature on growth, yield and quality of rice and wheat”.**

### M.Sc. Research:

**Title: “Application of microbial consortium for the treatment of paper and pulp mill effluent”.**

### Publications

Research Paper : 4  
Review Articles : 3

Book Chapters: : 3  
Abstracts : 3

#### **Awards/ Recognitions:**

1. Awarded **ICAR Junior Research Fellowship** during 1996 to 1998.
2. Awarded **IARI Senior Research Fellowship** during 2003 to 2008.
3. Qualified **UGC Junior Research Fellowship in Environmental Sciences (2006)**
4. Qualified **National Eligibility Test for Lectureship in Environmental Sciences** conducted by Indian Council of Agricultural Research in the year **2001** and **2006** and also **University Grants Commission's Junior Research Fellowship - National Eligibility Test (2006)**.
5. Qualified **National Eligibility Test for Lectureship in Forestry and Environmental Sciences** conducted by Indian Council of Agricultural Research in the year **2010**.

#### **Membership of Professional Societies:**

1. Life Member of Indian Society of Environmental Scientists
2. Indian Society of Agronomy
3. Indian Society for Nuclear Techniques in Agriculture & Biology

#### **Publications**

##### **Research Papers**

**Venkatramanan, V. and Singh, S.D. (2009).** Differential effects of day and night temperature on the growth of wheat crop. *Annals of Agricultural Research*, Vol.30, pp 49-52.

**Venkatramanan, V. and Singh, S.D. (2009).** Differential effects of day and night temperature on the growth of rice crop. *Pusa AgriScience*, Vol.32, pp 57-62.

**Venkatramanan, V. and Thakur, S. (2002).** Treatment of pulp mill effluent by 4-chlorosalicylic acid degrading microbial community for analysis of toxicity of toxicity of seedlings. *Journal of Science & Industrial Research*, Vol.61, pp 302-308.

**Shachishah, Venkatramanan, V. and Rathore, V.S. (2008).** Characterization of <sup>14</sup>C-(Lignin) – lignocellulose from rice (*oryza sativa* L. Var. Ratna) for Lignolytic Studies. *Journal of Nuclear Agriculture and Biology*, Vol. 37(3&4), pp 81-95.

##### **Review Articles**

**Venkatramanan, V. and Shah, S. (2009).** Agricultural management practices in relation to carbon sequestration. *Agricultural Review*, Vol.30 (4), pp 301-306.

**Shah, S., Venkatramanan, V. and Ajay Veer Singh (2009).** Utilization of Microbial Inoculants for Sustainable Agriculture in India. *Indian Farmers Digest*, pp 21-24.

**Shah, S., Venkatramanan, V. and Shah, V.K. (2009).** Role of forestry in carbon sequestration. *Indian Journal of forestry*.

##### **Book Chapters**

**Venkatramanan, V., Shachishah and Thakur, I.S. (2008).** Structural and functional characterization of 4-chlorosalicylic acid degrading microbial community in the chemostat for the treatment of pulp and paper mill effluent. In: Biodiversity, Environment and Sustainability (ed. Jagbir Singh). M.D. Publications Private Ltd., New Delhi. Pp: 217-221

**Shah, S., Venkatramanan, V. and Sharma, S.K. (2011).** Impact of food industrial waste on environment. In: **Food processing waste management technology** (ed. **Joshi, V.K.** and **Sharma, S.K.**). New India Publishing Agency, New Delhi, pp:31-53.

**Shah, S., Venkatramanan, V. and Sharma, S.K. (2010).** Emerging Nanotechnologies for Waste Treatment. In: **Food processing waste management technology**. (ed. **Joshi, V.K.** and **Sharma, S.K.**). New India Publishing Agency, New Delhi, pp:427-428

### **Oral Presentation**

**Venkatramanan, V., Shachishah and Thakur, I.S. (2008).** Structural and functional characterization of 4-chlorosalicylic acid degrading microbial community in the chemostat for the treatment of pulp and paper mill effluent. International Conference on Biodiversity, Environment and Sustainability: Challenges for Future, New Delhi.

**Venkatramanan, V., Singh, S.D. and Shachishah. (2010).** Effect of High Diurnal Temperature on Pollen And Spikelet Sterility of Basmati And Non-Basmati Rice Varieties. International Conference on cooling the earth- Tactics for restoring climate order and saving the living planet. G. B. Pant University of Agriculture and Technology, Pantnagar, Uttarakhand, 15-17 Nov, 2010. (Accepted)

### **Abstracts**

**Venkatramanan, V. and Singh, S.D. (2008).** Decline in rice grain yields with higher day and night temperature. Golden Jubilee Conference, Indian Society for Plant Physiology, Division of Plant Physiology, New Delhi.

**Shachishah and Venkatramanan, V. (2008).** Isolation and characterization of cellulose producing micro-organisms for forest litter degradation. National Symposium on Contemporary Environmental Problems and Biotechnological Application in their management, School of Environmental Sciences, JNU, New Delhi.

**Shachishah, Venkatramanan, V., and Ajayveersingh. (2007).** Screening of cold tolerant high yielding cellulose producing microbes from Indian Central Himalaya. 48<sup>th</sup> Annual Conference of Association of Microbiologists of India, Department of Biotechnology, IIT, Chennai.

### **Trainings / Workshops/Conferences Attended:**

1. National workshop on “Climate change and extreme weather events” conducted by Indian Meteorological Society (April 2007).
2. International Conference on Biodiversity, Environment and Sustainability: Challenges for Future, (4<sup>th</sup> – 6<sup>th</sup> Sept, 2008), New Delhi, organized by Swami Shraddhanand College, University of Delhi in association with All India Foundation for Peace and Disaster Management.
3. Training programme on “Computer basics with application in office automation”, held at Unit of Simulation and Informatics, Indian Agricultural Research Institute, New Delhi from 6-10<sup>th</sup> June, 2005.

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