

# Annual Report

# 2019-20



**INDIAN PHYTOPATHOLOGICAL SOCIETY**  
Division of Plant Pathology  
ICAR-Indian Agricultural Research Institute  
New Delhi 110012, India  
[www.ipstdis.org](http://www.ipstdis.org)

# ANNUAL REPORT

2019-20

**Compiled and Edited by**

Dr. Robin Gogoi

Dr. Kalyan K. Mondal

Dr. Malkhan Singh Gurjar



## INDIAN PHYTOPATHOLOGICAL SOCIETY

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

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# PREFACE

It is my great privilege and honour to share with you the Annual Report 2019-20. I take this opportunity to extend my gratitude to all the distinguished members of Indian Phytopathological Society (IPS) for giving me this prestigious position to serve the society as President for the year 2019- 2020. The society has made tremendous growth and up-scaled its activities not only within the country but even outside the country. Shaking hands with American Phytopathological society (APS), USA has been a welcome step to organize the IPS-APS Satellite Workshops and offering IPSAPS Travel Grant to the young students for participation in the International Conference of APS. It has also created a wonderful platform to thoroughly discuss on emerging/burning issues of Plant Pathology with APS representatives.



I sincerely feel that the research journal, *Indian Phytopathology* has reached to a newer height in recent days due to active role of the Editorial Board and the publisher Springer Nature. The review articles and research papers published in this journal have attracted attention of the scientific community all around the globe. I congratulate the Chief Editor and Editorial Board of *Indian Phytopath News* for the commendable work they have been doing in publishing four issues of IPS News covering various aspects of plant pathological news and views for the year 2019 which has got wide publicity and positive responses from all the members within and outside the country.

It is indeed a great pleasure to inform you that the Society has organized one day separate Technical Session on “Detection and diagnosis of plant pathogens: DNA barcoding” during XIX International Plant Protection Congress (IPPC 2019) held at ICRISAT, Hyderabad (Telangana) from November 10-14, 2019. During 2019-20, out of eight zones, seven zones of the Society organized zonal chapter national symposium in their respective zone.

You are aware that the United Nation General Assembly has declared 2020 as the International Year of Plant Health. To commemorate this mega event in India, the Indian Phytopathological Society (IPS), New Delhi organized its 7th International Conference on “Phytopathology in Achieving UN Sustainable Development Goals” at ICAR-Indian Agricultural Research Institute (IARI), New Delhi during January 16-20, 2020 along with 13 most prominent plant protection institutes/societies (IARI, NIPB, NBPGR, IASRI, NIAP, NCIPM, APS, SLAMPP, ISMPP, APP, ISMPP, South Asia Biotechnology Centre, FARMER) as Co-organizers and International Society for Plant Pathology (ISPP) as collaborator and it is the first time when these many societies have come closer in joining hands with IPS in celebrating the International Year of Plant Health. Altogether, 708 delegates from 24 countries participated in this mega-event of which 40 delegates were from outside India. There were 60 farmer delegates from different states of India such as Uttar Pradesh, Delhi, Madhya Pradesh and Chhattisgarh who participated in Scientist –Industry - Farmers Interface on 19th January, 2020. During the 4 days long (from Jan 16 to 19, 2020) conference, 21 technical sessions on 21 different themes were conducted. There were 8 plenary speakers, 8 award lectures, 10 Prof. M.J. Narasimhan Academic Merit Award Contestants, 3 APS Travel Sponsorship Award Contestants, 49 Keynote Lectures, 76 Invited Lectures, 130 Oral Presentations and 423 posters presented in the conference.

The financial support extended for organizing IPS 7th International Conference at IARI Campus, New Delhi during January 16-20, 2020 by ICAR: Indian Council of Agricultural Research, New Delhi, SERB: Science and

Engineering Research Board (DST), New Delhi, NBA: National Biodiversity Authority, Chennai, TN, NHB: National Horticulture Board, Gurugram, NABARD: National Bank for Agriculture and Rural Development, Mumbai, CSIR: Council of Scientific and Industrial Research, New Delhi, ONGC: Oil and Natural Gas Corporation, Faridabad, Department of Horticulture and Farm Forestry, Raipur, Chhattisgarh, Dhanuka Agritech Ltd., New Delhi, IFFCO, New Delhi and ADAMA, Hyderabad are gratefully acknowledged. I would also like to thank Indian Council of Agricultural Research (ICAR), New Delhi for financial support for publication of Indian Phytopathology during 2019-20.

A summarized salient major activities, achievements and annual events of the society in totality is compiled in this document with the hope that it will provide an opportunity to the members for the better insight of the society activities, so that they will provide useful constructive suggestions for the improvements in future.



**(M.P. Thakur)**

President

Indian Phytopathological Society

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# About the Society

The Indian Phytopathological Society (IPS) was established during the year 1947. It is a professional society established for promoting the cause of science of Phytopathology. It was Dr. B.B. Mundkur who felt the need of forming a society and initiated for its establishment. The society focuses in the field of Mycology, Plant Pathology, Bacteriology, Virology, Phytoplasmology and Nematology. During the journey of last seven decades, the society progressed with time. It started with few members and now the total members are nearly 2500. The society was started when there was no journal dedicated to plant pathology in the country, however, now there are several journals in the subject, but the progress made by *Indian Phytopathology* is remarkable and un-comparable. The *Indian Phytopathology* become online from March, 2011 on ICAR online portal and online access to this journal from 1995 to 2017 are available for the members of the Society. Recently an agreement was signed with Springer (India) Private Ltd., New Delhi for co-publication of the Journal *Indian Phytopathology* from January 2018 (Vol. 71, Issue 01, 2018) onwards initially for five years (2018-2022).

Not only because of its all India status but also due to dedicated and visionary sincere effort of our seniors, who gave the sound footing to the society and made the law and bylaws so perfect that the society is maintaining its high standard and running perfectly well. The law and bylaws of the society were made so meticulously that there is no major change even after 70 years of its existence. Annual meetings are held regularly and persons of high dedications are given

the responsibility to run the society and journal. During the seven decades society also encouraged members by giving them due honours and awards in the annual and zonal meetings. High standard of presentations and keen contest for the different awards are the special feature of the society. The journey of 7 decades of the Indian Phytopathological Society is really worth appreciation, which organized annual and zonal meetings without fail and chosen the topics of the national seminars for discussion according to the need of the country.

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.

To run the society smoothly, the society is having Executive Council, which takes policy decisions. It consists of 24 members and meets at least twice a year. Following are the members of executive council. The society was earlier having six zones which were later increased to eight zonal chapters, each one having its Zonal President and Councillor elected/nominated every year.



# Executive Council (2019)



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# Meetings:

## Mid-term Executive Council Meeting (27.04.2019)

The Mid-term EC meeting of the Society was held on April 27, 2019 in Committee Room, Division of Plant Pathology, ICAR-IARI, New Delhi and following members attended the meeting, namely; Dr. M.P. Thakur, President; Dr. Dinesh Singh, Secretary; Dr. Robin Gogoi, Joint Secretary; Dr. Vaibhav K. Singh, Treasurer; Dr. M. Anandaraj, Chief Editor; Dr. S.C. Dubey, Sr. Editor; Dr. V.K. Baranwal, Sr. Editor; Dr. Rashmi Aggarwal, Ex-officio; Dr. M.S. Yadav, Zonal President (DZ); Dr. Nasim Ahmad, Zonal Councillor (DZ); Dr. T.S.S.K. Patro, Zonal President (CZ); Dr. Rakesh Mehra, Zonal President (NZ); Dr. PremLal Kashyap, Zonal Councillor (NZ); Dr. Pankaj Baiswar, Zonal President (NEZ); Dr. Tasvina R. Borah, Zonal Councillor (NEZ); Dr. P.M. Bhattacharya, Zonal President (EZ); Dr. Ayon Roy, Zonal Councillor (EZ); Dr. Ved Ratan, Zonal President (MEZ); Dr. C.D. Deokar, Zonal President (WZ) and Dr. V.K. Bhalerao, Zonal Councillor (WZ).

However, Other EC members namely, Drs. P.K. Chakrabarty, President-Elect, M.B. Patil, Zonal President (SZ), and Y.S. Amaresh, Zonal Councillor (SZ), P.K. Verma, Zonal Councillor (CZ) and U.K. Tripathi, Zonal Councillor (MEZ) could not attend the meeting due to their pre-occupied schedule.

Dr. Dinesh Singh, Secretary, welcomed Dr. M.P. Thakur, President, IPS and requested to chair the meeting. He also welcomed the other EC members who have taken keen interest to attend this meeting despite their busy schedule.

### Secretary's report

#### Activities of the Society

The brief report about the IPS 71<sup>st</sup> Annual Meeting of the Society and National Symposium on "**Recent Challenges and Opportunities in Sustainable Plant Health Management**" organized in collaboration with

Institute of Agricultural Sciences, Banaras Hindu University (BHU), Varanasi, Uttar Pradesh during February 26-28, 2019 was presented among the EC members.

He informed that Keynote Lectures, Award Lectures, Invited and Oral presentations were delivered in the national symposium. Besides, these, an IPS-APS joint Satellite Workshop on "Decision Support System in Crop Disease Management", was also organized on February 27, 2019 and the symposium was attended by more than 377 delegates.

The Secretary informed that the IPS Website is updated and all the latest information is available on the website.

The following decision was made in the Annual General Body Meeting held at BHU, Varanasi on 27<sup>th</sup> February 2019.

#### Honorary Fellow and Advisory Board

General Body approved the names recommended for Honorary Fellows and Advisory Board

**Honorary Fellow** (new addition): Dr. M.S. Reddy, Auburn University and Prof. Akhtar Hussain, Lucknow, U.P.

**Advisory Board members** (new addition): Dr. C.L. Jandaik, Shimla, H.P. and Dr. Robert Park, Australia

#### Institution of new awards

##### (a) Institution of new award in the name of Late Dr. S. Nagarajan

General Body approved the already existing award "IPS Travel Sponsorship for Young Scientists" to be renamed as "S. Nagarajan - IPS Travel Sponsorship for Young Researchers". This award will be for Ph.D. pursuing students. A committee of the following members was constituted to prepare the guidelines and terms & conditions for the award within one



month, so that it can be implemented from this year (2019). It was also decided by EC that total eight awards will be given each year and one from each zone.

Chairman : Dr. M. Anandaraj

Members : Dr. Rakesh Mehra, Dr. Robin Gogoi, Dr. M.S. Yadav, Dr. Vaibhav K. Singh

### **(b) Proposal for instituting an award naming "Prof. A.N. Mukhopadhyay Oration Award" for Innovation in Biointensive Management of Plant Diseases**

EC has recommended and General Body approved for institution of new award on the name of "Prof. A.N. Mukhopadhyay Oration Award" for Innovation in Biointensive Management of Plant Diseases. The award will be executed subjected to receiving endowment fund of Rs. 5.00 Lakh from donor Prof. A.N. Mukhopadhyay and mutual consensus on the terms and conditions between IPS and donor.

The Secretary informed the EC members regarding correspondence with Prof. A.N. Mukhopadhyay and Prof. Mukhopadhyay has told that he would do the needful by 15<sup>th</sup> May 2019. The same committee made for "S. Nagarajan - IPS Travel Sponsorship for Young Researchers" will prepare the guidelines and terms & conditions for this award also.

Further, Dr. S.C. Dubey and Dr. V.K. Baranwal emphasized to form a committee to decide and formulate the guidelines for institution of any new award in the Society in future. For that, the EC has constituted a committee for the same.

Chairman : Prof. Anupam Varma  
(IARI, New Delhi)

Co-Chairman : Prof. B.L. Jalali  
(CCSHAU, Hisar)

Members : Prof. T.S. Thind  
(PAU, Ludhiana)  
Dr. D.V. Singh  
(IARI, New Delhi)  
President-IPS, Dr. M.P. Thakur  
(IGKV, Raipur)

Member Secretary : Secretary, IPS,  
Dr. Dinesh Singh  
(IARI, New Delhi)

### **Initiation of new journal**

Proposal from Today & Tomorrow Printers and Publishers, New Delhi to print and publish the Journal "International Journal of Tropical Plant Diseases" - former Chief editor S.P. Raychaudhuri and Anupam Varma" with Indian Phytopathological Society was discussed and EC and General Body did not agree on the proposal.

### **Other agenda discussed in EC and GB approval**

1. Regarding fund assistance and co-operation for collection to organize Zonal meetings- Not agreed by the EC and hence GB not approved.
2. Miscellaneous (publication of abstracts in *Specific format of all Zonal meeting*) – Agreed by the EC and approved by GB.
3. Uniform format of Certificates for the national/zonal/international conferences organized under the banner of IPS: EC agreed on the proposal to have uniform format for certificate and abstracts for each symposia/seminar to be organized under the banner of IPS and GB approved the same.

In the mid-term EC meeting, it was decided that Zonal President and Councillor will be the signatory on the certificate of symposium organized by Zonal President and Councillor. It was also suggested that at least one office bearer from IPS headquarter (HQ) should represent Zonal Symposium without any financial liabilities on IPS HQ.

The fund raised by the respective zones will be utilized for their Zonal activities and 10% of the total registration fee received to be deposited to the Society's HQ account. The proposal to waive of the deposition of 10% of registration fee by the Zonal chapters was discussed and it was suggested to place it in the forth-coming AGBM for final decision.

4. Issue related to refund of registration in case of non-attending the conference -  
EC did not agree to refund the registration amount in this case and GB also did not agree on this issue.
5. Revision of the IPS staff salary  
Revision in salary of the IPS Secretariat was discussed and EC & GB agreed for the revision



w.e.f. April 1, 2019 as given below. Further 10% annual increment will be effective from April 2020.

	Existing salary (Rs.)/month	Revised salary (Rs.)/month
Business Manager	34,560.00	40,000.00
Editorial Assistant	14,000.00	16,000.00
Office Assistant	9,000.00	12,000.00

It was approved to issue appointment letter to all the staff by the Secretary w.e.f. May 2019.

## Activities 2019-20

### i. International conference 2019-20

The Society will organize an International Conference on "Phytopathology in Achieving UN Sustainable Development Goals" during January 16-20, 2020 at IARI, New Delhi.

The application in prescribed proforma has been submitted to ICAR for formal approval.

Letters have been sent to the following institutions to become the Co-organizers of the conference, namely,

- (1) International Society of Plant Pathology
- (2) Asian PGPR Society
- (3) American Phytopathological Society
- (4) Sri Lanka Association for Mycology & Plant Pathology
- (5) ICAR-National Bureau of Plant Genetic Resources (NBPGR)
- (6) ICAR-National Research Centre for Integrated Pest Management
- (7) ICAR-Indian Agricultural Statistics Research Institute
- (8) ICAR-National Institute of Agricultural Economics and Policy Research (NIAP)
- (9) ICAR-National Institute for Plant Biotechnology (NIPB)
- (10) International Potato Centre (CIP)
- (11) Association of Plant Pathologists, Akola
- (12) Indian Society of Mycology and Plant Pathology, Udaipur

Consent from ISPP, SLAMPP (Sri Lanka) and Asian PGPR Society has been received, however, consent from others are awaited.

### (i) Proposal for brain storming session/ Special Symposium on "Post-Harvest Diseases and Technology for Horticultural and other Crops"

Proposal from Dr. A.P. Suryawanshi, Head, Department of Plant Pathology, Dr.B.S. Konkan Krishi Vidyapeeth, Dapoli, Dist-Ratnagiri (M.S) to organize Brain Storming session (One day) on Special Symposium (Two Days) at Head Quarter during September-October, 2019 was agreed by EC and approved by General Body.

It was discussed in the meeting to organize the Special National Symposium with the Western Zone Symposium, however, Dr. C.D. Deokar, Zonal President (WZ) mentioned that it would not be possible to organize both the events together, hence EC agreed to conduct both the events separately.

### (ii) Scientist-Industry-Farmers interface

The proposal was agreed by EC and approved by General Body

EC members suggested that this program may be conducted as one of the session in the forth-coming IPS International Conference to be held in January 16-20, 2019.

### (iii) Collaboration for organization of International Conference with Sri Lanka Association for Mycology and Plant Pathology

GB agreed to organize International Conference with Sri Lanka Association for Mycology and Plant Pathology (SLAMPP) subjected to detail international terms and conditions should be worked out.

However, Secretary, IPS informed that SLAMPP agreed to be the Co-organizer of the forth-coming IPS International Conference to be held during January 16-20, 2020 and EC agreed for the same.

(iv) Dr. Vaibhav Kumar Singh, Treasurer, IPS is not willing to function as Treasurer in local organizing committee of 7<sup>th</sup> International Conference to be held at IARI, Delhi from 16-20 January 2020 in the EC meeting held on 27<sup>th</sup> April 2018 at Division of Plant Pathology IARI, New Delhi. Since this activity has already approved by AGBM and it is urgently required to depute one



Treasurer in place of Dr. Vaibhav Kumar Singh for the Society to maintain records and bills, operate account of the IPS for conference purposes. Under these conditions, President, IPS suggested that Dr. Robin Gogoi, Joint Secretary of IPS, will operate the account of the conference jointly with organizing secretary and maintain all the records and bills of expenditure related to conference and also he will prepare audit report of the expenditure with the help of CA.

### Zonal chapter activities (2019-20)

Out of eight zones, the Society has received the proposal from six zones, except Central and Northern Zone for the Zonal Symposium in 2019-20. Details are given in the table below.

### Award nomination (2020)

The nominations from EC members were sought for the awards of the Society. Out of the nominations received, the EC recommended the name of Prof. B.L. Jalali, former Director of Research, CCSHAU, Hisar, Haryana for A.P. Misra Lifetime Achievement Award; Dr. M. Anandaraj, Former Director, ICAR-IISR, Calicut,

Kerala for S.P. Raychaudhuri Memorial Lecture Award; and Drs. Basant Ram, Lucknow, U.P., H. Shekar Shetty, Mysuru, Karnataka, Srikant Kulkarni, Bangaluru, Karanataka and Dr. R.P. Thakur, Secunderabad, Telangana for IPS Recognition Award.

However, for rest following awards nominees will be requested to submit their biodata to the Society.

1. Mundkur Memorial Award
2. M.S. Pavgi Memorial Award
3. M.K. Patel Memorial Young Scientist Award
4. J.F. Dastur Memorial Award
5. J.P. Verma Memorial Award
6. Sharda Lele Memorial Award
7. K.C. Mehta and Manoranjan Mitra Award
8. S. Sinha Memorial Award
9. B.N. Chakraborty and Usha Chakraborty IPS Best Teacher Award

The announcement for open nomination will be **June 1, 2019** and the last date to receive the application will be **July 31, 2019**.

### Proposed zonal chapter activities (2019-20)

Zone	Date	Topic	Venue
<b>Southern</b>	Nov 28-29, 2019	Transdisciplinary Plant Pathological Research – The Way Ahead	Agricultural Extension Education Centre (UAS, Raichur), Koppal, Karnataka
<b>Western</b>	Between 1 to 9 <sup>th</sup> Sept, 2019	Emerging Trends in Plant Pathology under Climate Change Scenario	Mahatma Phule Krishi Vidyapeet, Rahuri, Ahmednagar, MS
<b>North Eastern</b>	Nov 7-8, 2019	Sustainable Plant Health Management in North-east India	ICAR Research Complex for NEH Region, Umiam, Meghalaya
<b>Eastern</b>	2 <sup>nd</sup> fortnight of Sept, 2019	Mitigating Biotic Stresses in Agriculture for 21st Century: Changing Market Paradigm	Uttar Banga Krishi Viswavidyalaya Coochbehar, West Bengal
<b>Delhi</b>	Nov 23, 2019	Bio-intensive Approaches for Management of Crop Diseases	Division of Plant Pathology, IARI, New Delhi
<b>Mid-Eastern</b>	Nov6-8, 2019	Plant Health Management for Eco Friendly and Sustainable Agriculture	CSA University of Agriculture & Technology, Kanpur, UP
<b>Central</b>	Dec 11/12, 2019	Challenges and Opportunities in Plant Pathology	Andhra University Visakhapatnam Andhra Pradesh
<b>Northern</b>	Dec 12-13, 2019	Plant Disease Management for Food Security Under Climate Change Scenario	CCS HAU, Hisar, Haryana



## Publication

### Journal: *Indian Phytopathology*

The March issue (2019) of the journal *Indian Phytopathology* was published on time and is available online. Accepted manuscripts for June issue 2019 are available ONLINE First on the website.

Dr. Mamta Kapila, Executive Editor – Journals, Springer Nature India Private Limited, New Delhi was also invited to present the financial/royalty status (2018-19) as well as submitted manuscripts status of the journal *Indian Phytopathology*. She appraised about publication of *Indian Phytopathology* under Springer. She clarified about online submission of the articles, mode of editing and acceptance/rejection of the paper based on the reviewers and editors comments/decision.

She also suggested to instruct the authors to restrict the length of the articles so as to accommodate more number of articles in one issue. To make the journal International rather than national, the issue should have:

- One or two invited/review articles in each issue
- One or two articles from foreign authors in each issue
- Special issue on hot/emerging/important topics
- Guest Editors from India as well as other countries for special issue of the journal

She informed the house that approx. INR 2.0 Lakh royalty has been calculated for the year 2018-19. However, she will inform the exact amount in due course of time after getting proper information from their accounts department.

Editors raised some issues facing during the editorial process in movement of edited articles in online process. She suggested to have a separate meeting which needs to be arranged to discuss on the matter related to publications.

### IPS Newsletter - *Indian Phytopath News*

The January-March issue (Vol 2, No. 1: 2019) is available on the IPS website in pdf form.

Thanks to the Editorial team of journal and newsletter for bringing out the issues timely.

## Other agendas

The Society invited for agendas from Advisory Board members and Executive Council members for betterment and its smooth functioning. The following agenda received from the EC members:

### 1. Mail received from Dr. D.P. Singh and R.P. Thakur regarding transparency in the process of election of IPS bearer

EC discussed the matter at length and did not agree on the points raised by Dr. D. P. Singh. However, EC suggested that to make election procedure more transparent, a committee needs to be constituted for IPS Election, who will take care of the dispatch of ballots, receipts of ballots within and after the last date etc. For smooth conduction of the entire election process, Secretary, IPS will be the Chairman and Ex-officio, Joint Secretary and two other senior members of the Society will be the members of the committee subjected to the approval of AGBM. Further, if any of these members of committee contesting for any portfolios of the IPS should not be part of said committee and a new member may be included with the concurrence of the president, IPS.

### 2. Dr. A.K. Misra - mail regarding withdrawal of cash award in “Prof. A.P. Misra Lifetime Achievement Award”

Secretary informed the house that the decision for withdrawal of cash award in “Prof. A.P. Misra Lifetime Achievement Award” was taken due to excess of expenditures over the interest received from the endowment fund of this award and EC did not agree the proposal of Dr. A.K. Misra in reinitiating of Cash prize of Rs. 15,000.00.

### 3. The following agendas received from Dr. M.S. Yadav Zonal President, Delhi Zone (2019)

(i) Participation of IPS representative in APS Annual Meeting

MOU with APS-IPS collaboration exists from 6<sup>th</sup> International Conference held in Feb.23-27, 2016. Under this MOU, many IPS members acquired the membership of APS, but any representative of IPS should participate in Annual meeting of APS. In this year, annual meeting of APS is going to be held at



Cleveland, Ohio, U.S.A. from August 03-07, 2019. So, under this collaboration at least one representative of IPS should participate in this meeting.

The matter was discussed and EC decided that the Society is not in position to support financially to any members. However, any member can participate and represent IPS in the APS-IPS Working Group Meeting during APS Annual Meeting with approval of the Society (IPS).

(ii) Rationalization of Zonal Chapter Meetings of IPS

EC agreed upon that Zonal meeting and symposium will be conducted as usual organized in the past.

(iii) Restriction on publication of papers by the members of Editorial Board of IPS in Indian Phytopathology

EC denied such restrictions.

(iv) Clarification on endowment fund for D.P. Mishra and R.N. Pandey IPS Best Women Scientist Award

Treasurer, IPS raised the issue regarding payment of another Rs. 2.00 Lakhs to make the total endowment fund Rs. 5.00 Lakhs. Since, the case was discussed in the previous Mid EC meeting held on April 21, 2018, all the EC members agreed to accept Rs. 3.00 lakhs only already contributed by the donor with a condition that the award will be given biennially. It was suggested by the EC to mobilize among the members to generate the fund to make it Rs. 5.0 Lakh. If the endowment fund reaches to Rs. 5.0 lakh by contribution of members, then it will be converted into annual. The matter was further discussed in AGBM on 27<sup>th</sup> February 2019 and then President, IPS clarified all doubt and GB agreed for the same. The matter was again raised by Treasurer, IPS and it was discussed in the meeting and suggested to finalize the matter again in the forth-coming AGBM.

(v) Inclusion of new member in editorial board

A letter was sent by Dr. Vaibhav Kumar Singh, Treasurer to IPS through mail to include his name in the editorial board of IPS Newsletter "Indian Phytopath News". It was discussed in the meeting. Some EC members agreed to include his name in Editorial board but he denied accepting the same. However, EC emphasized that Zonal Coucillors alongwith Zonal Presidents are

to be included in the Editorial Board of the Newsletter for effective compilation of information from their zones.

#### 4. Resource generation for APS-IPS Travel Grant

Secretary put up the case before EC members to generate a corporate fund which is required to create the fund, who can sponsor specially for students' welfare. A meeting on this issue will be organized by the Society for preparing modality of fund generation.

#### 5. Dr. Vaibhav Kumar Singh: Discussion on receipts from publication of books by IPS

The matter was discussed and it was suggested to find out whether any MoU between the Society (IPS, the publisher) and TTPP (Printer and Distributor) was signed and any official record or decision was taken for publishing books. It was also decided to have an agreement & MoU between both parties before going for any publication in future and to take approval of AGBM. Regarding royalty on the books, it was informed by the Secretary that royalty received by the Society till 2016 was Rs. 2.47 lakhs which was duly audited by CA. However, the royalty on the books published after 2017 has not been received from the printer/distributor (TTPP) which needs pursuance from the Secretary/Treasurer. It was further decided that topic/theme for writing any books and involvement of editors should be finalized by the EC members and the same agreed by the EC.

#### Purchase committee

As discussed in the Annual EC meeting held on February 25, 2019 at BHU, Varanasi, U.P., it was decided to constitute a Purchase Committee to look after the procurement of items for official purpose of the Society, of amount more than Rs. 25,000.00. The Committee was constituted with the following members which approved by the President. Further EC also agreed for the same.

1. Dr. Dinesh Singh, Secretary, IPS - Chairman
2. Dr. Robin Gogoi, Joint Secretary, IPS - Member
3. Dr. Vaibhav Kumar Singh, Treasurer, IPS - Member



4. Dr. M.S. Yadav, NCIPM, New Delhi - Member
5. Dr. Jameel Akhtar, NBPGR, New Delhi - Member

The committee will be valid until constitution of new EC or 31<sup>st</sup> March 2020, which-ever is earlier.

### 6. Participation of IPS representative in IPPC 2019 to be held at Hyderabad in Nov. 2019

It was already decided that society will be participating in the IPPC 2019 and a half day session on the topic "Detection and diagnosis: DNA barcoding" will be organized by the Society. Drs. V.K. Baranwal, S.C. Dubey and Deeba Kamil will take lead in organization of this session and they will finalize the topics and speakers. Dr. Rashmi Aggarwal and Secretary IPS will help to organize the same. There will be no liability of the society to provide funds in this regard. Dr. M.P. Thakur, President-IPS will represent the Society in IPPC 2019.

### 7. Membership drive

The zone will be awarded with Appreciation letter based on the maximum number of the members enrolled in that particular year. EC agreed upon the decision. The offer of discount (25%) in membership fee will be continued as per the conditions of previous year and will be valid till 31<sup>st</sup> March, 2020.

### Treasurer's report

Dr. Vaibhav Kumar Singh, Treasurer presented the financial report for 2018-19. He expressed about the incomplete accounting of the Statement of Expenditures of the international conference held at Bangkok, Thailand in November 2018. EC suggested for relooking into the accounts of the international conference and the pending balance amount may be reconciled at the earliest possible, so that auditing can be done by the end of May, 2019.

It was also suggested to clear the TA bills related to the IPS Annual Meeting and National Symposium held at BHU, Varanasi, UP during February 26-28, 2019. Post-facto sanction of the previous bills submitted by Dr. A.K. Misra, Dr. D.V. Singh, Dr. C. Manoharachary, Dr. K.D. Srivastava and Dr. Sesha Kiran may be done by the Secretary as suggested by the EC members. EC further suggested to transfer the fund (sponsorship collected by the Society for the symposium organized at BHU) to the symposium account (BHU) to clear the all bills related to the symposium expenses viz., printing and food, etc. EC felt that it is the responsibility of the Organizing Secretary, National symposium to clear the bills from symposium account.

It was discussed that delegates who had paid expenses of their accompanying person or self to IPS, the EC agreed to return the amount received from the concerned delegates, and the same amount may kindly be paid to Alpcord at the earliest so as to settle the account of International Conference with Alpcord and IPS.

### Chief editor's report

Dr. M. Anandaraj, Chief Editor, *Indian Phytopathology* presented the editorial report. He informed the house that the journal is now up-to-date and published timely. He presented the status of manuscript submitted and also inform about the June issue (2019) that 17 articles are already online first and another 5-6 articles will be needed to complete this issue, and it will be published by the end of May 2019. He also informed about the special issue on "Advances in Fusarium Research", 9 articles are online first, 6 are accepted and total 13 articles are in the process.

The meeting ended with vote of thanks by Dr. Robin Gogoi, Joint Secretary, IPS.



## Local Executive Council Meeting (01.06.2019)

A meeting of the Local Executive Council members was held on June 01, 2019 at 10.00 AM in Committee Room, Division of Plant Pathology, IARI, New Delhi to discuss the various agenda items related to 7<sup>th</sup> IPS International Conference on "Phytopathology in Achieving UN Sustainable Development Goals" to be held at NASC Complex/IARI Campus, New Delhi during January 16-20, 2020. The following members attended the meeting:

1. Dr. M.P. Thakur, President, IPS, Director (Instructions), IGKV, Raipur, Chhattisgarh
2. Dr. P.K. Chakrabarty, President-Elect, IPS, Member (ASRB), ICAR, New Delhi
3. Dr. Dinesh Singh, Principal Scientist (Plant Pathology), Secretary, IPS, IARI, New Delhi
4. Dr. Robin Gogoi, Joint Secretary, IPS, Principal Scientist (Plant Pathology), IARI, New Delhi
5. Dr. Vaibhav Kumar Singh, Scientist (Plant Pathology), Treasurer, IARI, New Delhi
6. Dr. Rashmi Aggarwal, Ex-officio, Head & Dean & Jt. Director (Edu.), IARI, New Delhi
7. Dr. S.C. Dubey, Senior Editor & Head (Plant Quarantine), NBPGR, New Delhi
8. Dr. V.K. Baranwal, Senior Editor & Professor (Plant Pathology), IARI, New Delhi
9. Dr. M.S. Yadav, Zonal President (Delhi Zone), NCIPM, New Delhi
10. Dr. Nasim Ahmad, Zonal Councillor (Delhi Zone), NCIPM, New Delhi

The meeting was chaired by Dr. M.P. Thakur, President, IPS.

The following points were discussed in the meeting:

### 1. Organizers, Co-organizers and sponsors of the conference

#### Organizers

1. **IPS:** Indian Phytopathological Society

2. **ICAR:** Indian Council of Agriculture Research
3. **IARI:** Indian Agricultural Research Institute

#### Co-organizers

1. Asian PGPR Society, USA
2. American Phytopathological Society, USA
3. International Potato Centre, Lima-Peru, USA
4. Sri Lanka Association for Mycology & Plant Pathology, Sri Lanka
5. ICAR-National Bureau of Plant Genetic Resources (NBPGR), New Delhi
6. ICAR-National Research Centre for Integrated Pest Management, New Delhi
7. ICAR-Indian Agricultural Statistics Research Institute, New Delhi
8. ICAR-National Institute of Agricultural Economics and Policy Research, New Delhi
9. ICAR-National Institute for Plant Biotechnology, New Delhi
10. Association of Plant Pathologists (APP), Akola, Maharashtra
11. Indian Society of Plant Pathologists (INSOPP), Ludhiana, Punjab
12. Indian Society of Mycology and Plant Pathology (ISMPP), Udaipur, Rajasthan

#### Sponsor

1. **ISPP:** International Society of Plant Pathology (ISPP), USA

### 2. Programme

The design of the conference would be based on the conference themes through:

- **Plenary lectures:** these would offer an overview of the conference themes
- **Keynote & Invited lectures:** these would offer an in depth analysis of various conference themes
- **Contributory oral papers:** presented in parallel



sessions and would elaborate upon the various conference themes.

- **Contributory posters:** presented in parallel sessions and would provide an opportunity to the participants to present their work in more informal manner with personalized interaction with other participants
- **Invited corporate lectures on prospects and constraints:** directed towards diverse audience
- **Farmers-Scientists-Industries Interface**

There will be total 04 plenary lectures [01 lecture (30 min.) each day in main hall), 01 Keynote/Lead lecture (20 min) and 3-4 Invited lectures (12-15)] in each session and 8-10 min. for oral presentation.

### Technical sessions

The conveners and co-conveners for identified session will be as follows. It was suggested to seek the consent from the conveners of the session.

#### 1. Taxonomy of plant pathogens

Dr. P. Chowdappa, Convener  
Dr. T. Prameela Devi, Co-convener  
Dr. R.N. Kharwar, Co-Convener

#### 2. Plant disease diagnostics

Dr. B.N. Chakrabarty, Convener  
Dr. V.K. Barnwal, Co-Convener  
Dr. S. Umesha, Co-Convener

#### 3. Population genetics and pathogen diversity

Dr. Rashmi Aggarwal, Convener  
Dr. D.K. Ghosh, Co-Convener  
Dr. K.K. Pandey, Co-Convener

#### 4. Host-pathogen interaction and plant immunity

Dr. Jagdish Kumar, NIBSM, Convener  
Dr. M.S. Patil, Co-Convener  
Dr. A.S. Krishnamoorthy, Co-Convener

#### 5. Climate change influencing plant diseases

Dr. Indu Sawant, Convener  
Dr. Om Gupta, Co-Convener  
Dr. S. Desai, Co-Convener

#### 6. Epidemiology and forecasting of plant diseases

Dr. S.S. Sharma, Convener

Dr. Jyotsana Sharma, Co-Convener

Dr. Parimal Sinha, Co-Convener

#### 7. Plant health management vis-à-vis human health

Dr. Shrikanta Das, Convener

Dr. M. Srinivas Prasad, Co-Convener

Dr. R. Vishwanathan, Co-Convener

#### 8. Post-harvest diseases and mycotoxins

Dr. A. P. Suryawanshi, Convener

Dr. B.K. Pandey, Co-Convener

Dr. V. Devappa, Co-Convener

#### 9. Disease management in organic and protected cultivation

Dr. S.K. Sharma, Convener

Dr. K.D. Thakur, Co-convener

Dr. R.P. Singh, Co-Convener

#### 10. Breeding strategies for plant disease resistance

Dr. Ramesh Chand, Convener

Dr. S. Jahgirdar, Co-Convener

Dr. M.S. Saharan, Co-Convener

#### 11. Bio-prospecting in disease management

Dr. Pratibha Sharma, Convener

Dr. R.N. Pandey, Co-Convener

Dr. V. Shanmugam, Co-Convener

#### 12. Chemical control of plant diseases and next generation strategies

Dr. T.S. Thind, Convener

Dr. K.P. Singh, Co-Convener

Dr. Robin Gogoi, Co-Convener

#### 13. Workshop on wilt disease of Solanaceous crops

Dr. Dinesh Singh, Convener

Dr. L.C. Borah, Co-Convener

Dr. R. Ramesh, Co-Convener

#### 14. Genomics and bioinformatics

Dr. S.J. Eapen, Convener

Dr. A. Kumar, Co-Convener

Dr. K. K. Mondal, Co-Convener

#### 15. Transgenics and related approaches for disease management

Dr. M. Krishna Reddy, Convener



Dr. R. Selvarajan, Co-Convener

Dr. T. Makesh Kumar, Co-Convener

**16. Human resource development in plant pathology**

Dr. R.K. Mittal, Convener

Dr. A.K. Misra, Co-Convener

Dr. H.B. Singh, Co-Convener

**17. International trade and biosecurity**

Dr. S.C. Dubey, Convener

Dr. Celia Chalam, Co-Convener

Dr. Kavita Gupta Co-Convener

**18. Extension plant pathology: challenges in implementation**

Dr. M.P. Thakur, Convener

Dr. M.B. Patil, Co-Convener

Dr. Ved Ratan, Co-Convener

**19. Plant pathologists entrepreneurship and policy perspectives for food security**

Dr. V.I. Benagi, Convener

Dr. Krishna Kumar, Co-Convener

Dr. Pankaj Baiswar, Co-Convener

**20. Farmers-Scientists-Industries interface**

**3. Submission of abstract for oral/poster presentation**

There will be scientific sessions on various topics identified for the conference in the form of invited lectures and poster presentations. Abstracts should be submitted as per the approved format provided in about 300 words excluding title, affiliation etc. On line submission by e-mail is strongly encouraged Not more than one page, 1.5 spacing, font size 10 (Arial font). The Scientific Secretariat reserves the right to edit abstracts if required.

Note: Abstracts will be considered only after receiving the registration fee.

**4. Important dates to remember**

Abstract submission (open) : 01.09.2019

Abstract submission (closing) : 30.11.2019

Acceptance of abstract : Within 10 days of submission

Early Bird registration : 01.09.2019 to 15.11.2019

Registration (with late fee) : 16.11.2019 to 31.12.2019

Spot registration : January 16-20, 2020

**5. Registration**

The conference will be open to the members of the Society and for those who register. The registration fee for the conference will be as follows:

**Registration Fees**

<b>Indian delegates (Rs.)</b>			
	Early bird upto 15.11.19	Late fee 16.11.19-31.12.19	Spot
IPS Members	8,000.00	9,000.00	10,000.00
Non-IPS Members	9,000.00	10,000.00	11,000.00
RA / SRF	5,000.00	6,000.00	7,000.00
Students	4,000.00	5,000.00	6,000.00
Accompanying person	5,000.00	5,000.00	5,000.00
Corporate	10,000.00	12,000.00	14,000.00
<b>Delegates from other countries (US\$)*</b>			
IPS Members	250.00	300.00	400.00
Non-IPS Members	300.00	350.00	450.00
RA / SRF	200.00	250.00	300.00
Students	200.00	250.00	300.00
Accompanying person	200.00	250.00	300.00
Corporate	350.00	400.00	500.00

\*Equivalent to prevailing exchange rate of Indian currency

\*\*Students/Research Scholar/Research Associate in Education Institution should submit eligibility document duly endorsed by the Head of the Department accompanied by photocopy of the ID Card.

The registration fee for the participants will cover participation in all scientific session, the proceedings and other printed material of the meeting, welcome reception on 16 January 2020, lunches, dinners and tea/coffee during lecture breaks

**6. Organizing committee**

The following committee were constituted for smooth conduct of the conference:

**Chief Patron**

Dr. Trilochan Mohapatra, Secretary, DARE and Director General, Indian Council of Agricultural Research, New Delhi



### Patrons

Dr. A.K. Singh, Director, ICAR-Indian Agricultural Research Institute, New Delhi

Dr. A.K. Singh, Deputy Director General (Horticultural Science & Crop Science), Krishi Anusandhan Bhawan - II, New Delhi

### Core Committee

#### Chairman

Dr. M.P. Thakur, Director (Instructions), IGKV, Raipur, Chhattisgarh - Chairman

#### Members

Dr. P.K. Chakrabarty, Member (ASRB), ICAR, New Delhi

Dr. Rashmi Aggarwal, Head & Dean & Jt. Director (Edu.), IARI, New Delhi

Dr. S.C. Dubey, Head (Plant Quarantine), NBPGR, New Delhi

Dr. Robin Gogoi, Principal Scientist (Plant Pathology), IARI, New Delhi

Dr. V.K. Baranwal, Professor (Plant Pathology), IARI, New Delhi

Dr. Vaibhav Kumar Singh, Scientist (Plant Pathology), IARI, New Delhi

#### Convener

Dr. Dinesh Singh, Principal Scientist (Plant Pathology), IARI, New Delhi

#### Organizing Secretary

Dr. Dinesh Singh, Secretary, IPS & Principal Scientist, Division of Plant Pathology, ICAR-IARI, New Delhi

#### Co-organizing Secretary

Dr. Robin Gogoi, Joint Secretary, IPS & Principal Scientist, Division of Plant Pathology, ICAR-IARI, New Delhi

### Advisory Committee

A.K. Singh, India

A.H. Rajasab, India

A.J. Gibbs, Australia

A.K. Misra, India

A.N. Mukhopadhyay, India

A.S. Indulkar, India

Abed Gera, Israel

Akhtar Haseeb, India

Akhtar Husain, India

Anupam Varma, India

ppa Rao Podile, India

Ashok Kumar Singh, India

Assunta Bertaccini, Italy

B.B. Nagaich, India

B.L. Jalali, India

B.N. Chakraborty, India

B.P. Singh, India

Bruno Moerschbacher, Germany

C. Chattopadhyay, India

C.D. Mayee, India

C.L. Jandaik, India

Casiana M. Vera Cruz, Philippines

D.K. Aggarwal, India

D.V. Singh, India

Dean W. Gabriel, USA

Dilip K. Lakshman, USA

Falko Feldmann, Germany

Farid Waliyar, Mali

G. Bagyanarayana, Indian

G.E. Harman, USA

Ganga Devi Sinniah, Sri Lanka

H.R. Pappu, USA

H.R. Sardana, India

Harbans Bariana, Australia

Indu Sawant, India

J.P. Sharma, India

J.P. Tewari, Canada

Jagdish Kumar, India

Jan Leach, USA

K.V. Prabhu, India

Kira L. Bowen, USA

Kobahashyi, Japan

Krishna V. Subbarao, USA

Kuldeep Singh, India

L.M. Bhar, India

Lava Kumar, Nigeria

M. Anandaraj, India

M.K. Naik, India

M.N. Khare, India

M.P. Srivastava, India

M.P. Thakur, India

M.R.S. Iyengar, India



M.S. Reddy, USA	S.D. Sawant, India
M.S. Swaminathan, India	S.J. Kolte, India
Monica Höfte, Belgium	S.K. Chakrabarti, India
N.K. Krishnakumar, India	S.M. Paul Khurana, India
N.K. Singh, India	S.R. Niranjana, India
N.K.B. Adikaram, Sri Lanka	S.S. Chahal, India
Neena Mitter, Australia	Serge Savary, France
P. Chowdappa., India	Shrishail S. Navi, USA
P.K. Chakrabarty, India	Suresh Pal, India
Pratibha Sharma, India	T.R. Sharma, India
Prem D. Kharbanda, USA	T.S. Thind, India
R.K. Mittal, India	U.P. Singh, India
R.N. Pandey, India	U.S. Singh, India
R.S. Mehrotra, India	V. Prakasam, India
Rajesh Malik	V.S. Thakur, India
Ramesh Chand, India	William E. Fry, USA
Robert F. Park, Australia	Y.S. Ahlawat, India
S.C. Chatterjee, India	

### Local organizing committee

Chairman: Dr. P.K. Chakrabarty

Co-chairman: Dr. Rashmi Aggarwal

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<b>Committee</b>	<b>Chairman</b>	<b>Co-chairman</b>
Scientific Programme Committee	Dr. Rashmi Aggarwal	Dr. V.K. Baranwal & Dr. V. Celia Chalam
Poster & Exhibition Committee	Dr. M.S. Saharan	Dr. M.K. Bhat
Resource Generation Committee	Dr. P.K. Chakrabarty	Dr. Dinesh Singh
Registration Committee	Dr. T. Prameela Devi	Dr. Bishnu Maya Bashyal
Transport Committee	Dr. Atul Kumar	Dr. Amalendu Ghosh
Accommodation Committee	Dr. M.S. Yadav	Dr. Deeba Kamil & Dr. Nasim Ahmad
Hall Arrangement Committee	Dr. A. Kumar	Dr. Parimal Sinha
Food Committee	Dr. T.K. Bag	Dr. Lakshman Prasad
Souvenir & Abstract Committee	Dr. S.C. Dubey	Dr. K.K. Mondal
Press and Publicity Committee	Dr. K.B. Pun	Dr. Vaibhav Kumar Singh
Cultural Committee	Dr. G.P. Rao	Dr. K.K. Biswas
Purchase Committee	Dr. Robin Gogoi	Dr. Jameel Akhtar

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Further, the matter related to the pending bills was also discussed and it was decided to settle the pending bills at the earliest and transfer the sponsorship money to the account of national symposium held at BHU, Varanasi.

The meeting ended with vote of thanks by Dr. Robin Gogoi, Joint Secretary, IPS.

## Core Committee Meeting (29.06.2019)

A meeting of the Core Committee members was held on June 29, 2019 at 11.00 AM in Committee Room, Division of Plant Pathology, IARI, New Delhi to discuss the various activities of 7<sup>th</sup> IPS International Conference on "Phytopathology in Achieving UN Sustainable Development Goals" to be held at IARI, New Delhi during January 16-20, 2020.

The following members attended the meeting:

1. Dr. P.K. Chakrabarty, President-Elect, IPS, New Delhi
2. Dr. Dinesh Singh, Secretary, IPS, New Delhi
3. Dr. Robin Gogoi, Joint Secretary, IPS, New Delhi
4. Dr. Vaibhav Kumar Singh, Treasurer, IARI, New Delhi
5. Dr. Rashmi Aggarwal, Ex-officio, IPS, New Delhi
6. Dr. V.K. Baranwal, Sr. Editor (IP), IARI, New Delhi
7. Dr. R.K. Jain, former President, IPS & Special invitee

The meeting was chaired by Dr. P.K. Chakrabarty, President-Elect, IPS. Dr. Chakrabarty expressed about feasibility, logistics and financial issues for organizing the international conference as there are many conferences are being organized during the period and also the time for organizing the conference is very short as the event is to be held in January 2020. He also expressed, if IPS and Indian Virological Society (IVS) can organize the conference together. Dr. Jain also informed that there are many back to back conferences are being organized during January-February 2020 and if possible, the dates of conference may be extended upto October/November 2020. Dr. Dinesh Singh, Secretary, IPS informed that the discussion with IVS Executive Council members on the matter has already been held and the date of the IPS conference has been kept accordingly. So the matter was not discussed further on rescheduling of date of the conference.

**The following agenda were discussed in the meeting:**

### 1. Venue of the conference

The venue of the conference will be IARI, Pusa Campus, New Delhi

### 2. Scientific session

Organizing Secretary informed the members that the consent from all the conveners of the sessions have been taken and all the conveners have been requested to send the list of speakers for Keynote address and Invited lectures.

**Speakers for Plenary & Keynote Lectures:** The name of the following renowned plant pathologists were suggested for Plenary Lecture, namely, Dr. Ramesh Sonty, Director, NIPGR, New Delhi; Dr. K.S. Subbarao, University of California, USA; Prof. Jan E. Leach, President, ISPPS, Colorado State University, USA; and Dr. Kira L. Bowen, President, American Phytopathological Society, USA.

It was further suggested that the speakers for Plenary/ Keynote lecture will be shorted out from the list of speakers shared by the conveners of the session and Organizing Secretary will send the invitation letter to Plenary/Keynote speakers.

**Convener & Co-conveners for Farmers-Scientists-Industries interface:** The committee suggested the following names, Dr. Rabindra Nath Padaria, Principal Scientist & Professor, Division of Agricultural Extension, IARI, New Delhi as Convener and Dr. Ashitabh Sanyal, Crop Life India and Dr. Ajit Kumar, UPL as Co-conveners. The Organizing Secretary will send the formal invitation letter for their consent.

The title of the session "Chemical control of plant diseases and next generation fungicides" has been modified as "Progress in chemical control of plant diseases" on request of Dr.T.S. Thind, Convener of the session.



### 3. ICAR/DARE permission status

The Secretary, IPS informed that the permission is under process and very soon, we will get the permission from DARE, Ministry of Agriculture and Farmers Welfare, New Delhi.

### 4. Revenue generation

The Secretary, IPS informed that very soon the letter to all the funding agencies will be sent after getting the permission from ICAR/DARE.

### 5. Chief guest of inaugural and valedictory session

The name of Minister of Agriculture was suggested to be the Chief Guest of the Inaugural function and Dr. Ramesh Chand, Member, Niti Aayog for Valedictory function.

### 6. Guest of honour

The following names were suggested for Guest of Honour, namely, Dr. T. Mohapatra, DG, ICAR; Dr. K.V. Subbarao, USA; FAO-India, Representative

### 7. Messages

It was discussed to seek the message from The President (Govt. of India), Agricultural Minister, Agricultural Minister for State, Co-Organizers, FAO, IPS Past Presidents, Director-NIPHM, NABARD, Secretary-DST, Secretary DBT and many more.

### 8. Publications

It was discussed and decided to publish the Souvenir and Abstract separately. Souvenir will consist of "about IPS, IARI, ICAR, about the conference, messages and extended abstracts of Plenary Lectures and advertisement of sponsors. However, the abstracts of the presentations (oral/posters) will be published in the Abstract book.

A special issue of "Kheti" in Hindi and Indian farming in English (*published by DKMA, ICAR, New Delhi*) were also proposed to be printed and distributed among the delegates.

### 9. Accommodation

It was informed that the delegates would be accommodated in the guesthouse as well as in hotels. The request to IARI and other sister institutes in the campus will be sent for guesthouse accommodation.

### 10. Website

The website for the conference will be developed and all the information regarding the conference will be available on the website. The online registration and abstract submission facility would be there on the website for easy management. The delegates will be encouraged for online registration and abstract submission. Very soon, quotations will be called by the Organizing Secretary for website designing/development.

### 11. Circular

The circular of the conference is ready to be printed and distributed among the members of the Society. Quotations for rates of printing will be called by the Organizing Secretary in consultation with purchase committee for Circular, Souvenir & Abstract Book and other printing items.

### 12. Separate bank A/c and signatories

It was discussed to open a separate account for IPS International Conference 2020. However, as per discussion with the Chartered Accountant (CA), it was suggested to keep the account of Indian Phytopathological Society for the International Conference, as, the Society's PAN number will be used for TDS by the sponsors. Dr. Robin Gogoi, Joint Secretary, IPS & Co-organizing Secretary will operate the account of the conference jointly with Organizing Secretary, Dr. Dinesh Singh, Secretary, IPS and maintain all the records and bills of expenditure related to conference and also he will prepare audit report of the expenditure with the help of CA.

### 13. Committees

The consent from the Chairperson and Co-chairperson of the Local Organizing Committee has been received. However, few of them have denied to be in the Committee due to their personal reasons. The final local organizing committee will be as follows: .

Chairman: Dr. P.K. Chakrabarty

Co-chairman: Dr. Rashmi Aggarwal

#### Scientific Programme Committee

Chairman: Dr. Rashmi Aggarwal

Co-chairman: Dr. V.K. Baranwal & Dr. Celia Chalam

**Poster & Exhibition Committee**

Chairman: Dr. M.S. Saharan

Co-chairman: Dr. M. K. Bhat

**Resource Generation Committee**

Chairman: Dr. P.K. Chakrabarty

Co-chairman: Dr. Dinesh Singh

**Registration Committee**

Chairman: Dr. Deeba Kamil

Co-chairman: Dr. Bishnu M. Bashyal

**Transport Committee**

Chairman: Dr. Atul Kumar

Co-chairman: Dr. Amalendu Ghosh

**Accommodation Committee**

Chairman: Dr. M.S. Yadav

Co-chairman: Dr. M.S. Gurjar & Dr. Nasim Ahmad

**Hall Arrangement Committee**

Chairman: Dr. A. Kumar

Co-chairman: Dr. G. Prakash

**Food Committee**

Chairman: Dr. T.K. Bag

Co-chairman: Dr. Laksham Prasad

**Souvenir & Abstract Committee**

Chairman: Dr. S. C. Dubey

Co-chairman: Dr. K.K. Mondal

**Press and Publicity Committee**

Chairman: Dr. K.B. Pun

Co-chairman: Dr. Vaibhav K. Singh

**Cultural Committee**

Chairman: Dr. K.K. Biswas

Co-chairman: Dr. Amrita Das

**Purchase Committee**

Chairman: Dr. Robin Gogoi

Co-chairman: Dr. Jameel Akhtar

**14. Press and publicity**

The members suggested to keep the members in the committee from IARI media cell.

**15. Any other item with permission of chair**

- i. **APS special joint session in the conference:** It was suggested and decided by the members to send a proposal to APS to conduct a joint session with IPS during the International conference to have larger participation from foreign delegates. The Secretary will send the formal proposal letter to the President, APS.
- ii. **Dispose-off of waste paper and old issues of journal and renovation of IPS office:** The matter was discussed in the meeting and members suggested to send a letter to all the libraries stating that few copies of *Indian Phytopathology* journal are available in the IPS office for free distribution. Interested libraries may contact Secretary, IPS to have the hard copies by paying the postal charges. This will be first cum first served basis and time bounded.

The meeting ended with vote of thanks by Dr. Robin Gogoi, Joint Secretary, IPS.



## Executive Council Meeting (23.09.2019)

The EC meeting was held on September 23, 2019 in Committee Room, Division of Plant Pathology, IARI, New Delhi and following members of the Executive Council attended the meeting, namely: Dr. M.P. Thakur, President; Dr. P.K. Chakrabarty, President-Elect; Dr. Dinesh Singh, Secretary; Dr. Robin Gogoi, Joint Secretary; Dr. Vaibhav K. Singh, Treasurer; Dr. V.K. Baranwal, Sr. Editor; Dr. Rashmi Aggarwal, Ex-officio; Dr. M.S. Yadav, Zonal President (DZ); Dr. Nasim Ahmad, Zonal Councillor(DZ); Dr. P. Kishore Varma, Zonal Councillor (CZ); Dr. Rakesh Mehra, Zonal President (NZ); Dr. Prem Lal Kashyap, Zonal Councillor (NZ); Dr. Pankaj Baiswar, Zonal President (NEZ); Dr. Tasvina R. Borah, Zonal Councillor (NEZ); Dr. Ayon Roy, Zonal Councillor (EZ); Dr. M.B. Patil, Zonal President (SZ) and Dr. Amaresh, Y.S., Zonal Councillor (SZ).

However, Other EC members namely, Drs. S.C. Dubey, Sr. Editor; T.S.S.K. Patro, Zonal President (CZ), Ved Ratan, Zonal President (MEZ), U.K. Tripathi, Zonal Councillor (MEZ), C.D. Deokar, Zonal President (WZ), V.K.Bhalerao, Zonal Councillor (WZ) and P.M. Bhattacharya Zonal President (EZ) could not attend the meeting due to their pre-occupied schedule.

Dr. M.P. Thakur, President, IPS welcome all the EC members who have taken keen interest to attend this meeting despite their busy schedule and requested Secretary to present the report as per agenda.

### Secretary's report

Dr. Dinesh Singh, Secretary-IPS presented the status of the IPS 7<sup>th</sup> International Conference:

**Circular:** Printed and distributed to the IPS members

### Technical Session

- **Plenary Lecture speakers:** confirmation for Plenary Lecture from 8 eminent speakers received covering 4 from India and 4 from abroad
- List of speakers for keynote and invited lectures, invited corporate lectures: As per the list of

speakers received from the conveners & co-conveners of the different sessions for keynote and invited lectures. The Chairperson, Technical Committee, finalized the list and Organizing Secretary sent invitation to more than 170 delegates. Until date, confirmation from 27 keynote speakers and 38 invited speakers has been received.

- EC agreed on the local hospitality (accommodation, food and local transport) to be provided during the conference to the selected delegates invited by the Society. Tentative list of delegates are as follows, who required the local hospitality/partial support from IPS, however, no international travel support will be provided to any foreign delegates:

1. Dr. Serge Savary, France - Waive-off registration fee
2. Dr. Nguyen Van Hoa, Vietnam - Local hospitality
3. Dr. Jayaraj Jayaraman, Trinidad and Tobago - Local hospitality
4. Dr. Matthew Rouse, USA - Local hospitality & waive-off registration fee
5. Dr. Jesse Poland, USA - Local hospitality & waive-off registration fee
6. Dr. Manjul Dutt, USA - Local hospitality
7. Dr. Hesham Ali Metwally Ali El-Enshasy, Malaysia - Local hospitality
8. Dr. Prem Kharbanda, Canada - 50% discount of registration fee
9. M. Catherine Aime, Indiana - Local hospitality
10. Dr. Frank Kwekucher Ackah, Ghana - Local hospitality
11. Dr. (Mrs) Juliana Astua Freites-Astua, Brazil - Local hospitality
12. Prof. N.K.B. Adikaram, Sri Lanka - Only air travel support



13. Dr. Maruthi M.N. Gowda, UK - Local hospitality
14. Dr. Laszlo Kredics, Hungary - Travel support
15. Dr. Monika Schmoll, Austria - Local hospitality
16. Dr. Ilan Chet, Israel - (confirmed but needs full support from IPS)
17. Dr. Prasun K. Mukherjee, Mumbai, India - Waive-off registration fee
18. Dr. Hideo Ishii, Japan - Local hospitality
19. Dr. Ravjit Khangura, Australia - Local hospitality
20. Dr. Akif Eskalen, US - Local hospitality
21. Dr. Indu S. Sawant, Maharashtra, India - Waive off registration
22. Dr. Mohammad Babadoost, USA - Local hospitality

**Messages:** The list of 67 dignitaries has been identified by the organizing committee from whom request has to be sent for their message. Request to the Past Presidents of the Society and Head of the Co-organizing institutions/organization has been sent and message from ISPP received.

**Accommodation/Tariff rates table:** Request letter to the concerned Guest Houses situated inside the campus have been sent for accommodation. Hotel tariffs are given in the circular with request to book their accommodation by the delegates. However, accommodation for selected invited delegates will be done by the Organizers.

**Tourism** information in brief will be given soon on the conference website

**Sponsorship & Exhibition:** The sponsorship details for corporate sponsors are given on the conference website. The exhibition details will soon available on the conference website.

Online Abstract submission and registration portal is open for registration and abstract submission.

A separate account for the International Conference in favour of "IPS Conference has been opened for the conference purpose and Dr. Dinesh Sing and Dr. Robin Gogoi are the authorized signatory of the account.

**Further detailed discussion was held on the following:**

### Fund generation

The Secretary informed that so far request letters with applications to the following organizations have been sent viz., ICAR, New Delhi, CSIR, New Delhi, NHB, Gurgaon, NABARD, Mumbai and ONGC, Faridabad. Request to SERB (DST), New Delhi, DBT, New Delhi, INSA, New Delhi and Natl. Biodiversity Authority, Chennai will be sent soon. However, EC suggested that request should also be sent to seed and fertilizer companies.

### Conference venue and hall arrangements

Secretary informed that total 7 halls viz., B.P. Pal Auditorium, NRL Auditorium, Divisional Committee Hall- Entomology, Divisional Auditorium – Plant Pathology, NCIPM Auditorium, NIPB Auditorium, Committee Room-Genetics have been booked to conduct the parallel sessions.

Dr. P.K. Chakrabarty emphasized to put more attention for the cleanliness of the washroom in various halls in the campus.

### Press and publicity committee

Dr. Vaibhav Kumar Singh informed that Media Cell has not given their consent so far and hence, IARI Media Cell (Dr. Ritu Jain) should be requested and his name should be deleted from the Press and Publicity Committee and Dr. Ritu Jain may please be included in his place.

### Food committee

Dr. T.K. Bag has denied to be the Chairman of Food Committee, hence Dr. R.K. Sharma as Chairman and Dr. Ashish Kumar Gupta as Co-chairman has been included in the food committee.

Dr. M.S. Yadav attended the APS-IPS Working Group meeting held during APS Annual Meeting in Cleveland, Ohio, August 3-7, 2019 and informed that Dr. K.S. Subbarao of APS stressed upon strict maintenance with the time of lecture. The Chairman of the Technical session needs to be communicate all the speakers about the adherence to the allotted timings. This year APS is sponsoring (travel) 2 scientists to participate in the IPS International Conference and IPS will provide local hospitality and waive of their registration fee.



### **GST – for conference account as well as for the Society A/c**

As per the suggestion from Chartered Accountant, 18% GST will be applicable on Registration fee as well as on IPS membership fee. GST number was taken for the Society.

Seed Money: An amount of Rs. 3.00 Lakh was approved by the Executive Council as seed money for IPS International Conference to do the initial expenses. This amount will be reimbursed to the Society after completion of the Conference.

The issues raised by Treasurer, Dr. Vaibhav K. Singh, regarding the unethical practices and financial irregularities was proposed to be discussed in the EC, but Treasurer did not show gesture to be present in the meeting. Rather Dr. Vaibhav K. Singh, insulted the EC by saying incompetence of the EC. He did not even maintain the conduct and decorum of the meeting and rudely talking to the EC members. The EC decided to take disciplinary action against him for his misbehavior and will issue a show-cause notice by the President-IPS and take further necessary action.

Secretary, Dr. Dinesh Singh placed the facts before the EC and explained the issues raised by the Treasurer and hence found nothing wrong.

In reference to the earlier letter for acting Dr. Robin Gogoi, Joint Secretary as Treasurer, in place of Dr. Vaibhav Kumar Singh, for smooth running of the Society, EC has approved operation of Society's Account by Dr. Robin Gogoi, Joint Secretary in place of Treasurer, Dr. Vaibhav Kumar Singh.

New Chartered Accountant has been appointed for auditing of the account for the Society and accordingly M/s T. Kohli & Co. has been approved by the EC and appointed for the purpose. The EC suggested to send the existing audit report to the new CA M/s T. Kohli & Co. for verification and finalization.

The issues of financial irregularities raised by the Treasurer, were addressed by appointing and independent CA to investigate/audit the report 2018-19 whose finding are attached herewith (Annexure I & II).

The meeting ended with vote of thanks by Dr. Robin Gogoi, Joint Secretary, IPS.

# Annual General Body Meeting

**72<sup>nd</sup> Annual General Body Meeting of the Society held at ICAR- Indian Agricultural Research Institute, New Delhi on January 19, 2020**

The Secretary welcome Dr. M.P. Thakur, President of the Society and also welcome all the members of the Society, who have shown their keen interest in the affairs of the Society to come over to attend 72<sup>nd</sup> Annual meeting at ICAR-Indian Agricultural Research Institute, New Delhi.

## Meetings held during the year 2019-20 and action taken report

The proceedings of all the meetings held during the year already shared with all Executive Council members and available on IPS website.

## Action taken report

### Institution of new award in the name of Late Dr. S. Nagarajan

The chairman had contacted the members through email and evolved the following guidelines; circulated to the members. Based on the feedback from some of

the members, the guidelines have been modified and final guidelines is given below.

### Guidelines for the IPS award of “S. Nagarajan - IPS Travel Sponsorship for Young Researchers”

#### Name of the Award

This award shall be known as “S. Nagarajan - IPS Travel Sponsorship for Young Researchers” as approved by EC and GB of IPS.

#### Purpose of the award

- i. This award shall be considered as human resource development for the future of plant pathology in the country.
- ii. The Society provides travel sponsorship to eight Ph.D. pursuing students, one each from eight zones of IPS, to promote their participation in Annual Meeting and National Symposium of the Society in India, as per terms and conditions given below.



IPS executives on dias in Annual General Body Meeting



- ii. This consists of “To and fro 3rd AC train fare “by shortest route on production of proof of travel.
- iii. Waving off of the registration fee.

#### Conditions of the Award

- i. The candidate should be below 30 years of age.
- ii. The candidate should be a member of IPS prior to the selection by the Zonal chapter
- iii. In service candidates, and candidate getting fellowship from any sources, are not eligible
- iv. Certificate of major adviser countersigned by Head of the Department/Institute shall accompany the recommendation from the Zonal chapter.

#### Eligibility of the Award

A student member of the Society pursuing PhD degree in Plant pathology from eight zones.

#### Selection of candidates and conditions for the award

- i. It is to encourage young researchers to participate in the national events of IPS from all the eight zones of the country.
- ii. The selection shall be made by the Zonal president and Zonal Councilor in consultation with the department where the student is pursuing PhD based on the information/documents submitted with application to the Zonal President.
- iii. The contest shall be in the form of presentation for ten (8+2 min) before a jury of three members appointed by the Zonal President and Secretary. The candidate shall present for eight minutes and answer questions for two minutes. The decision of the jury shall be final. Normally, second- or third-year student is preferred as there should be substantial research data to present in the annual meeting. The recommendations from the Zonal Chapters may be sent to the Secretary IPS for including in the programme.
- vi. The applicant for travel grant for IPS Annual meeting shall not be economically sound or employed anywhere or receive travel grant from other sources.
- vii. The contestant for this travel sponsorship for IPS annual meeting shall not contest for any other contest that year conducted by IPS. This is to avoid students trying for multiple awards in

the same year and to promote “one person one award” concept.

#### Administration of the Sponsorship

The concerned Zonal chapters of the society shall send nominations and shall be accepted by the Secretary IPS/Executive committee of IPS.

#### Presentation by the students

- i. The Annual meeting Technical papers screening committee may accommodate the eight candidates receiving travel sponsorship either in oral/poster session.
- ii. Each of the students nominated from the zones shall make a presentation (oral/poster) in the relevant technical sessions.
- iii. Presentation is compulsory to claim the travel sponsorship.

EC felt that fund should be generated from corporate sectors as well as also family members of late Dr. S. Nagarajan may be requested to contribute for the this award and GB agreed on the same.

**(Action: Secretary, IPS)**

#### Proposal for instituting an Award naming “Prof. A.N. Mukhopadhyay Oration Award” for Innovation in Biointensive Management of Plant Diseases

Committee Members

Chairman : Dr. M. Anandaraj

Members : Dr. Rakesh Mehra, Dr. Robin Gogoi, Dr. M.S. Yadav, Dr. Vaibhav K. Singh

#### Recommendation of the committee:

#### Guidelines for “Prof. A.N. Mukhopadhyay Oration Award for Innovation in Biointensive Management of Plant Diseases”

#### Name of the Award

Prof. A.N. Mukhopadhyay Oration Award for Innovation in Biointensive Management of Plant Diseases

#### Donor of the Award

Dr. A.N. Mukhopadhyay

#### Value of the Award

Shawl, memento, TA/DA (2<sup>nd</sup> AC Train/economy class



airfare) and Rs. 20,000 in cash out of Interest of the endowment amount

### Periodicity of the Award

The Award shall be made once in **two years**

### Administration of the Award

The Society shall have the sole right of selection of the recipient of the award and of the formulation of rules governing such selection

### Eligibility of the Award

This award to be Biennial in nature for scientists of **55** years or above holding permanent position and having at least ten (10) years of IPS Life Membership.

### Objective of the Award

- i. To provide recognition to outstanding plant pathologist for Innovation in Biointensive Management of Plant Diseases
- ii. To provide incentive for excellence in research
- iii. To promote quality of research

### Nomination Procedure

IPS will invite applications for awards

- i. **Nomination from Fellows:** The members of the Society who wish to apply for the award given by the Society can file their application. The application for the award should be as per the format given by the Society which should be duly proposed and seconded by two Fellows of IPS. A fellow can propose/recommend maximum of two candidates in a year. One member can apply for only one award in a year.
- ii. **EC Nomination:** The Executive Council (EC) may also nominate candidates for "Prof. A.N. Mukhopadhyay Oration Award for Innovation in Biointensive Management of Plant Diseases". Such nominees need not to be proposed and seconded by the fellows of the Society.

### Procedure for selection of Recipients

- i. Nominations received will be scrutinized by a preliminary Screening Committee, which will select 5 names for further recommendation by the Judging Committee.
- ii. Judging Committee will recommend one name to the Secretary in a sealed envelope.
- iii. Any member of the Society, who has filed his/her nomination for any award should not be the

member of either Screening or Judging Committee during the year.

- iv. Secretary, IPS will place the result before the EC for approval and subsequently in GB for declaration.
- v. While evaluating the NAAS score for publication, the rating for the year of application may be considered.

### Presentation of the Award

- i. After the acceptance of the names (by the Award Recommendation Committee) by the Executive Council, it will be reported to the General Body. The Society will inform the recipient of his/her selection and request him/her to deliver a lecture in the next annual meeting of the Society. The lecture be printed in the Journal (Indian Phytopathology) and it should be not exceed 10 printed pages.
- ii. If a person selected for the lecture award is unable to deliver the lecture due to illness or other unavoidable circumstances during that year, he may deliver the lecture in the following year. However, the award will lapse, if the person is unable to deliver the lecture in the following year also.

EC recommended the guidelines as mentioned above and GB approved the same.

### IPS 7<sup>th</sup> International Conference: "Phytopathology in Achieving UN Sustainable Development Goals"

Inaugural function of the 7<sup>th</sup> International Conference on "Phytopathology in Achieving UN Sustainable Development Goals" organized by the Indian Phytopathological Society (IPS) was held at Dr. B. P. Pal Memorial Auditorium of ICAR-Indian Agricultural Research Institute (IARI), New Delhi. At the very outset, Dr. M.P. Thakur, President, IPS, welcomed the dignitaries and the delegates from 24 countries attending the conference and talked of plant health, soil health and animal health to take care of human health. Dr. Dinesh Singh, Secretary, IPS, briefed the august gathering with history and the activities undertaken by the society. Dr. P.K. Chakrabarty, President (Elect), IPS & Member, Agricultural Scientist Recruitment Board in his deliberation stated that among the factors that contributed for low yields in



leading crop plants are biotic and abiotic stresses and plant protection is of paramount importance to bio-security. Among the biotic stresses, diseases caused by plant pathogens are existential threat to agriculture. Dr. Chakrabarty reiterated a recent report that highly-productive countries such as Brazil, China, India, Indonesia and the Philippines are likely to be harbouring hundreds more crop pests and diseases than currently known. With advancement in science and technology especially the Omics tools, the world is experiencing new era in the field of plant pathology. Dr. Serge Savary, Editor-in-Chief, Food Security & Ex-Vice-President, International Society for Plant Pathology, France graced the occasion as the Guest of Honour. In his address, he stated that ecosystem strategy need to be adopted to produce nutrition-rich food which, in turn, will help achieving food security. He further added that India had a massive challenge to feed 1.3 billion people with nutritious food. Dr. A.K. Singh, DDG (Agril. Extension) & Director, ICAR-IARI presiding over the function, deliberated that to feed ever growing 1.3 billion population of India, plant protection is of prime importance as, on an average, the crop losses due to diseases, insect pests and weeds are estimated to range from 15 to 25% of crop production. Though, importance of pesticides and chemicals in achieving food goals cannot be denied, it was also equally important to consider soil health, animal health and human health while devising plant protection strategies. Of the diverse components of disease management, bio-control is important. But, notwithstanding their efficacy, bio-control formulations have only an inadequate share in the national pesticide scenario. How to make bio-control more effective, feasible and popular, strategies need to be reviewed thoroughly? Dr. A.K. Singh, DDG (Horticulture & Crop Science), ICAR and the Chief Guest of the occasion told that the manifold increase in food grain production from 50.82 million tonnes in 1950-51 to 281.37 million tonnes in 2018-19 have been possible due to strong policy decisions of the Government of India & generation of the tools and technologies by the researchers and the development and deployment of varieties with genes for higher yield and resistance. Government of India has set goals to

double the farmer's income by 2022 and also to increase our agri-export earnings. To achieve this daunting task, newer tools and technologies, viz., ICP, digital agriculture IoT etc., being developed have to get adopted in the field for which our farmers have to be educated and trained in the use of these new tools and technologies. For increasing the agri-export, our produce has to be cost and quality competitive and should be nutrition-rich and free of pesticidal contaminants. Thereafter, IPS conferred awards to eminent past and present researchers in the field of Plant Pathology in nine different categories, namely, A.P. Misra Life Time Achievement Award, Indian Phytopathological Society Recognition Award, Mundkur Memorial Award, S.N. Dasgupta Memorial Award, M.K. Patel Memorial Young Scientist Award, J.F. Dastur Memorial Award, Sharda Lele Memorial Award, K.C. Mehta and Manoranjan Mitra Award and D.P. Misra and R.N. Pandey IPS Best Women Scientist Award. The session ended with vote of thanks from Dr. Rashmi Aggarwal, Dean and Joint Director (Edn.), IARI, New Delhi.

Altogether 708 delegates from 24 countries participated in this mega-event of which 40 delegates were from outside India. There were 60 farmer delegates from different states of India also participated in Scientist -Industry-Farmers Interface on 19<sup>th</sup> January, 2020. During the 4 days' long (from Jan 16 to 19, 2020) conference, 21 technical sessions on 21 different themes were conducted. There were 8 plenary speakers, 49 keynote speakers, 76 invited speakers, 130 oral speakers and 423 poster presentations presented in the conference.

Valedictory function of the conference was held at Dr. B.P. Pal Memorial Auditorium, ICAR-Indian Agricultural Research Institute, New Delhi on 19<sup>th</sup> Jan., 2020. Dr. M.P. Thakur, President, IPS, welcomed the dignitaries on the dais and off the dais from 24 countries of the world attending the 7<sup>th</sup> International Conference. In the valedictory function, Dr. C.D. Mayee was Chief Guest and Dr. A.N. Mukhopdhyay and Dr. Anupam Varma were Guest of Honours in the function. Dr. Ashok Kumar Singh, Director, ICAR-IARI, New Delhi was presided over the function, who in his address emphasized on the need of institutional reform for human resource development by exposing the young



scientists to the best of the laboratories and research environment outside the country. He also urged the scientists to make endeavours to meet the challenge of increasing country's agri-export earnings from the present 39 billion US \$ to 80 billion US \$. To achieve this daunting task, our produce for agri-exports must be either free of pesticidal contaminants or below maximum residue limit set by international standards. He further added about the scope of using gene editing tools for making variants of genes of resistance.

The Chief Guest, Dr. C.D. Mayee, Former Chairman, Agricultural Scientists Recruitment Board (ASRB), New Delhi expressed his concern on the use of chemical pesticides in plant disease management. He informed that the researchers were also less oriented towards chemical management of plant diseases which was evidenced by the fact that only about 10 per cent of papers presented in this conference were on chemical management as against 52 per cent of the papers in the 1<sup>st</sup> International Conference of IPS organized way back in 1966.

The Guest of Honour, Dr. Anupam Varma, an Eminent Virologist of international repute, told about the need to produce more food combating various emerging and re-emerging diseases and by adopting natural farming ways. The Guest of Honour, Dr. A.N. Mukhopadhyay, Former Vice-Chancellor, Assam Agricultural University, Jorhat (Assam) urged upon the plant pathologists to focus their research on a few national problems of importance.

Earlier, Dr. Rashmi Aggarwal, Dean & Joint Director (Edn), ICAR-IARI, New Delhi placed the technical report of the Conference in front of the august gathering. The technical report comprised of 33 recommendations which emerged out of discussions in different technical sessions. The recommendations endorsed upon the need (i) for establishment of National Plant Pests Diagnostics Network to ensure bio-security in Indian agriculture, (ii) for strict regulations for manufacturing, distribution and licensing of pesticides to avoid residual toxicity, (iii) to study the involvement of major dominant genes for disease resistance and to incorporate these genes in breeding programme, (iv) to identify novel bio-control agents and to validate the technologies developed against seed and soil-borne disease, and (v) to quantify

abrupt climate variables with respect to emerging diseases.

Dr. P.K. Chakrabarty, President (Elect), IPS & Member, ASRB emphasized that IPS has to play a greater role in bringing desired changes in the plant protection scenario of the country and has to develop greater linkages with other national and international societies.

IPS felicitated the representatives of thirteen co-organizers of this international event.

**Seed money:** An amount of Rs. 3.00 Lakh was approved by the Executive Council as seed money for IPS International Conference to do the initial expenses. This amount will be reimbursed to the Society after completion of the Conference.

EC agreed on the local hospitality (accommodation, food and local transport) to be provided during the conference to the selected delegates invited by the Society. Tentative list of delegates are as follows, who required the local hospitality/partial support from IPS.

1. Dr. Serge Savary, France - Waive-off registration fee
2. Dr. Laetitia Willocquet, France - Waive-off registration fee
3. Dr. Nguyen Van Hoa, Vietnam - Local hospitality
4. Dr. Matthew Rouse, USA - Local hospitality & waive-off registration fee
5. Dr. Jesse Poland, USA - Local hospitality & waive-off registration fee
6. M. Catherine Aime, Indiana - Local hospitality
7. Dr. Laszlo Kredics, Hungary - Only Travel support & waived off registration fee
8. Dr. Prasun K. Mukherjee, Mumbai, India - Waive-off registration fee
9. Dr. Ravjit Khangura, Australia - Local hospitality
10. Mohammad Babadoost, USA - Local hospitality
11. Dr. Mahaveer P. Sharma, Indore, India - Waive-off registration fee
12. Dr. Sai Sree Uppala, Massachusetts - Local hospitality
13. Dr. R.N. Pandey, Gujarat, India - Regn. waived-off, Travel & Local hospitality
14. Prof. S.R. Niranjana, Karnataka, India - Regn. waived-off, Travel & Local hospitality



15. Prof. S.S. Chahal, Punjab, India - Regn. waived-off & Local hospitality
16. Dr. A.K. Misra, Uttar Pradesh, India - Regn. waived-off, Travel & Local hospitality
17. Dr. G.S. Saharan, Haryana, India - Regn. waived-off, Travel & Local hospitality
18. Prof. (Dr.) Naresh K. Mehta, Haryana, India - Regn. waived-off, Travel & Local hospitality
19. Prof. T.S. Thind, Punjab, India - Regn. waived-off & Local Hospitality
20. Dr. V.S. Thakur, Himachal Pradesh, India - Regn. waived-off & Local Hospitality
21. Prof. A.N Mukhopadhyay, Uttar Pradesh, India - Regn. waived-off & Travel, Local Hospitality
22. Dr. C.D. Mayee, Maharashtra, India - Regn. waived-off, Travel & Local hospitality
23. Dr. D.K. Yadav, New Delhi, India - Regn. waived-off
24. Dr. D.S. Singh, Uttar Pradesh, India - Regn. waived-off
25. Dr. D.V. Singh, New Delhi, India - Regn. waived-off
26. Dr. J.P. Sharma, New Delhi, India - Regn. waived-off
27. Dr. K.V. Prabhu, New Delhi, India - Regn. waived-off
28. Dr. N.K. Singh, New Delhi, India - Regn. waived-off
29. Dr. R.C. Aggarwal, New Delhi, India - Regn. waived-off
30. Dr. R.K. Jain, New Delhi, India - Regn. waived-off
31. Dr. R.K. Mittal, Uttar Pradesh, India - Regn. waived-off
32. Dr. Rajan, New Delhi, India - Regn. waived-off
33. Dr. S.C. Chatterjee, New Delhi, India - Regn. waived-off
34. Dr. S.M. Paul Khurana, Haryana, India - Regn. waived-off
35. Prof. Anupam Varma, New Delhi, India - Regn. waived-off
36. Dr. R.S. Chauhan - Regn. waived-off & Local transport
37. Dr. A.K. Saxena, Karnataka, India - Regn. waived-off, Travel & Local hospitality

38. Dr. Ankur Tyagi - Regn. waived-off
39. Ms. Indu Kapoor - Regn. waived-off
40. Dr. S.D. Somwanshi, Maharashtra, India - Regn. waived-off
41. Dr. R. Viswanathan, Tamil Nadu, India - Regn. waived-off
42. Dr. S. Umesh, Karnataka, India - Regn. waived-off
43. Dr. Suseelendra Desai, Telangana, India - Regn. waived-off

### **GST – for conference account as well as for the society A/c**

As per the suggestion from Chartered Accountant, 18% GST will be applicable on Registration fee as well as on IPS membership fee. Secretary, IPS informed the GB members that GST number (07AAAAI2475R1Z9) has taken for the Society and the same was approved by GB.

### **Case of Dr. Vaibhav Kumar Singh**

The issues raised by Ex- Treasurer, Dr. Vaibhav K. Singh, regarding the unethical practices and financial irregularities was proposed to be discussed in the EC, but Treasurer did not show gesture to be present in the meeting. Rather Dr. Vaibhav K. Singh, insulted the EC by saying incompetence of the EC. He did not even maintain the conduct and decorum of the meeting and rudely talking to the EC members. The EC decided to take disciplinary action against him for his misbehavior and a show-cause notice was issued with the approval of the President-IPS, and subsequently his primary membership of the Society was withdrawn.

The EC recommended and GB unanimously approved the removal of Dr. Vaibhav K. Singh from his primary membership of the Indian Phytopathological Society, New Delhi w.e.f. November 01, 2019.

In reference to the earlier letter for acting Dr. Robin Gogoi, Joint Secretary as Treasurer, in place of Dr. Vaibhav Kumar Singh, for smooth running of the Society, EC has approved operation of Society's Account by Dr. Robin Gogoi, Joint Secretary in place of Treasurer, Dr. Vaibhav K. Singh and the same was approved by the GB.



New Chartered Accountant has been appointed for auditing the account of the Society and accordingly M/s T. Kohli & Co. has been approved by the EC and appointed for the purpose. The EC suggested to send the existing audit report to the new CA, M/s T. Kohli & Co. for verification and finalization.

The audited account of the Society has been verified by the newly appointed Chartered Accountant, M/s T. Kohli & Co. and it has been certified that the financial statements for the year 2018-19 have been prepared in accordance with the general accepted accounting principles and the financial statements prepared are in conformity with the books of accounts of the Society and submitted the report of the society for office purpose.

### Report of visit to Registrar office on 27<sup>th</sup> December 2019

As per the written instruction given by President, IPS, Secretary, IPS appeared for personal hearing on behalf of the President, to the Registrar of the Society. The next hearing has been scheduled on 17<sup>th</sup> February 2020 to submit reply of the complaint lodged by Dr. Vaibhav Kumar Singh.

The Secretary also collected the copies of the complaint lodged by Dr. Vaibhav Kumar Singh, former Treasurer of the Society. It is requested to depute office bearer of the Society to present on 17<sup>th</sup> February, 2020 before the court of Registrar of the Society and submit the reply on that date.

It was also informed informally by the office bearer of court that Dr. Vaibhav Kumar Singh has also filed the petition to High Court against the following:

1. NCT of Delhi, Through Secretary, Secretariat, New Delhi
2. Govt. of NCT of Delhi, Through Registrar of Society, Officer of District Magistrate, New Delhi District. 12/1, Jam Nagar House, Shahjahan Road, New Delhi
3. Prof. M.P. Thakur, President, Indian Phytopathological Society, Division of Plant Pathology, Indian Agricultural Research Institute, New Delhi
4. Dr. Dinesh Singh, Secretary, IPS, Division of Plant Pathology, Indian Agricultural Research Institute, New Delhi

5. Dr. Robin Gogoi, Joint Secretary, IPS, Division of Plant Pathology, Indian Agricultural Research Institute, New Delhi

Secretary informed EC members and GB members to depute the office bearer of the Society to appear for next hearing in the High Court as well in Registrar Office accordingly. Although, the Society did not receive any notice regarding the case in the High Court filed by Dr. Vaibhav Kumar Singh, Former Treasurer. The date of hearing in the High Court was 10<sup>th</sup> January 2020.

EC recommended to appoint a legal advisor (Lawyer) to take care of all the issues related to the Registrar office and High Court and GB approved the appointment of legal advisor (Lawyer) to take care of all the issues related to the society.

## II. Publications

### Journal: *Indian Phytopathology*

Secretary informed the GB members that all the three issues (March, June, September) are published available online.

The Special issue on "Advances in Fusarium Research" is also published and available online.

### IPS Newsletter - Indian Phytopath News

Secretary informed the GB members that 3 issues of Newsletter published timely and are available online on IPS website in pdf form.

**The Newsletter consisted of news items, viz., Research Highlights, Activities:** Seminar/symposia/brain storming sessions/conferences /Trainings attended/conducted; Forth-coming events, Awards/Honours received and Miscellaneous: Promotion/transfer/ Necrology/ Foreign visit/ important news (world-wide) related to plant pathology, disease outbreak etc. etc.

1. IPS Annual Report (2018-19) has been compiled and published and is available on IPS website.
2. Major Accomplishments of the Indian Phytopathological Society (2017-19) has been published and distributed to all IPS members during conference.

### iii. Symposia/Seminar/Brain storming session/ special symposium organized



## Activities: Symposia/Seminar/Lectures (2018-19)

### Zonal chapters activities

Out of eight zones, 7 zones have organized zonal chapter national symposium in their respective zones. The zonal presidents were requested to brief about their symposium and share the receipt and payment accounts.

#### Eastern Zone : Nov 5-6, 2019

**Topic:** Mitigating Biotic Stresses in Agriculture for 21<sup>st</sup> Century: Changing Market Paradigm

**Venue:** Uttar Banga Krishi Viswavidyalaya Coochbehar, West Bengal

#### North Eastern : Nov 6-7, 2019

**Topic:** Sustainable Plant Health Management in North-east India

**Venue:** ICAR Research Complex for NEH Region, Umiam, Meghalaya

#### Mid-Eastern : Nov 25-26, 2019

**Topic:** Plant Health Management for Eco Friendly and Sustainable Agriculture

**Venue:** CSA University of Agriculture & Technology, Kanpur, Uttar Pradesh

#### Southern : Nov 28-29, 2019

**Topic:** Transdisciplinary Plant Pathological Research – The Way Ahead

**Venue:** Agricultural Extension Education Centre (UAS, Raichur), Koppal, Karnataka

#### Central : Dec 12, 2019

**Topic:** Challenges and Opportunities in Plant Pathology

**Venue:** Andhra University Visakhapatnam, Andhra Pradesh

#### Delhi : Dec 21, 2019

**Topic:** Bio-intensive Approaches for Management of Crop Diseases

**Venue:** Division of Plant Pathology, IARI, New Delhi

#### Northern : Jan 9-10, 2020

**Topic:** Plant Disease Management for Food Security Under Climate Change Scenario

**Venue:** ICAR-IIWBR, Karnal

### Treasurer's report

The financial report was presented by the Dr. Robin Gogoi, Joint Secretary cum Treasurer, IPS. A marked improvement in collection of fund has been achieved during this period and Society is in sound financial position.

### Chief editor's report

The report was presented by the Dr. S.C. Dubey on behalf of Chief Editor, IPS. He informed that all the four issues of the journal *Indian Phytopathology* 2019 and a special issue on "Advances in Fusarium Research" have been published and available online for members. Further, during 2019-20, total 339 papers were received through on-line submissions. Out of these, 109 were rejected, 96 published, 134 are in review. 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. He also appreciate the efforts rendered by Editors, especially helped in refereeing and evaluation of the manuscripts.

### Future activities 2019-20

#### Venue and dates for IPS National Symposium 2020-21

Proposal from Prof. M.R. Khan, Dean, Faculty of Agricultural Sciences, AMU, Aligarh received to organize the forth-coming national symposium of the Society 2020-21. The matter was discussed in the EC and EC felt that new EC will take suitable decision in coming Mid-term EC meeting and the same opinion was also of all GB members.

#### Renewal of APS-IPS MoU

EC agreed and GB approved the further renew to foster collaboration between two professional societies and also to facilitate exchange of ideas, knowledge and scholarly work related to plant pathology.

#### Collaboration with Society for Green World & Sustainable Development (SGWSD), Jhansi, UP

Proposal from Dr. H.D. Bhartiya, Secretary (SGWSD) was received to collaborate Indian Phytopathological Society, New Delhi with the Society for Green World & Sustainable Development, Jhansi, UP in organizing the International Conference on "Biodiversity: Climate



change and sustainable management of natural resources” during November 2020 at Khajuraho (MP). The EC recommended the proposal and GB approved the same without any financial commitment from IPS.

## Awards

### Award declaration (2019-20)

EC recommended and GB approved the names for following awards as given below:

#### 1. A.P. Misra Lifetime Achievement Award

Prof. B.L. Jalali

#### 2. S.P. Raychaudhuri Memorial Lecture

Dr. M. Anandaraj

#### 3. IPS Recognition Award

- (i) Dr. Basant Ram
- (ii) Dr. H. Shekar Shetty
- (iii) Dr. R.P. Thakur
- (iv) Dr. Srikant Kulakarni

#### 4. Mundkur Memorial Award

Dr. C. Chattopadhyay, Coochbehar, West Bengal

#### 5. M.S. Pavgi Memorial Award

Dr. R. Viswanathan, Tamil Nadu

#### 6. JP Verma Memorial Award

Dr. D.K. Jha, Gauhati

#### 7. B.N. Chakraborty and Usha Chakraborty IPS Best Teacher Award

Dr. Robin Gogoi, New Delhi

#### 8. J.F. Dastur Memorial Award

Dr. Kajal Kumar Biswas, New Delhi

#### 9. M.K Patel Memorial Young Scientist Award

Dr. G. Prakash, New Delhi

#### 10. K.C. Mehta and ManoranjanMitra Award

Dr. Apurba Kumar Chowdhury, Pundibari, WB

#### 11. Sharda Lele Memorial Award

Prof. V. Devappa, UHS, Bengaluru

#### 12. S. Sinha Memorial Award

Dr. Pramod Gupta, Jabalpur

#### 13. Fellow of Indian Phytopathological Society (FPSI) 2019

- (i) Dr. Ritu Mawar, CAZRI, Jodhpur
- (ii) Dr. D.K Banyal, CSKHPKV, Palampur
- (iii) Dr. Manas Kumar Bag Cuttack, Odisha

- (iv) Dr. M.S. Saharan, New Delhi
- (v) Dr. Sushil Kumar Singh, Ayodhya
- (vi) Dr. S.K. Tripathi, Rewa, M.P.
- (vii) Dr. S.H. KulKarni, Dharwad, Karnataka
- (viii) Dr. Rupankar Bhagawati, Kamrup, Assam
- (ix) Dr. Hirendra Kumar Chourasia, Bhagalpur
- (x) Dr. Sanjay Kumar Singh, Samastipur, Bihar
- (xi) Dr. P.D. Meena, Rajasthan
- (xii) Dr. A.K. Vijayan, (ICRI) Myladumpara
- (xiii) Dr. Deeba Kamil, New Delh
- (xiv) Dr. Jameel Akhtar, NBPGR, New Delhi

#### MJ Narasimhan Medal for Best Research Paper published in Indian Phytopathology (2018)

Pathogenic variability in *Phytophthora capsici* from black pepper (*Piper nigrum* L.) as revealed by transcriptome analysis - Anandaraj M., Vinitha Kakkattil Balakrishnan, Umadevi Palaniyandi, Monica V. Chandran

#### Prof. M.J. Narasimhan Academic Merit Award 2019-20

Total 10 candidates from different zones are participating in the Prof. M.J. Narasimhan Academic Merit Award 2019-20. The judging committee has recommended the name of Mr. Ankit Kumar Ghorai, Department of Plant Pathology, Bidhan Chandra Krishi Viswavidyalaya, Mohanpur, Nadia for presentation of the paper “Population structure analysis of *Ralstonia solanacearum* in West Bengal, India and influence of crop rotation on its survival in the rhizospheres of various crops” for the MJ Narasimhan Academic Award, 2019.

#### APS Travel Sponsorship 2020

This year total 3 candidates participated for APS Travel Sponsorship and all the names are recommended for APS Travel Sponsorship and the name of final winner will be selected by APS.

**CZ:** Praveen, B., Agricultural College, Bapatla, ANGRAU, Guntur, Andhra Pradesh

Studies on Cercospora Leaf Spot of Greengram In Relation To Weather, Host Plant Resistance and Disease Management

**DZ:** V. Kavi Sidharthan, Division of Plant Pathology, ICAR-Indian Agricultural Research Institute, New Delhi Unravelling the virome of Indian grapevines (*Vitis*



*vinifera* L.) through comparison of mRNA and sRNA viromes

**DZ: Darshan K**, Division of Plant Pathology, ICAR-Indian Agricultural Research Institute, New Delhi  
Transcriptomic and Metabolomic approaches to unravel the antagonistic mechanism of *Chaetomium globosum* against *Bipolaris sorokiniana*

### Composition of executive council (2020)

As per the election result declared the new elected Executive Council are as follows:

President (2020): Dr. P.K. Chakrabarty

President Elect (2020): Dr. Pratibha Sharma

Secretary (2020-22): Dr. Robin Gogoi

Joint Secretary (2020-22): Dr. Kalyan K. Mondal

Treasurer (2020-22): Dr. M.S. Gurjar

Zonal President (Delhi Zone): Dr. T. Prameela Devi

Zonal Councillor (Delhi Zone): Dr. Deeba Kamil

Zonal President (Southern Zone): Dr. P. Nallathambi

Zonal Councillor (Southern Zone): Dr. C. Uma Mahewari

Zonal President (North-Eastern Zone): Dr. N. Tiameren

Zonal Councillor (North-Eastern Zone): Dr. Sushant Banik

Zonal President (Western Zone): Dr. R.M. Gade

Zonal Councillor (Western Zone): Dr. D.L. Wasule

Zonal President (MEZ): Dr. M.R. Khan

Zonal Councillor (MEZ): Dr. Mansoor Ahmad

Zonal President (NZ): Dr. Jaspal Kaur

Zonal Councillor (NZ): Dr. Abhishek Sharma

Zonal President (CZ): Dr. B. Srinivasulu

Zonal Councillor (CZ): Dr. K. Sessa Kiran

Zonal President (EZ): Dr. Arup K. Mukherjee

Zonal Councillor (EZ): Dr. M.K. Bag

### The following decision were taken and approved by the general body.

**(i) Re-initiation of cash prize for AP Misra Lifetime Achievement Award (request received from donor, Dr. A.K. Misra)**

The EC agreed on cash prize of Rs. 10,000.00 to be given to the awardee annually, however, the matter was re-discussed in GB and GB agreed to increase cash prize from Rs. 10,000.00 to Rs. 15,000.00 to the awardee.

### (ii) Resolution

President should be vested with the power to drop a person from primary membership of the Society in consultation with Executive Council members

The above point is already mentioned in the Byelaws of the Society (Article 9: Meetings of the Executive Council, No. iii: *On any emergent issue, the President in consultation with the Secretary shall be empowered to take decisions subject to subsequent approval by the members of the Executive Council*).

### (iii) Formation of a High Level Committee to Review and Revise the Byelaws of the Society

The committee of the following members has been constituted by the EC to Review and Revise the Byelaws of the Society was earlier revised in February 1996.

Prof. A.N. Mukhopadhyay - Chairman

Prof. C. Manoharachary - Member

Dr. S.S. Chahal - Member

Dr. B.L. Jalali - Member

Dr. C.D. Mayee - Member

Ex-officio (Head, Plant Pathology) - Member

President, IPS - Member

Secretary, IPS - Member Secretary

GB also felt that some more member may be included like representation of women and mid age scientist in the committee. EC may decide as per requirements as opted members later.

### Acknowledgements

The Secretary to thank and express sincere gratitude to Dr. M.P. Thakur, President-IPS for his guidance, advice, encouragement and support in day to day functioning of the Society and also thankful to all the Executive Council members for their cooperation, active support and suggestions in various activities of the Society. He also thank profusely to Dr. P.K.

Chakrabarty, Chairperson, Local Organizing Committee, Dr. Rashmi Aggarwal, Co-chairperson, Local Organizing Committee and Dr. Robin Gogoi, Co-organizing Secretary of the Conference; Chairman, Co-chairman and rapporteurs of various technical sessions and members of organizing sub committees for their wholehearted support in making the 72<sup>nd</sup> Annual Meeting and International Conference a grand success. He also thanks to all the staff members and students for rendering their valuable help in various ways for making the symposium success. Last but not least, thanked to the staff of the Headquarter of IPS for their valuable support. The Society is thankful for co-organizing institutions/societies, viz., APS: American Phytopathological Society, USA; ICAR-NIPB: National Institute for Plant Biotechnology, New Delhi, India; ICAR-NBGR: National Bureau of Plant Genetic Resources, New Delhi, India; ICAR-IARI: Indian Agricultural Statistics Research Institute, New Delhi, India; Asian PGPR Society, USA; ISMPP: Indian Society of Mycology and Plant Pathology, Udaipur, Rajasthan, India; SLAMPP: Sri Lanka Association for Mycology & Plant Pathology, Sri Lanka; INSOPP: Indian Society of Plant Pathologists, Ludhiana, Punjab, India; ICAR-NCIPM: National Research Centre for Integrated Pest Management, New Delhi, India; ICAR-NIAP: National Institute of Agricultural Economics and Policy Research, New Delhi, India; APP: Association of Plant

Pathologist, Akola, Maharashtra, India; SABC: South Asia Biotechnology Centre, New Delhi, India; FARMER: Foundation for Agricultural Resources Management and Environmental Remediation, Ghaziabad, U.P., India and ISPP: International Society of Plant Pathology, USA for their cooperation and collaboration for organizing the international conference at IARI, New Delhi. The financial support extended by the ICAR: Indian Council of Agricultural Research, New Delhi; SERB: Science and Engineering Research Board (DST), New Delhi; NBA: National Biodiversity Authority, Chennai, TN; NHB: National Horticulture Board, Gurugram; NABARD: National Bank for Agriculture and Rural Development, Mumbai; CSIR: Council of Scientific and Industrial Research, New Delhi; ONGC: Oil and Natural Gas Corporation, Faridabad; Department of Horticulture and Farm Forestry, Raipur, Chhattisgarh; NSC: National Seeds Corporation, New Delhi; Dhanuka Agritech Ltd., New Delhi; IFFCO, New Delhi and ADAMA, Hyderabad for organizing IPS 7<sup>th</sup> International Conference at IARI Campus, New Delhi during January 16-20, 2020 are gratefully acknowledged. The Society also acknowledges the Indian Council of Agricultural Research (ICAR), New Delhi financial support for publication of Indian Phytopathology during 2019-20. The general body meeting ended with vote of thanks by Dr. Robin Gogoi, Joint Secretary of the Society.



72<sup>nd</sup> Annual General Body Meeting of the Society held at ICAR-IARI, New Delhi, January 19, 2020



# Activities

The Society organized the following Zonal Chapter Symposia and International Conference during 2019-20

Activity	Date	Title	Venue	No. of delegates
<b>Zonal Symposia</b>				
<b>Eastern</b>	Nov 5-6, 2019	Mitigating Biotic Stresses in Agriculture for 21st Century: Changing Market Paradigm	UBKV, Coochbehar West Bengal	65
<b>North-Eastern</b>	Nov 6-7, 2019	Sustainable Plant Health Management in North-east India	ICAR-RC-NEH Region Umiam, Meghalaya	100
<b>Mid-Eastern</b>	Nov 25-26, 2019	Plant Health Management for Eco Friendly and Sustainable Agriculture	CSAUA&T, Kanpur, Uttar Pradesh	150
<b>Southern</b>	Nov 28-29, 2019	Transdisciplinary Plant Pathological Research – The Way Ahead	Agricultural Extension Education Centre (UAS, Raichur), Koppal Karnataka	135
<b>Central</b>	Dec 12, 2019	Challenges and Opportunities in Plant Pathology	AU, Visakhapatnam Andhra Pradesh	115
<b>Delhi</b>	Dec 21, 2019	Bio-intensive Approaches for Management of Crop Diseases	ICAR-IARI, New Delhi	130
<b>Northern</b>	Jan 9-10, 2020	Plant Disease Management for Food Security Under Climate Change Scenario	ICAR-IIWBR, Karnal	92
<b>7th International Conference</b>	Jan 16-20, 2020	Phytopathology in Achieving UN Sustainable Development Goals	ICAR-IARI, New Delhi	708
<b>Total</b>				<b>1495</b>

# Eastern Zone

Zonal President: Dr. P.M. Bhattacharya

Zonal Councillor: Dr. Ayon Roy

## Eastern Zone Meeting and National Symposium on “Mitigating Biotic Stresses in Agriculture for 21st Century: Changing Market Paradigm” held at Uttar Banga Krishi Viswavidyalaya, Coochbehar, West Bengal, November 05-06, 2019

Global climate change is a major topic of discussion within both political and scientific forum. Various steps and initiatives has been taken to mitigate climate change in agriculture through altered practices. The change in the agricultural practices in modern times have its own effects on the ecology and environment of the pests in general and microbes and pathogens in particular. A clear insight into the microbial dynamics under changing agricultural technologies becomes an important pillar towards sustainability of the technology. On the other hand, today the agriculture being market driven, the demand factor is becoming important day by day and the research objectives are now re- oriented accordingly. Both, input and output market has a clear influence on the changing paradigm in agricultural technologies, where the role of policy makers, academicians and private or industrial partners becomes important. Probably, now it is the apt time

to join hands to deliver technologies economically and ecologically sustainable for the farming community working in their respective systems. Compared with major technological, environmental and socio-economic change affecting agricultural production during the next century, climate change may be less important; it will, however, add another layer of complexity and uncertainty onto a system that is already exceedingly difficult to manage on a sustainable basis.

In view of the above, Uttar Banga Krishi Viswavidyalaya, located in the far east of India organised a National Symposium entitled “Mitigating Biotic Stresses in Agriculture for 21<sup>st</sup> Century: Changing Market Paradigm” and East Zone meet of Indian Phytopathological Society on November 5-6, 2019 at Uttar Banga Krishi Viswavidyalaya, Pundibari,



Inaugural session of the Eastern Zone Symposium



Coochbehar. The symposium was organized with a broad objective to bring researchers, industries and policy makers together on a common platform to come out with recommendations for the future agriculture of the region.

The symposium was organized under the following themes:

- i) Diagnosis and detection of biotic stresses
- ii) Ecological relevance and epidemiology of biotic stresses under changing climate scenario
- iii) Changing crop-pest relations under recent agricultural practices
- iv) Integrated biotic stress management contemplating the needs in 21<sup>st</sup> century.
- v) Academia, government and industry interface addressing farmers' livelihood and consumers' satisfaction.

The organizing committee of the symposium invited abstracts for both oral and poster presentations on above mentioned themes from teachers, scientists, scholars, students and representatives of industry and policy makers to make the symposium meaningful for the farmers of the region.

Sixty five (65) participants actively participated in the symposium including 5 lead speakers and 4 invited speakers. Out of which overwhelming participation from the students from four Universities was observed.

The symposium started with a brief inaugural session mainly emphasizing the need to strengthen the regional chapters of Indian Phytopathological Society to serve the students especially. The inaugural speech was delivered by the Hon'ble Vice-Chancellor of Uttar Banga Krishi Viswavidyalaya, who pointed out extremely valid questions in the forum regarding the preparedness of the Plant Pathologists for the changing scenario in agriculture of this sub-continent. In present, market driven agriculture the farmers are opting for more valuable and commercial crops with latest agronomic practices recommended as climate resilient technologies, which are presenting a new set of environment to the host-pathogen interaction. Residue management has become an issues in most of states and gradually burning of residue which was restricted to Punjab and Haryana few years back is becoming evident in other states too. Probably, this is

the high time to prepare ourselves and the next generation of plant pathologist to cope up with the situation.

The significance and the achievements of the Society was briefly discussed by Dr. Dinesh Singh, Secretary, Indian Phytopathological Society.

As in the earlier occasions, this year also, the symposium started with Prof. A.K. Sinha Memorial Lecture delivered by eminent Plant Pathologist Prof. Prasun Mukherjee, *Nuclear Agriculture and Biotechnology Division, Bhabha Atomic Research Centre, Trombay, Mumbai*. He discussed different aspects of using *Trichoderma*, not only in agriculture but for many other purposes as residue management, urban waste management, bio-remediation etc. The lecture was not only valuable for the students but enriching for the scientists participated in the symposium.

**Prof. M.J. Narasimhan Academic Merit Award** competition was conducted to nominate two students on the first day of the symposium and judged by Prof. Prasun Kumar Mukherjee, BARC and Dr. Kalyan Mondal, IARI. The selected students from the eastern zone are as follows:

- (i) Mr. Debayan Mondal, Research Scholar, Uttar Banga Krishi Viswavidyalaya
- (ii) Mr. Ankit Kumar Ghorai, Research Scholar, Bidhan Chandra Krishi Viswavidyalaya.

The symposium was conducted in five different sections which have been mentioned already. The session wise brief report is presented below in few paragraphs.

### Diagnosis and detection of biotic stresses

Lead Talk was delivered by Prof. Jayanta Tarafdar, Bidhan Chandra Krishi Viswavidyalaya on "Present status of virus research in West Bengal emphasizing on viral genomics and functional analysis of proteins". The session had two oral presentations and nine poster presentations. Ms. Sarbani Das and Swati Chakraborty were judged as best presenter in the poster session. The oral presentation by Dr. Nandita Sahana provided an insight on the symptom production process of the viral infection by utilizing the defence pathways in the plant. The other presentation made by Dr. Hossain Ali

Mondal was on the role of bacterial inoculation in deciding aphid resistance or susceptibility by a plant, highlighting the future prospect of utilizing bacterial inoculum for aphid management through resistance.

### Ecological relevance and epidemiology of biotic stresses under changing climate scenario

Dr. Arup Mukherjee from National Rice Research Institute, Cuttack was the lead speaker in this session who addressed one of the most alarming issues of the present day, residue burning, especially rice straw. He enlightened the audience by showing an avenue to use selected *Trichoderma* sp. which have higher enzymatic activity to decompose rice straw *in situ*. Ms. Aparajita Dhar and Mr. Abhijit Nandi were awarded with first and second position for the posters. In the session one oral presentation was made by Sanjog Chhetri on occurrence of southern rust of corn in eastern gangetic plains and its etiology had been discussed. He emphasized on future re- search studies to be made on pathogen survival, epidemiology and yield loss assessment along with formulation of suitable management strategies.

### Changing crop-pest relations under recent agricultural practices

The lead lecture in this session was delivered by Dr. Kalyan K. Mondal, IARI, New Delhi, who discussed about the significance of T3SS effectors of *Xanthomonas oryzae* pv. *oryzae* in rice. This talk primarily highlighted the detailed insight into the functional role of the two key effectors, XopF and XopR. The lead lecture was followed by two oral presentations and 4 poster presentations. Atanu Maji and Gnanasing Jesumharaja L were awarded for best poster in this session.

### Integrated biotic stress management contemplating the needs in 21<sup>st</sup> century

Dr. Sujoy Saha, Principal Scientist from NRC-Grapes was the lead speaker in this session discussed about the changing paradigm in the chemical management of diseases in India and focused on the new molecules which are on the way to the market and their mechanisms and utility in different categories of pathogens. Prof. Jayanta Saha, from Bidhan Chandra Krishi Viswavidyalaya discussed on the scope of utilizing yeasts in biological control of pathogens,



Group photograph of delegates of Eastern Zone Symposium



especially in the post-harvest phase of the crop. Dr. Dinesh Singh, Secretary, IPS and Principal Scientist, IARI delivered his lecture on “Eco-friendly management options for management of *Ralstonia solanacearum*”. Prof. Aniruddha Saha from North Bengal University vividly discussed about the plant viruses of the region infecting the commercial crops. Ms. Tulipa De and Yeleru Mohan Babu was awarded for best presentation in poster section of the session.

### **Academia, government and industry interface addressing farmers’ livelihood and consumers’ satisfaction**

In this session private stakeholders and farmers associations participated to discuss about the present problems in agriculture of the region. ADAMA India Pvt. Ltd. and Syngenta India Ltd. participated and discussed in details about the recent research and upcoming molecules through their organization.

### **Recommendations**

1. Effort should be continued to enrol more students and faculties/scientists of Plant Pathology and other relevant disciplines as Society members.
2. Society should provide appropriate financial assistance to the regional counterparts for organizing Regional meeting cum symposium.
3. More participation is desired from the Institutes and Universities situated in Eastern Zone to strengthen the society.
4. More encouragement should be passed on to the young students and researchers to participate and compete for various awards of the society.
5. Timely announcement should be made to all the members so that none of the student members feel deprived, that he/she could not participate the prestigious awards given by the society just due to lack of communication.

# North-Eastern Zone

Zonal President: Dr. Pankaj Baiswar  
Zonal Councillor: Dr. Tasvina R. Borah

## North-Eastern Zone Meeting and National Symposium on “Sustainable Plant Health Management in North East India” held at ICAR Research Complex for NEH Region, Umiam, Meghalaya, November 06-07, 2019

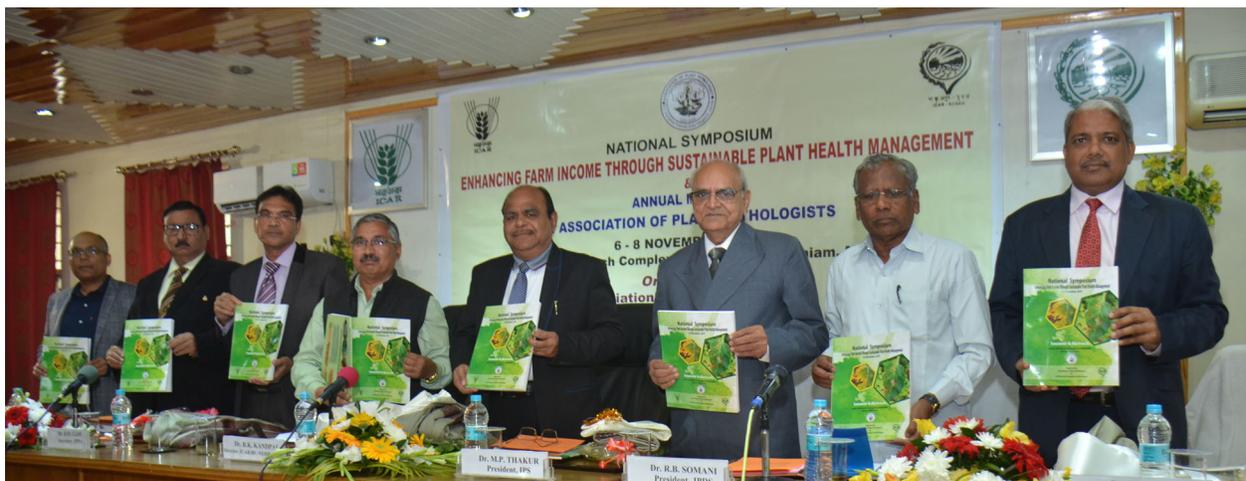
Zonal Symposium of IPS (NEZ- 2019) on “Sustainable Plant Health Management in North East India” was conducted at ICAR Research Complex for NEH Region, Umiam, Meghalaya from 6-7 November, 2019. This event was conducted along with the National Symposium of Association of Plant Pathologists, Akola, Maharashtra (Enhancing Farm Income Through Sustainable Plant Health Management” from 6-8 November, 2019). More than 100 participants participated in the events. President IPS, Dr. M.P. Thakur and Secretary IPS, Dr. Dinesh Singh, Former Secretary IPS, Dr. Pratibha Sharma also graced the occasion along with President and Secretary of APP, Akola.

M.J. Narasimhan award contest and APS travel grant award were conducted during the symposium. Total seven candidates participated in the MJN award contest and out of these seven, two candidates were

nominated for MJN Award Contest from North-Eastern Zone, namely, (1) Ms. Kakumoni Saikia, Department of Plant Pathology, Assam Agricultural University, Jorhat, Assam and (2) Mr. R Gowtham Kumar, Department of Plant Pathology, Assam Agricultural University, Jorhat, Assam. For APS travel grant only one participant participated and he was finally not recommended by the committee.

Meeting of IPS (NEZ) was also conducted on 7 Nov, 2019. Members of the IPS (NEZ) along with President, IPS, Secretary, IPS, Zonal President (NEZ), Zonal Councillor (NEZ) attended the meeting.

Major recommendation which emerged during the symposium was to conduct farmer centric research in North-Eastern zone and to devise methods for eco-friendly management of important diseases which are a major constraint in the North-Eastern region.



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# Mid-Eastern Zone

Zonal President: Dr. Ved Ratan  
Zonal Councillor: Dr. U.K. Tripathi

## Mid-Eastern Zone Meeting and National Symposium on “Plant Health Management for Ecofriendly and Sustainable Agriculture” held at C.S. Azad University of Agriculture & Technology, Kanpur, Uttar Pradesh, November 25-26, 2019

A National Conference on “Plant Health Management for Ecofriendly and Sustainable Agriculture” along with Annual Meeting of Mid Eastern Zone (MEZ) of Indian Phytopathological Society was gracefully organized by Department of Plant Pathology, C.S. Azad University of Agriculture & Technology, Kanpur (U.P.) in the collaboration with National Education Empowerment and Development Foundation (NEEDEF), Gorakhpur, U.P. and ICAR-Indian Institute of Pulses Research (IIPR), Kanpur from November 25-26, 2019.

During the two days of conference, 150 delegates participated from the Mid-Eastern Zone (Uttar Pradesh & Uttarakhand) along with delegates from Rajasthan, Chhattisgarh and Jammu & Kashmir states of the country.

The total programme of the conference was categorized in different groups viz., inaugural function, four technical sessions, valedictory session including one special technical session of Dr. H.K. Saxena Memorial Lecture.

The programme was inaugurated with the lighting of lamp by Dr. A.N. Mukhopadhyay, a recognized Plant pathologist and leading authority of *Trichoderma*,

former Head of Plant Pathology & Dean, College of Agriculture, G.B. Pant University of Agri. & Tech. Pant Nagar and Former Vice Chancellor of Assam Agriculture University, Jorhat (Assam). The inaugural function was chaired by Dr. Sushil Solomon, Vice Chancellor of C.S. Azad University of Agriculture & Technology, Kanpur and Dr. A.K. Misra Former President of the Indian Phytopathological Society and Principal Scientist (Retd.), CISH, Lucknow as guest of honour.

In the inaugural function, Dr. H.G. Prakash, Director Research welcomed the chief guest, guest of honour, Vice Chancellor of the university and other dignitaries of the university and delegates came from the different parts of the country. Dr. Ved Ratan, Zonal President and Organizing Secretary of the conference presented the theme of the conference. The Joint Secretary of the Society, Dr. Robin Gogoi, IARI, New Delhi briefed the historical background of the Society. He expressed about the aim and objectives of the Society, which was established on Feb. 28, 1947 under the leadership of Dr. B.B. Mundkar. Dr. Gogoi also informed that presently about 3000 plant pathologists including students are the members of the Society at global level and the society now-a-days is playing a



Inauguration of the Mid-Eastern Zone Symposium

vital role in diagnosis and management of various plant diseases.

In the presidential address of inaugural session, Hon'ble Vice Chancellor of the University, Dr. Sushil Solomon said that the title of the conference itself expresses the importance of conference and emphasized that only plant health management in totality may give healthy food to the population of the world.

On this occasion, the senior professors/scientists involved in plant protection, retired from their active service and in service were honoured by presenting of shawl and memento. The inaugural function ended with the vote of thanks proposed by Prof. U.K. Tripathi, Head, Department of Plant Pathology of this University and Zonal Councillor of Mid-Eastern Zone.

On the basis themes of the conference, the technical session was categorized in four groups:

### Special technical session

1. Survey and surveillance, detection and diagnosis of plant pathogens, microbes and nematodes.
2. Ecofriendly disease management, epidemiology, prediction and forecasting.
3. Host-plant resistance, botanicals, plant parasitic nematodes, biotic and abiotic stress management.
4. Poster session

The special technical session was chaired by Dr. Sushil Solomon, VC and Co-chaired by Dr. H.G. Prakash, Director Research, CSAUA&T, Kanpur. Dr. Prabhat Shukla from CISH, Lucknow and Dr. R.K. Mishra, IIPR, Kanpur were the rapporteurs of this session. The Chief Guest, Dr. A.N. Mukhopadhyay delivered a very important lecture on the "Importance and use of biofungicide especially *Trichoderma* in the management of biotic causes of plant diseases". Dr.

S.C. Dubey, Head, Plant Quarantine Division, NBPGR, New Delhi delivered Dr. H.K. Saksena memorial lecture on "Prevalence and management of most infectious fungus *Rhizoctonia solani*". Dr. A.K. Misra emphasized about the ecofriendly management of guava wilt for sustainable agriculture in his lecture.

During the technical sessions besides total nine lead lectures, 11 oral presentations were made by different scientists from different parts of the country.

In the poster session, twenty two research papers were presented by participants and they were evaluated by a high level jury (Dr. Udit Narain, Chairman, Dr. S.C. Dubey, Co-chairman and Dr. Shubha Trivedi, member). The papers presented in poster sessions were awarded as First, Second, Third and consolation prizes in each session.

Only one Ph.D. student of Plant Pathology Department, CSAUA&T, Kanpur, Ms. Harshita participated for Prof. M.J. Narasimhan merit academic award and presented her research paper on "Bio management of *Fusarium oxysporum* f. sp. *lycopersici*, the causal agent of tomato wilt" which was recommended for national level contest at International Conference of the Society, which is going to held at IARI, New Delhi during Jan. 16-20, 2020.

The valedictory session was organized on the second day of the conference (Nov. 26, 2019) and chaired by Dr. Poonam Singh, Dean, College of Agriculture, Dr. Udit Narain was the Co-chairman, Dr. Bansa Singh, Head, Plant Protection, IIPR and Dr. M. Rai, Retired Prof. of the guest of honor. In this session the report of different technical session were presented. Dr. Poonam Singh expressed her views about organization of the conference and she expressed the use of bioagents and other traditional method for the disease to avoid the hazards of chemical use.



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# Southern Zone

Zonal President: Dr. M.B. Patil  
Zonal Councillor: Dr. Y.S. Amaresh

## Southern Zone Meeting and National Symposium on “Transdisciplinary approaches to Plant Pathology research, education and extension in response to changing climate: The Way Ahead” held at University of Agricultural Sciences Raichur, Karnataka, December 28-29, 2019

Department of Plant Pathology, College of Agriculture, University of Agricultural Sciences, Raichur in association with Indian Phytopathological society New Delhi organised the National Symposium on “Transplanting approaches to Plant Pathology Research, Education and Extension in response to changing climate: the way ahead” on 6-7<sup>th</sup> December 2019 in auditorium, UAS, Raichur. Nearly 135 delegates inclusive of Researchers, Academicians, Plant Pathology scientists and PG students from Karnataka, Goa, Kerala, Tamilnadu, states took part in the National Symposium. The programme was inaugurated by Dr. M.B. Chetti, Hon’ble Vice-Chancellor, UAS, Dharwad. In the inaugural speech honb’le Vice Chancellor emphasised the importance

of plant diseases which impede the production and productivity of agricultural commodities. He stressed the need of studying the disease in relation to climate change and developing the suitable management.

Dr. M.K. Naik, Hon’ble Vice-Chancellor, UAHS, Shivamogga and chief guest of the inaugural programme gave key note address on emerging priority in plant pathological research at the Interface in the current agriculture scenario. He emphasised the sustainable development goals (SDG) envisaged by the united nations aimed at elimination of poverty, reaching zero hunger, good health and well being, quality education, clean water, decent work, reduced inequalities, climate action and peaceful life on the land. Indian agriculture registered a phenomenal



Inauguration of the Southern symposium



production in recent past mainly due to the development of varieties resistance of pathogens and adoption of latest plant protection measures.

Other dignitaries present in inaugural function were Dr. V. I. Benagi, Former VC, UAS, Dharwad, Dr. Dinesh Singh, Secretary, Indian Phytopathological Society, New Delhi, Mr. Amaresh Ballidava, Sri Siddappa Bhandhari and Sri Veeranagouda Parasareddi, Hon'ble Board of Management, UAS, Raichur. The programme was presided by Dr. K.N. Kattimani, Hon'ble VC, UAS, Raichur. Dr. M.B. Patil, President, IPS-South Zone, welcomed the gathering and Dr. Amaresh, Y.S., Organising Secretary and councillor of IPS-South Zone presented the vote of thanks.

In the national symposium, a special interactive session on "Developing Transdisciplinary Education, Research and Extension partnership and capacity building prospects in Plant Pathology" was conducted, which provided good platform for the interaction between the students, experts and farmers. During which the former Vice-chancellor, UAS, Dharwad Dr. V.I. Benagi, Dr. S. Lingaraju, Professor of Plant Pathology (Retd.), Dr. Dinesh Singh, Secretary, IPS, New Delhi, Dr. Ranganath from Indofil and Dr. Sheshagiri Gubbi, Entrepreneur took active participation in the discussion held on various aspects related soil health, nutrient management, eco friendly approaches for sustainable agriculture, problems and prospects of agricultural entrepreneurship, opportunities in the industry and other sectors for agriculture graduates. Dr. B.M. Chittapur, Director of Extension, UAS, Raichur, Chaired the session, opinioned that, the involvement of the private/industry support for the establishment of endowment chair for conducting research on a particular crop to address the issues pertaining to the productivity and quality. He thanked farmers, students, faculties and delegates for their active involvement in the discussion.

In the two days deliberation, totally 202 research abstracts were received, out of 202, four were key note papers, 17 were lead papers and 44 were oral papers and 131 abstracts for poster presentation. These 202 research abstracts were distribute in nine themes.

Theme 1 was on "Diseases dynamics, detection and diagnosis of plant diseases" was chaired by Dr. Thammaiah, N. and co-chaired by Dr. S.A. Ashaputhre, in this session Dr. Suresh Kunkaliker, Principal, DON BOSCO, College of Agriculture, Sukornq, Goa, gave key note talk on "Advances in Plant Virology", followed by lead lecture from Dr. Dinesh Singh on "Recent trends in detection and diagnosis of bacterial diseases of solanaceous crops" and another lead lecture by Dr. Shankarappa, K.S. and then presented 8 oral papers in this session .

The theme 2 was "The microbial diversity, pathogenomics, virulence and HPR". The session was chaired by Dr. Suresh Kunkaliker and co-chaired by Dr. S.A. Kulkarni, in this session there were 3 lead papers and five oral papers presented.

The session were on theme 3, "Impact of changing climate, epidemiology, Disease Forecasting" and theme 4 on "Biotechnological and Nano technological approaches in the plant disease management" was chaired by Dr. Shamorao Jahagirdhar and co-chaired by Dr. A.G. Sreenivas. In this session Prof. Pratibha Sharama, ICAR-Emeritus Scientist gave lead lecture on transdisciplinary approaches in mitigating the effects of climate change on biocontrol agents and two more lead papers followed by four oral presentations. In the 4<sup>th</sup> theme one lead paper and one oral paper were presented.

Theme 5 was on "Role of PGPR bio inoculants and Mycorrhiza in plant health management". The session was chaired by Dr. Devappa, V. and co-chaired by Dr. Mahadevaswamy. There were three lead lecture and three oral presentations.

The theme 6 was on "Agrochemicals and IDM in plant disease management". The session as chaired by Dr. Ravikumar, M.R. and co-chaired by Dr. Nagaraju, N. In this session, total 4 lead papers and 10 oral papers were presented.

The theme 7 was on "Inorganic resources, botanicals and bio-rationals in plant disease management". The session was chaired by Dr. S.I. Halapapur and co-chaired by Dr. Sripad Kulkarni. In this session one lead paper and three oral papers were presented. The theme 8 was on role of extension plant protection and role of Transdisciplinary approaches. The session



was chaired by Dr. K.B. Yadahalli, and co-chaired by Dr. S.K. Jayalaskshmi. In this session four oral paper were presented.

In the Professor M.J. Narasimhan Academic Merit award, there were totally 10 abstracts were received for contest. The session was arranged on 7<sup>th</sup> December, the panel of Judges were chaired by Dr. Lingaraj, S., Professor Emeritus, UAS, Dharwad, other member were Dr. Devappa, V., Dr. S.I. Harlapur and Dr. Shankarappa, K.S. In this session, 9 students presented there abstracts for competition. The students Mr. Hariprasada, K. presented on “Epidemiology variability and management of people blotch of onion caused by *Alterbaira porri*” and Mr. Channakeshwava C. presented on “Molecular characterization and management of viral diseases of capsicum (Bell pepper) under protected cultivation in Dharwad, Karnataka” were selected for First and Second nomination for the final contest Professor M.J. Narasimhan Academic Merit award.

The poster sessions from theme 1 to 8 were arranged in auditorium hall no. 1. The posters of theme 1 to 5 comprising of 40 posters were displayed and presented by respective scientists on 06.12.2019. The posters were evaluated by the judges led by Dr. Shamarao Jahagirdhar, with other committee members Dr. Radha Jayalakshmi, Dr. Venkatesh R. Kulkarni, Dr. V. Venkataravanappa and Dr. K.S. Shankarappa.

On second day 07.12.2019, the posters from theme 6 to 8 comprising of 45 papers were displayed and presented by the respective participants in the hall

no. 1, auditorium, UAS, Raichur. The posters were evaluated by the committee led by Dr. Thammaiah, N., Dr. Sunil Kulkarni, Dr. N. Nagaraju, Dr. V. Kantharaju and Dr. Gurudatt Hegde.

The symposium was concluded with the valedictory function on 07.12.2019. In the programme Dr. D.M. Chandargi, Dean (Agri.), COA, Raichur; Dr. Pramod Katti, AO, UAS, Raichur; Dr. Dinesh Singh, Secretary, IPS, New Delhi; Dr. Suresh Kunkaliker and Dr. M.B. Patil were participated as chief guests. The certificates pertaining to best oral, poster presentation were distributed and Dr. M.J. Narasimhan award was conferred for best PG research work. Dr. S.K. Meti, Director of Education, UAS, Raichur in his presidential remarks, emphasised the need of intensive research programme to evolve the appropriate management strategies to address the various field problems. Dr. Yenjerappa, S.T., Professor and Head, welcomed the gathering, the programme was executed by Dr. Mallikarjun Kenganal, Sr. Scientist and Head, KVK. Finally Dr. Amaresh, Y.S. proposed the vote of thanks.

### Recommendations

1. An array of biotic and abiotic stress which are to managed through multipronged scientific strategies is needed to address the plant health and increase productivity.
2. Physiological plant pathology especially host pathogen interaction through omic techniques at molecular level to be addressed for sustainable crop disease management.



Group photograph of delegates in the Southern Zone Symposium



3. Nanotechnology used for detection of plant pathogens, biosciences can be used for plant disease management.
4. Studies on the change in climate influence on host pathogen interaction and development disease.
5. Involvement of transdisciplinary approaches in agriculture to address plant diseases.
6. Development of the broad spectrum chemicals for effective management of plant diseases.
7. Importance is given on use of bio agents and development of enabling policies for popularizing bio-agent in eco-friendly management of plant diseases.
8. Domestic and international quarantine should be strengthened.
9. ICT technology can make use in plant disease management.

# Central Zone

Zonal President: Dr. T.S.S.K. Patro  
Zonal Councillor: Dr. P.K. Verma

## Central Zone Meeting and National Symposium on “Climatic change impacts on plant pathogens and plant diseases” held at Platinum Jubilee Hall, Andhra University, Visakhapatnam, December 12, 2019

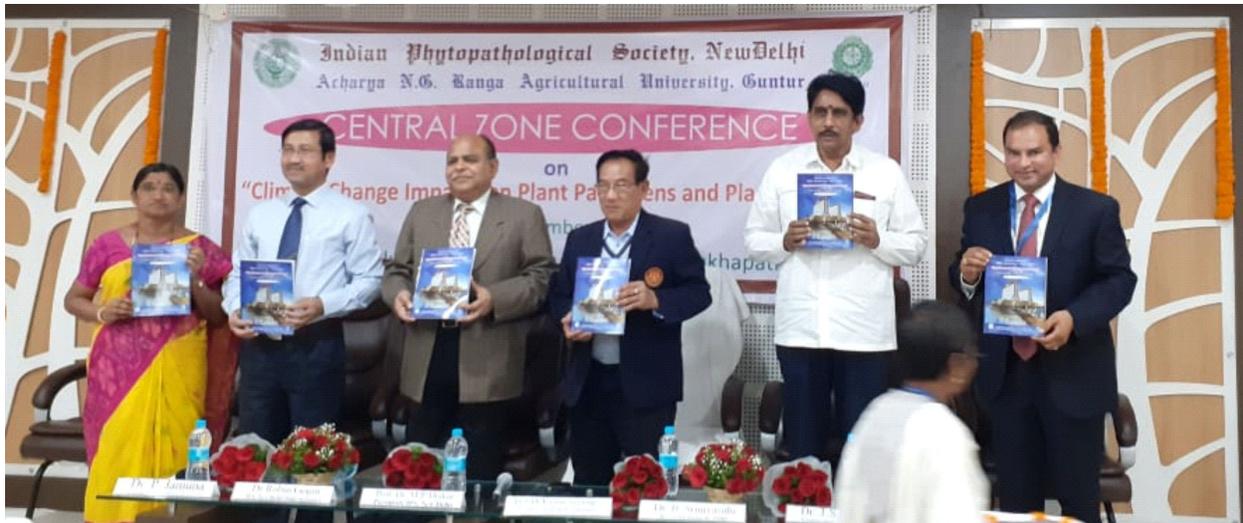
Indian Phytopathological Society (Central Zone) organized one day conference on “Climatic change impacts on plant pathogens and plant diseases” on December 17, 2019 at Platinum Jubilee Hall, Andhra University, Visakhapatnam. The programme was chaired by Dr. M.P. Thakur, Director of Instructions, IGKV, Raipur, President, IPS. The Chief Guest Prof. Dr. Kasem Soyong, President, Association of Agriculture Technologists of South East Asia, Bangkok delivered lecture on Eco friendly management of Major diseases by employing cheatomium. The guest of honour, Dr. B. Sreenivasulu, Director of Extension, Dr. Y.S.R. Horticultural University delivered lecture on IPM practices. Dr. Robin Gogoi, Joint Secretary, IPS; Dr. Pratibha Sharma, Emeritus Professor, Jaipur; Dr. P. Jamuna, Associate Director of Research, North Coastal Zone, Anakapalle; Dr. T.S.S.K. Patro, President, Central Zone, IPS; Dr. P. Kishore Varma, Zonal Councillor, Central Zone, IPS participated in the meeting. A total of 12 students competed for Prof. M.J. Narasimhan

Academic Merit award and four students for APS Travel Grant sponsorship under the chairmanship of Dr. M.P. Thakur, President, IPS. The conference was attended by 115 delegates.

Dr. M.P. Thakur, President, Indian Phytopahological Society and Director, Instructions & Controller of Examination, IGKV, Raipur was Guest of Honour during the Inaugural Function of IPS Central Zone Meet organised by Acharya NG Ranga Agricultural University, Guntur (Andhra Pradesh) at Platinum Jubilee Hall, Andhra University, Visakhapatnam (Andhra Pradesh) on 17<sup>th</sup> Dec., 2019. The one day conference was organised on “Climatic change impacts on plant pathogens and plant diseases”. Dr. Thakur urged the crop production and crop protection scientists to get ready for developing the climate resilient smart technologies in view of the changing climatic scenario particularly rising temperature which may have both negative and positive impact on crops, yield, incidence & severity of diseases, onset of



Inaugural session of the Central Zone Symposium



Release of Abstract & Souvenir in the Inaugural session of the Central Zone Symposium

diseases, occurrence of new diseases and migration of pathogens to new areas. He also delivered the key note address on “Integrated Management of Important Soil borne Plant Diseases” and urged the scientists to effectively use biopesticides, biofertilisers, organic compounds, micronutrients along with low doses of agrochemicals so that there is no adverse effect these on the bio inoculants in soil. Dr. Thakur also attended the Valedictory Function and distributed the Prof M.J. Narsimhan Award and IPS-APS Travel Grant to the best awardees and nominees. Dr. Thakur appreciated the efforts made by Dr. T.S.S.K. Patro in organising and inviting Dr. Kaneja Soyong, President, Association of Agricultural Technology in Southeast Asia, Thailand who delivered the Keynote lecture on “Plant health management using organic means”. The meet was also attended by Dr. Robin Gogoi, Joint

Secretary, IPS who highlighted various awards instituted by the society to the new generation Plant Pathologists.

### Recommendations

1. To deal with the impact of climate change on crop production, important strategies such as development of cultivars - tolerant to heat and salinity stress, resistant to flood and drought.
2. Modifying crop management practices.
3. Adapting new farm techniques such as resource conservation technologies, crop diversification, integrated pest and disease management.
4. Better weather forecasting; crop insurance and harnessing the indigenous technical knowledge of farmers.

# Delhi Zone

Zonal President: Dr. M.S. Yadav  
Zonal Councillor: Dr. Nasim Ahmad

## Delhi Zone Meeting and National Symposium on “Bio-intensive approaches for management of crop diseases” held at Division of Plant Pathology, ICAR-IARI, New Delhi, December 21, 2019

Indian Phytopathological Society (Delhi Zone) in association with Division of Plant Pathology, ICAR-IARI and ICAR-NCIPM, New Delhi jointly organized one day Annual Meeting of IPS (Delhi Zone) and National symposium on “*Bio-intensive approaches for management of crop diseases*” on December 21, 2019 at Division of Plant Pathology, ICAR-IARI, New Delhi. The symposium was attended by 130 delegates including large number of scientists from ICAR institutes namely IARI, NCIPM, NIPB, NBPGR, IIMR and other Delhi-based Institutes like Delhi University etc. The symposium was started with lightening of lamp Ceremony followed by welcomed address by Dr. (Mrs.) Rashmi Aggarwal, Head, Division of Plant pathology and Joint Director (Education) and Dean, PG School, IARI, New Delhi. Dr. Dinesh Singh, Secretary, IPS, New Delhi highlighted about activities of the Indian Phytopathological Society. Chief Guest,

Dr. P.K. Chakrabarty, Member (Plant Sciences), ASRB, DARE, Ministry of Agriculture and Farmers’ Welfare, New Delhi, inaugurated the symposium. Chief Guest also released souvenir and abstract of National Symposium on “*Bio-intensive approaches for management of crop disease*”. The guests of honour Dr. D.K. Yadava, ADG (Seed), ICAR Krishi Bhawan, New Delhi and Dr. H.R. Sardana, Director, ICAR-National Research Centre for Integrated Pest Management, Pusa Campus, New Delhi also graced the occasion with their valuable remarks. Dr. Yadava mainly emphasized on need for sustainable plant protection system, such as bio-intensive approaches consisting of non-chemical means. Dr. Sardana emphasized on management of diseases without compromising our sustainability and preserving environmental health. Chief Guest delivered inaugural address on mainstreaming of biopesticides for management of plant diseases. Felicitations of



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dignitaries on dais along with four Senior delegates namely Dr. Naresh Mehta, President of Indian Society of Plant Pathologists, PAU, Ludhiana and former Associate Dean, College of Agriculture, HAU, Hisar and Dr. R.K. Walia, former Project Coordinator, AICRP on Nematodes, Division of Nematology, IARI, New Delhi; Dr. J.L. Vashney, former Principal Scientist and Dr. V.C. Sinha, former Principal Scientist both from Division Plant Pathology, ICAR-IARI, New Delhi was undertaken by presenting the IPS Memento. Dr. Nasim Ahmad, Zonal Councillor IPS (Delhi Zone) proposed the vote of thanks. After inaugural ceremony technical session were started.

### Technical session I

Technical session I was chaired by Dr. R.K. Jain, Emeritus Scientist, Division of Plant Pathology and former Dean, Post Graduate School of IARI and Joint Director (Education), IARI, New Delhi and Co-chaired by Dr. Robin Gogoi, Principal Scientist, IARI, New Delhi. In this session, Dr. M.S. Yadav, Zonal President, IPS (Delhi Zone), delivered Presidential Address on “Management of Major Diseases of Mustard Following Bio-intensive Approaches”. Use of management techniques like bio control agents, plant extracts, disease resistant varieties and integrated approaches are highly recommended as they are eco-friendly, cost-effective and improve the crop yield. Keynote Lecture on “Biopesticide: Prospects and Policy to Propel the Technology” was delivered by Prof. H.B. Singh, Former,

Head, Department of Mycology and Plant Pathology, Institute of Agricultural Sciences, BHU, Varanasi (U.P.). For biocontrol to be more acceptable, the concept that the disease should be managed rather than completely controlled is useful and has to be instilled in the mind of end users. He mainly stressed on need for commercialization of biopesticides in India. IPS M.K. Patel young scientist award lecture was delivered by Dr. Malkhan Singh, Scientist, Division of Plant Pathology, ICAR-IARI, New Delhi.

### Technical session II

Technical session II was chaired by Dr. S.C. Dubey, Head, Division of Plant Quarantine, ICAR-NBPGR, New Delhi and Co-chaired by Dr. M.S. Saharan, Principal Scientist, IARI, New Delhi. In this session, Prof M.J. Narasimhan Academic Merit Award Contest was held. Two contestant namely Mr. Abhishek Kumar Dubey and Ms. Charishma Krishnappa were recommended from IPS Delhi Zone for National level contest for this award.

### Technical session III

Technical session III was chaired by Dr. V.K. Baranwal, Professor, Plant Pathology and Head, Plant Virology Unit of Division of Plant Pathology, ICAR-IARI, New Delhi and Co-chaired by Dr. G.P. Rao, Principal Scientist, IARI, New Delhi. In this session, APS Travel Grant Contest was held. Two contestant namely Mr. Darshan K. and Mr. V. Kavi Sidharthan were



Group photograph of delegates in the Delh Zone Symposium



recommended from IPS Delhi Zone for National Level Contest of APS Travel Award.

### Recommendations

1. Recent research approaches on biopesticide should be carried out particularly on genomics, transcriptomic, proteomics and metabolomics for developing next generation products with increased self-life
2. Govt. should provide incentive to the public institutions for mandatory toxicological tests for registration of biopesticides
3. Creation and recognition of quality biopesticide labs in public institutions
4. Biopesticide should have effectiveness against the plant disease and safety towards environment.
5. Availability of quality biopesticide to the end user should be ensured. Awareness among farmers about importance of biopesticide and their applications to be created.

# Northern Zone

Zonal President: Dr. Rakesh Mehra  
Zonal Councillor: Dr. Prem Lal Kashyap

## North Zone Meeting and National Symposium on “Plant disease management for food security under climate change scenario” held at ICAR-Indian Institute of Wheat and Barley Research, Karnal, January 09-10, 2020

National Symposium on “Plant disease management for food security under climate change scenario” and annual meeting of Indian Phytopathological Society (North Zone chapter) were jointly organized by Indian Phytopathological Society (IPS), New Delhi, Society for Advancement of Wheat and Barley Research (SAWBAR), Karnal and CCS Haryana Agricultural University, Hisar at ICAR-Indian Institute of Wheat and Barley research (IIWBR), Karnal from January 9-10, 2020. Dr. P.C. Sharma, Director, ICAR-CSSRI, Karnal was the guest of honour for the symposium. He stressed on the soil health aspects in relation to the influence of soil microbes on plant health. He also emphasized on the development of holistic approaches for the plant diseases management along with the need to for tracking transboundary movement of pathogens. The chairman of the session, Dr. G.P. Singh, Director, ICAR-IIWBR, Karnal stressed on the integrations of efforts by all the disciplines to make diseases management effective and profitable under changing climate scenario. He also appreciated the efforts made the organising committee for including

very pertinent technical sessions on microbial diversity, pathogen variability, epidemiology, plant microbial interaction, resistance breeding and integrated plant diseases management under changing climate. At the outset, Dr. Rakesh Mehra, President, IPS (North Zone) welcomed the delegates and highlighted the relevance of the symposium and gave an overview of the programme and various deliberations made in different sessions of the symposium. Dr. Robin Gogoi, Joint Secretary, IPS, appraised the house about the activities of IPS. This session was attended by the IPS delegates, university and state department personnel, invited scientists, teachers, students, and the corporate representatives and a total of 92 delegates across the country including north India participated in the symposium. The senior dignitaries gave the strong message for making collaborative efforts for channelizing the output of research conducted by scientists in the field of Plant Pathology to devise technology for sustainable agriculture, in view of drastic and unpredictable climate change scenario. The inaugural session was followed by nomination for



Inauguration session of the Northern symposium

Prof MJ Narishamn Academic Merit Award contest. In this contest, out of four contestants two students namely, Preeti Sharma and Annie Khanna were nominated to represent the zone for final competition at national level. Total three technical sessions were organised during the two days symposium. In the technical sessions, several lectures highlighting the problems of the North Zone under climate change scenario along with probable solutions were delivered by Drs. Naresh Mehta, Dr. Ashwani Basandrai, Dr. H.R. Gautam, Dr. Robin Gogoi, Dr. Kalyan K. Mondol, Dr. Sunita Chandel, Dr. Jasapl Kaur, Dr. Kushal Raj, Dr. Renu Munjal, Dr. O.P. Chaudhary, Dr. Rakesh Kumar, Dr. Puja Srivastava, Dr. Gyandendra Singh and Dr. Vimla Singh. This two days symposium was concluded with plenary session followed by valedictory function. The function was presided over by Dr. G.P. Singh, Director, ICAR-IIWBR, Karnal. Certificates to the award winners were distributed with the auspicious hands of the dignitaries on the Dias. The brief reports of each technical session were presented by Dr. Prem Lal Kashyap, organising secretary and Zonal Councillor, IPS (NZ) and following recommendations were evolved from the deliberations and discussion:

### Recommendations

1. With the changing climate, some of the diseases earlier known as of minor importance are now emerging as potential threat to the field and vegetable crops. The group recommended to work on epidemiological parameters and forewarning systems to redefine management strategies and innovate new technologies.

2. For the integrated crop health management, cutting edge technologies (genomic, proteomics and nanotechnology) were recommended for accurate diagnosis and to monitor the changing trends in pathogenesis and the virulence spectrum in climate change scenario.
3. It was emphasised that the emergence of new races of lentil rust, chickpea *Fusarium* wilt and post flowering stalk rot disease of maize are becoming serious threat for successful crop cultivation and there is an acute need for developing strategies for their successful management.
4. Research on the application of nanotechnology and biotechnological approaches such as gene silencing and genome editing techniques for the management of plant viruses should be intensified.
5. Targeting spot blotch and yellow rust diseases of wheat and barley crops by identification of durable resistance was emphasized.
6. To reduce the load of agrochemicals and related residue problems in field and vegetables crops, the emphasis was given on the field translation of various eco-friendly technologies based on potential microbial antagonists, botanicals and nanoproducts etc.
7. Need was felt to motivate the younger generation to take up innovative research especially in the area of deciphering plant pathogen interactions under climate change.

The function concluded with the vote of thanks by Dr. Sudheer Kumar, co-organising secretary of the symposium.



Group photograph of delegates in the Northern Zone Symposium

# IPS 7th International Conference

## Brief report of the conference

The Indian Phytopathological Society (IPS), New Delhi organized its 7<sup>th</sup> International Conference on “Phytopathology in Achieving UN Sustainable Development Goals” at ICAR-Indian Agricultural Research Institute (IARI), New Delhi during January 16-20, 2020 alongwith 13 most prominent plant protection institutes/societies (IARI, NIPB, NBPGR, IASRI, NIAP, NCIPM, APS, SLAMPP, ISMPP, APP, ISMPP, South Asia Biotechnology Centre, FARMER) as Co-organizers and International Society for Plant Pathology (ISPP) as collaborator and it is the first time when these many societies have come closer in joining hands with IPS in celebrating the International Year of Plant Health.

## Inaugural function

Inaugural function of the conference on “Phytopathology in Achieving UN Sustainable Development Goals” organized by the Indian Phytopathological Society (IPS) was held at Dr. B. P. Pal Memorial Auditorium of ICAR-Indian Agricultural Research Institute (IARI), New Delhi.



Inauguration session of International Conference

At the very outset, Dr. M.P. Thakur, President, IPS, welcomed the dignitaries and the delegates from 24 countries attending the conference and talked of plant

health, soil health and animal health to take care of human health.



Welcome addressed by Dr. M.P. Thakur, President, IPS

**Dr. Dinesh Singh**, Secretary, IPS, briefed the august gathering with history and the activities undertaken by the society. Dr. P.K. Chakrabarty, President (Elect), IPS & Member, Agricultural Scientist Recruitment Board in his deliberation stated that among the factors that contributed for low yields in leading crop plants are biotic and abiotic stresses and plant protection is of paramount importance to bio-security. Among the biotic stresses, diseases caused by plant pathogens are existential threat to agriculture.



Presentation about the Society by Dr. Dinesh Singh, Secretary, IPS

Dr. Chakrabarty reiterated a recent report that highly-productive countries such as Brazil, China, India, Indonesia and the Philippines are likely to be harbouring hundreds more crop pests and diseases



than currently known. With advancement in science and technology especially the Omics tools, the world is experiencing new era in the field of plant pathology.



Addressed by Dr. P.K. Chakraborty, President-elect, IPS

**Dr. Serge Savary**, Editor-in-Chief, Food Security & Ex-Vice-President, International Society for Plant Pathology, France graced the occasion as the Guest of Honour. In his address, he stated that ecosystem strategy need to be adopted to produce nutrition-rich food which, in turn, will help achieving food security. He further added that India had a massive challenge to feed 1.3 billion people with nutritious food.



Addressed by Dr. Serge Savary, Guest of Honour

**Dr. A.K. Singh**, DDG (Agril. Extension) & Director, ICAR-IARI presiding over the function, deliberated that to feed ever growing 1.3 billion population of India, plant protection is of prime importance as, on an average, the crop losses due to diseases, insect pests and weeds are estimated to range from 15 to 25% of crop production. Though, importance of pesticides and chemicals in achieving food goals cannot be denied. It was also equally important to consider soil health, animal health and human health while devising plant protection strategies. Of the diverse components of disease management, bio-control is important. But, notwithstanding their efficacy, bio-control formulations have only an inadequate share in the national pesticide scenario. He emphasized more on

eco-friendly approaches particularly biocontrol agents, which can be effectively be used to manage plant diseases.



Addressed by Dr. A.K. Singh, DDG (Agril. Extn.), Guest of Honour

**Dr. A.K. Singh**, DDG (Horticulture & Crop Science), ICAR and the Chief Guest of the occasion told that the manifold increase in food grain production from 50.82 million tonnes in 1950-51 to 281.37 million tonnes in 2018-19 have been possible due to strong policy decisions of the Government of India and generation of the tools and technologies by the researchers and the development and deployment of varieties with genes for higher yield and resistance. Government of India has set goals to double the farmer's income by 2022 and also to increase our agri-export earnings. To achieve this daunting task, newer tools and technologies, viz., ICP, digital agriculture and IoT etc., being developed have to get adopted in the field for which our farmers have to be educated and trained in the use of these new tools and technologies. For increasing the agri-export, our produce has to be cost and quality competitive and should be nutrition-rich and free of pesticide contaminants.



Addressed by Dr. A.K. Singh, DDG (Hort. & Crop Science), Chief Guest



## Felicitation of awardees

The following eminent scientists were felicitated during inaugural function :-

**A.P. Misra Lifetime Achievement Award:** Prof. C. Manoharachary, Osmania University, Hyderabad, India

**S.P. Raychaudhuri Memorial Lecture:** Dr. S.N. Puri, Former Vice Chancellor (CAU, Imphal), Nagpur, M.S., India

### IPS Recognition Award

- (i) Dr. R.K. Khetarpal, Executive Secretary, APAARI, Bangkok, Thailand
- (ii) Dr. U.N. Saikia, Former Director of Post-Graduate Studies (AAU), Jorhat, Assam
- (iii) Dr. B.L. Puttoo, Former Head (Plant Pathology, SKUAST, Jammu), J&K, India
- (iv) Dr. G.S. Dubey, Former DRI-cum-Dean PGS, (BAU, Ranchi), Jharkhand, India
- (v) Dr. R.B. Somani, (Former Dean, PGS, Head, Plant Pathology), Maharashtra, India

**Mundkur Memorial Award:** Dr. M.K. Naik, Vice Chancellor, University of Agricultural & Horticultural Sciences, Shivamogga, Karnataka, India

**S.N. Dasgupta Memorial Award:** Dr. Govind Pratap Rao, Principal Scientist (Plant Pathology), ICAR-IARI, New Delhi

**M.K. Patel Memorial Young Scientist Award:** Dr. Malkhan Singh Gurjar, Scientist (Plant Pathology), ICAR-IARI, New Delhi

**J.F. Dastur Memorial Award:** Dr. Dilip Kumar Ghosh, Principal Scientist (Plant Pathology-Virology), ICAR-CCRI, Nagpur, M.S.

**Sharda Lele Memorial Award:** Dr. Satish Kumar Gupta, Former Professor and Head, Department of Plant Pathology, Dr. YSPUHF, Solan, H.P.

**K.C. Mehta and Manoranjan Mitra Award:** Dr. M.S. Saharan, Principal Scientist (Plant Pathology), ICAR-IARI, New Delhi

**D.P. Misra and R.N. Pandey IPS Best Women Scientist Award:** Dr. Om Gupta, Director, Extension Services, JNKVV, Jabalpur, M.P.

**B.N. Chakraborty and Usha Chakraborty IPS Best Teacher Award:** Dr. S.J. Kolte, Former Professor (Plant Pathology, GBPUAT, Pantnagar), Pune, M.S.

**A.K. Sarbhoy Memorial Award:** Dr. R.N. Kharwar, Professor (Botany), Banaras Hindu University, Varanasi, U.P.

## Release of publications

The following publications were released by the chief guest in the inaugural functions:

(1) Abstract Book of 7<sup>th</sup> International Conference on "Phytopathology in Achieving UN Sustainable Development Goals.

(2) Kheti (Special issue on Plant Health), a periodical published by ICAR-DKMA, New Delhi.

(3) Major Accomplishments of Indian Phytopathological Society (2017-19) by Dr. Archana U. Singh, Dr. M.P. Thakur and Dr. Dinesh Singh.

(4) Book on "Powdery mildew disease of crucifers: Biology, ecology and disease management" by Dr. G.S. Saharan, Dr. Naresh K. Mehta and Dr. P.D. Meena.

The session ended with vote of thanks from Dr. Rashmi Aggarwal, Dean and Joint Director (Edn), IARI, New Delhi.

## Technical programme

Altogether 708 delegates from 24 countries participated in this mega-event of which 40 delegates were from outside India. There were 60 farmer delegates from different states of India such as Uttar Pradesh, Delhi, Madhya Pradesh and Chhattisgarh who participated in Scientist-Industry-Farmers Interface on 19<sup>th</sup> January, 2020. During the 4 days long (from Jan 16 to 19, 2020) conference, 21 technical sessions on 21 different themes were conducted. There were 8 plenary speakers, 8 award lectures, 10 Prof. M.J. Narasimhan Academic Merit Award Contestants, 3 APS Travel Sponsorship Award Contestants, 49 Keynote Lectures, 76 Invited Lectures, 130 Oral Presentations and 423 posters presented in the conference.

## Presidential address and award lectures

**Presidential address:** Advances in Mushroom Production: Key to Food, Nutritional and Employment Security

Dr. M.P. Thakur, President-IPS, IGKV, Raipur, Chhattisgarh

Chairman: Prof. A.N. Mukhopadhyay

Co-Chairman: Dr. Gerd Stammer



Presidential Address by Dr. M.P. Thakur, President, IPS

**S.P. Raychaudhuri Memorial Lecture: Plant Protection in India: Challenges Ahead**

Dr. S.N. Puri, Former Vice chancellor, CAU, Imphal  
Chairman: Dr. R.B. Somani  
Co-Chairman: Dr. Rashmi Aggarwal



S.P. Raychaudhuri Memorial Lecture by Dr. S.N. Puri

**Mundkur Memorial Award Lecture: Exploring Potentials of PGPMS in Crop Disease Management**

Dr. M.K. Naik, Vice Chancellor, UAHS, Shivamogga, Karnataka  
Chairman: Dr. Mohd. Babadoost  
Co-Chairman: Dr. S.C. Bhardwaj



Mundkur Memorial Award Lecture by Dr. M.K. Naik

**J F Dastur Memorial Award Lecture: The continuous challenges of citrus greening disease and its impact on global citrus industry**

Dr. Dilip K. Ghosh, ICAR-Central Citrus Research Institute, Nagpur  
Chairman: Dr. Mohd. Babadoost  
Co-Chairman: Dr. S.C. Bhardwaj



JF Dastur Memorial Award Lecture by Dr. Dilip K. Ghosh

**Sharda Lele Memorial Award: Epidemiology and Management of Phytophthora Diseases of Tomato and Bell pepper in North Western Himalayas**

Dr. S.K. Gupta, YSPHUF, Solan, H.P., India  
Chairman: Dr. A.K. Misra  
Co-Chairman: Dr. H.S. Prakash



Sharda Lele Memorial Award Lecture by Dr. S.K. Gupta

**AK Sarbhoy Memorial Award: Fungal epiphytes to endophytes: A cryptic and potential resource for biodiversity, bioremediation and bioactive compounds**

Dr. R.N. Kharwar, BHU, Varanasi, U.P., India  
Chairman: Dr. A.K. Misra  
Co-Chairman: Dr. H.S. Prakash



AK Sarbhoj Award Lecture by Dr. R.N. Kharwar

**S.N. Dasgupta Memorial Lecture:** Our understanding about phytoplasma research scenario in India

Dr. G.P. Rao, IARI, New Delhi

Chairman: Dr. S.J. Kolte

Co-Chairman: Dr. M. Srinivas Prasad



SN Dasgupta Memorial Lecture by Dr. G.P. Rao

**D.P. Misra and R.N. Pandey IPS Best Women Scientist Award:** Chickpea wilt: Variability of Foc isolates in Central India

Dr. Om Gupta, Director Extension, JNKVV, Jabalpur, M.P., India

Chairman: Dr. S.J. Kolte

Co-Chairman: Dr. M. Srinivas Prasad



D.P. Misra and R.N. Pandey IPS Best Women Scientist Award Lecture by Dr. Om Gupta

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

Chairman: Dr. J. Kumar

Co-Chairman: Dr. Ashwani Kumar Basandrai



M.J. Narasimhan Academic Merit Award Contest Chairs

Prof. M.J. Narasimhan Academic Merit Award contest was held on January 18, 2020 and total 10 candidates from different zones participated in the contest. The judging committee has recommended the name of Mr. Ankit Kumar Ghorai, Department of Plant Pathology, Bidhan Chandra Krishi Viswavidyalaya, Mohanpur, Nadia for presentation of the paper "Population structure analysis of *Ralstonia solanacearum* in West Bengal, India and influence of crop rotation on its survival in the rhizospheres of various crops" for the MJ Narasimhan Academic Award, 2019.

**APS Travel Sponsorship Award Contest**

Chairman: Dr. S.R. Niranjana

Co-Chairman: Dr. Pratibha Sharma



APS Travel Sponsorship Award Contest Chairs

APS Travel Sponsorship Award Contest was held on January 17, 2020. Only three candidates participated in the contest. The judging committee recommended all the three candidates for their final recommendation by APS.

## Plenary Lectures

Eight plenary lectures were delivered by eminent scientist during conference.

**Plenary Lecture 1:** Role of Plant Protection and Innovation in Achieving Sustainable Development Goals in Asia-Pacific

**Dr. Ravi Khetarpal**, Bangkok, Thailand

Chairman: Dr. R.K. Jain

Co-Chairman: Dr. Neena Mitter



Plenary Lecture delivered by Dr. Ravi Khetarpal

**Plenary Lecture 2:** Chitooligosaccharides as pathogen-associated molecular patterns to induce immunity in plants

**Prof Appa Rao Podile**, Hyderabad, India



Plenary Lecture delivered by Dr. Appa Rao Podile

**Plenary Lecture 3:** Science and Technology for a Sustainable Future: adventures in plant disease resistance genetics

**Prof. Robert F. Park**, Australia

Chairman: Dr. K.V. Prabhu

Co-Chairman: Dr. Matthew Rouse



Plenary Lecture delivered by Prof. Robert F. Park

**Plenary Lecture 4:** Assessing the global burden of pathogens and pests on major food crops

**Dr. Serge Savary**, France



Plenary Lecture delivered by Dr. Serge Savary

**Plenary Lecture 5:** Scenarios for Sustainable Management of Plant Parasitic Nematodes

**Dr. Becky Westerdahl**, USA

Chairman: Dr. P.K. Chakrabarty

Co-Chairman: Dr. U. S. Singh



Plenary Lecture delivered by Dr. Becky Westerdahl

### Plenary Lecture 6: Trichoderma the most powerful Arsenal for Plant Disease Management

**Prof. A.N. Mukhopadhyay**, Assam  
Chairman: Dr. C. Manoharachary  
Co-Chairman: Dr. R. Viswanathan



Plenary Lecture delivered by Dr. A.N. Mukhopadhyay

### Plenary Lecture 7: Genome Editing for Stress Tolerance of Rice

**Dr. V. Viswanathan**, ICAR-IARI, New Delhi



Plenary Lecture delivered by Dr. V. Viswanathan

### Plenary Lecture 8: Transcriptional profiling to gain insights into plant-virus interactions

**Dr. H.R. Pappu**, USA  
Chairman: Prof. S.S. Chahal  
Co-Chairman: Dr. G.S. Saharan



Plenary Lecture delivered by Dr. H.R. Pappu

### Best oral presentation award

Total 130 oral presentations were delivered in the conference and the following presentations were awarded for best oral presentation award.

#### Session 1: Taxonomy of plant pathogens

1. **Deeba Kamil**, Division of Plant Pathology, ICAR-IARI, New Delhi - Genus *Cercospora* in India
2. **Pooja Kumari**, Division of Plant Quarantine, ICAR-NBPGR, New Delhi - Characterization of aflatoxigenic *Aspergillus flavus* associated with aflatoxin B1 (AFB1) production of maize kernel in India
3. **Sajad Un Nabi**, ICAR-CITH, Srinagar, J&K - Morpho-molecular characterization of *Diplodia* spp. associated with apple canker disease in India
4. **Kumari Sunita**, DDU Gorakhpur University Gorakhpur, U.P. - Study of storage fungal association and their effect on seed quality of groundnut *Arachis hypogea* in Gorakhpur, UP and adjacent areas

#### Session 2: Plant disease diagnostics

1. **Basavaraj**, Division of Plant Pathology, ICAR-IARI, New Delhi - Non-structural protein based recombinant polyclonal antibodies for specific detection of *Watermelon bud necrosis virus* in plants and thrips vectors
2. **Nitika Gupta**, ICAR-DFR, Maharashtra - Identification and characterization of viruses infecting flower crops in India
3. **Susheel Kumar Sharma**, ICAR RC for NEH Region, Imphal, Manipur - Citrus huanglongbing associated *Candidatus liberibacter asiaticus* in North East India: Genetic characterization and development of simplified diagnostics

#### Session 3: Population genetics and pathogen diversity

1. **Amrita Das**, Division of Plant Pathology, ICAR-IARI, New Delhi - Unveiling the taxonomic identity and genetic diversity of *Colletotrichum gloeosporioides* species complex causing anthracnose in different fruit crops
2. **Srinivasa. N.**, Division of Plant Pathology, ICAR-IARI, New Delhi - Diversity, epidemiology, resistance and management of *Fusarium* wilt in chickpea
3. **Kamal Khilari**, SVPUA&T, Meerut, U.P. - Prevalence of rice root knot nematode a serious



threat to basmati rice production in western Uttar Pradesh

#### Session 4: Host pathogen interaction and plant immunity

1. **Shrabani Basak**, *Bose Institute, Kolkata, West Bengal* - Death and defense-dynamic regulation during stress and functional analyses of tomato metacaspases
2. **Nagamani Sandra**, *Division of Seed Science & Technology, ICAR-IARI, New Delhi* - Development and utilization of *Soybean yellow mottle mosaic virus* infectious clone for understanding the seed transmission nature in French bean
3. **Shreya Chowdhury**, *Bose Institute, Kolkata, India* - miR398: An integrator of biotic and abiotic stress signalling in tomato

#### Session 5: Climate change influencing plant diseases

1. **Tasvina R. Borah**, *ICAR RC for NEH Region, Umiam, Meghalaya* - Crop disease scenario and organic disease management in the land use systems of North East India
2. **Kaushlesh Kumar Mishra**, *ZARS, Hoshangabad, M.P.* - Prospect and retrospect of Karnal bunt in Central zone
3. **Gururaj Sunkad**, *UAS, Raichur, Karnataka* - Dry Root Rot: Increased severity, molecular diagnostics, pathogen diversity and management of newly emerging chickpea disease under changing climatic scenario

#### Session 6: Epidemiology and forecasting of plant diseases

1. **Amalendu Ghosh**, *Division of Plant Pathology, ICAR-IARI, New Delhi* - Understanding the virus-vector epidemiology using rapid diagnostic assays for thrips vectors
2. **M.K. Barnwal**, *BAU, Jharkhand* - Effect of different dates of sowing, weather factors on *Alternaria* blight of mustard under rainfed condition of Jharkhand
3. **Harleen Kaur**, *PAU, Ludhiana* - Predisposing factors for charcoal rot disease caused by *Macrophomina phaseolina* in spring sown maize

#### Session 7: Plant health management vis-à-vis human health

1. **T.K. Bag**, *Division of Plant Pathology, ICAR-IARI, New Delhi* - Virus free potato mini tubers

production through combined intervention of tissue culture and aeroponics

2. **Atul Kumar**, *Division of Seed Science and Technology, ICAR-IARI New Delhi* - Eco-friendly management of sheath rot in paddy caused by *Sarocladium oryzae* disease complex in India
3. **V. Prasad**, *Crop Research Station, Masodha, NDUAT, Ayodhya* - Evaluation of new fungicide combinations against sheath blight of rice in irrigated ecosystem
4. **Deepa Khulbe**, *RRTTS(Coastal Zone), OUAT, Bhubaneswar* - Integrating seed biopriming and soil characterization for management of seedling damping-off in tomato and chillinurseries

#### Session 8: Post-harvest diseases and mycotoxins

1. **P.P. Thirumalaismay** *ICAR-DGR, Junagadh, Gujarat* - Management of Aflatoxin contamination in peanut through good production, processing and storage practices in India
2. **R.R. Sharma**, *ICAR-Indian Agricultural Research Institute, New Delhi, India* - Influence of pre-harvest sprays of particle films on postharvest diseases, disorders and quality of pomegranate (*Punica granatum* L.)
3. **Vinod Kumar**, *ICAR-NRC on Litchi, Muzaffarpur, Bihar* - Soil Application of beneficial microbes enhance fruit quality and shelf life of litchi

#### Session 9: Disease management in organic and protected cultivation

1. **Tamás Marik**, *University of Szeged, Hungary* - Increased plant growth, fruit production and health of cultivated tomato after treatment with *Trichoderma reesei* peptaibols
2. **Shrawan Singh**, *Division of Vegetable Science, ICAR-IARI, New Delhi* - Search of resistance sources among cauliflower germplasm for *Alternaria* leaf spot caused by *Alternaria brassicicola*
3. **Samiya Saleh Al-Maawali**, *Muscat, Sultanate of Oman* - The potential of antagonistic yeasts and bacteria isolated from tomato phyllosphere and fructoplane in the control of *Alternaria* fruit rot of tomato

#### Session 10: Breeding strategies for plant disease resistance



1. **Mamta Pathak**, *Department of Vegetable Science, PAU, Punjab* - Development and release of first commercial variety of *Momordica balsamina*: An asset for root Knot nematode sick soils
2. **J. Nanjundan**, *ICAR-IARI, Wellington, Tamil Nadu* - Identification and characterization of new sources of resistance to white rust and powdery mildew of Indian mustard at Wellington – a disease hot spot
3. **V.K. Vikas**, *ICAR-IARI, Regional Station, Wellington* - Rapid phenotyping of stem and leaf rust diseases in wheat through speed breeding

#### Session 11: Bio-prospecting in disease management

1. **Dharmendra Kumar**, *Department of Plant Pathology, BUAT, Banda* - Nematode-trapping fungi: Strategic life style transitions and their role as bio-control agent in crop protection
2. **Bee Hameeda**, *Department of Microbiology, Osmania University, Hyderabad* - Microbial surfactants from plant growth promoting microorganisms as potential biocontrol agents
3. **Ritu Mawar**, *Division of Crop Improvement and Pest Management, ICAR-CAZRI, Jodhpur* - Rejuvenation of drying *Prosopis cineraria* through biocontrol agents in arid region
4. **Dr. U.R. Sangle**, *ICAR-NRC on Pomegranate, Solapur, Maharashtra* - Novel microbial consortia for holistic management of serious wilt complex disease problem in pomegranate cultivation

#### Session 12: Progress in chemical control of plant diseases

1. **Sanjeev Kumar**, *Department of Plant Pathology, JNKV, Jabalpur, Madhya Pradesh* - Role of crop protection chemicals in doubling farmer's income

#### Session 13: Workshop on Wilt disease of solanaceous crops

1. **Pramod Kumar Sahu**, *ICAR-NBAIM, Maunath Bhanjan, UP* - Phenomenon of reversal of phenotypic conversion in *Ralstonia solanacearum* and a simplified protocol for reversing avirulent to virulent colony types for consistency in results during prolonged experimentation
2. **G. Biswal**, *Department of Plant Pathology,*

*OUAT, Bhubaneswar* - Efficacy of bio-agents and chemicals in managing *Fusarial* wilt disease in tomato in field condition

3. **P. Sainamole Kurian**, *KAU, Thrissur, Kerala* - Variability of *Ralstonia solanacearum* in different agro-ecological units of Kerala

#### Session 14: Genomics and bioinformatics

1. **B.M. Bashyal**, *Division of Plant Pathology, ICAR-IARI, New Delhi* - Whole genome and transcriptome analysis reveal adaptive strategies and pathogenesis of *Fusarium fujikuroi* to rice (*Oryza sativa* L.)
2. **Ganesan Prakash**, *Division of Plant Pathology, ICAR-IARI, New Delhi* - Comparative genomics of *Magnaporthe* species infecting rice and pearl millet
3. **Nidhi Kumari**, *Department of Plant Pathology, CSKHPKV, Palampur* - Diversity and full genome based recombination analysis of *Pepper mild mottle virus*, a serious threat to capsicum cultivation in Himachal Pradesh, India
4. **Malkhan Singh Gurjar**, *Division of Plant Pathology, ICAR-IARI, New Delhi* - Genomics and functional analysis of virulence genes in *Tilletia indica*, pathogen of Karnal Bunt of wheat

#### Session 15: Transgenics and related approaches for disease management

1. **S.S. Dey**, *Division of Vegetable Science, New Delhi* - Doubled haploid population developed from interspecific hybrid (*Brassica oleracea* x *B. cretica*) could be used as potential source for effective resistance against black rot in *Brassicac*s
2. **Arundhati Ghosh**, *Department of Genetics, New Delhi* - Artificial miRNA-mediated targeting of ToLCV genes for virus resistance in tomato
3. **Ananya Mukherjee**, *Division of Plant Biology, Bose Institute, Kolkata* - Optimization of different promoters for spatio-temporal regulation of transgene expression in tomato

#### Session 17: International trade and biosecurity

1. **Bharat H. Gawade**, *ICAR-NBPGR, Pusa Campus, New Delhi* - Detection and identification of plant parasitic nematodes during international exchange of vegetative propagules and rooted germplasm
2. **Jameel Akhtar**, *ICAR-NBPGR, New Delhi* - Conventional techniques of seed health testing:



pivotal in disease-free import and safe conservation of plant genetic resources in National Genebank India

3. **Amitava Basu**, BCKV, West Bengal - Integrated approach for identification of *Ralstonia solanacearum* free areas in major potato growing districts to boost export from West Bengal

#### Session 18: Extension plant pathology: challenges in implementation

1. **Mallikarjun Kenganal**, ICAR-KVK, Yadgir Kawadimatti, Karnataka - Extension practices in plant disease management for doubling farm income
2. **Ashish Kumar Tripathi**, JNKVV, KVK, Panna, M.P. - Performance of on farm trails on management of rhizome rot disease of ginger in Bundelkhand region of Madhya Pradesh

#### Session 19: Plant pathologists Entrepreneurship and policy perspectives for food security

1. **Harvinder Kumar Singh**, IGKV, Raipur, Chhattisgarh - Mushrooms and fungal revolution: possibilities and perspective in Chhattisgarh.
2. **Nidhi Didwania**, Manav Rachna International Institute of Research & Studies, Faridabad - Plant pathologists entrepreneurship from idea to business
3. **Shivani**, GBPUAT, Pantnagar, Uttarakhand - Biofortification of *Pleurotus Sajor-caju* using zinc sulphate nanoparticle

#### Session 21: Workshop on Rust diseases of cereals

1. **Pramod Prasad**, ICAR-IIWBR, HP - Exploring and harnessing rust pathogen effectors for rust resistance in cereals
2. **Rajender Singh**, Department of plant Pathology, CSSHAU, Hisar - Current status of stripe rust of wheat in Haryana and assessment of avoidable yield loss

#### Best poster presentation award

Total 423 posters were presented in the conference and following posters (session wise) were awarded for best poster presentation award.

#### Session 1: Taxonomy of plant pathogens

1. **Priyam Panda**, Indira Gandhi National Open University, New Delhi - Multilocus gene specific

characterization of '*Candidatus Phytoplasma asteris*' (16SrI-B) associated with phyllody and flat stem diseases of marigold in India

2. **Dr. Meenu Gupta**, Dr. YSPUHF, Solan, HP - Occurrence of leaf spot of ridge gourd caused by *Didymella* sp. in Himachal Pradesh
3. **Gleena Mary C.F.**, KAU, Kerala - Pestalotiopsis twig blight of Thuja: Alarm bell for ornamental landscape gardens
4. **V.K. Yadav**, College of Agriculture, Ganj Basoda M.P. - A new rust on *Albizia*

#### Session 2: Plant disease diagnostics

1. **Sangeetha C.G.**, College of Horticulture, Bengaluru - Characterization of bacterial blight of anthurium in Karnataka
2. **Sangeeta Gupta**, ICAR-IARI, New Delhi - Development of nucleic acid based rapid diagnostic assays against wheat pathogens
3. **Priti**, ICAR-IARI, New Delhi - Recombinase polymerase amplification-based assay for field-level identification of *Thrips palmi*, a vector of tospoviruses
4. **Poulami Sil**, UBKV, Coochbehar, West Bengal - Characterization of *Leaf curl virus* infecting chilli crop in North Bengal
5. **Ravinder Pal Singh**, ICAR-IARI, New Delhi - Survivability of *Bacillus subtilis* in different liquid bioformulation for the management of foliar diseases of tomato

#### Session 3: Population genetics and pathogen diversity

1. **S.K. Goswami**, ICAR-NBAIM, Kusmaur, Mau, UP - Characterization of *Villosiclava virens* causing false smut of rice and its bio-control in India
2. **M. Gurivi Reddy**, ICAR-IARI, New Delhi - Characterisation of new 16SrII-C subgroup phytoplasma associated with chickpea stunt disease using multilocus gene specific primers
3. **Namarta Singh**, Savitribai Phule Pune University, Pune - Identification and molecular characterization of tomato *SINPR* gene family
4. **D.V. Pawar**, Department of Plant Pathology, VNMKV, Parbhani, Maharashtra - Occurrence and distribution of sesame Alternaria leaf blight disease in different Agro-climatic zones of Maharashtra state



#### Session 4: Host pathogen interaction and plant immunity

1. **Ritu Singh**, NIPGR, New Delhi - Next-generation genomics in *Cicer-Ascochyta* pathosystem to elucidate the quantitative disease resistance genes.
2. **Shweta Agarwal**, ICAR-IARI, New Delhi - Identification and expression analysis of a virulence gene *ToxA* in *Bipolaris sorokiniana* causing spot blotch of wheat.
3. **Amit Kumar Kesharwani**, ICAR-IARI, New Delhi - Identification of source of resistance in cauliflower against *Xanthomonas campestris* pv. *campestris*
4. **Saloni Mandloi**, JNKVV, Rewa, MP - Influence of Silicon on leaf blast of rice and their relationship on morphophysiological and yield attributing traits under drought stress.
5. **Thungri Ghoshal**, ICAR-IARI, New Delhi - Characterization of TALEs of Indian *Xanthomonas oryzae* pv. *Oryzae* race 4 causing bacterial blight of rice

#### Session 5: Climate change influencing plant diseases

1. **Tasvina R. Borah**, ICAR RC for NEH Region, Umiam, Meghalaya - Scenario of white mold disease with special reference to its emerging severity in the North East India.
2. **S.D. Takooree**, University of Mauritius, Réduit, Mauritius - A surveillance of pathogenic fungi on potatoes from different agroclimatic zones of Mauritius.

#### Session 6: Epidemiology and forecasting of plant diseases

1. **Ashwini Kumar**, Division of Plant Pathology, ICAR-IARI, New Delhi - Occurrence of *Cucumber mosaic virus* in *cucurbita pepo* and *Rumex hastatus* from Himachal Pradesh, India
2. **Santosh Kumar**, Department of Plant Pathology, MBAC, Saharsa (BAU, Sabour), Bihar - Effect of environmental factors on *Alternaria* leaf blight and leaf spot disease severity of makhana (*Euryale ferox*) in Koshi region of Bihar

#### Session 7: Plant health management vis-à-vis human health

1. **K.N. Gupta**, JNKVV Campus, Jabalpur - Integrated disease management technology for sesame.

2. **Rashmi Tewari**, Department of Plant Pathology, GBPUAT, Pantnagar - Antifungal potency of plant extracts against *Alternaria solani* and *Colletotrichum capsici*.
3. **Manisha Dubey**, Department of Vegetable Science, PAU, Ludhiana - Efficacy of extracts of aromatic plants against early blight disease of tomato

#### Session 8: Post-harvest diseases and mycotoxins

1. **Prem Pratap Singh**, Institute of Science, BHU, Varanasi - Optimization of nano encapsulated plant based synergistic formulation in post-harvest disease management of aflatoxin

#### Session 9: Disease management in organic and protected cultivation

1. **Lipa Deb**, CAU, Imphal, Umiam, Meghalaya - Antagonism of *Bipolaris oryzae*, brown spot of rice by entomopathogenic fungus, *Beauveria bassiana* and its plant growth promoting activity in rice, *Oryza sativa* Linn.
2. **T. Praveen**, Centre of Plant Protection Studies, TNAU, Coimbatore - Antifungal efficacy of volatile organic compounds – carvone and citronellol against *Fusarium oxysporum* f. sp. *lycopersici* the incitant of tomato wilt.
3. **S.S. Wagh**, College of Agriculture, Nandurbar, MS - Integrated management of *Alternaria* blight of safflower caused by *Alternaria carthami* under field conditions

#### Session 10: Breeding strategies for plant disease resistance

1. **Sukhjeet Kaur**, Department of Vegetable Science, PAU, Ludhiana - Evaluation of introgressed pre breeding material from *Solanum torvum* and *S. insanum* against root knot nematode in brinjal
2. **Somnath Kadappa Holkar**, ICAR-IISR, MS - Screening of sugarcane genotypes against yellow leaf disease in tropical and sub-tropical conditions in India
3. **Oinam Washington Singh**, Division of Plant Pathology, ICAR-IARI, New Delhi - Cross infectivity of *Albugo candida* isolates causing white rust in *Brassica juncea* on different cruciferous host

#### Session 11: Bio-prospecting in disease management

1. **Charishma Krishnappa**, ICAR-IARI, New Delhi



- Antimicrobial activities of rice phyllosphere and spermosphere microbiome associated *Pantoea* species on rice foliar pathogens, *Magnaporthe oryzae* and *Xanthomonas oryzae* pv. *oryzae*.
2. **M. Raja**, Department of Plant Pathology, SKN Agricultural University, Jobner, Jaipur, Rajasthan - Biosynthesis, characterization and evaluation silver nanoparticles from fungal antagonists and entomopathogens against major pests of groundnut
  3. **Vishakha Bagul**, Department of Plant Pathology College of Agriculture, Latur - *In vitro* bio-efficacy of *Pseudomonas fluorescens* against *Fusarium oxysporum* f. sp. *Lycopersici*
  4. **Reshma**, Department of Plant Pathology, Vellanikkara, Thrissur, Kerala - Investigations on abiotic stress tolerance and antagonistic potential of *Pseudomonas* isolates from Kerala
  5. **Nitika Gupta**, Shivajinagar, Pune - *In-vitro* evaluation of native Isolates of *Trichoderma asperellum* against *Fusarium oxysporum* f. sp. *gladioli* causing *Fusarium* wilt of gladiolus

#### Session 12: Progress in chemical control of plant diseases

1. **Jai Singh**, JNKVV, Kishi Vigyan Kendra, Singrauli, MP - Efficacy of integrated management technologies against Phytophthora blight in sesame in Kymore Plateau and Satpura Hills agroclimatic zone of Madhya Pradesh.
2. **Bhavya Mishra**, Department of Plant Pathology, GBPUAT, Pantnagar, Uttarakhand - Spray scheduling of fungicides for the management of *Stemphylium* blight of onion caused by *Stemphylium vesicarium*
3. **Shalini Verma**, Department of Plant Pathology, Dr. YSPUHF, Solan, HP - *In vitro* evaluation of some plant species extracts and fungicides against *Botryodiplodia theobromae* (Pat.) Griffon and Maube the pathogen of mango die back and gummosis

#### Session 13: Workshop on Wilt disease of solanaceous crops

1. **Jyoti Kumari**, Dr. RPCAU, Pusa, Samtipur - Green synthesis of silver nanoparticles, its characterization and study the efficacy against *Fusarium oxysporum*.

#### Session 14: Genomics and bioinformatics

1. **Pallavi Mishra**, Division of Plant Pathology, ICAR-IARI, New Delhi - Genome analysis of strain UTT-25 of *Ralstonia solanacearum* isolated from tomato in India.
2. **Amala Mol, D.**, Division of Crop Protection, ICAR-SBI, Coimbatore - Developing an inducible vector system for controlled expression of effector proteins of the filamentous fungi, *Colletotrichum falcatum*
3. **Darshan K.**, Division of Plant Pathology, ICAR-IARI, New Delhi - RNA-seq reveals dynamic expression of genes in *Chaetomium globosum* antagonistic to *Bipolaris sorokiniana* causing spot blotch of wheat

#### Session 18: Extension plant pathology: challenges in implementation

1. **Mallikarjun Kenganal**, ICAR-KVK, Yadgir Kawadimatti, Karnataka - Constraints and problems in plant pathology extension  
Constraints and problems in plant pathology extension

#### Valedictory function

Valedictory function of the conference was held at Dr. B.P. Pal Memorial Auditorium, ICAR-Indian Agricultural Research Institute, New Delhi on 19<sup>th</sup> Jan., 2020. Dr. M. P. Thakur, President, IPS, welcomed the dignitaries on the dais and off the dais from 24 countries of the world attending the 7<sup>th</sup> International Conference. In the valedictory function, Dr. C.D. Mayee was Chief Guest and Dr. A.N. Mukhopdhyay and Dr. Anupam Varma were Guest of Honours in the function. Dr. Ashok Kumar Singh, Director, ICAR-IARI, New Delhi was presided over the function, who in his address emphasized on the need of institutional reform for human resource development by exposing the young scientists to the best of the laboratories and research environment outside the country. He also urged the scientists to make endeavours to meet the challenge of increasing country's agri-export earnings from the present 39 billion US \$ to 80 billion US \$. To achieve this daunting task, our produce for agri-exports must be either free of pesticidal contaminants or below maximum residue limit set by international standards. He further added about the scope of using gene editing tools for making variants of genes of resistance.



Valedictory function of the International Conference

The Chief Guest, Dr. C. D. Mayee, Former Chairman, Agricultural Scientists Recruitment Board (ASRB), New Delhi expressed his concern on the use of chemical pesticides in plant disease management. He informed that the researchers were also less oriented towards chemical management of plant diseases which was evidenced by the fact that only about 10 per cent of papers presented in this conference were on chemical management as against 52 per cent of the papers in the 1<sup>st</sup> International Conference of IPS organized way back in 1966.

The Guest of Honour, Dr. Anupam Varma, an Eminent Virologist of international repute, told about the need to produce more food combating various emerging and re-emerging diseases and by adopting natural farming ways. The Guest of Honour, Dr. A.N. Mukhopadhyay, Former Vice-Chancellor, Assam Agricultural University, Jorhat (Assam) urged upon the plant pathologists to focus their research on a few national problems of importance.

Earlier, Dr. Rashmi Aggarwal, Dean & Joint Director (Edn), ICAR-IARI, New Delhi placed the technical report of the Conference in front of the august gathering. The technical report comprised of 33 recommendations which emerged out of discussions in different technical sessions. The recommendations endorsed upon the need (i) for establishment of National Plant Pests Diagnostics Network to ensure bio-security in Indian agriculture, (ii) for strict regulations for manufacturing, distribution and licensing of pesticides to avoid residual toxicity, (iii) to study the involvement of major dominant genes for disease resistance and to incorporate these genes in breeding programme, (iv) to identify novel bio-control agents and to validate the technologies developed

against seed and soil-borne disease, and (v) to quantify abrupt climate variables with respect to emerging diseases.

Dr. P.K. Chakrabarty, President (Elect), IPS & Member, ASRB emphasized that IPS has to play a greater role in bringing desired changes in the plant protection scenario of the country and has to develop greater linkages with other national and international societies.

IPS felicitated the representatives of thirteen co-organizers of this international event.

## Recommendations

These following few recommendations emerged from the different technical sessions:

### Research

- Need to conserve biodiversity by explore culture able and non-cultural fungi and bacteria.
- Diversity in emerging pathogens needs to be given more emphasis which will help in identification of resistance.
- Cryptic species need to be identified in species complexes of the fungal pathogenic genera.
- Genomics and bioinformatics are the new areas of plant pathology and correlation with wet lab studies are needed to validate the dry lab studies for better understanding of the pathogenicity and their application to achieve UN Sustainable Development Goals (SDGs).
- Correct diagnosis is the important component of Plant Pathology for fungi, bacteria, phytoplasma, viruses and nematodes. Manpower training in this area need to be strengthened with support of modern techniques, which are highly reliable, fast and accurate, highly sensitive and low cost.



- Testing kit developed by reputed companies may be used as diagnostic kits. Diagnosis-linked nation-wide pest surveillance needs to be undertaken.
- Need to develop user-friendly diagnostics such as lateral flow strips for on spot detection of diseases in the field
- More stress should be given for development of diagnostics for emerging diseases and diseases of national importance.
- The practice of seed bio priming instead of conventional seed treatment methods needs to be demonstrated on mass scale for the farmers.
- Plant growth promoting microorganisms and bio control agents need to be popularised/commercialised as plant defense inducers.
- Need to develop eco-friendly control methods for sustainable plant health.
- Novel bio control agents need to be identified and technologies developed for the management of seed and soil-borne diseases be validated.
- More emphasis to be given on commercialization of eco-friendly technologies for disease management.
- Marker assisted selection (MAS) and novel techniques such as speed breeding and genomics-based trait discovery should be emphasized.
- Involvement of major dominant genes needs to be studied and incorporated in breeding programme for major crops.
- Management practices should be concise, easy to follow and easily accessible.
- Need to develop protocol for use of Nanotechnology for the management of plant diseases. More concentrated efforts and emphasis should be given by research organizations on this aspect.
- Vegetable grafting approach showing excellent results needs to be implemented for mass multiplication of grafted plants particularly for soil borne diseases.
- Mixed farming technique needs to be exploited for small and marginal farmers.
- Impact of climate change on diseases can be mitigated by adaptation. However, there is a need to quantify abrupt climate variables in relation to emerging diseases.
- Molecular basis of host pathogen interactions in major diseases of wheat, rice, maize, potato and soybean needs to be elucidated.
- Proteomics may be used as a valid tool for complementing information generated through NGS platforms, so that a comprehensive understanding could be attained at the protein-protein level of interaction.
- Need to encourage research on epidemiology and development of forecast models more so in emerging diseases.
- Researchers and consumers should be sensitized for the risk of mycotoxins and about health hazard related chemicals used in post harvest disease management. Regulatory agency should restrict the use of hazardous chemicals.
- Novel tools and techniques for rapid on-site disease diagnosis linked with forecasting such as AI, GIS, DSS need to be developed for diseases especially for the crops cultivated on larger areas.

### Human Resource Development

- Urgent need to revise the curriculum of plant pathology in different Agricultural Universities due to development of newer technologies viz., communication (mobile apps), digitization, nanotechnology, robot technology, remote sensing etc.
- Practical-based teaching is required. More practicals need to be in curriculum with field visits, farmers interaction etc.
- More emphasis need to be given on identification of diseases, their causal organism and practical aspects for correct identification and their management strategy. Mycology needs to be strengthened in the curriculum and fungal identification needs to be more intensified.
- Certificate and Diploma courses need to be initiated in plant pathology for developing new entrepreneurs.
- Mushroom growing training needs to be given more emphasis as youth can start the start-up.
- Considering the importance of post-harvest losses due to diseases, IPS should organize a Brain Storming Session to encourage research and development in this area.



### Policy Issues

- Need for strict regulations for manufacturing, distribution and licensing of pesticides to avoid residual toxicity.
- Need to address the issues/constraints related to quality control, commercialization and marketing of the products.
- Need for establishment of National Plant Pests Diagnostics Network to ensure biosecurity of Indian agriculture.
- Need to create organized plant clinic at sub-division/ Block level too as we have primary health centre. Such clinics may be created at focal point easily accessible to farmers. Diagnostic kits developed for some diseases should be made available to Plant Health Clinic.
- Simplification and transparent of registration guidelines with more stringency on lab/field testing and quality control.
- Need to review and update pests list and strengthen domestic quarantine in India.
- All SAUs must launch programme for entrepreneurship development in the area of Plant Pathology with knowledge of bio-safety and bio-security.
- Need to strengthen National Plant Protection Organization (NPPO) in terms of manpower and infrastructure for stringent quarantine of commercial material to biosecure Indian agriculture.
- Need for South Asia Regional Platform on Biosecurity for sharing diagnostics and to identify A1 and A2 pest list for South Asia region/ SAARC region.

### Extension

- Extension Plant Pathologists are less recognized though their role is very important for guiding the farmers. Specialized training is needed for them from research organizations/SAUs. They need to be sensitized and well-motivated and government should encourage the young researchers by providing them some incentive.
- KVK should play key role to develop model Plant Health Clinics at village level to provide right guidance to the farmers. It can be implemented through Government's skill development programme. Computer based programme be developed for identifying diseases and their management.

- SAUs and research organizations take lead role to formulate a regular training programme for pesticide dealers and farmers to educate them for the right chemicals, their doses, handling risks, safety measures etc.

### Farmers

- Need to educate farmers through KVKs for safe, need-based and judicious use of pesticides.
- Self-help groups of farmers may be given training on mass multiplication and application of bio control agents for disease management.

### Acknowledgements

The Society is thankful to Dr. M.P. Thakur, President-IPS for his guidance, advice, encouragement and support in day to day functioning of the Society and also thankful to all the Executive Council members for their cooperation, active support and suggestions in various activities of the Society. Also to Dr. P.K. Chakrabarty, Chairperson, Local Organizing Committee, Dr. Rashmi Aggarwal, Co-chairperson, Local Organizing Committee and Dr. Robin Gogoi, Co-organizing Secretary of the Conference; Chairman, Co-chairman and rapporteurs of various technical sessions and members of organizing sub committees for their wholehearted support in making the International Conference a grand success. The staff members and students for rendering their valuable help in various ways and also the staff of the Headquarter of IPS for their valuable support.

The Society is thankful to the following co-organizing institutions/societies, for their cooperation and collaboration for organizing the international conference at IARI, New Delhi.

1. APS: American Phytopathological Society, USA
2. ICAR-NIPB: National Institute for Plant Biotechnology, New Delhi, India
3. ICAR-NBPGR: National Bureau of Plant Genetic Resources, New Delhi, India
4. ICAR- IARI: Indian Agricultural Statistics Research Institute, New Delhi, India
5. Asian PGPR Society, USA
6. ISMPP: Indian Society of Mycology and Plant Pathology, Udaipur, Rajasthan, India
7. SLAMPP: Sri Lanka Association for Mycology & Plant Pathology, Sri Lanka



8. INSOPP: Indian Society of Plant Pathologists, Ludhiana, Punjab, India
9. ICAR-NCIPM: National Research Centre for Integrated Pest Management, New Delhi, India
10. ICAR-NIAP: National Institute of Agricultural Economics and Policy Research, New Delhi, India
11. APP: Association of Plant Pathologist, Akola, Maharashtra, India
12. SABC: South Asia Biotechnology Centre, New Delhi, India
13. FARMER: Foundation for Agricultural Resources Management and Environmental Remediation, Ghaziabad, U.P., India
14. ISPP: International Society of Plant Pathology, USA
1. ICAR: Indian Council of Agricultural Research, New Delhi
2. SERB: Science and Engineering Research Board (DST), New Delhi
3. NBA: National Biodiversity Authority, Chennai, TN
4. NHB: National Horticulture Board, Gurugram
5. NABARD: National Bank for Agriculture and Rural Development, Mumbai
6. CSIR: Council of Scientific and Industrial Research, New Delhi
7. ONGC: Oil and Natural Gas Corporation, Faridabad
8. Department of Horticulture and Farm Forestry, Raipur, Chhattisgarh
9. Dhanuka Agritech Ltd., New Delhi
10. IFFCO, New Delhi and ADAMA, Hyderabad

The financial support extended by the following organizations for organizing IPS 7<sup>th</sup> International Conference at IARI Campus, New Delhi during January 16-20, 2020 are gratefully acknowledged



Group photograph: Delegates of the IPS 7<sup>th</sup> International Conference 2020

# Publications

## Journal: *Indian Phytopathology*

[ISSN 0367-973X (print version) 2248-9800 (electronic version); NAAS Rating : 5.9]

All the four issues of the journal *Indian Phytopathology* for the year 2019 including special issue on “Advances in Fusarium Research” were published timely and available online.

On behalf of Chief Editor, the report was presented by the Dr. S.C. Dubey, Senior Editor, *Indian Phytopathology*. During 2019-20, total 339 papers were received through on-line submissions. Out of these, 109 were rejected, 96 published, 134 are in review. 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. Efforts rendered by the editors were appreciated, especially for refereeing and evaluation of the manuscripts timely.

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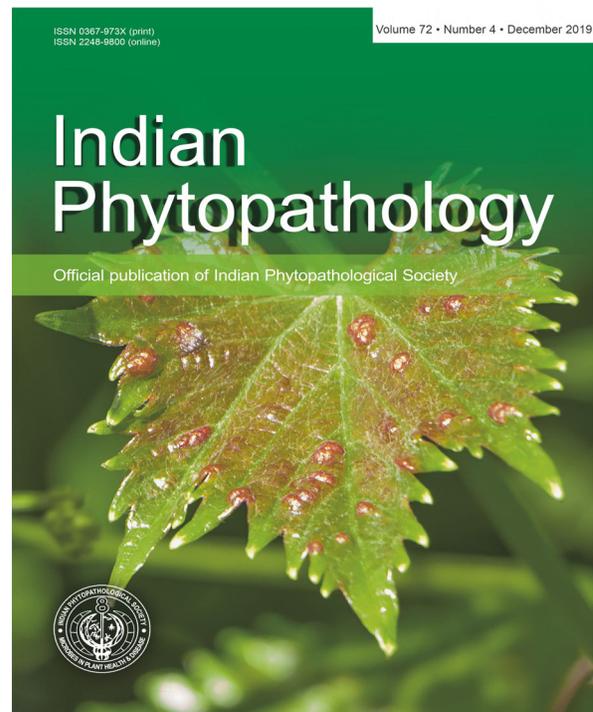
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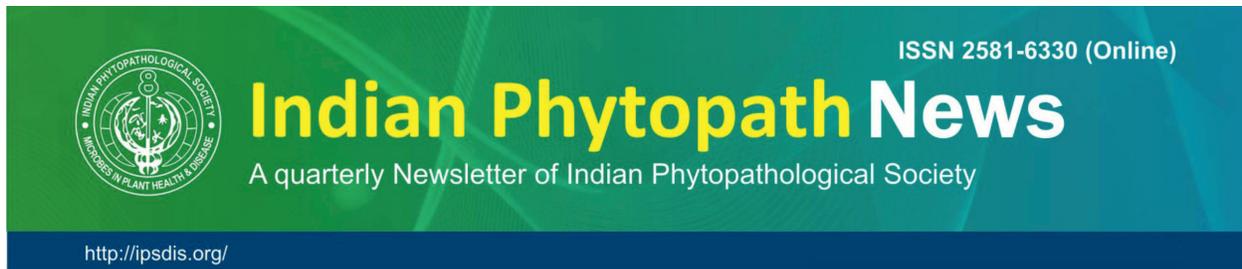
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The Society has initiated to publish quarterly online newsletter "Indian Phytopath News" from 2018. All the 4 issues of the Newsletter (2019) published timely and are available online on IPS website in pdf form.

The newsletter publishes research highlights, seminar/symposia/brain storming sessions/conferences/trainings organized and conducted, forth-coming events, awards/honours, promotion/transfer/necrology/foreign visit/ important news (world-wide) related to plant pathology, disease outbreak and plant protection medley.

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### From President's Desk

Increasing global food demand has necessitated enhancing food production and productivity. For this, farmers are practising intensive cultivation using excessive quantity of fertilisers, agrochemicals and pesticides to produce more and more which ultimately leads to adverse effects on the environment and human health. This might be one of the reason of United Nation General Assembly declaring 2020 as International Year of Plant Health like that of International Year of Soil Health. The Indian Phytopathological Society (IPS), New Delhi has planned to organise 7th International Conference on "Phytopathology in achieving UN Sustainable Development Goals" to mark the International Year of Plant Health from January 16-20, 2020. I am happy that this mega event is being organised in collaboration with 12 like minded academic societies of the country and abroad as Co-Organisers. I think, the topic of the 7th International Conference chosen by the society seems to be most appropriate in fulfilling the aims and objectives framed by the UN in achieving 17 Sustainable Development Goals (SDGs).

FAO estimates that pests and diseases are responsible for about 25% of global crop losses due to diseases alone. In India it amounts to about Rs. 150 crores every year which is roughly 20% of the total produce. For the past 50 years, the ability to combat plant diseases through the use of modern farm management methods, fertilization of crops, irrigation techniques, and pest control have made it possible to produce enough food to feed its population and to have surpluses for export. It has been observed that with the advancement of crop production technology the disease causing organisms are also keeping same pace. Under such situation phytopathologists can play a pivotal role in minimising yield losses caused by the diseases to the tune of 20% using latest technologies.

All these issues are going to be addressed during 7th International Conference by the experienced scientists of 25 countries through their deliberations. About 700 participants are expected to participate. The Hon'ble Union Agriculture Minister has consented to be the Chief Guest in the inaugural function. The conference is planned with 21 technical sessions and nine plenary lectures, 48 keynote lectures, about 103 invited/oral speakers and huge number of poster presentations. I wish the best for active participation of all the scientists to make the international event a grand success.

(M.P. Thakur)  
President, IPS

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## Indian Phytopath News

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### Editorial

#### Development of Plant immunity inducers and application in Plant protection

B.N. Chakraborty  
Chief Editor, IPS Newsletter

Strategies that enhance plant immunity and improve healthy plant growth have great potential for avoiding plant diseases, thereby reducing the need for pesticides to prevent infestations and diseases. Plant immunity inducing proteins are being developed with biological activity which has accelerated the process of protein drug discovery and development. Innovative screening procedures have resulted in the isolation of various immunity-inducing proteins (PeaT1, Hrip1, Mohrip1, Mohrip2, PemG1, PevD1, Gc1, PbcC1, PpBL1 and PeBA1) from a wide range of pathogens, which includes *Koeleria gracilis*, *Botrytis cinerea*, *Alternaria tenuissima*, *Verticillium dahliae*, *Bacillus amyloliquefaciens* and *Brevibacillus laterosporus*. New technologies have been developed to produce plant immunity-inducing proteins with high efficiency at low cost.

Natural chitosan oligosaccharides and trehalose are effective plant immunity inducers and have been shown to enhance disease resistance in various crops. Chitosan, a component of the cell walls of some pathogenic bacteria

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8. Dr. U.K. Tripathi, C.S. Azad University of Agriculture & Technology, Kanpur, Uttar Pradesh, Email: tripathiuk\_1960@rediffmail.com

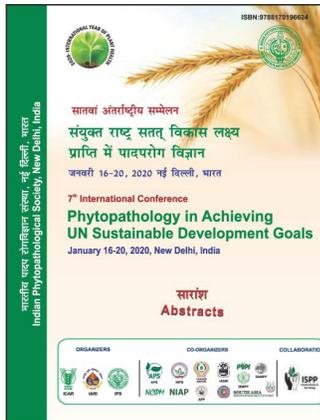


9. Dr. Rakesh Mehra, C.C.S. Haryana Agricultural University, Regional Research Station, Karnal, Haryana, Email: rmehra1354@gmail.com
10. Dr. P.L. Kashyap, ICAR-Indian Institute of Wheat and Barley Research, Karnal, Haryana, Email: plkashyap@gmail.com
11. Dr. Pankaj Baiswar, ICAR Research Complex for NEH Region, Umiam, Meghalaya, Email: pbaiswar@yahoo.com
12. Dr. Tasvina R. Borah, ICAR Research Complex for NEH Region, Umiam, Meghalaya, Email: tasvinaborah@gmail.com
13. Dr. M. B. Patil, Agricultural Extension Education Center, Koppal, Karnataka, Email: patilmb\_65@yahoo.com
14. Dr. Y.S. Amaresh, College of Agriculture, UAS Campus, Raichur, Karnataka, Email: ysama2008@rediffmail.com
15. Dr. C.D. Deokar, Mahatma Phule Krishi Vidyapeeth, Rahuri, Maharashtra, Email: cd\_deokar@rediffmail.com
16. Dr. V.K. Bhalerao, Mahatma Phule Krishi Vidyapeeth, Rahuri, Maharashtra, Email: vkb145@gmail.com

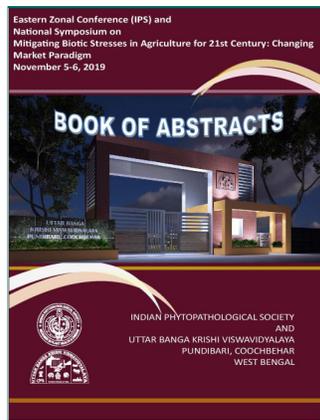
# Publication

## Abstract books and other publications

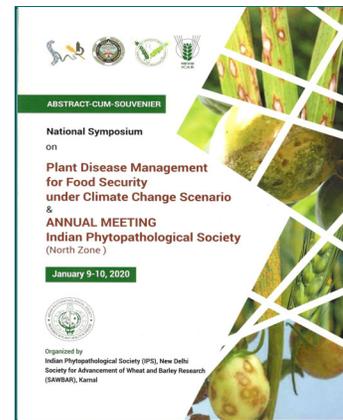
### Abstract books and other publications published during 2019-20



Abstract Book: 7<sup>th</sup> International Conference 2019-20



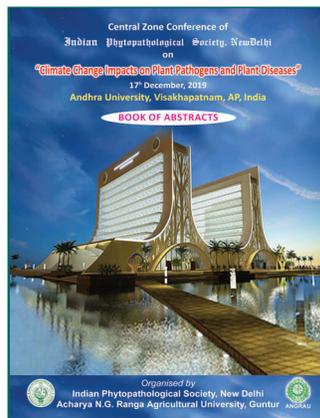
Abstract Book: Eastern Zone Symposium 2019-20



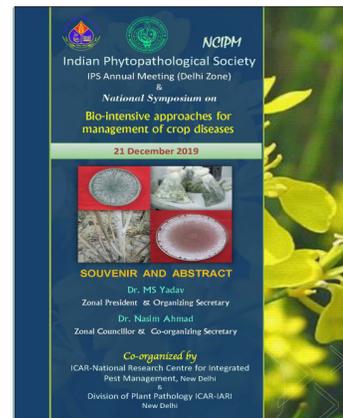
Abstract Book: Northern Zone Symposium 2019-20



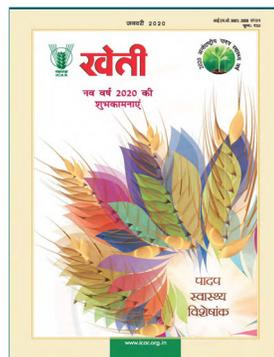
Abstract Book: Southern Zone Symposium 2019-20



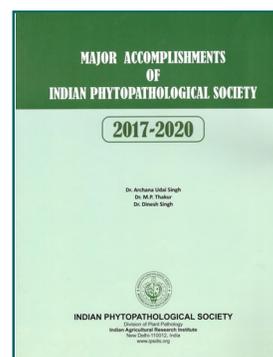
Abstract Book: Central Zone Symposium 2019-20



Abstract Book: Delhi Zone Symposium 2019-20



Kheti: Special Issue for IPS 7<sup>th</sup> International Conference 2019-20



Major Accomplishments of IPS 2017-20



# Financial Statement

## GST certificate of the Society

As per the suggestion from Chartered Accountant, 18% GST is applicable on the conference registration fee, sponsorship/advertisement fee as well as on IPS membership fee. Hence, the GST number (07AAAAI2475R1Z9) has taken for the Society.



Government of India  
Form GST REG-06  
[See Rule 10(1)]

## Registration Certificate

Registration Number : 07AAAAI2475R1Z9

1.	Legal Name	INDIAN PHYTOPATHOLOGICAL SOCIETY			
2.	Trade Name, if any	INDIAN PHYTOPATHOLOGICAL SOCIETY			
3.	Constitution of Business	Society/ Club/ Trust/ AOP			
4.	Address of Principal Place of Business	Division of Plant Pathology, ICAR-Indian Agricultural Research Institute, NEW DELHI, Central Delhi, Delhi, 110012			
5.	Date of Liability	01/01/2020			
6.	Period of Validity	From	01/01/2020	To	Not Applicable
7.	Type of Registration	Regular			
8.	Particulars of Approving Authority	Signature			
	Name				
	Designation				
	Jurisdictional Office				
9.	Date of issue of Certificate	09/01/2020			
Note: The registration certificate is required to be prominently displayed at all places of business in the State.					

This is a system generated digitally signed Registration Certificate issued based on the deemed approval of application on 09/01/2020.



The main sources of funds for the Society is membership fee, subscription of journal and financial assistance from different organizations. During the year 2019-20, the accounts of the Society are audited by Chartered Accountants appointed. A brief Audited Statement of Accounts for 2019-20 (Receipt and Payment A/c, Income & Expenditure and Balance Sheet) is given.

### INDIAN PHYTOPATHOLOGICAL SOCIETY

#### RECEIPT & PAYMENT ACCOUNT For the year ended March 31, 2020

RECEIPT	CURRENT YEAR Rs.	PAYMENT	CURRENT YEAR Rs.
<b>Opening Balances as on 01st April, 2019</b>		<b>Symposium/Meetings</b>	
Cash in Hand	4,562	Meeting Expenses with TA/DA Expense	11,84,063
Balance in Savings Bank Account	24,75,245	Delhi Zone Symposium Expenditure	1,39,852
<b>Financial Assitances</b>		Momento	2,28,936
INSA	50,000	Accommodation Charges	1,24,470
Publication Grant	2,00,000	Award Expenses	48,400
Sponsorship for B.H.U Conference	5,00,000	National Symposium BHU	8,94,965
International Conference Bangkok	3,53,760	<b>Printing/Publication Expenses</b>	
<b>International Conference 2020</b>		Printing Expenses	7,38,666
IPS Conf2020 Registration	38,40,603	<b>International Conference Expenses</b>	
IPS Conf2020 Sponsorship/ Fin. Asst.	4,00,000	Hall Expenses	5,57,908
IPS Conf2020 Registration in Society A/	1,06,352	Cultural Programme	88,500
Sponsorship for DZ Symposium	1,30,100	Registration Kit	5,59,617
<b>Administrative Receipts</b>		Food & Tent Exp	20,17,971
Membership Fees	15,56,868	International Conference	6,44,789
FPSI Fee	45,000	Honorarium Exp	80,000
Interest on Savings Bank	1,16,639	Transport Expenses	1,45,191
Interest on Income Tax Refund	7,910	Poster Expenses	85,960
Subscription	10,200	Signages & Backdrop Exp	70,611
Royalty on Journal (Springer)	1,83,442	Website Designing & Developing	73,796
Endowment Fund- Award	5,00,000	<b>Administrative Expenses</b>	
<b>Capital Accounts</b>		Laptop Repair	7,316
Income Tax Refund A.Y 17-18	7,320	Election Expenses	45,028
Income Tax Refund A.Y 18-19	62,350	Office Running Expenses	1,15,513
		Staff Salary	8,05,560
		Sticker Expenses	1,180
		Telephone / Internet Expenses	7,050
		Bank Charges	11,174
		Tally Software Services Gold	21,240
		Interest & Penelty on TDS	10,613
		Professional Fee	2,30,900
		Computer & Printer Purchase	66,900
		TDS Payment f.y 18-19	9,213
		Non-Show Charges	16,635
		Postage Expenses	28,516
		<b>Fixed Deposit</b>	
		Fixed Deposit	10,00,000
		<b>Closing Balances as on 31st March, 2019</b>	
		Cash in Hand	3,000
		Balance in Savings Bank Account	3,31,516
		International Conference Bank Account	1,55,302
<b>TOTAL</b>	<b>1,05,50,351</b>	<b>TOTAL</b>	<b>1,05,50,351</b>

For **SKY ASSOCIATES**  
Chartered Accountants

Anil Kumar Mathpal  
Partner  
Membership No. - 503011

PLACE: NEW DELHI  
DATE: 25/11/2020



For **INDIAN PHYTOPATHOLOGICAL SOCIETY**

Robin Gogoi  
(Secretary)  
**डॉ. रोबिन गोगोई**  
सचिव / Secretary  
भारतीय पौधरोग विज्ञान समाज  
Indian Phytopathological Society  
पादप रोग विज्ञान संस्थान  
Division of Plant Pathology  
भा.क.अनु.प.-भा.क.अनु.सं., नई दिल्ली-12, भारत  
ICAR-IARI, New Delhi-12, India

Malkhan Singh Gurjar  
(Treasurer)



**डॉ. मलखान सिंह गुर्जर**  
Dr. Malkhan Singh Gurjar  
कोषाध्यक्ष / Treasurer  
भारतीय पौधरोग विज्ञान समाज  
Indian Phytopathological Society  
पादप रोग विज्ञान संस्थान  
Division of Plant Pathology  
भा.क.अनु.प.-भा.क.अनु.सं., नई दिल्ली-12, भारत  
ICAR-IARI, New Delhi-12, India

UDIN No.: 20503011AAAAEV2990



INDIAN PHYTOPATHOLOGICAL SOCIETY

**INCOME & EXPENDITURE ACCOUNT**  
For the year ended March 31, 2020

EXPENDITURE	CURRENT YEAR Rs.	INCOME	CURRENT YEAR Rs.
<b>Symposium/Meetings</b>		<b>Financial Assitances</b>	
Meeting Expenses with TA/DA Expenses	7,83,161	INSA	50,000
Delhi Zone Symposium Expenditure	1,39,852	Publication Grant	2,00,000
Memento	2,04,225	Sponsorship for B.H.U Conference	4,23,729
Accommodation Charges	1,14,750	International Conference Bangkok	3,53,760
Award Expenses	45,678		
		Sponsorship for DZ Symposiam	1,26,695
<b>Printing/Publication Expenses</b>	6,71,621		
Printing Expenses		<b>International Conference 2020</b>	
		IPS Conf 2020 Registration	1,35,166
<b>International Conference Expenses</b>	5,08,300	IPS Conf 2020 Sponsorship/ Fin. Asst.	3,38,983
Hall Expenses	75,000	International Conference 2020	32,50,511
Cultural Programme	4,89,302		
Registration Kit	15,000		
IPS Conf 2020 Expenses	72,848	<b>Administrative Receipts</b>	
Poster Expenses	3,35,800	Membership Fees	14,78,221
Registration Counter & Tent Exp	17,10,145	FPSI Fee	89,237
Food & Tent Exp	1,37,843	Subscription	8,644
Transport Expenses	59,840	Interest on FD	8,29,658
Signages & Backdrop Exp	60,696	Interest on Savings Bank	1,16,639
Website Designing & Developing	80,000	Discount Received	12,049
Honorarium Exp		Interest on Income Tax Refund	7,910
		Endowment Fund- Award	5,00,000
<b>Administrative Expenses</b>		Springer Royalty on Journal	2,03,824
Laptop Repair	6,200		
Election Expenses	45,028		
Office Running Expenses	1,14,003		
Postage Expenses	28,516		
Staff Salary	8,05,560		
Sticker Expenses	1,000		
Telephone / Internet Expenses	7,050		
Miscellaneous Expenses	9,004		
Audit Fees	23,600		
Bank Charges	11,174		
Tally Software Services Gold	18,000		
Interest & Penelty on TDS	10,613		
No-Show Charges	16,635		
Depreciation	15,495		
Professional Fee	2,07,300		
	68,23,239		
<b>Total Expenditure</b>	13,01,787	<b>Total Receipts</b>	81,25,027
<b>EXCESS OF INCOME OVER EXPENDITURE CARRIED OVER TO BALANCE SHEET</b>			
	81,25,027		

For Tasky Associates  
Chartered Accountants

Anil Kumar Mathpal  
Partner  
Membership No. - 503011

PLACE: NEW DELHI  
DATE: 25/4/2020



For INDIAN PHYTOPATHOLOGICAL SOCIETY

Robin Gogoi  
Dr. Robin Gogoi  
सचिव / Secretary  
इंडियन फाइटोपैथोलॉजिकल सोसाइटी  
Indian Phytopathological Society  
पादप रोग विज्ञान विभाग  
Division of Plant Pathology  
भा.क.अनु.प.-भा.क.अनु.सं., नई दिल्ली-12, भारत  
ICAR-IARI, New Delhi-12, India



Malkhan Singh Gurjar  
(Treasurer)  
डा. मलखान सिंह गुर्जर  
Dr. Malkhan Singh Gurjar  
कोषाध्यक्ष / Treasurer  
इंडियन फाइटोपैथोलॉजिकल सोसाइटी  
Indian Phytopathological Society  
पादप रोग विज्ञान विभाग  
Division of Plant Pathology  
भा.क.अनु.प.-भा.क.अनु.सं., नई दिल्ली-12, भारत  
ICAR-IARI, New Delhi-12, India



## INDIAN PHYTOPATHOLOGICAL SOCIETY

BALANCE SHEET AS AT MARCH 31, 2020

L I A B I L I T I E S	Rs.	CURRENT YEAR Rs.	A S S E T S	Rs.	CURRENT YEAR Rs.
<b>CORPUS FUND</b>			<b>FIXED ASSETS (Schedule A)</b>		97,752
Opening Balance	1,18,46,078		<b>CURRENT ASSETS, LOANS &amp; ADVANCES</b>		
Add:- Income Tax Refund A.Y 17-18	7,320		<b>CURRENT ASSETS:</b>		
Add:- Income Tax Refund A.Y 18-19	62,350		Cash and Bank Balances		
Add: Excess of Income over Expenditure transferred from Income & Expenditure Account	13,01,787	1,32,17,535	Cash in Hand	3,000	
			Cash in Bank	3,31,516	
			- Syndicate Bank Society A/c	1,55,302	
			Fixed Deposits	1,25,08,689	1,29,98,506
<b>CURRENT LIABILITIES</b>			TDS Receivable		2,11,641
GST Payable	85,827		Other Receivables		66,198
TDS Payable	45,735				
Expenses Payable		1,56,562			
- Other Payables	25,000				
		1,33,74,098			1,33,74,098

**For Tasky Associates**  
Chartered Accountants

*Anil Kumar Mathpal*  
Anil Kumar Mathpal, CA, LLB  
Partner  
Membership No. - 503011

PLACE: NEW DELHI  
DATE: 25/11/2020

UDIN No.: 20503011AAAAAEV2990

For INDIAN PHYTOPATHOLOGICAL SOCIETY

*Malikhan Singh Gurjar*  
Malikhan Singh Gurjar  
(Treasurer)

**डॉ. मलखान सिंह गुर्जर**  
Dr. Malikhan Singh Gurjar  
कोषाध्यक्ष / Treasurer  
भारतीय फाइटोपथोलॉजिकल सोसायटी  
Indian Phytopathological Society  
प्राचार्य रोमन बिहारी सहाय  
Division of Plant Pathology  
आर.एस.आर.ए.-आर.एस.आर.ए., पं. दिल्ली-12, भारत  
ICAR-IARI, New Delhi-12, India



**डॉ. रोबिन गोगोई**  
Dr. Robin Gogoi  
सचिव / Secretary  
भारतीय फाइटोपथोलॉजिकल सोसायटी  
Indian Phytopathological Society  
प्राचार्य रोमन बिहारी सहाय  
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ICAR-IARI, New Delhi-12, India





# Acknowledgements

The Society is thankful to Dr. M.P. Thakur, President-IPS for his guidance, advice, encouragement and support in day to day functioning of the Society and also thankful to all the Executive Council members for their cooperation, active support and suggestions in various activities of the Society. Also to Dr. P.K. Chakrabarty, Chairperson, Local Organizing Committee, Dr. Rashmi Aggarwal, Co-chairperson, Local Organizing Committee and Dr. Robin Gogoi, Co-organizing Secretary of the Conference; Chairman, Co-chairman and rapporteurs of various technical sessions and members of organizing sub committees for their wholehearted support in making the International Conference a grand success. The staff members and students for rendering their valuable help in various ways and also the staff of the Headquarter of IPS for their valuable support.

The Society is thankful to the following co-organizing institutions/societies, for their cooperation and collaboration for organizing the international conference at IARI, New Delhi.

1. APS: American Phytopathological Society, USA
2. ICAR-NIPB: National Institute for Plant Biotechnology, New Delhi, India
3. ICAR-NBPGR: National Bureau of Plant Genetic Resources, New Delhi, India
4. ICAR-IARI: Indian Agricultural Statistics Research Institute, New Delhi, India
5. Asian PGPR Society, USA
6. ISMPP: Indian Society of Mycology and Plant Pathology, Udaipur, Rajasthan, India
7. SLAMPP: Sri Lanka Association for Mycology & Plant Pathology, Sri Lanka
8. INSOPP: Indian Society of Plant Pathologists, Ludhiana, Punjab, India

9. ICAR-NCIPM: National Research Centre for Integrated Pest Management, New Delhi, India
10. ICAR-NIAP: National Institute of Agricultural Economics and Policy Research, New Delhi, India
11. APP: Association of Plant Pathologist, Akola, Maharashtra, India
12. SABC: South Asia Biotechnology Centre, New Delhi, India
13. FARMER: Foundation for Agricultural Resources Management and Environmental Remediation, Ghaziabad, U.P., India
14. ISPP: International Society of Plant Pathology, USA

The financial support extended by the following organizations for organizing IPS 7<sup>th</sup> International Conference at IARI Campus, New Delhi during January 16-20, 2020 are gratefully acknowledged

1. ICAR: Indian Council of Agricultural Research, New Delhi
2. SERB: Science and Engineering Research Board (DST), New Delhi
3. NBA: National Biodiversity Authority, Chennai, TN
4. NHB: National Horticulture Board, Gurugram
5. NABARD: National Bank for Agriculture and Rural Development, Mumbai
6. CSIR: Council of Scientific and Industrial Research, New Delhi
7. ONGC: Oil and Natural Gas Corporation, Faridabad
8. Department of Horticulture and Farm Forestry, Raipur, Chhattisgarh
9. Dhanuka Agritech Ltd., New Delhi
10. IFFCO, New Delhi and ADAMA, Hyderabad



**INDIAN PHYTOPATHOLOGICAL SOCIETY**  
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