

# Annual Report

# 2016-17



## **INDIAN PHYTOPATHOLOGICAL SOCIETY**

Division of Plant Pathology  
Indian Agricultural Research Institute  
New Delhi 110012, India  
[www.ipsdis.org](http://www.ipsdis.org)

# ANNUAL REPORT

2016-17



## INDIAN PHYTOPATHOLOGICAL SOCIETY

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Indian Agricultural Research Institute  
New Delhi 110012, India  
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**Correct citation**

IPS Annual Report 2016-17, Indian Phytopathological Society, New Delhi, India

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**Printed:** July 2017

**Published by**

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# PREFACE

Dear members of the Indian Phytopathological Society (IPS).

On behalf of the Society, I am privileged to present the annual report (2016-17) of the Indian Phytopathological Society (IPS). The humble beginning of IPS in 1947 has transformed into a journey of being a trend setter in areas of Plant Pathology.

I am privileged to represent the Society as the President and to follow and strengthen the philosophy and scientific contribution of the previous leading scientists, who have served as Presidents. This is a formidable task, yet I derive strength and inspiration from our executive committee.

The memorandum of understanding between the American Phytopathological Society (APS) and the Indian Phytopathological Society (IPS) was signed during 6<sup>th</sup> International Conference on “Plant, Pathogens and People” with the theme “Challenges in Plant Pathology to benefit Humankind”, February 23-27, 2016. As part of MOU, APS has extend the benefits to IPS by offering travel grant to IPS student members to attend annual APS meetings in USA every year and joint APS-IPS meeting at International Congress of Plant Pathology, Boston, USA. This year, out of 5 candidates, 2 names have been recommended for this travel grant sponsorship along with their abstract and biodata. An APS-IPS joint Session on “Indo-US collaborative research & training priorities and opportunities in Plant Pathology” has been finalized to be organized during APS Annual Meeting at San Antonio, Texas, U.S.A. in August 05-09, 2017 and proposal for joint APS-IPS session on “Invasive and Emerging Diseases” in ICPP208 has been sent. Total 74 IPS members became APS members, which was highly appreciated by APS. The APS is also committed to seek the membership of IPS.



The International workshop on *Trichoderma* and *Gliocladium* was jointly organized by “Dr. Panjabrao Deshmukh Krishi Vidyapeeth, Akola”, “Association of Plant Pathologist”, Central India and “Indian Phytopathological Society, New Delhi” on November 27-30, 2016 at College of Agriculture, Nagpur. 69<sup>th</sup> Annual meeting of the Society and National Symposium on “Diagnosis and management of plant diseases: Integrated approaches and recent trends” were jointly organized by ICAR Research Complex for NEH Region, Umiam, Meghalaya and Indian Phytopathological Society. Many delegates from all most all parts of the country participated in the symposium. In Nine technical sessions, several lead lectures on various aspects were presented followed by several Poster and oral presentations.

I am also delighted to inform you that the latest NAAS Rating for the journal Indian Phytopathology has been enhanced to 5.9 from 4.59. I would like to thank our Editorial Board, Reviewers, Executive Council and all other members for their invaluable contributions to journal's success.

Moreover, I would like to extend many thanks for the involvement and contribution of the executive committees at Zonal and national levels, who have been essential in keeping our society running actively and soundly. The society will continue to providing support and, in some cases, guidance, for the organization and development of courses, seminars, workshops and zonal meetings in different parts of the India for reducing crop losses caused by plant pathogens.

The financial support extended by the Indian Council of Agricultural Research, New Delhi, India and SERB, Department of Science & Technology, New Delhi towards publication of *Indian Phytopathology* is gratefully acknowledged.

I express my apperception to Secretary, IPS for compiling and bringing out this report in time.

(P. Chowdappa)  
President

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# About the Society

The Indian Phytopathological Society (IPS) is a professional society for promoting the cause of science of Phytopathology. The Society focuses in the field of Mycology, Plant Pathology, Bacteriology, Virology, Phytoplasmology and Nematology. It provides a unique platform to the scientists working in the field of plant pathological related research to share their views and research achievements. It also keeps members informed the various activities related to the development of Plant Pathology and about the members of the society. The society was basically formed with the following objectives:

- (i) To advance the cause of Mycology and Plant Pathology in India.
- (ii) To encourage and promote mycological and plant pathological studies and research in the country.
- (iii) To disseminate the knowledge of mycology and plant pathology.
- (iv) To facilitate closer association and relations among members and other scientific workers in India and abroad.

It was the afternoon of 28<sup>th</sup> February, 1947, when about 20 mycologists and plant pathologists from various parts of the country assembled at Indian Agricultural Research Institute, New Delhi. A meeting was conveyed by Dr. B.B. Mundkur under the chairmanship of Prof. S.R. Bose to discuss the possibilities of forming a society to bring together all persons interested in the study of fungi, in view of the fact that plant pathology had begun to assume increasingly greater importance in universities and colleges as well as in State Agriculture Departments. The same day unanimous decision was taken and the Indian Phytopathological Society (IPS) was established. A small sub-committee, consisting of Prof. J.F. Dastur (chairman), Dr. S.R. Bose, Dr. B.N. Uppal, Dr. A. Sattar and Dr. R.S. Vasudeva as members and Dr. B.B.

Mundkur as convener was formed to take steps for starting a journal, framing constitution and bylaws of society. Dr. Mundkur was requested to act as Secretary-Treasurer for 1947 or until new office-bearers were elected. With the zeal and enthusiasm, characteristic of Dr. Mundkur, he devoted his full energy for the given task and invited all persons interested in the study of plant pathology in India and abroad to become members of the society. He enrolled a large number of mycologists and plant pathologists working in India and abroad as members of the Society. He even enrolled persons who had some interest in Plant Pathology. It is said that once he was travelling in a train and while talking to fellow passengers impressed upon them and enrolled them as member of the society. In this way he increased the number of members and much needed finance. Later, industrial concerns interested in the subject, were also approached to become patrons of the Society to protect its financial status. Now, over 2,000 members of the society are spread in India and approximately 50 other countries. It is the third largest society of plant pathologists in the world. They comprise scientists, teachers, technicians, students, extension workers, company for the society and for the cause of plant pathology.

Subsequently, several other activities and awards were added time to time in the fold of Indian Phytopathological Society.

The Society was registered on 3-11-1949, under the Societies Registration Act XXI of 1860 with Registration No. S399 of 1949-50. A very significant step to make the Society stable was taken in the XI Annual General Meeting held in Delhi on 2nd January, 1959 when it was resolved that the Division of Mycology and Plant Pathology, Indian Agricultural Research Institute, New Delhi would be the permanent Headquarters of the Society.



## Zonal Chapters

The society was earlier having six zones which were later increased to eight zones. Each zone elect or nominate its Zonal President and Councillor every year. The details of zonal chapters are as follows:

Zone	States
Delhi Zone	Delhi
Northern Zone	Chandigarh, Haryana, Himachal Pradesh, Jammu and Kashmir and Punjab
Mid-Eastern Zone	Uttar Pradesh and Uttarakhand
Eastern Zone	Andaman and Nicobar Island, Bihar, Jharkhand, Odisha and West Bengal
Central Zone	Andhra Pradesh, Chhattisgarh, Madhya Pradesh, Rajasthan and Telangana
Western Zone	Gujarat and Maharashtra
Southern Zone	Goa, Karnataka, Kerala, Pondicherry and Tamil Nadu
North-Eastern Zone	Assam, Arunachal Pradesh, Manipur, Meghalaya, Mizoram, Nagaland, Sikkim and Tripura

## Executive Council

The society is having Executive Council, To run the society smoothly, which takes policy decisions. It consists of 25 members and meets at least twice a year. Following are the members of executive council.

President	President Elect will succeed
President-elect	Elected by General Body
Secretary	Elected by General Body
Joint Secretary	Elected by General Body
Treasurer	Elected by General Body
Chief Editor	Elected by Executive Council
Senior Editor	Elected by Executive Council
Zonal President & Councillor	Elected by General Body
Ex-officio	Head, Division of Plant Pathology, IARI, New Delhi



# Executive Council

## Executive Council 2017



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# Activities: Workshop/Brain Storming Session

## Proceedings of the Workshop on “Technological Advancements in Plant Pathology” organized by Northern Zone of the Society on May 4, 2016

Northern Zone chapter of the Indian Phytopathological Society organized a workshop on ‘**Technological Advancements in Plant Pathology**’ on May 4, 2016 in addition to National Symposium organized on September 28 and 29, 2015. The workshop was inaugurated by Dr Vijay Singh Thakur, Hon’ble Vice Chancellor, Dr Y.S. Parmar University of Horticulture and Forestry, Nauni, Solan. Dr I.M. Sharma, Professor and Head of the Department of Plant Pathology of the host university highlighted some of the salient achievements of this department with the history of more than 50 years. Successful management strategies for apple scab; collar and root rot, premature leaf fall and core rot of apple; buck-eye rot of tomato; Phytophthora blight of capsicum; soft rot of ginger; web blight of bean; black rot of cauliflower are some of the key examples which resulted in giving umbrella protection to the more than Rs. 5000 crore

strong annual economy of fruits and vegetables in the State of Himachal Pradesh. Dr H.R. Gautam, President of the Northern Zone chapter and Organizing Secretary of the workshop stressed the need for such workshops to have a focussed discussion on some important theme areas to give insight to the active researchers for future scientific pursuits. In this workshop four eminent plant pathologists were invited to dwell on the subject. First lecture was given by Dr Subhash C. Bhardwaj, Principal Scientist and In-charge, Regional Research Station, Indian Institute of Wheat & Barley Research on the topic ‘*Technology advancements in the management of wheat and barley rusts*’. The lecture gave an account of the preparedness and future strategies to manage to threat of different rusts to wheat and barley. Dr V.P. Sharma, Director, Directorate of Mushroom Research, Solan talked on ‘*Technology advancements*



Workshop on “Technological Advancements in Plant Pathology” organized by Northern Zone at YSPUHF, Nauni, Solan

*in mushroom production'* and gave a detailed account of technology infusion for enhancing the productivity of mushrooms. As biotechnology has immense potential in shaping the future plant management strategies, Dr R.S. Chauhan, Dean, Biotechnology, Jaypee University of Information Technology, Wanknaghat, Solan focussed on '*Mining Plant Genomes for Disease Resistance Genes For Utilizing in Combating Emerging Pathogens'* to abreast the participants about the advancements in this area of crucial importance. Potato is staple food of our diet and keeping in view the importance of the crop, Dr S.K. Chakrabarty, Director, Central Potato Research Institute, Shimla centred his talk on '*Pathogenomics for plant disease management with special reference*

*to late blight of potato'* to deal with the perennial problems of potato with modern biotechnological tools.

The workshop was attended by more than 130 scientists, M.Sc. and Ph.D students drawn from plant pathology and other allied disciplines of the host university. The workshop was well covered by the local and national media with particular mention in the Doordarshan and Kisan channel. In his concluding remarks, the Chief Guest- Dr Vijay Singh Thakur appreciated the efforts of the organizers particularly the Indian Phytopathological Society to provide a vibrant forum for discussion to sensitize the researchers to venture on a right technological path to save our crops from diseases.



Delegates during workshop



# Mid-term EC meeting

## Mid-term EC meeting of the Society was held on June 10, 2016 in the Committee Room, Division of Plant Pathology, IARI, New Delhi

Following members of the Executive Council attended the meeting: Dr. P. Chowdappa, President; Dr. B.N. Chakraborty, President-elect; Dr. Pratibha Sharma, Secretary; Dr. R.K. Sharma, Joint Secretary; Dr. Dinesh Singh, Treasurer; Dr. R.K. Khetarpal, Chief Editor; Dr. Rashmi Aggarwal, Senior Editor & Ex-officio; Dr. G.P. Rao, Zonal President (DZ); Dr. G. Prakash, Zonal Councillor (DZ); Dr. S.T. Naik, Zonal President (SZ); Dr. Shamarao Jahagirdar, Zonal Councillor (SZ); Dr. K.T. Apet, Zonal President (WZ); Dr. V. Prakasam, Zonal Councillor (CZ); Dr. B.N. Panja, Zonal Councillor (EZ); Dr. Krishna Kumar, Zonal President (MEZ)

## The discussion were made on the following agendas:

### Institution of New Award in the Name of “S. Sinha Memorial Award”

The EC agreed for biennial “S. Sinha Memorial Lecture Award” and the detailed guidelines will be sent to donors for mutual consent.

### Travel grant to student members for participation in APS Meeting

With reference the proposal given by the Dr. Krishna Subbarao, APS Representative, to provide financial assistance to the student members of the Society for participation in APS Meeting and the proposal was discussed thoroughly and it was suggested that name of best five M.J. Narasimhan Academic Award candidates will be sent along with their abstract and brief biodata to APS for scrutiny and finalization.

### National Conference (2016)

The Society received three proposals to hold the forthcoming 69<sup>th</sup> Annual Meeting and National Symposium

of the Society by the following members:

- i. Dr. S.V. Ngachan, Director, ICAR Research Complex for NEH Region, Umiam, Meghalaya: tentatively in 3<sup>rd</sup> week of January 2017 on the theme “**Diagnosis and Management of plant disease: Integrated approaches and recent trends**”.
- ii. Dr. K.C. Puzari, Zonal President (NEZ) and Ashok Bhattacharya, Zonal Councillor (NEZ) on the theme “**Plant health Management-SDG-Food Security**” in February 2017.
- iii. Dr. Krishna Kumar, Zonal President (MEZ), IIPR, Kanpur, Uttar Pradesh on the theme “**Management of plant diseases in the changing scenario of climate**” in February 2017.

EC unanimously agreed on the proposal sent by Dr. S.V. Ngachan, Director, ICAR Research Complex for NEH Region, Umiam, Meghalaya on the theme “**Diagnosis and Management of plant disease: Integrated approaches and recent trends**” tentatively in 3<sup>rd</sup> week of January 2017.

### IPS Award evaluation/marketing proforma

An award evaluation guidelines was developed for further evaluation of applications on marks basis and distributed to all EC members. The discussion was held on the proforma and it has been requested to all the EC members to send their comments on proforma positively by 17<sup>th</sup> June, 2016, IPS award evaluation proforma and guidelines were finalized and approved by EC.

### “Registration and Processing Fee” for IPS Awards

The EC agreed on the suggestion to withdraw the rule of “**Registration and Processing Fee**” for IPS Awards from this year. No “**Registration and Processing Fee**” will be charged from candidate for the award applicants.



### APS Membership for IPS members (mode of payment)

The APS membership routes through IPS, so that the Society can keep the record of the members, who opted to become the APS members. Total 73 IPS members have taken annual membership for APS for the year 2016-17.

### Declaration of awards of the previous year

Dr. R.K. Khetarpal, Chairman, award review committee informed the house that the final list of awardees will be available shortly online.

### Award Nomination (2016-17)

Proforma for award nomination for the following award has been given to all the EC members with request to kindly send their nomination within given date so that biodata can be called from the nominees:

- (i) A.P. Misra Lifetime Achievement Award
- (ii) Mundkur Memorial Lecture Award
- (iii) S.P. Raychaudhuri Memorial Lecture
- (iv) M.S. Pavgi Award Lecture
- (v) J.F. Dastur Memorial Lecture Award
- (vi) Prof. A.K. Sarbhoy Memorial Lecture Award
- (vii) Sharda Lele Memorial Award
- (viii) K.C. Mehta and Manoranjan Mitra Award
- (ix) M.K. Patel Memorial Young Scientist Award

### Nomination for member of Honorary Fellow and Advisory Board

Secretary informed the house about the nomination of Honorary Fellow and Advisory Board of the Society. The following names have been suggested:

- (i) Dr. Srikant Kulkarni, Bangalore
- (ii) Dr. S.S. Chahal, Chandigarh
- (iii) Dr. V.G. Malathi, Coimbatore
- (iv) Dr. R.P. Thakur, Hyderabad
- (v) Dr. S.J. Kolte, Pune
- (vi) Dr. U.P. Singh, Varanasi
- (vii) Dr. V. Muniyappa, Bangalore
- (viii) Dr. William Fry, Cornell University
- (ix) Dr. K.S. Subbarao, USA
- (x) Dr. Dilip Lakshman, USA

### Bidding for conference ICPP2023

Associated Societies of ISPP have been invited to present bids to host the 12<sup>th</sup> International Congress of Plant Pathology in 2023. Being the Associated Society of ISPP, the Indian Phytopathological Society has taken steps to bid for 12<sup>th</sup> International Congress of Plant Pathology 2023, in New Delhi, India. For the purpose, Dr. Pratibha Sharma, Secretary and Dr. R.K. Khetarpal, former President, IPS and Chief Editor and R.K. Sharma, Joint Secretary, IPS consulted three event management companies and after thorough discussion with them, **SUMMIT Alpcord Network**, New Delhi was opted as the Strategic Partner for the bidding of the above mentioned conference. Ms. Vibha Bhatia, Vice President - Business Development, SUMMIT Alpcord Network was invited for presentation about the detailed procedure of the bidding.

EC unanimously agreed to bid for ICPP2023 to organize by the Indian Phytopathological Society (IPS) in collaboration with Crop Protection Federation (CPF).

### Need for participation of Secretary, IPS to attend APS Meeting in August 2016

With reference to recently signed Memorandum of Understanding with the American Phytopathological Society, a formal invitation has been received by Dr. Pratibha Sharma, Secretary, IPS to join APS Meeting in Tampa, Aug. 2016 to continue to explore opportunities for the mutual benefit of our organizations, viz., Establish an APS-IPS Working Group; joint APS-IPS activities and also for APS-IPS Leadership Team Meetings.

Keeping in view of Dr. Pratibha Sharma, Secretary, IPS given proposal among EC as in agenda for financial support to participate in the forth-coming APS Annual Meeting at Tampa, USA in July/Aug. 2016. The EC agrees on the proposal by the Secretary, IPS with condition that the support will be one time need based support and not applicable as annual support to participate in the APS Meeting. EC members also proposed that the President, IPS should also attend along with Secretary.



# Zonal Activities

This year 6 zones have organized the zonal chapter symposium, however, Central Zone could not conduct the symposium.

<b>Zone</b>	<b>Date</b>	<b>Topic</b>	<b>Contact person/Venue</b>
North-Eastern	Nov 4-5, 2016	Facilitating a shift from chemo-centric to organic mode of plant health management in North East India	Dr. K.C. Puzari Assam Agricultural University Jorhat, Assam Mobile: 9954410071 Email: kcpuzari@gmail.com
Eastern	Dec 8-9, 2016	Plant Health Management for Food security and Safety	Dr. Jayant Saha BCKV, Nadia, West Bengal Mobile: 9433164218 Email: sahajayanta100@gmail.com
Western	Dec. 11-12, 2016	Plant Health Management for Sustainable Agriculture	Dr. K.T. Apet College of Agriculture, Udgir, MS Mobile: 9923357430 Email: ktapet123@rediffmail.com
Southern	Dec 15-16, 2016	Recent Advances in Plant Health Management for Sustainable Productivity	Dr. S.T. Naik UAS, Dharwad, Karnataka Mobile: 9482751956 Email: naiksundhindra@gmail.com
Delhi	Dec17, 2016	Phytopathogenic Mollicutes: A current Indian scenario of diagnosis, epidemiology and disease management	Dr. G.P. Rao Division of Plant Pathology ICAR-IARI, New Delhi Mobile: 9711763384 Email: gprao_gor@rediffmail.com
Mid-Eastern	Dec 29-30, 2016	Crop Health Management through eco-friendly approaches	Dr. Krishna Kumar ICAR-IIPR, Kanpur, Uttar Pradesh Mobile: 9818740144 Email: kkpath@gmail.com



## North-Eastern Zone

Zonal President: Dr. K.C. Puzari

Zonal Councillor: Dr. Ashok Bhattacharyya

### North-Eastern Zone Meeting & National Seminar on “Facilitating a shift from chemo-centric to organic mode of plant health management in the North East” held at Assam Agricultural University, Jorhat, Assam, November 04-05, 2016

A two-day zonal meeting of the NE zone of Indian Phytopathological Society was organized by the Department of Plant Pathology, Assam Agricultural University, Jorhat, Assam in collaboration with Indian Phytopathological Society, New Delhi from November

04-05, 2016. A national seminar on “Facilitating a shift from chemo-centric to organic mode of plant health management in the North East” was also organized to mark the occasion.



Inaugural session of the North-Eastern Zone Symposium

The event was inaugurated by Dr. K.M. Bujarbaruah, Hon'ble Vice Chancellor, Assam Agricultural University and chief guest of the function on Nov. 04, 2016 at the Academic complex of AAU. He emphasized the unique scope of NE India for the shift from chemo-centric to organic mode of plant health management. Prof C. Chattopadhyay, Hon'ble Vice Chancellor, UBKV, West Bengal and Dr. S.V. Nangchan, Director, ICAR Complex for NEH Region, Meghalaya acted as the guest of honour. At the outset, Dr. K.C. Puzari, the chairman of the organizing committee welcomed the delegates.

Dr. A.K. Roy, an eminent plant pathologist from NE India was felicitated for his outstanding contribution in the field of plant pathology. The vote of thanks was offered by the organizing secretary, Dr. Ashok Bhattacharyya. After the inaugural session, presidential address was delivered by Dr. K.C. Puzari, Head of the Department of Plant Pathology, AAU, Jorhat. This was followed by the contest for professor M.J. Narasimhan Academic Merit Award and American Phytopathological travel grant fellowship was held under the chairmanship of Dr. C.



Chattopadhyay, Vice Chanchellor, UBKV, West Bengal. Ms. Himadri Kaushik and Ms. Sarodee Baruah were adjudged first and second for the contest of American Phytopathological Society Travel Grant Fellowship at national level. Ms. Parveen Khan and Mr. Pranjal Kumar Kaman were nominated to represent the zone for Prof. M.J. Narasimhan Academic Merit award competition at national level.

### **Recommendations**

1. Health of soil should be the top priority while practicing different schedules of pest management.
2. Awareness should be accelerated for adoption of organic packages for plant disease management.
3. Organic package for disease management should be prepared urgently, where there is no such package.
4. Emphasis should be laid on exploration of beneficial microbes for plant disease management.

## Eastern Zone

Zonal President: Dr. Jayant Saha  
Zonal Councillor: Dr. Birendranath Panja

### Eastern Zone Meeting & National Symposium on “Plant health management for food security and safety” held at Bidhan Chandra Krishi Viswavidyalaya, Nadia, West Bengal, December 8-9, 2016

The Two Day Symposium was held at Farmers Academy and Convention Centre (FACC), at Kalyani Campus of Bidhan Chandra Krishi Viswavidyalaya (BCKV) under the auspices of the University Plant Pathology Department. The Symposium was spread in Seven Sessions including the Inaugural and Plenary,

and five Technical Sessions during the two days. The Symposium was attended by 105 number registered delegates and 110 unregistered participants and dignitaries, farmers, industry representatives and NGO personnel.



Release of Abstract & Souvenir in the Inaugural session of the Eastern Zone Symposium on December 8, 2016

The Inaugural Session chaired by Prof. Dharani Dhar Patra, Hon ble Vice-Chancellor, BCKV, Mohanpur, Nadia and attended by the IPS delegates, University and State Department personnel, invited scientists, teachers & students, industry representatives *etc.* set the tune of the Symposium where the senior dignitaries gave the call for channelizing the results of researches made by scientists in the field of Plant Pathology to the developmental activities in agriculture done for the farmers by the state and non-state organizations. Certain special problems

with regard to trends of climate change, crop cultivation practices were highlighted during the session.

The Inaugural Session was followed by two invited Memorial Lectures in remembrance of two outstanding Plant Pathologists of the country and teachers of the University Department. Prof. Sankar Mukhopadhyay Memorial Lecture was given by Dr. S. Chakraborty, School of Life Sciences, JNU, New Delhi where he talked in great detail about the recent advances in molecular understanding of plant-virus



interactions with special reference to Gemini viruses. In his Prof. A.K. Sinha Memorial Lecture, Dr. Arunabha Goswami, Biological Sciences Division, Indian Statistical Institute, Calcutta discussed the results of researches carried out in his laboratory on the physical and biological properties of ~ 250 nanoparticles of various elements and compounds with particular reference to their antifungal properties and uses in agriculture and veterinary sciences.

In the Plenary Session chaired by Prof. S. Chaudhuri, the Proceedings of the Symposium were placed before the house and based on extensive discussion and suggestions given by participants the following recommendations were made.

(i) The genomic and other molecule-based study methods for identification and diagnosis of phytopathogenic agents are an aid to correct understanding of the causative agents and diagnosis of the diseases caused by them. Together with the classical studies, the modern molecular study techniques of phytopathogens should be taken advantage of in making clearer understanding of the plant pathogens and the mechanisms of development of diseases caused by them. Such knowledge in due course will prove essential in developing good management practices. Such basic and precise studies have become all the more essential in view some well-established diseases like Late Blight of Potato and newly emerging diseases like Blast Disease of Wheat causing widespread crop loss in the state's context.

- (ii) The above futuristic study systems of Plant Pathology shall demand competence development of the future generation of scientists and to that purpose the graduate and post-graduate syllabi of courses in plant pathology should be reoriented.
- (iii) Post-harvest crop losses particularly of fruits and vegetables have assumed alarming proportions in both state and national context. There is lack in awareness of the fact that crops saved from losses in storage, transit & market can add enormously to food availability, safety and economic gain. Greater emphasis should be laid on this area of research & development. BARC, Mumbai has become the nodal agency to promote use-application of radiation in loss mitigation of perishables and Government & Non-government agencies working in the area should take advantage of BARC's assistance and expertise in this respect.
- (iv) Changes in climate particularly temperature and rainfall pattern are now well recognized facts and the dynamics of pathogens, their distribution, prevalence and severity of afflictions caused by them are also going to change crop production in a negative way. Simultaneous to the basic researches on interaction of changed climatic factors, ways and means for making better preparedness to combat the emerging disease problems should receive attention at both policy and management level. Here, simple mathematical models and satellite-based weather forecasting data shall help developing more effective and



Group photograph of delegates in the Eastern Zone Symposium



economic management practices.

- (v) Fertilizer usage pattern for crop production has large implications on soil-crop productivity relations in our national context. In view of the well-established trend of below optimum use of K as a fertilizer element and K-supply capacity of Indian soils being less than that projected, emphasis on the use of potassic fertilizers should receive greater attention than that is given at present. This becomes especially important as potash is a well-recognized element giving tolerance to both abiotic and biotic stresses.
- (vi) Microbial bio-inoculants and similar such biological and natural materials, be it of fertilizer value or a biocidal or growth stimulant or even a stress-tolerant pathway inducer are being promoted in a large way in the reckoned to be holistic and sustainable crop management practices. Both technology and product

development for the use of these materials should receive well ordained attention as in most cases these are not being assessed and evaluated in the rigorous, standard and regimented way that are applicable to other input uses. Larger attention should be paid to standardization of quality parameters of the products before these reach to the farmers. Both regulatory and policy measures and Governmental level are called for in this respect.

- (vii) The farmers and the consumers are the ultimate stake-holders of whatever is done either in the old chemical or modern biological way of plant protection. Whatever may be the external inputs, health regime of and benefit to the stakeholders and both economic and environmental costs of the technology should be properly assessed before promoting any technology in small or big way. The partners in technology development and field uses should pay due attention in this respect.



## Proceedings of the 29<sup>th</sup> Annual General Body Meeting of the Indian Phytopathological Society (Eastern Zone) held on 8.12.2016 at Farmers' Academy and Convention Centre (FACC), Lake Hall, BCKV, Kalyani, Nadia, West Bengal

The 29<sup>th</sup> Annual General Body (GB) Meeting of the Indian Phytopathological Society (Eastern Zone) (IPSEZ) was held on 8.12.2016 at Farmers' Academy and Convention Centre (FACC), Lake Hall, BCKV, Kalyani, Nadia, West Bengal in presence of the members of the IPSEZ. It was presided over by Dr.

Jayanta Saha, IPS President (East Zone). Prof. B. N. Panja as Zonal Councilor was also present. The activities performed by the East Zonal President and Councilor were appraised to the members present at the GB Meeting.



Group photograph of delegates in the Annual General Body Meeting the Eastern Zone Symposium

### Activities

- (i) Prof. Panja attended the Mid Term EC Meeting of IPS on 10<sup>th</sup> June, 2016 at IARI, New Delhi with a proposal to Organize IPS East Zone Meet cum National Symposium jointly with the Department of Plant Pathology, BCKV, Mohanpur, Nadia and IPS, Division of Plant Pathology, IARI, New Delhi during December, 2016. It was accepted by the IPS Midterm meeting.
- (ii) The theme of the IPS East Zone Meet cum National Symposium was "Plant Health Management for food Security and Safety". Along with the choice of theme, the 8-9<sup>th</sup> December as scheduled date and Farmers Academy and Convention Centre, BCKV, Lake Hall, Kalyani as the venue of National Symposium was fixed and communicated to IPS, New Delhi
- (iii) Out of a total of 81 abstracts received from the participants, 19 were invited/lead lectures, 16 were orals and 46 were posters. There were four abstracts from the contestant of the M. J. N. Narasimhan Merit Award of the Symposium.
- (iv) Besides, three Memorial Lectures in memory of Late Prof. S. B. Chattopadhyay, Prof. Sankar Mukhopadhyay and Prof. A.K. Sinha of the Department of Plant Pathology, BCKV, Mohanpur, Nadia were organized.
- (v) Members of the organizing committee actively participated to make the events of the symposium successful.
- (vi) There were also overwhelming responses of IPS East Zone members to make the programme successful. Unfortunately, there were no representations from Bihar and Odisha at this National Symposium
- (vii) Initiatives were taken to induct three annual and four life members of the IPS from this zone



## Resolutions

- (i) Intensive campaign needs to be taken for increasing the membership from the East Zone.
- (ii) Members of the zone were requested to cast their vote at IPS Election. If any member did not receive the ballot paper, they were requested to download the ballot paper from IPS website and to send a request letter to the IPS Office for valid ballot paper number. After casting their vote, they would finally send it to the IPS office, New Delhi.
- (iii) IPS, New Delhi should take initiative to update the list of present IPS members along with their email and phone No.
- (iv) NAAS rating of the Indian Phytopathology is low. Steps need to be taken for more access to the Journal - Indian Phytopathology by non-member researchers to increase the citation index of the Journal. Besides APS, the IPS should tie up with Elsevier and Springer Publication for elevation of NAAS rating.
- (v) IPS East Zone President and Councilor can take initiative to organize special lecture series by the distinguished and eminent scientists, teachers for the benefit of the students and researchers.
- (vi) IPS Members of the East Zone urged the Zonal President and Organizing Secretary to take necessary actions to publish one book of Proceeding with full articles under the IPS banner for which the National Executive Committee may be approached for finding out suitable publisher.
- (vii) Programme like Farmers' Awareness Day in the banner of IPS should be taken and implemented.
- (viii) IPS, New Delhi should extend financial help equally to all zones of IPS to organize their Zonal Meet.

# Western Zone

Zonal President: Dr. K.T. Apet

Zonal Councillor: Dr. S.D. Somwanshi

## Western Zone Meeting & National Symposium on “Plant Health Management for Sustainable Agriculture” held at College of Agriculture, Udgir, Dist. Latur, Maharashtra, December 11-12, 2016

National Symposium of Indian Phytopathological Society, New Delhi (West Zone) on “Plant Health Management for Sustainable Agriculture” was organized during December 11-12, 2016, at the Department of Plant Pathology, College of Agriculture, Udgir Dist. Latur in collaboration with the Department

gathering and emphasized that the plant protection scientists must develop need based and location specific disease management strategies. Further, Dr. S.L. Jadhav, Director, National Horticulture Mission, Maharashtra State highlighted about the plant protection practices developed needs to extensively



Release of Abstract & Souvenir in the Inaugural session of the Western Zone Symposium on December 11, 2016

of Plant Pathology, Vasantnao Naik Marathwada Krishi Vidyapeeth, Parbhani. A total of 266 research paper abstracts received for presentation.

Dr. B. Venkateswarlu, Hon. Vice-Chancellor, VNMKV, Parbhani was supposed to grace the inaugural function but couldn't be able due to instantly raised circumstances. However, the function was chaired by Dr. A.S. Dhawan, Director of Instruction & Dean (F/A), VNMKV, Parbhani, who in his presidential address appealed the agricultural scientists to work in harmony so as to improve soil health and thereby the plant health. Dr. M. P. Thakur, Director of Extension, IGKV, Raipur, as chief guest of the function addressed the

be reached to the farmers' fields. Dr. Dinesh Singh, Treasurer, IPS, New Delhi briefed about the Society and its related activities. Introductory remarks were given by Dr. S.B. Rohidas, Principal, College of Agriculture, Udgir. Dr. K.T. Apet, Co-organizing Secretary, delivered welcome address and the vote of thanks were expressed by Dr. S.D. Somwanshi, Organizing Secretary.

There were 11 sub-themes distributed among four Technical Sessions. Each technical session encompassed the lead lectures, oral and poster presentations of the eminent plant pathologists.





### **Prof. M.J. Narsimhan Merit Academic Award Competition**

For this contest, the Jury's were **Dr. V.V. Datar**, **Dr. C.V. Ambadkar** and **Dr. S.B. Mahajan**. Out of five registered contestants, only two namely **Ashwini Chavan** and **Basavraj Teli** presented their research work. Based on performance evaluation, the jury declared the nominations of both for their participation in the national Symposium of IPS being organized at ICAR NEH Research Complex, Umiam, Meghalaya during 9-11 January, 2017.

This two days symposium was concluded with Plenary Session, followed by Valedictory Function. The function

was presided over by **Dr. V.V. Datar**, Former Head, IARI Regional Station, Pune. The function was graced by the presence of chief guest **Dr. A.S. Indulkar**, FMC India in presence of **Dr. S.B. Rohidas**, Principal, College of Agriculture, Udgir, **Dr. S.D. Somwanshi**, Organizing Secretary, **Dr. K.T. Apet**, Co-organizing Secretary and **Dr. A.P. Suryawanshi**, Co-organizing Secretary.

All the chairman's presented brief reports of their technical sessions. Certificates to the award winners were distributed with the auspicious hands of the dignitaries on the Dias. The function concluded with the vote of thanks expressed by **Dr. S. D. Somwanshi**, Organizing Secretary.

# Southern Zone

Zonal President: Dr. S.T. Naik

Zonal Councillor: Dr. Shamarao Jahagirdar

## Southern Zone Meeting & National Symposium on “Recent Advances in Plant Health Management for Sustainable Productivity” held at Department of Plant Pathology, University of Agricultural Sciences, Dharwad, Karnataka, December 15-16, 2016

Inaugural Function of National Symposium on Recent Advances in Plant Health Management for Sustainable Productivity held at UAS, Dharwad from December 15-16, 2016. More Than 160 delegates attended the

two days event. 25 Lead Lectures and oral presentations and more than 175 posters were presented covering six major theme areas. The event was inaugurated by Dr. C.D. Mayee, Former Chairman, ASRB New Delhi.



Release of Abstract & Souvenir in the Inaugural session of the Southern Zone Symposium on December 15, 2016

### The research papers as Lead/Oral/Poster presentations were made in the following theme areas:

1. Emerging new diseases and plant disease diagnostics
2. Recent advances in epidemiology of crop diseases relation to climate change
3. Recent advances in agro chemicals & Biological Control for plant health management.
4. Nano-Biotechnological approaches for plant disease management
5. Extension plant pathology, Education and human resource development in Plant Pathology
6. Host plant resistance

### Major Recommendations of Inaugural Session are:

1. Dr. C.D. Mayee – Newer approaches/ technologies to manage newer races of the pathogen under the scenario of climate change.
2. Dr. Rajasab – Integrated & multi disciplinary approach play major role in plant disease management.
3. Dr. D.P. Biradar – Emphasis should be given to younger generation and motivate them to take up innovative research.
4. Dr. B.V. Patil – Use of toxins from the spider/ scorpions to manage some of the diseases conducted by our own students.
5. Dr. S.T. Naik, President IPS (SZ) stressed the need



for establishment of forest Pathology as one of the disciplines in all SAUs.

### Recommendations

1. For the integrated plant health management cutting edge technologies has been recommended for accurate diagnosis and to keep track of the changing pathogen/virulence.
2. There are emerging new diseases in field and horticultural crops under changing climate. The group recommended fore-warning systems and advocating the management strategies and innovative technologies.
3. Application of biotechnology (Marker added selection) for development of resistant genotypes in groundnut and other crops and also application of green nano-technology for plant health management.
4. Application of genomic approach for molecular variability among different pathogens infecting various crop plants.



## Delhi Zone

Zonal President: Dr. G.P. Rao

Zonal Councillor: Dr. G. Prakash

### Delhi Zone Meeting & National Symposium on “Phytopathogenic Mollicutes: Indian scenario of diagnosis, epidemiology and disease management” held at Division of Plant Pathology, ICAR-Indian Agricultural Research Institute, New Delhi, December 17, 2016

Phytoplasmas, Spiroplasma and greening bacteria are a large group of plantpathogenic wall-less, non-helical, mollicutes associated with more than a hundred of plant species worldwide. In diseased plants, mollicutes reside almost exclusively in the phloem sieve tube elements and are transmitted from plant to plant by phloem-feeding homopteran insects. The genetic diversity of mollicutes could be elucidated and a system for their taxonomic classification based on phylogenetic traits are established. Along with, a wealth of information was generated on mollicutes ecology and genomics, mollicute-plant host

interactions and mollicute-insect vector relationships globally. In India, the plants infected with phytoplasmas, spiroplasmas and citrus greening bacteria are of major concerns as they are easily vectored by insects and very difficult to diagnose and manage once established. While the awareness on mollicutes infection has increased among scientists in the last decade, the knowledge about the authentic taxonomy, diagnosis, host-pathogen interaction, epidemiology and phytobiosecurity of mollicutes diseases are limited in India.



Inaugural session of the Delhi Zone Symposium

In order to address the critical gaps, one-day National Symposium was organized by the Indian Phytopathological Society in association with Technical Society of Basic & Applied Sciences, Gorakhpur and Indian Association of Mycoplasmologists, New Delhi on December 17, 2016 at IARI, New Delhi. The inauguration started with welcome address by Dr Rashmi Aggarwal, Head of Div Plant Pathology IARI, New Delhi followed by brief details of symposium by Dr G.P. Rao, Zonal President, IPS Delhi Zone. The

Inaugural Address was delivered by Dr G.P. Rao, Zonal President, IPS Delhi Zone on Up to date progress on Phytoplasma Disease Research in India. The vote of thanks was given by Dr G. Prakash, Zonal Councillor, Delhi Zone. IPS M.K. Patel Memorial Young Scientist Award on “DNA barcoding: A modern tool to explore fungal diversity” was delivered by Dr Deebea Kamil, Div of Pl. Path, IARI, New Delhi after the inaugural session. One hundred and seven delegates from Delhi, Haryana, Uttar Pradesh, Jammu & Kashmir,

Karnataka, Punjab, Tripura and Maharashtra attended the symposium. There were four technical sessions comprised of six lead speakers and 27 oral presentations on different themes of phytoplasmas as: Taxonomy, diagnostics, and characterization of mollicutes; Host-pathogen interaction; Role of vectors and weeds in epidemiology and Management.

Prof Suman Lakhanpal of Delhi University delivered an interesting lecture on 'Delineating the mechanism of phytoplasma caused developmental alterations in *Sesamum indicum* (L.) plants using differential gene expression'. Dr. P. Sreerama Kumar, Principal Scientist of ICAR- National Bureau of Agricultural Insect Resources, Bengaluru presented his work on 'Plant volatiles could provide more insights into insect-transmitted phytoplasma diseases'. Dr Amit Yadav, Scientist of National Centre for Cell Science, Pune discussed the taxonomy of *Candidatus* Phytoplasma: An Indian Scenario. Dr. N. Meshram, ICAR-IARI, discussed the role of Leafhoppers: As vectors of plant pathogens. Dr. DB Parakh, NBPGR, New Delhi discussed about recent update research on *Spiroplasma citri*: A quarantine phytoplasma of citrus stubborn disease. The technical session of invited talks and lead lectures was chaired by Prof. S.M.P. Khurana of Amity University, Gurgaon and Dr. V.K. Baranwal, Incharge Virology, Division of Plant Pathology, IARI, New Delhi. In the oral sessions, there were 27 presentations by scientists and students, who presented their research findings on different aspects of phytoplasma identification on vegetables, fruit crops, sesame, sugarcane, ornamentals crops, palms, weed species etc. Reports on new leafhopper vectors and alternate hosts for different groups of phytoplasma in different geographical regions of India were also discussed. Mr. Sachin Kumar and Ms. Vibhuti Singh of Delhi University, Delhi discussed the Micro-RNA profiling of phytoplasma affected sesame and alteration in

expression of key genes involved in floral development pathway and bioinformatic evaluation of phytoplasma genomic loci for their potential in developing robust strainal typing scheme. Dr Nitika Gupta of Directorate of Floriculture, Pune presented her work on Genome characterization and immuno-based diagnosis using synthetic peptides of *Leek yellow stripe virus*. The oral paper session was chaired and co-chaired by Chair: Prof. Suman Lakhanpaul; Co-Chair: Dr. Amit Yadav and Rapporteur: Dr Ashok Singh.

At last, the Prof. M.J. Narasimhan Merit Academic Award session was organized under Chairpersons Dr. Amit Yadav, Dr. D.B. Parakh and Dr. M.S. Saharan. Four students and young scientists presented their work on different topics of the theme of the conference. Mr. Maninderjeet Singh, Department of Plant Pathology, Punjab Agricultural University, Ludhiana, was awarded the Prof. M.J. Narasimhan Merit Academic Award 2016 for his presentation on Induction and basis of resistance in wheat (*Triticum aestivum* L.) against Karnal bunt caused by *Tilletia indica* Mitra.

### Recommendations

It was recommended to strengthen work on economically important phytoplasmas and mollicutes causing disease like brinjal little leaf, sesame phyllody, arecanut leaf yellows, sugarcane grassy shoots, citrus greening and ornamental phytoplasmas, which are causing significant yield losses every year in the country. It was also highly emphasized and recommended to initiate work on epidemiology and spread of important identified and characterized phytoplasma diseases and search for resistant lines. Besides, the importance of host-pathogen-insect interaction studies and mechanism of phytoplasma infection would also discussed to be strengthened.



Group photograph of delegates of Delhi Zone during symposium

## Mid-Eastern Zone

Zonal President: Dr. Krishna Kumar  
Zonal Councillor: Dr. Md. Akram

### Mid-Eastern Zone Meeting & National Symposium on 'Eco-Friendly Approaches for Plant Disease Management: Recent Trends and Opportunities' held at ICAR-Indian Institute of Pulses Research, Kanpur, Uttar Pradesh, December 29-30, 2016

The two days National Symposium on 'Eco-Friendly Approaches for Plant Disease Management: Recent Trends and Opportunities' was organized by Indian Institute of Pulses Research in association with Indian Phytopathological Society (IPS), New Delhi on December 29 and 30, 2016 to commemorate the International Year of Pulses-2016. The function was inaugurated by the Chief Guest Prof. Akhter Haseeb, Vice Chancellor, NDUAT, Faizabad. Dr. N.P. Singh, Director, IIPR, was Organizing Chairman and Dr. Krishna Kumar, Head; Division of Crop Protection was Organizing Secretary of National Symposium. In this event eminent retired scientists of the IPS mid eastern zone namely, Prof. RV Singh, Dr. A.K. Misra, Prof. DV Singh, Dr. Viswadhar, Prof. RN Singh, Prof. V.S. Bais, Dr. R.A Singh, Prof. L.P. Awasthi, Prof. Udit Narayan, Prof. S.B. Singh, Dr. S.N. Gurha, Prof. U.P. Singh and Dr. R.G. Chaudhary were honored. In the symposium, 130 scientists and multi-disciplinary resource persons

across the India were participated. The symposium mainly focused on the themes related to application of modern tools for disease diagnosis and management, microbes in crop disease management, management of crop disease through host resistance, botanicals and inducers in crop disease management, agronomic and integrated approaches for disease management of Agri-Horticultural crops. In this event 8 invited, 30 oral and 40 posters presentations on various aspects of disease management. Dr. Rajendra Kumar, DG, UPCAR was chief guest of the Valedictory Function, N.P. Singh, Director, IIPR as guest of honour and Dr Krishna Kumar proposed vote of thanks and Dr. Mohd. Akram, Co-organizing Secretary, presented reports of National Symposium. None of the participant has send the abstract for MJN and APS Travel grant hence, competition couldn't be held during symposium at IIPR, Kanpur.



Release of Souvenir and abstract of National Symposium on December 29, 2017

#### In this symposium following recommendations emerged:

- There is a need for exploitation of different genes encoding various proteins for identification of *Fusarium* species and to develop further management approaches.
- For commercialization of bio-inoculants (*Trichoderma* sp.), there is need to generate data for registration of effective isolates and special emphasis to be given on generating toxicity data of strains.

- Mechanism needs to be established for assuring the quality of commercial products and there need to be a monitoring system to check spurious products.
- Detailed study on management of various nematodes is required and comprehensive and collaborative research programme is needed on entomopathogenic nematodes.
- There is an urgent need of development of forecasting models for disease management in all the crops.
- Need national research programme to develop multiple diseases (*viz.*, Leaf spot, powdery mildew and MYMV) resistant varieties in greengram and blackgram.
- Early sowing of green gram and blackgram crops will reduce the MYMV disease incidence hence, this recommendation need to be promoted among farming community.



Group photograph of delegates of Mid- Eastern zone during symposium

# International Workshop (TG2016)

## TG2016 Workshop on “Principles to Practice” held at College of Agriculture Nagpur Maharashtra, November 27-30, 2016

More than 240 delegates attended the workshop. About 30 delegates from other countries.

### Plenary Session

**Chair:** Dr. C.D. Mayee    **Co-Chair:** Dr. R.B. Somani

**Rapporteurs:** Dr. R. M. Gade and Dr. K.D. Thakur

On the first day of the conference plenary lectures were given by Dr Dan Funck Jensen, Professor Swedish University of Agriculture Sciences. He presented lecture on “*Clonostachys rosea* – Traits and functions making it useful in biological control of plant diseases in managed crop production”. He presented that number of biocontrol agents were tested against seed borne pathogens in wheat and barley. He mentioned

that in Denmark *C. rosea* strain IK 726 very effective to reduce diseases and plant growth promotion. In addition IK 726 was found to tolerate mycotoxin producing pathogens like *Fusarium* spp.

Second plenary lecture was presented by Dr. J. G. Hampton, Professor, Bioprotection Research Centre, Lincoln University, New Zealand, on Development of *Trichoderma atroviride* based bioinoculant for New Zealand pastures. He mentioned that New Zealand pastures soils contain a diverse range of soil borne pathogens that impact pasture yield. He tested ten *Trichoderma* spp. against major pathogens and excellent control of *Rhizoctonia solani* and *Pythium aphanidermatum* in clover.



Release of Abstract during International Workshop

A special lecture was presented by Dr. Nabarun Ghosh from West Texas A&M University USA, on “Application of biotechnology for disease resistance in crops and its pros and cons”. He mentioned that they have developed DNA chip technology to get early detection

of pathogens within 1-2 hours. He emphasised that transgenic can be more useful than more use of pesticides. He mentioned about two viruses responsible for decline in sugarbeet for which they develop fluorescens technology.



A key note lecture was delivered by Dr Pratibha Sharma on status “Status of Trichoderma research and applications in India” in which a brief of Trichoderma spp and its use for disease management against many soil borne diseases was elaborated. In her presentation mentioned history on Trichoderma-Gliocladium Workshop. She also presented major works of Trichoderma in India and discussed about various labs working on Trichoderma in India.

#### Some of the recommendations emerged out through presentation and discussion are:

1. Lot of work needs to be done on delivery system of biopesticides.
2. Multidisciplinary approach is needed for production of consortia biopesticides
3. Public Private Partnership is essential for registration of biopesticides.
4. Dealers are not interested to sell the biopesticides/ biocontrol agents due to less margin of profit compared to chemical pesticides.
5. As government rates of biopesticides are very low, it is not possible for private entrepreneurs to provide quality products.

Four Awards were given to the best young researcher’s awards .As the end, lot of discussion on

mutants of organisms not allowed to be registered under CIB was held. The issues raised by the participants were clarified by Dr. C.D. Mayee Chairman of the session. The session ended with vote of thanks to the chair.

#### Awarded Candidates

1. **Dr. Shikha Pachauri** - Homi Bhabha National Institute, Anushaktinagar, Mumbai-”Role of GAPDH in secondary metabolism in Trichoderma virens”
2. **Ms. Jessica Yardley**, Bioprotection Research Centre, Lincoln University, New Zealand.-” Protoplast regeneration is a powerful tool for strain enhancement”
3. **Dr. Prashant Jambhulkar**, Agricultural Research Station, (MPUAT, Udaipur) Banswara, Rajasthan-”Assessing synergism in consortia application of biocontrol agents against blast and bacterial leaf blight of rice”.
4. **Dr. Shuowen Chen**, Shanghai Dajing Biotech Co. Ltd. China- “Trichoderma-, the new powerful remedy for China’s farmland”.

A field visit was conducted on 30<sup>th</sup> November 2016 by Ruchi Biotech, Gondia where the application of biopesticides and biofertilizers was demonstrated.



Group Photograph of delegates of attending international workshop



# National Symposium

## 69<sup>th</sup> Annual meeting of Indian Phytopathological Society & National Symposium on “Diagnosis and Management of Plant Diseases: Integrated Approaches and Recent Trends” held at ICAR Research Complex for NEH Region, Meghalaya, January 9-11, 2017

The symposium jointly organized by ICAR Research Complex for NEH Region, Umiam, Meghalaya and Indian Phytopathological Society.

Chief guest Dr. Mangala Rai (Former DG, ICAR) during the Inaugural session stressed on integration of efforts by all disciplines to make disease management effective and profitable. He also appreciated the efforts by organizing committee for including very pertinent technical sessions like Nanotechnology and plant pathology, Plant microbe interaction, Functional genomics for biotic stress management. Dr. P.K. Chakrabarty (ADG, PP & Biosafety) emphasised on molecular detection of pathogens and also on the need of tracking transboundry movement of the pathogens. Book of abstract and souvenir of the national symposium and three books form IPS (1. A journey of seven decades 2. Special Issue of Indian Phytopathology and 3. Members Directory) were also released during the inaugural ceremony. Dr. P. Chowdappa, Director, ICAR-CPCRI & President, IPS

addressed the gathering and emphasized on intensive research inputs required for tackling climate change scenario. Dr. S.V. Ngachan, Director, ICAR Research Complex for NEH region & Chairman Organizing Committee stressed on soil health aspects in respect to influence of soil microbes on plant health and urged the gathering for developing a holistic approach of tackling plant diseases. Dr. Pratibha Sharma, Secretary, IPS informed the gathering about the activities of the society and also about the recent collaboration with American Phytopathological Society. Welcome address was delivered by Organizing Secretary, Dr. Pankaj Baiswar and vote of thanks was delivered by Dr. S. Chandra, HOD, Plant protection, ICAR Research Complex for NEH region.

Many delegates from all most all parts of the country participated in the symposium. In Nine technical sessions several lead lectures on various aspects were presented followed by several Poster and oral presentations. Following lead lectures were presented during the symposium.





- (i) Disease Management Using Nanotechnology by Dr. Pranab Dutta
- (ii) Classical biological control of alien invasive weeds of North East India by Dr. K.C. Puzari
- (iii) Mandarin decline in Northeast India caused by Citrus tristeza virus: Management by conventional and biotechnological approaches by Dr. K.K. Biswas
- (iv) Integrated disease management strategies in relation to epidemiology of the apple scab in Uttarakhand by Dr. K.P. Singh
- (v) Diversity, diagnosis and management of black rot disease of crucifer crops by Dr. Dinesh Singh
- (vi) Detection, diagnosis and management of important plant diseases of Chhattisgarh by Dr. M.P. Thakur
- (vii) Bacterial wilt disease of brinjal (*Ralstonia solanacearum*) in tropical Islands- status and management strategies by Dr. S. Dam Roy
- (viii) Blast resistance genes and their performance in the multi environment test by Dr. M. Srinivas Prasad
- (ix) Nanoparticles vis-à-vis plant pathogens, beneficial microbes and crop environment by Dr. Susanta Banik

### Recommendations

- (i) Strengthening of Quarantine measures
- (ii) Development of rapid and easily accessible diagnostic kits for major pathogens
- (iii) Research programs related to disease management should be strictly formulated focussing on ultimate beneficiary
- (iv) Exploration of new sources of resistance for major diseases
- (v) Time series studies on pathogen population dynamics in relation to climate change should be conducted
- (vi) Effect of nano particles on beneficial microbes should be investigated
- (vii) Research on PR proteins for biotic stresses should be intensified



Delegates in Annual General Body Meeting of the Society

# Awards/Honours

## AWARDS

### Presentation of the award (2016)

This year following lecture awards were delivered during this national symposium:

**Presidential Lecture:** Dr. P. Chowdappa on “Revisiting the taxonomy of Colletotrichum using multi gene phylogenies”



Presidential Lecture by Dr. P. Chowdappa

**S.P. Raychaudhuri Memorial Lecture:** Dr. Mangala Rai, Former DG (ICAR) on “Plant Disease Management-Integration of Efforts and Alignment of Supports”



S.P. Raychaudhuri Memorial Lecture by Dr. Mangala Rai

**Mundkur Memorial Award:** Dr. S.V. Ngachan, Director, ICAR Research Complex for NEH Region, Umiam, Meghalaya on “Diversity of plant pathogens and hyperparasites in northeast India”



Mundkur Memorial Award by Dr. S.V. Ngachan

**S.N. Dasgupta Memorial Award:** Dr. Subhash C. Bhardwaj, Principal Scientist & In Charge, ICAR-IIWBR, Regional Station, Flowerdale, Shimla on “Growing with wheat and barley rusts for three decades”



S.N. Dasgupta Memorial Award by Dr. Subhash C. Bhardwaj

**M.K. Patel Memorial Young Scientist Award:** (i) Dr. Prashant P. Jambhulkar, Assistant Professor, Agricultural Research Station, Banswara (MPUAT, Udaipur) on “Integrated crop disease management in



M.K. Patel Memorial Young Scientist Award by Dr. P.P. Jambhulkar

southern Rajasthan: ecofriendly practices in tune with biocontrol”; (ii) Dr. Deeba Kamil, Scientist (Senior Scale), ICAR-IARI, New Delhi delivered her lecture during Delhi Zone Symposium on December 17, 2016 on “DNA Barcoding: A Modern Tool to Explore Fungal Diversity”

**J.P. Verma Memorial Award:** (i) Dr. Kalyan K. Mondal, Principal Scientist, Division of Plant Pathology, ICAR-IARI, New Delhi on “Dialogue between Xop-T3SS effectors of *Xanthomonas oryzae* pv. *oryzae* and rice during bacterial blight pathogenesis”; (ii) Dr. Dinesh Singh, - Principal Scientist, Division of Plant Pathology, ICAR-IARI, New Delhi on “Current Status of Bacterial Wilt Disease of Solanaceous Crops”



J.P. Verma Memorial Award by Dr. Kalyan K. Mondal



J.P. Verma Memorial Award by Dr. Dinesh Singh

**Sharda Lele Memorial Award:** (i) Dr. A.K. Misra, Ex Head, Division of Crop Protection, ICAR-Central Institute for Subtropical Horticulture, Lucknow on



Sharda Lele Memorial Award by Dr. A.K. Misra

“Diagnosis and integrated management of priority diseases of subtropical fruits”; (ii) Dr. Indu S. Sawant, Principal Scientist, ICAR-National Research Centre for Grapes, Pune on “Tapping the marvelous power of microorganisms for sustainable plant protection”



Sharda Lele Memorial Award by Dr. Indu S. Sawant

**J.F. Dastur Memorial Lecture Award:** Dr. Rakesh Pandey, Head, Department of Microbial Technology and Nematology, CSIR-Central Institute of Medicinal and Aromatic Plants, Lucknow on “Diseases of medicinal and aromatic plants: Insights in nematode bio-management”.

**The following awardees were felicitated during this national symposium:**

K.C. Mehta and Manoranjan Mitra Award (for Review Article): Dr. Jagdish Kumar Director (Acting) cum Joint Director, ICAR-National Institute of Biotic Stress Management, Baronda, Raipur.



K.C. Mehta and Manoranjan Mitra Award (for Review Article) received by Dr. Jagdish Kumar

A.P. Misra Lifetime Achievement Award: Dr. B.B. Nagaich, Former Director, ICAR-Central Potato Research Institute, Shimla.

**Besides these, following 15 Fellows of the Society (FPSI) were felicitated**

1. Dr. P.K. Chakrabarty, ADG (Plant Protection & Biosafety), ICAR, New Delhi



A.P. Misra Lifetime Achievement Award received by Dr. B.B. Nagaich



IPS Recognition Award received by Dr. V. Muniyappa



IPS Recognition Award received by Dr. K.N. Bhagabati



IPS Recognition Award received by Dr. P.K. Chakrabarty

2. Dr. Bikash Mandal, Principal Scientist, Division of Plant Pathology, ICAR-IARI, New Delhi
3. Dr. Krishna Kumar, Head, Crop Protection Division, ICAR-IIPR, Kanpur, Uttar Pradesh
4. Dr. M.R. Ravikumar, Professor, Agriculture College, Hanumanmatti, Distt: Haveri, Andhra Pradesh
5. Dr. Atul Kumar, Senior Scientist, Division of Seed Science & Technology, ICAR-IARI, New Delhi
6. Dr. S.K. Prashanthi, Associate Professor (Plant Pathology), Institute of Agri. Biotechnology, UAS, Dharwad, Karnataka
7. Dr. Ashok Bhattacharyya, Principal Scientist (Plant Pathology), Assam Agricultural University, Jorhat, Assam
8. Dr. P.V. Patil, Principal Scientist (Plant Pathology), AICRP on Wheat, UAS Dharwad, Karnataka
9. Dr. R.P. Pant, Principal Scientist, ICAR-Indian Agricultural Research Institute, New Delhi
10. Dr. Shahid Ahamad, Programme Coordinator, KVK, Rajouri, Jammu, Jammu & Kashmir
11. Dr. Archana Mehta, Senior Lecturer, Department of Botany, Dr. H.N. Gour, Sagar, Madhya Pradesh
12. Dr. Mihir Kr. Mishra, Associate Professor, Department of Plant Pathology, OUAT, Bhubaneswar, Odisha
13. Dr. H.K. Singh, Associate Professor, N.D. University of Agriculture & Technology, Faizabad, Uttar Pradesh
14. Dr. B.W. Waghmare, Professor & Head, Department of Botany, Maharashtra Mahavidyalaya, Latur, Maharashtra
15. Dr. Ram Charan Mathuria, Chief Technical Officer, Division of Plant Pathology, ICAR-IARI, New Delhi

# Annual General Body Meeting

**69<sup>th</sup> Annual General Body Meeting was held at ICAR Research Complex, Umiam, Meghalaya during January 9-11, 2017**

**The following decision were taken and approved by the General body:**

### **Online voting system**

Online voting system for the different office bearer post of the Society was approved by the General Body. It will be applicable from 2017 onwards election.

### **AWARDS**

#### **Registration and Processing fee for IPS Awards**

The EC agreed on the suggestion to withdraw the rule of **“Registration and Processing Fee”** for IPS Awards from this year. No **“Registration and Processing Fee”** will be charged from the award applicants. The General Body also approved the same.

#### **Guidelines for “S. Sinha Memorial Award”**

The detailed guidelines for the award sent to Dr.

Prakash Bahadur, donor of the endowment fund, have been accepted by him. Further General Body agreed for this award to be biennial in nature, for young scientist between the age limit of 35 to 45, applicable to scientists holding permanent position and IPS Life Membership.

#### **New Honorary Fellow and Advisory Board members of the Society**

Out of the nominations received for Honorary Fellow and Advisory Board of the Society, the following names were approved by General Body.

**Honorary Fellow:** Dr. S.S. Chahal, Vice Chancellor, Khalsa University, Amritsar and Dr. Dilip Lakshman, Research Plant Pathologist, USDA ARS, USA

**Advisory Board:** Dr. K.S. Subbarao, USA and Dr. William Fry, Professor

Plant Pathology and Plant-Microbe Biology Section,





School of Integrative Plant Science, College of Agriculture and Life Science, Cornell University, USA

### Proposal for S. Nagarajan Memorial Award

A committee of the following members namely, Drs. R.K. Jain, B.N. Chakraborty, V. Prakasam, Pratibha Sharma, Dinesh Singh and K.D. Srivastava constituted to discuss and develop the guidelines for institution of new award. It was also suggested to invite IPS members for their contribution of Endowment Fund for the award.

### Declaration of awards (2016) to be presented in 2017

On the basis of EC nomination and suggestion, GB approved the following names for below mentioned awards:

- (i) AP Misra Lifetime Achievement Award: Dr. C.D. Mayee, Former Chairman, ASRB, ICAR, New Delhi.
- (ii) IPS Recognition Award: Total four names has been recommended this award, namely,
  - i. Dr. V.G. Malathi, Adjunct Professor, Tamil Nadu Agricultural University, Coimbatore, Tamil Nadu
  - ii. Dr. T.S. Thind, Emeritus Scientist (ICAR) & Ex-Head (Plant Pathology), Punjab Agricultural University, Ludhiana, Punjab
  - iii. Dr. P.C. Trivedi, former Vice Chancellor, Dr. Ram Manohar Lohia Avadh University, Faizabad, Uttar Pradesh
  - iv. Dr. K.H. Anahosur, Head, Plant Pathology (Retd.), University of Agricultural Sciences, Dharwad, Karnataka
- (iii) S.P. Raychaudhuri Memorial Award : Dr. S. Ayyappan, Former DG, ICAR, New Delhi

It was also approved that that the cut-off marks for all the awards will be 70% and 60% for FPSI. If two person get equal marks then award will be given to the senior person on age basis”.

### “EC agreed and General Body approved the names recommended by the Award Screening Committee”

1. Mundhkur Memorial Lecture Award : Dr. P.K. Chakrabarty ADG (PP and B), ICAR, New Delhi
2. M.S. Pavgi Award Lecture : Dr. U.S. Singh, Senior

Scientist II, International Rice Research Institute (IRRI) - India Office, New Delhi

3. J.F. Dastur Memorial Award Lecture: Dr. Shamarao Jahagirdar, Professor, Department of Plant Pathology, University of Agricultural Sciences, Dharwad, Karnataka
4. A.K. Sarbhoy Memorial Award Lecture: Dr. T. Prameela Devi, Principal Scientist Division of Plant Pathology, ICAR-Indian Agricultural Research Institute, New Delhi
5. Sharda Lele Memorial Lecture Award: Dr. K.P. Singh, Professor, Department of Plant Pathology, G.B.Pant University of Agricultural & Technology, Pantnagar, Uttarakhand
6. M.K. Patel Memorial Young Scientist Award:
  1. Dr. Bishnu Maya Bashyal, Scientist (Senior Scale), ICAR-IARI, New Delhi
  2. Dr. V. Prakasam, Scientist (Plant Pathology), ICAR-Indian Institute of Rice Research, Hyderabad, Telangana
7. K.C. Mehta and Manoranjan Mitra Award : Dr. D.P. Singh, Principal Scientist, ICAR-Indian Institute of Wheat & Barley Research, Karnal, Haryana

### Following names has been finalized for FPSI (2016)

1. Dr. V.K. Razdan, Professor, Sher-e-Kashmir University of Agriculture Science & Technology-Jammu, Jammu & Kashmir
2. Dr. Ramji Singh, Professor & Head, Department of Plant Pathology, S.V.B.P.U.A. & T., Meerut, Uttar Pradesh
3. Dr. M.B. Patil, Professor and Extension Leader, Agricultural Extension Education Center, Koppal, Karnataka
4. Dr. M.S. Yadav, Principal Scientist (Plant Pathology), National Centre for Integrated Pest Management, New Delhi
5. Dr. Vasanth Kumar Thimakapura, Founder, Krishi Jnana Vijnana Vedike, Mysore, Karnataka
6. Dr. J.N. Srivastava, Assoc. Prof./Senior Scientist, Department of Plant Pathology, BAU, Bhagalpur, Bihar
7. Dr. Gayatri Biswal, Associate Professor, Orissa University of Agriculture and Technology, Bhubaneswar, Odisha





8. Dr. Vinod Kumar, Senior Scientist (Plant Pathology), ICAR-National Research Centre on Litchi, Muzaffarpur, Bihar
9. Dr. S.S. Vaish, Senior Assistant Professor, Banaras Hindu University, Varanasi, Uttar Pradesh
10. Dr. Sampat Nehra, Scientist, Birla Institute of Scientific Research, Jaipur, Rajasthan
11. Dr. S.D. Somwanshi, Assistant Professor, College of Agriculture, Udgir, Maharashtra
12. Dr. Sunita J. Magar, Assistant Professor, College of Agriculture, Latur, Maharashtra
13. Dr. Prashant P. Jambhulkar, Assistant Professor (Plant Pathology), ARS, Banswara, Rajasthan

### **M.J. Narasimhan Best Research Paper published in the journal *Indian Phytopathology* (2012-2015)**

The published research articles in Indian Phytopathology w.e.f. 2012 to 2015 were evaluated by the different screening committees which were further screened on the basis of citation of the publication. However, the General Body not agreed on the result. The members suggested that the paper should not selected on basis of citation index only, but also should be based on the importance of papers and its contents etc. Hence, the results will be re-reviewed by the evaluation committee.

### **Prof. M.J. Narasimhan Academic Merit Award**

This year total 9 contestant participated in this contest from different zones.

The judging committee recommended two names for Prof. M.J. Narasimhan Academic Merit Award

1. Ms. Parveen Khan, Department of Plant Pathology, Assam Agricultural University, Jorhat, Assam for the paper entitled "*Fusarium oxysporum* f.sp. *lactucae* a potential threat to hydroponically grown lettuce (*Lactuca sativa*) and its management using microbial consortia"
2. Mr. Muttanna Revadi, Department of Plant Pathology, University of Agricultural Sciences, Dharwad, Karnataka for the paper entitled "Molecular characterization, generation of scFv monoclonal antibody and management of viral

diseases of cucumber"

However, the following names were recommended for Commendation award:

1. Ms. Nitika Gupta, Division of Plant Pathology, ICAR-Indian Agricultural Research Institute, New Delhi "Genome characterization and Immuno based diagnosis using synthetic peptides of Leek yellow stripe virus (LYSV)"
2. Mr. Maninderjeet Singh, Punjab Agricultural University, Ludhiana "Induction and basis of resistance in wheat (*Triticum aestivum* L.) against Karnal bunt caused by *Tilletia indica* Mitra"
3. Mr. Teli Basavaraj - S.D. Agricultural University, Sardarkrushinagar, Gujarat "Exploring biodiversity of nematophagous fungi in the semi-arid ecosystem of north Gujarat and their significance in managing root knot of tomato"
4. Mr. Pranjal Kr. Kaman, Department of Plant Pathology, CSIR-North East Institute of Science and Technology, Jorhat, Assam "Biosynthesis of silver nanoparticles and its effects against soil borne pathogens"
5. Mr. Pradeep Manyam, University of Agricultural Sciences, Dharwad, Karnataka "Bacteriophages, Characterization and Utilisation as Biocontrol agent *Xanthomonas axonopodispv. citri* (Hasse) Vauterin *et al.* and *Ralstonia solanacearum* (Smith) Yabuuchiet *al.*"
6. Mr. Kanishendra Nath Sarker, Department of Plant Pathology, BCKV, Mohanpur, Nadia, West Bengal "Assessment of antifungal and nematocidal potentiality of fluorescent Pseudomonads from different agro-ecological region of West Bengal"
7. Ms. M. Dolpriya Devi, Uttar Banga Krishi Vishwavidyalaya, Pundibari, Coochbehar, West Bengal "Validation of phenotypic traits in wheat for selection of resistance genotypes from the germplasm"

### **APS Travel Sponsorship Award**

Out of 5 candidates, 2 names have been recommended for this travel grant sponsorship. The abstract and biodata of the selected candidates were sent to APS for finalization.

1. Ms. Himadri Kaushik, Department of Plant Pathology, Assam Agricultural University, Jorhat, Assam for the paper entitled "Chemical



approach of synthesizing zinc oxide nanopowder and studies on its antifungal activity and plant growth promotion”

- Ms. Parveen Khan, Department of Plant Pathology, Assam Agricultural University, Jorhat, Assam for the paper entitled “*Fusarium oxysporum* f.sp. *lactucae* a potential threat to hydroponically grown lettuce (*Lactuca sativa*) and its management using microbial consortia”

### K.P.V. Menon Best Poster Award

The judging committee recommended the following names for Prof. KPV Menon Best Poster Award:

### Venue for the forthcoming 70<sup>th</sup> Annual Meeting

The proposal of Dr. Ashok Bhattacharyya, Assam Agricultural University, Jorhat, Assam was unanimously approved as a venue for the next 70<sup>th</sup> Annual Meeting and national Symposium of the Society.

### Revision in membership/subscription rate

The Membership and subscription rate of the Society was revised and approved by the General Body, which will be applicable from 2017.

It was also decided to withdraw the restriction of Life membership for 20 years as online access will be given to the members. However, members, who wish to take the print version of the journal as usual, an amount of Rs. 200.00 (Rs. Two hundred only)/[(US\$ 35.00 (US\$ Thirty Five only) in case of foreign members)] will be charged annually towards postal charge.

It was also decided that GROUP MEMBERSHIP (five and more than five) can be taken by a particular group of members and they can avail a discount of 10% on total membership fee. However, it has to be paid in a single installment.

### K.P.V. Menon Best Poster Award

Title of the poster	Name of the presenter	Position
Green synthesis of zinc nanoparticles using chitosan and culture filtrate of <i>Pseudomonas fluorescens</i> and their utility against major plant pathogens	<b>V.B. Nargund</b> , UAS, Dharwad(authored by J.U. Vinay, V.B. Nargund, C. Swamy, R.R. Patil, S. Jahagirdar and R.V. Hegde)	First
Organic practices : Cropping system approach	<b>Joyshree Matanta</b> , UBKV, Pundibari, West Bengal(authored by Joyshree Matanta, P.M. Bhattacharya and A. Roy)	Second
Development of PCR based and Loop-mediated isothermal amplification (LAMP) assay for the detection of bakane disease pathogen <i>F. fujikuroi</i>	<b>Kirti Rawat</b> , IARI, New Delhi (authored by S.K. Sunani, Kirti Rawat, S. Sharma, B.M. Bashyal and R. Aggarwal)	Third

### Commendation Award

Phytoplasma associated with Witches'-broom and green stem syndrome in soybean in Vidharbha region, Maharashtra	<b>Monicka Hajong</b> , College of PG Studies, CAU, Ribhoi, Meghalaya(authored by Monicka Hajong, P.C. Taram, S.S. Mane)	First
Survey for the incidence of black rot of cabbage caused by <i>Xanthomonas campestris</i> pv. <i>campestris</i> in different districts of Northern Karnataka	<b>K.B. Yadahalli</b> , College of Agriculture, Hanumanamatti, Karnataka	Second
Molecular analysis of mild cross protecting strain of <i>Citrus tristeza virus</i> for management of disease	<b>Utpal Kr. Bhattacharya</b> , IARI, New Delhi (authored by S.P. Choudhury, Utpal Kr. Bhattacharya, N. Balram, P. Chakraborty and Kajal Kr. Biswas)	Third

## Revised membership/subscription rate

	Indian Members		Foreign members	
	Old rate	Revised rate	Old rate	Revised rate
Annual student Membership* (online)	Rs. 750.00	Rs. 1,000.00	US \$ 40.00	US \$ 55.00
Annual Membership (online)	Rs. 1000.00	Rs. 1,500.00	US \$ 40.00	US \$ 60.00
Life Membership (online)	Rs. 10,000.00	Rs. 12,000.00	US \$ 400.00	US \$ 480.00
Instt. Subscribers/ Agencies (print version)	Rs. 5,000.00	Rs. 10,000.00	US \$ 200.00	US \$ 400.00
Corporate Members*	Rs. 25,000.00	Rs. 25,000.00		
Patrons	Rs. 1,00,000.00	Rs. 1,00,000.00		
Admission fee (for new members)	Rs. 100.00	Rs. 100.00	US \$ 10.00	US \$ 10.00
Processing charges of papers	Rs. 400.00	Rs. 500.00		

## APS-IPS Collaborations

### APS Membership

Total 74 IPS members has been enlisted as APS member which was highly appreciated by them. APS membership was routed through IPS, to keep the record of the members, who opted to become the APS members. APS also committed for their members also to seek the membership of IPS, which will be informed in APS Annual Meet 2017.

### Participation of Secretary, IPS in APS Meeting

Dr. Pratibha Sharma, Secretary, IPS visited Tampa, Florida to attend the APS Annual Meeting w.e.f. July 30 to August 4, 2016 as recommended in the Mid-term EC meeting held on June 10, 2016. Attended APS-IPS Working Group meeting held on 31<sup>st</sup> July 2016 at 2.00-3.00PM and APS Foundation Board Meeting on August 2, 2016, at 1:30-5:30 p.m. at the Tampa Convention Centre, Florida.

### The detailed discussion was held on the following points:

#### An APS-IPS Working Group (2016-2019)

An APS-IPS Working Group (2016-2019) has been established under Chairpersonship, Dr. Sally Miller, President, APS. Dr. Krishnamurthy Subbarao (APS) and Dr. Pratibha Sharma (IPS) will be the liaison scientists

of the working group.

### Joint APS-IPS Activities

APS-IPS joint Session on “Indo-US collaborative research & training priorities and opportunities in Plant Pathology” has been finalized which will be conducted at San Antonio, Texas, U.S.A., August 05-09, 2017.

### APS Travel Sponsorship for Students

APS Travel Sponsorship for Students has been instituted. The purpose of this award is to encourage plant pathology students pursuing a doctoral degree in India, who are members of IPS, to attend the APS



Dr. Pratibha Sharma, Secretary, IPS



Annual Meeting or other APS sanctioned meeting if deemed appropriate by the Indian Phytopathology Society and APS Foundation Board. The award has been established with contributions from Plant Pathologists of Indian origin. Students will compete at the zonal competitions in India, and the awardee will be chosen from the top student presenters at these zonal competitions. The fund will reimburse the

awardee for return airfare from India to the meeting venue, accommodation, and incidentals. The awardee is expected to bear the cost of meeting registration.

#### **APS-IPS Session for ICPP2018**

Proposal for joint APS-IPS session on “Invasive and Emerging Diseases” in ICPP2018 has been sent.



# Seven Decades Celebration

To commemorate seven decades of its relentless services to plant pathology, the Society celebrated **“Seven Decades Journey of IPS”** on 28<sup>th</sup> Feb. 2017 in the Division of Plant Pathology, IARI, Pusa Campus, New Delhi.

The function was graced by the presence of chief guests Dr. B.B. Nagaich and Prof. Anupam Varma, former Presidents of the Society and also by Prof. B.L. Jalali, Guest of Honour.

The function was attended by 124 delegates including students, faculties and IPS members. Dr. Rashmi Aggarwal, Head (Plant Pathology) and Ex-officio, IPS welcome the delegates and Dr. Dinesh Singh, Secretary, IPS presented the genesis of celebration **“Seven Decades Journey of IPS”** and progress made in 70 years by the Society. Prof. B.N. Chakraborty, President, IPS presided given his remarks and informed about the development of the Society.

A special lecture on **“Plant Pathology as Subject: Some Reflections”** was delivered by Prof. S.M. Paul Khurana, former President-IPS and Director (Biotechnology), Amity University, Gurgaon.

Some of the senior members presented in the function,



namely, Drs. P.K. Chakrabarty, R.K. Jain, R.K. Khetarpal, A.K. Misra, D.V. Singh, D.S. Singh, Pratibha Sharma, Y.S. Alhawat, Om Gupta also shared their memories of Society.

In the function, the Society is also organizes **Birth Centenary of Prof. A.P. Misra**, former President, IPS. A profile on **Birth Centenary – Professor A.P. Misra** was released and Life-sketch of Prof. A.P. Misra - biography in the form of video was presented which showed the journey of Prof. Misra as plant pathologist. Memory with Prof. Misra was shared by Prof. M.P. Srivastava, in the form of Reminiscences of Prof. A.P. Misra.



Group Photograph of delegates of attending 7 decades celebration



# Publications

## Journal: *Indian Phytopathology*

### Chief Editor's Report

Mr. President, Secretary and Executive members of the society, on behalf of Chief Editor, Dr. R.K. Khetarpal, I have great pleasure in presenting the report of the Editor for the year 2016.

In 2016, we had published all the four issues timely.

- The first issue contained 16 Research Articles, 4 Short Communications and 1 award lecture.
- The second issue contained 14 Research Articles, 3 Short Communications and 1 award lecture.
- The third issue had 14 Research Articles, 5 Short Communications and 3 award lectures.
- Similarly, fourth issue had 11 Research Articles, 5 Short Communications, 2 award lectures and one review article.

Total 55 research articles, 17 short communications, 7 award lectures and 1 review article published in 2016.

After the Journal has become online, published papers in Indian Phytopathology are accessible to a very large group of scientists and academicians across the world.

I highly appreciate the efforts rendered by Editors, especially helped in refereeing and evaluation of the manuscripts.

**Bacteriology:** R.M. Gade, R. Ramesh, A. Kumar, Ram Kishun and A.K. Gupta

**Fungal Pathology:** Robin Gogoi, K.P. Singh. M.P Thakur and R. Viswanathan

**Mycology:** T. Prameela Devi, N.S. Atri and R.N. Kharwar

**Nematology:** S.S. Vaish, Rakesh Pandey and B.P. Kurundkar

**Virology:** G.P. Rao, Kajal Kr. Biswas, D.K. Ghosh, R.N.

Pandey and A.P. Suryawanshi

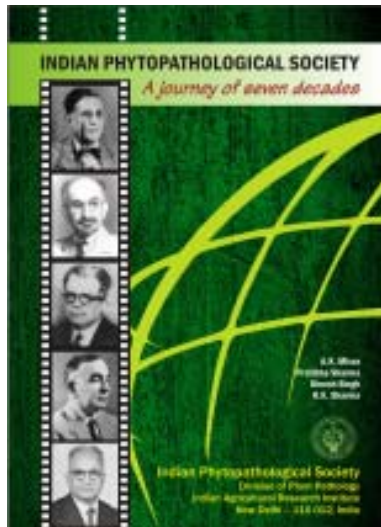
Further, I am thankful to all the referees who reviewed the papers and to name a few Drs. T.S. Thind, N.P. Dohroo, Ramesh Chand, Baleshwar Singh, Ashok Kumar, C. Manoharachary, M.S. Saharan, A.N. Mishra, S.K. Duttamajumder, R. Gopi, A.S. Krishnamoorthy, who helped in prompt and critical reviewing of the manuscripts.

**NAAS Rating:** I am delighted to inform you that the latest NAAS Rating for the journal Indian Phytopathology has been revised as 5.9 from 4.59. I would like to thank our Editorial Board, Reviewers, Executive Council and all other members for their invaluable contributions to journal's success. The Society is already in pursuance for International Impact factor from Thomson Reuters in 2017.

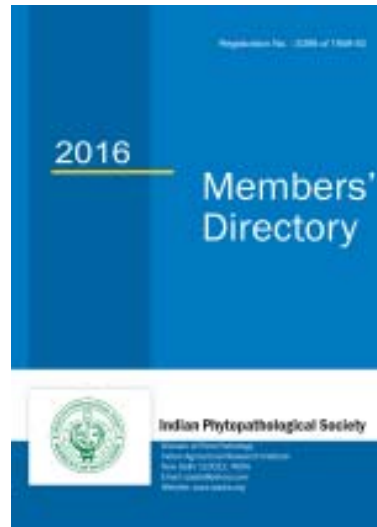
**Springer Collaboration:** Executive Council and General Body agreed on proposal for collaboration with the Springer to publish the journal *Indian Phytopathology*. Dr. B.N. Chakraborty, President-Elect suggested to take strong steps and it should be finalized by March 2017. He suggested that the communication with Springer must be sent to all EC members so that they can also give their comments/suggestion in the matter".

A mail with deadline will be sent to all the members to take their views to collaborate with Springer for publication of the journal Indian Phytopathology. If comments, not received by deadline period, it will be assumed that the members have no objection to collaborate with Springer as Co-publisher. The tentative deadline would be 15<sup>th</sup> February, 2017.

# Publications Books/Documents



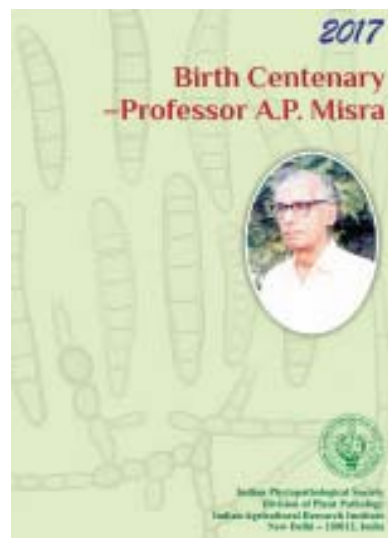
***"Indian Phytopathological Society - A journey of seven decades"***.  
The document provides comprehensive information about the society, its history, leaders, office bearers, awards and activities etc. These information will definitely be very useful for the younger and budding plant pathologists to know the historical aspects of plant pathology in the country and get the inspiration and take a lead for further progress of the Society.



***"Indian Phytopathological Society - Members Directory 2016"***.  
It provides detailed information about the members of the Society till December 2016, It will be very useful for the younger and budding plant pathologists to know the other plant pathologists in the country.



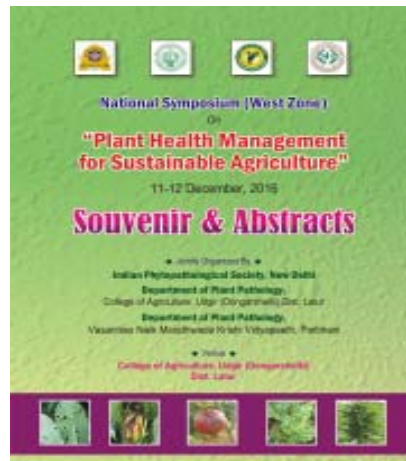
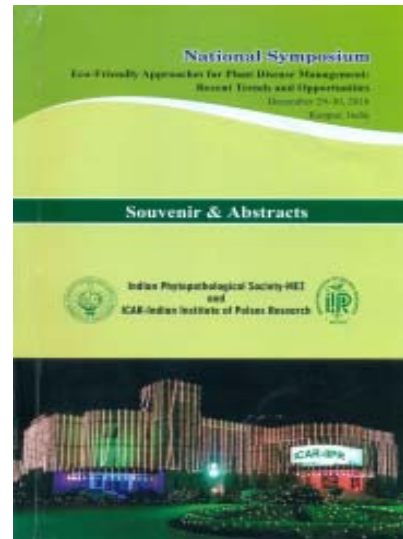
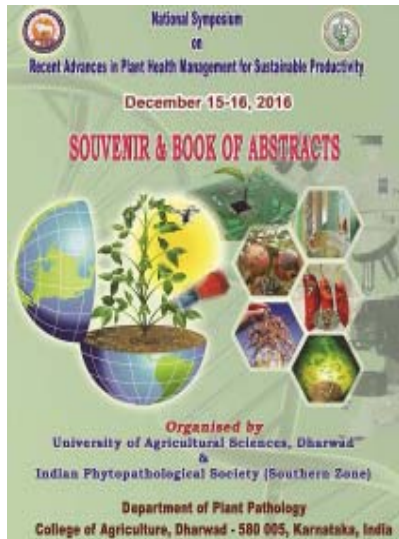
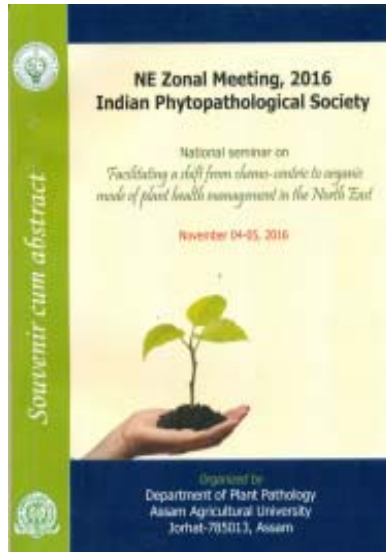
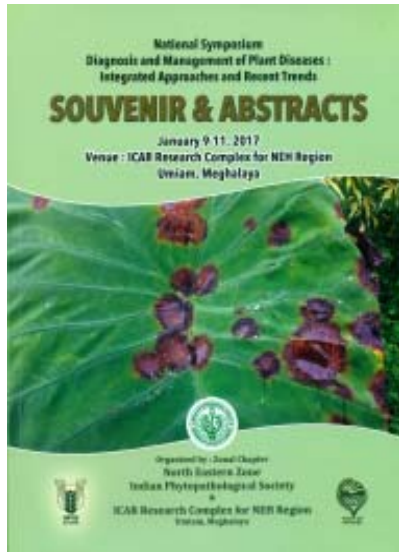
**Special Issue : Proceedings of 6<sup>th</sup> International Conference on Plant Pathogens and People**



This document contains brief life sketch of late Prof. A.P. Misra with old reminiscences (Extracted from previous letters) and the glimpses of old days



### Abstracts book published in the National/Zonal Symposium (2016-17)







# Editorial Board

## Editorial Board 2017-19

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**Dr. M. Anandaraj**, Former Director (ICAR-IISR, Calicut), Bangalore, Karnataka, India

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**Dr. V.K. Baranwal**, ICAR-Indian Agricultural Research Institute, New Delhi, India

### Ex-officio

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- Dr. Usha Chakraborty**, University of North Bengal, Siliguri, West Bengal, India
- Dr. V. Celia Chalam**, National Bureau of Plant Genetic Resources, New Delhi, India
- Dr. V.B. Nargund**, College of Agriculture, Bheemrayanagudi, Karnataka, India
- Dr. Vijai Kumar Gupta**, Tallinn University of Technology, Tallinn, Estonia
- Dr. Yulmira Yanti**, Andalas University, Padang, Indonesia



# Financial Report

## **Treasurer's report**

The report was presented by the Dr. Dinesh Singh, Treasurer, IPS. A marked improvement in collection

of fund has been achieved during this period and Society is in sound financial position.



# Receipt and Payment A/c

**Indian Phytopathological Society, New Delhi**  
 Receipt and Payment (April 01, 2016 to March 31, 2017)

Receipts	Amount (Rs.)	Payments	Amount (Rs.)
Opening Balance as on April 01, 2016		Staff salary	6,00,000.00
Cash in hand	723.00	Printing of Journal	3,08,393.00
IPS Saving Bank A/c	13,04,993.76	National Symposium (2016-17)	4,49,497.00
International Conf. Acc Balance in IPS A/c	7,62,679.00	Mid-term EC Meeting (2016 & 2017)	1,86,665.00
Delhi Zone Symp balance 2015	20,000.00	Seven Decades Celebration	75,772.00
Fixed Deposit	65,83,432.02	Delhi Zone Expenditure (2015)	10,000.00
IPS International Conference A/c		MEZ Symposium Expenditure (2016)	40,000.00
		Election expenditures	32,400.00
		Stationery Charges	30,960.00
Annual Membership	2,06,400.00	Website expenditures	39,350.00
Life Membership	3,14,410.00	Telephone & internet charges	22,745.00
Institutional subscription	5,82,300.00	Postal charges	49,758.00
Processing charge of Manuscripts	1,13,850.00	APS Membership	75,781.25
Postage and Establishment	6,600.00	ISPP Membership	1,22,973.00
FPSI fee	1,15,000.00	RO - Water Purifier	10,000.00
Collection for APS Membership fee	80,580.00	Miscellaneous	28,164.00
MEZ Collection (Registration + sponsorship)	69,750.00	Bank charges	1,677.40
Bank Interest	1,26,933.38		<b>20,84,115.65</b>
		International Conference Expenditures	
Financial Assistance		Photography charge	68,950.00
ICAR - Balance payment for Conference (2015-16)	1,25,000.00	Refund of Regn. Amount	46,000.00
DST - Publication of journal (2016-17)	1,00,000.00	International Travel Grant	2,13,064.00
NABARD - for Conference (2015-16)	1,96,000.00	Publication of book (7 Decades Journey)	76,256.00
		Miscellaneous Expenditure	3,100.00
			<b>4,08,370.00</b>
Interest on International Conference A/c	10,253.67	Closing Balance as on March 31, 2017	
Membership collection online in Conf. Acc.	93,492.00	Cash in hand	1,208.00
		IPS Saving Bank A/c	7,39,895.49
		Fixed Deposit	78,83,432.02
		IPS International Conference A/c	37,000.67
			<b>86,61,536.18</b>
			<b>1,11,54,021.83</b>



For Tasky Associates  
 Chartered Accountants  
 Anil Kumar Mathpal  
 Partner  
 Membership No. 503011

Place - New Delhi  
 Date : 22/03/2018

*Wade*

Vaibhav Kumar Singh  
 Treasurer  
 Indian Phytopathological Society  
 Division of Plant Pathology  
 IARI, New Delhi 110012, India



*Dinesh Singh*

Dinesh Singh  
 (Secretary)  
 Dr. Dinesh Singh  
 Secretary  
 Indian Phytopathological Society  
 Division of Plant Pathology  
 IARI, New Delhi 110012, India





# Profit & Loss A/c

## INDIAN PHYTOPATHOLOGICAL SOCIETY, NEW DELHI P&L A/C. FOR THE YEAR ENDED 31st MARCH 2017

Expenditure	Amount	Income	Amount
Staff salary	6,00,000.00	Annual Membership	2,06,400.00
Printing of Journal	3,08,393.00	Life Membership	3,14,410.00
Deity Zone Expenditure (2015)	10,000.00	Institutional subscription	5,82,300.00
MEZ Symposium Expenditure (2016)	20,000.00	Processing charge of Manuscripts	1,13,850.00
Election expenditures	32,400.00	Postage and Establishment	6,000.00
Stationery Charges	10,960.00	FPSI fee	1,15,000.00
Website expenditures	8,605.00	Collection for APS Membership fee	80,580.00
Telephone & internet charges	22,745.00	MEZ Collection (Registration + sponsorship)	69,750.00
Postal charges	49,758.00	Bank Interest	1,25,933.38
APS Membership	75,781.25		
ISPP Membership	1,22,973.00	Financial Assistance	
RO - Water Purifier	10,000.00	ICAR - Balance payment for Conference (2015-16)	1,25,000.00
Miscellaneous	28,184.00	DST - Publication of journal (2016-17)	1,00,000.00
Bank charges	1,677.40	NABARD - for Conference (2015-16)	1,95,000.00
<b>International Conference Expenditures</b>			
	13,01,436.65		
	4,08,370.00	Interest on International Conference Ac	10,253.67
		Membership collection online in Conf. Acc.	93,482.00
<b>Depreciation on:</b>			
Computer (I-3) & P - IV with UPS	490.79		
Computer (I-3) New	1,242.05		
Laptop (HP Pavilion Laptop)	1,720.32		
Printer (HP Laserjet 6L Pro)	620.00		
Printer (HP Laserjet P1007)	663.71		
UPS (650 VA)	232.55		
EPSON LX 300+	321.66		
Air Conditioner	2,286.42		
Furniture	3,494.91		
Microwave Oven & Refrigerator	1,538.38		
SLR Camera	3,142.88		
Bicycle	411.83		
Surplus			
	16,165.49		
	17,25,972.14		
	4,14,586.91		
	21,40,569.05		21,40,569.05

For Tasky Associates  
Chartered Accountants

Atul Kumar Mathpal  
Partner  
Membership No. 503011

Place : New Delhi  
Date : 22/08/2018



Dr. Dinesh Singh  
(Secretary)

Dr. Dimesh Singh  
Secretary  
Indian Phytopathological Society  
Division of Plant Pathology  
IARI, New Delhi 110012, India





# Balance Sheet

**INDIAN PHYTOPATHOLOGICAL SOCIETY, NEW DELHI**

**BALANCE SHEET AS ON 31st MARCH 2017**

Liabilities		Amount	Assets		Amount
<b>Capital A/c</b>			<b>Assets</b>		
Opening Balance	79,82,113.05		Computer ( I - 3) & P - IV with UPS	327.19	
Add:- Surplus From P&L A/c	<u>4,14,596.91</u>	83,96,709.96	Computer ( I-3) New	828.03	
			Laptop ( HP Pavilion Laptop)	1,146.88	
<b>Expenses Payable for</b>	<u>3,41,625.00</u>	3,41,625.00	Printer ( HP Lasterjet 6L Pro)	413.33	
- IPS International Conference			Printer ( HP Lasterjet P1007)	442.47	
			UPS ( 650 VA)	155.03	
			EPSON LX 300+	214.44	
			Air Conditioner	12,956.38	
			Furniture	31,454.22	
			Microwave Oven & Refrigerator	8,717.51	
			SLR Camera	17,809.63	
			Bicycle	2,333.68	
			Cash in Hand	1,208.00	
			Syndicate Bank		
			IPS Saving Bank A/c	7,39,895.49	
			Fixed Deposit	78,83,432.02	
			IPS International Conference	<u>37,000.67</u>	
				86,60,328.18	
		<b>87,38,334.96</b>			<b>87,38,334.96</b>

For Tasky Associates  
Chartered Accountants



Anil Kumar Mathpal  
Partner  
Membership No. 503011

Place : New Delhi

Date : 27/03/2017

*W Singh*

Vaibhav Kumar Singh  
(Treasurer)

**Dr. Vaibhav Kumar Singh**  
Treasurer



Indian Phytopathological Society  
Division of Plant Pathology  
IARI, New Delhi 110012, India

*D Singh*

Dinesh Singh  
(Secretary)

**Dr. Dinesh Singh**  
Secretary



Indian Phytopathological Society  
Division of Plant Pathology  
IARI, New Delhi 110012, India



# Acknowledgements

The Secretary thanked and expressed sincere gratitude to Dr. P. Chowdappa, President for their guidance, advice, encouragement and support in day to day functioning of the Society. The Secretary also thanked profusely Dr. B.N. Chakraborty, the new President (2017) and Dr. R.N. Pandey, President Elect (2017), Dr. Pankaj Baiswar, Organizing Secretary of the Annual Meeting; Chairman and rapporteurs of various technical sessions and members of organizing sub committees for their wholehearted support in making the 69<sup>th</sup> National Symposium a grand success. Secretary thanked also to all the staff members and students for rendering their valuable help in various ways for making the symposium success. She thanked all the members of Executive Council for their

cooperation, active support and suggestions in various activities of the Society. Last but not least, she thanked to the staff of the Headquarter of IPS for their valuable support.

## **Financial Support from Govt. Organization**

The financial support extended by the Indian Council of Agricultural Research Institute, New Delhi, India and Department of Science & Technology, New Delhi towards publication of *Indian Phytopathology* is gratefully acknowledged.

Pratibha Sharma  
(Secretary)  
Indian Phytopathological Society



# Condolence

Condolence Meeting for eight Life Members of our Society was held who passed away to their heavenly abode during 2016 namely Drs. R.P. Singh, Y.R. Sarma, Janki Kandhari, Ram Kishun, B.K. Prasad, Ram Dayal,

S. Nagarajan and R. Rabindran. The members of the Society express their sincere condolences and profound grief to the bereaved families and pray to almighty that their souls may rest in peace.