Sustainable Environmental Management
(Dr. Jayashree Deshpande Festschrift Volume)

— Editors —
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Foreword

It has been my good luck to know Dr. Jayashree Deshpande for the past 25 years. When I say luck, I mean it truly because being an ardent teacher in a traditional science college of a small place like Aurangabad. Dr. Jayashree not only inspired colleagues but a large number of students to love science and art of Mycology, Plant Pathology: and Environment by remaining a core Botanist at heart. Who has time in the current fast life to go beyond the four walls of class room; dedicate oneself fully to the cause and take along a big bunch of students on a right path. Dr. Jayashree did exactly that and hence she deserve all the special applause on the occasion of her superannuation. I consider it to be fortune to know her. If Dr. Brahmhanand, her husband found music in the art of paintings and carvings of the famous Ajanta and Ellora Caves, Dr. Jayashree found the rhythm in the science of these paintings for making them an everlasting attractions for mankind. Dr. Jayashree contributed substantially to the emerging science of environment by practicing the methods of prevention of environmental pollutions. So diversified her interests have been that you found her active in scientific seminars on draught management, desertification, tree planting, nature lover group, bird watching, antipollution, plant pathology, microbiology, pesticides, forest management and what not, all directly related to environment.

It is, therefore, most befitting of friends and students to bring out a festschrift volume “Sustainable Environmental Management” on the occasion of her formal retirement. I say formal only because informally she cannot be detached from the science. She is bound to inspire youngsters in years to come. The volume is going to be very useful to researchers in the field and I am sure that it is the best tribute to a teacher researcher and an environmentalist.

(C.D. Mayee)
Chairman,
Agricultural Scientist Recruitment Board
I am happy to note that a festschrift volume will be brought out in honour of Dr. Jayashree Deshpande who is superannuating in January 2007. This volume consists of 31 scientific articles contributed by learned scholars from different parts of the country. This volume deals with diversified aspects of plant sciences such as pesticide usage, ethanol production, environmental sciences, aspects dealing with Mycology and Plant Pathology, Microbiology, Biotechnology, Oceanography and other related aspects. I am sure that readers will find it quite interesting and subject oriented.

I am happy to note a very good response for this academic venture and a speaks lot about her academic stature, concern for teaching, co-cooperativeness and popularity among academicians. I know Dr. Jayashree Deshpande for the last 20–25 years and I found her hardworking, innovative and knowledgeable. At first instance she has started as plant-pathologist and later the developments around the Globe made her to shift to Environmental Sciences. She has established the Department of Environmental Science and served as Chairman for the last 20 years at SBES college of Science, Aurangabad. As a teacher and researcher she has served the needs of students and scholars through her dedicated and committed teaching. She believed that a teacher is a learner, hence participated in many training courses, refresher courses and national seminars, conferences/symposia documenting her strong aptitude and attitude, towards teaching and research besides keeping her self abreast with advancement of the subject.

She is also the life member and member of different scientific societies. Her rich experience in academics and administration has made the Environmental Science a focussed subject as she has served on different bodies like Board of studies, Editorial boards, COSIP programme, Affiliation committees etc. She has to her credit 30 research papers, five books published and guided 3 students for Ph.D. She has served as president of Maharashtra Environment Society, Councillor-IPS, President-Maharashtra Botanical Society, President-West zone IPS and also received Best Teacher award, Gold
medal from NESA, Savitribai Joshi puraskar and many others. Her best part of life being serving society and needy people through extension and co-curricular activities and in particular in bringing awareness about environmental degradation and environmental protection. Her contributions are enormous and her approach is very much humane. Her efforts in making teaching and research, a noble profession are laudable. On the occasion of her superannuation I convey my hearty greetings, congratulations and felicitations. I wish her healthy, prosperous and progressive life in future.

Prof. C. MANOHARACHARY
Emeritus Scientist (CSIR)
Project on “Biodiversity, Conservation
... ... ... ... ... Important Plants”
Department Of Botany
Osmania University Hyderabad-7.
Prof. C. Manoharachary
Preface

This Festschrift volume ‘Sustainable Environmental Management’ is a humble tribute for Dr. Jayashree Deshpande for her outstanding contributions in the field of Plant Pathology, Microbiology and Environmental Science.

The articles in the volume cover a wide array of current research topics dealing with both fundamental and applied researches in the field of Environmental Science. The articles are highly authoritative and thought provoking by the scientist in their respective field. The articles on biodiversity, ecolabelling of organic farming, management of Ajanta cave paintings, use of biocontrol agents for management of diseases, transgenic development of rhizobacteria, techniques in the purification of industrial effluents, bioenergy production etc. are important contributions. We hope that this volume will be highly useful to scientist, students, research workers and policy makers in the Environmental Science and Plant Pathological aspects.

We are highly grateful to all the eminent scientists for taking troubles in writing the articles and Prof. Bramhanand Deshpande for constant encouragement to bring out this volume. We are especially grateful to Daya Publishing House, New Delhi for printing volume in stipulated time. We feel happy and honour in presenting this Festschrift Volume to Dr. Jayashree Deshpande as a token of love and affection at this juncture of her supperannuation. We also pray the Lord for her comfortable life.

Dr. L.V. Gangawane
Dr. V.C. Khilare
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Dr. Jayashree Deshpande
A Biographical Sketch of Dr. Jayashree Deshpande

Dr. Jayashree Deshpande was born on 24th January 1947 in Gulbarga, Karnataka State. After completion of her graduation in 1965 from Marathwada University, she obtained her M.Sc. in 1967 and Ph.D. in 1974 from Marathwada University in the subject of Botany and also in 2004 in Environment Science.

In July 1967 Dr. Deshpande joined the S.B.E.S. Science College, Aurangabad. In 1987 she was elevated to the position of Vice-Principal. Thereafter in 1990 she became as a Director of P.G. Department in Environment Science and in 1992 as a Reader. She has 39 years teaching and research experience in plant pathology, air and water pollution, ecology, soil microbiology, and sewage technology and distillery effluents. During her long research career spanning she guided many M.Sc. and Ph.D. students on very important aspects of plant pathology and environment science. She has successfully completed the Research Projects of Maharashtra Pollution Control Board and UGC on environmental pollution and allied aspects. In addition Dr. Deshpande has published nearly 30 research papers in various scientific journals of national and international repute. Dr. Deshpande delivered several lectures on different aspects of environment science for public awareness also a regular writer of newspapers showing her kindness towards environment. She attended several national and international seminars and conferences. In pursuit of her research interest, she traveled and visited to Philadelphia in USA. She has completed six training courses of NEERI, Nagpur. Dr. Deshpande has distinction of being a member of a number of learned societies such as Indian Phytopathological Society, Indian Association of Environmental Management, Society of Mycology and Plant Pathology, she was a Member of International Master Trainer (US based) for ‘Globe’ and Indian Environmental Society. She was also member of Adhoc BOS in Environment Science, Dr. Babasaheb Ambedkar Marathwada University, Aurangabad. She has organized nine national seminars and conferences. During her work she was President of Maharashtra Environment Society, Councillor and then President of Indian Phytopathological Society (WZ), New Delhi and President of Marathwada Botanical Society.
During her research career, Dr. Deshpande has inspired a number of students. All the students have attained high positions in the colleges, State Pollution Control Board, Institutes and even in Private Sector. Dr. Deshpande is a very unassuming, cheerful, ever-courteous and generous person. The students hold her in respectful reverence and we take opportunity to express our respectful regards to the multifaceted colourful personality. We hope she would continue to work and inspire students, teachers and scientists for the upliftment of the subject of Botany and Environment Science.

Some Important Research Publications


Books Published