



**ISMPP- South Zone Conference**  
**on**  
**Fungal Diversity and Emerging Crop Diseases**

**12<sup>th</sup> & 13<sup>th</sup> May 2011**

**Chief Patron**

**PROF. V.G. TALAWAR**

Hon'ble Vice-Chancellor  
University of Mysore, Mysore

**President**

**PROF. S.R. NIRANJANA**

Indian Society of Mycology and Plant Pathology

**Organizing Chairman**

**PROF. K.A. RAVEESHA**

Chairman, Department of Studies in Botany

**Organizing Conveners**

**PROF. H.S. PRAKASH**

**PROF. G.R. JANARDHANA**

**Organizing Secretary**

**DR. K.N. AMRUTHESH**

ISMPP South Zone- Councillor

**Organized By**

**Indian Society of Mycology and Plant Pathology**

**&**

**Department of Studies in Botany**

**University of Mysore**



**Venue**

**Department of Studies in Botany, University of Mysore,  
Manasagangotri, Mysore- 570 006, Karnataka**

## **Aim and Scope of the Conference**

Research progress in the field of Mycology and Plant Pathology and a glimpse into its potential applications has spurred observers to predict that this discipline will be the foremost science of the 21<sup>st</sup> Century. Technology and resources generated by this discipline is already having a major impact especially on disease diagnosis and crop protection research across the life sciences. The potential for commercial development of this important discipline - Mycology and Plant Pathology research is expected to have the industry with a wealth of opportunities, and sales of plant and microbial products and technologies to the benefit of human welfare.

Fungi are unique and large group of organisms found virtually in every ecological niche. The beauty and endless variety of fungi enchant biologists all over the world. According to Professor Hawksworth, about 1.5-2.7 million species of fungi exists in the world, out of which only 1.2 million species (5%) have been described so far. Currently there is a tremendous interest in documentation of the diversity and distributed world's fungi. The world's undescribed fungi- can be viewed as a massive potential resource which awaits realization. Where are the missing fungi? Possible habitats include soil, air, water, new geographic areas, extreme environments, new vegetation types, forest canopies, marine environments, atmospheric layers, plant and insects. They are the sources of newer antibiotics, enzymes, hormones, plant growth hormones, immuno-suppressants, food colorants, bio-insecticides and many. The economic value of the man's exploitation of fungi from nature is measured in tens of billions of US dollars. The emergence of new Biotechnology revolution in 1970's and genetic engineering in 1980's has opened up new horizons to exploit fungi for human benefit. There is an urgent need to document and characterize fungi for human welfare.

There have been several emerging crop diseases reported on various agricultural, commercial and horticultural crops worldwide. The emerging crop diseases caused by plant pathogens and pests can develop into unexpected and very serious epidemics. The devastating consequences of these crop diseases in developing countries and their economic and social impacts are often underestimated. It is the right time for Scientists/ Policy makers/ Local Governments and International Communities to establish better mechanisms for monitoring and managing newer diseases. In addition, changing climate conditions are also contributing for the emergence of newer pathogen races/ pathotypes, which are much more virulent, and establishing and causing new crop diseases in areas that were previously unknown. Though, today the ability to diagnose and manage crop diseases is far greater

than in the past, they still cause a significant crop losses leading to major economic and social consequences, particularly in developing countries like India. In order to draw the attention to the scale of the threat posed by these emerging crop diseases, the conference intends to take an in-depth look at the most important plant pathogens and pests causing severe loss to the crop plants. The intensification of agricultural production, introduction of contaminated propagating crop material, and subsequent disease outbreaks, and changing climate may all play a role in the establishment and distribution of new crop diseases. Disease outbreaks reinforce the notion that crop diseases respect no national boundaries. The ability to effectively deal with emerging crop diseases depends on expertise, capacity and to address those threats, locally and globally. Improving and coordinating crop disease surveillance systems, enhancing global response capacity, and educating and training a multidisciplinary workforce are needed to adequately address new/emerging crop diseases. Thus, the conference aims to address some of the new microbial and pest diseases affecting crops and already known pathogens/ pests on new hosts. Hence, after reviewing on the situation on fungal diversity and emerging crop diseases, the conference is focused on the following important themes and they are Climate change and emerging crop diseases; molecular basis of plant-microbe interaction; mycology, mycotoxins and post harvest diseases and novel approaches for crop disease management.

### **Society of Mycology and Plant Pathology**

Indian Society of Mycology and Plant Pathology is one of the largest plant protection scientific forums with more than 2500 members and large numbers of patrons and benefactors. The society annually organizes the conference and symposia with the objectives to know about advances in the field of Mycology and Plant Pathology and the newer approaches in the area of this important plant science and the future direction for the scientific pursuit of the members of the society. With this perspective, the society has proposed to take stock of the novelty of the knowledge in the area of plants and microbial world for the benefits of human beings. During the conference a total of **four sessions** have been planned with lead speakers and young scientists to present their research findings and views, which will benefit the members of the society in particular and Indian agriculture in general to increase much needed human health and wealth in forefront.

### **Department of Studies in Botany**

University of Mysore (Accredited by NAAC at the A<sup>+</sup> level) established in 1916 is an “Institute of Excellence”, and has been granted Rupees One hundred

crores in the Central Budget (2008-2009) for strengthening of the academic excellence on par with the International standard. The **Department of Studies in Botany, University of Mysore** is one of the leading Plant Science Departments in the country dedicated to teaching and research in plant and microbial sciences. The department has a well-established '**Botanic Garden**' with separate Glass House and a Fern House with its living collections of more than 400 species of plants. The department also has '**Museum**', which is named after N.I. Vavilov, with a collection of over 300 specimens representing all the major groups of Plant Kingdom. The '**Herbarium**' of the department is one of the assets and many researchers have contributed for enriching the collections. It has more than 3500 plant species collections with complete descriptions and is one of the main referral centers for plant identification.

The Department has strong research programs on different areas of basic and Applied Botany. The faculty members have successfully guided 150 Ph.D.'s so far, authored 16 text books and more than 1350 research papers in national and international journals, conference volumes etc. The Department has been offering specialized course in the areas like Taxonomy of Angiosperms, Medicinal Botany, Plant Biotechnology, Plant Molecular Biology, Applied Plant Pathology, Microbiology and Environmental Biology. The faculty members have rich experience in isolation and characterization of antimicrobials from plants, plant and microbial taxonomy, molecular characterization of plant and microbial diversity, molecular diagnostics of phytopathogens, and signal transduction in relation to host-pathogen interaction. Recently the department is offering one year M.Phil course in Botany for Post M.Sc., students.

The Department has been funded by the Department of Science and Technology (DST), Govt. of India under the 'FIST Program' and also by the University Grants Commission (UGC) under Non-SAP Program. The UGC has been supporting teaching and research under each plan period. In addition, the faculties have undertaken several individual and collaborative research projects from various agencies like, USDA, DST, UGC, ICAR, MOE & F, CSB, AICTE etc. The department has inter-disciplinary research network with international and national research institutes such as CFTRI, CSR&TI, DFRL and other sister Departments of the University.

### **Mysore - Heritage City**

Mysore, known as the city of Palaces, is a great tourist attraction, located 140 Km from Bangalore and is well connected by road and rail. The places of interest are the world famous Royal Mysore Palace, Brindavan Garden,

Chamundi Hill, Chamarajendra Zoological Garden, Sri Jayachamarajendra Art Gallery, St. Philomena's Cathedral, Karanji Lake, Ranganathittu Bird Sanctuary, etc. The weather in May will be pleasant with the day temperature ranging between 20-28°C and night temperatures between 20-22°C.

### **Areas of deliberations of the conference**

- Session-I : Climate change and Emerging Crop Diseases
- Session-II : Molecular basis of Plant- Microbe Interaction
- Session-III : Mycology, Mycotoxins and Post Harvest Diseases
- Session-IV : Novel approaches for Crop Disease Management

### **Call for Research Papers**

**Abstracts/** papers are invited for oral/ poster presentation on the above mentioned areas. The organizing committee of zonal conference **wishes to publish the accepted abstracts in the conference souvenir. Researchers who are interested in sending the Abstracts are requested to send a copy of the abstract not exceeding 500 words along with title, authors, affiliation, key words typed in double space on A4 size paper in MS Word 2003 format. Hard copy should be accompanied with soft copy in a CD. Only those abstracts selected by the screening committee will be invited for oral/ poster presentation and published in the souvenir.** Facilities such as desktop and LCD projection system will be provided for oral presentation. Oral presentation should be brought in CD only. Electronic version of the papers should be submitted through e-mail [ismppsconfmysore2011@gmail.com](mailto:ismppsconfmysore2011@gmail.com) mentioning the subject. The last date for submission of Abstracts is 18<sup>th</sup> April 2011 and with a late fee is 25<sup>th</sup> April 2011. The organizing and editorial committee will have all the rights to accept/ reject the Abstracts submitted by the Researchers.

### **Registration**

Please send the enclosed registration form along with the **Registration Fee\*** and abstracts **on or before 18<sup>th</sup> April 2011** and **with a late fee on or before 25<sup>th</sup> April 2011**. Payments may be made by sending crossed demand draft or bank MICR (INR) in favour of **“Organizing Secretary ISMPP- South Zone Conference - Mysore”** payable at State Bank of Mysore, Mysore and mailed to **Dr. K.N. Amruthesh, Organizing Secretary & ISMPP South Zone-Councillor**, Department of Studies in Botany, University of Mysore, Manasagangotri, Mysore-570 006, Karnataka.

## Registration Fee

Particulars	Receipt of Abstracts/ Full length Papers On or before 18-04-2011	Receipt of Abstracts/ Full length Papers On or before 25-04-2011
Scientists/ Faculty Members	Rs. 1000-00	Rs. 1200-00
Research Scholars/ RAs/ PDFs	Rs. 800-00	Rs. 1000-00
Student (PG & UG)**	Rs. 500-00	Rs. 700-00
Industrial Delegates	Rs. 2000-00	Rs. 2200-00

\*\*subjected to terms & conditions

## Accommodation

The Organizers will make all efforts to make the stay of delegates comfortable. May month being a busy tourist season, it is needed to book the accommodation in advance. Limited accommodation at the University Guest House/ Hostel is available at reasonable price (approximately Rs. 350/ day). The city has several comfortable hotels offering single/ double room accommodation. Accommodation can only be guaranteed if payment is made **on or before 18<sup>th</sup> April 2011**. The approximate tariff of some good hotels is as follows:

Hotels	Double Occupancy	Single Occupancy
Southern Star	Rs. 7000-00	Rs. 5000-00
Kings Court	Rs. 4500-00	Rs. 3500-00
The Roost	Rs. 3500-00	Rs. 2500-00
Metropole	Rs. 7000-00	Rs. 5000-00
Dewans	Rs. 1500-00	Rs. 750-00
Sangeetha	Rs. 1500-00	Rs. 750-00

For accommodation, payments should be made in a separate bank draft in favor of **Organizing Secretary- ISMPP- South Zone Conference- Mysore** and sent to **Dr. K.N. Amruthesh, Organizing Secretary & ISMPP South Zone Councillor, Department of Studies in Botany, University of Mysore, Manasagangotri, Mysore-570 006, Karnataka.**

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**Dr. S. Chandra Nayak**  
**Dr. J. Sudisha**

**Organizing Secretary**

**DR. K.N. AMRUTHESH**

**South Zone Councillor- ISMPP**  
**Applied Plant Pathology Laboratory**  
**Department of Studies in Botany**  
**University of Mysore, Manasagangotri**

**Mysore-570 006, Karnataka**

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**REGISTRATION FORM**  
**ISMPP- South Zone Conference**  
**On**

**“Fungal Diversity and Emerging Crop Diseases”**

**12<sup>th</sup> & 13<sup>th</sup> May, 2011**

I'm planning to attend

Session No.

I am submitting the abstract entitled .....  
.....” for Oral/ Poster presentation.

I am enclosing a bank draft No. .... Dated.....  
drawn on .....  
for Rs. .... towards the registration fee.

Name: Prof. /Dr. /Mr./Mrs. ....

Address: .....  
.....  
.....

Phone: ..... Fax: .....

E-mail: .....

Accompanying person (s): .....

Place : .....

Date : .....

**Signature**

**Accommodation required: University Guest House/ Hotel**

Single room/ double room for..... night (s). Rs. .... is  
enclosed through wide draft No. .... dated ..... drawn on  
.....

(A photocopy of this form is acceptable)

The Registration form may be sent on or before 18<sup>th</sup> April 2011 and with a late fee on or before 25<sup>th</sup> April 2011 to **Dr. K.N. Amruthesh, Organizing Secretary & ISMPP South Zone Councillor 'South Zone Conference'**, Department of Studies in Botany, University of Mysore, Manasagangotri, Mysore-570 006, Karnataka.



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Department of Studies in Botany  
University of Mysore  
(Golden Jubilee Year Celebrations of Manasagangotri)**

**CIRCULAR**

To,

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From

**Organizing Secretary  
DR. K.N. AMRUTHESH**

South Zone Councillor- ISMPP  
Applied Plant Pathology Laboratory  
Department of Studies in Botany  
University of Mysore, Manasagangotri  
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