



Progressive Horticulture Conclave (PHC 2023)

**TRANSFORMING HORTICULTURE :
SCIENCE INTO TECHNOLOGY**

February 3-5, 2023

ORGANISED BY

**G. B. Pant University of Agriculture & Technology,
Pantnagar, Uttarakhand**

**Indian Society of Horticultural Research & Development (ISHRD)
Uttarakhand, India**



Globally, Horticulture, which includes, fruits, vegetables, spices, tubers, ornamental plants, mushroom medicinal and aromatic plants, edible bamboos and plantation crops, has become inevitable for the socio-economic development of the nation to ensure nutritional security, economic upliftment, environmental amelioration, employment generation, healthcare and above all effective and productive land uses. The declining land and water resources, besides, the threat of climate change are the major bottlenecks in meeting out the bulging and diversified demand of horticultural produce. The unprecedented growth through innovative technological interventions and support of the government have led to the spectacular expansion of the industry.

New innovations are key to horticulture's success to feed the

Theme:

Transforming Horticulture : Science into Technology

The Conclave Events

Presentations: The PHC 2023 will provide an opportunity for lead and invited lectures, oral and poster presentations in each of the thematic areas based on the selection of the abstracts by the competent committee. Detailed presentation schedule and guidelines will be made available on the society's website: www.progressivehorticulture.in

Lead/Invited Papers: Lead papers on topics pertinent to the theme of the technical sessions will be invited from leading researchers/academicians/authorities. Full-length lead/ invited papers will be published in the conference compendium. Details will be available on the society's website: www.progressivehorticulture.in

Oral and Poster Presentations: The abstracts received by the deadline date will be peer-reviewed and screened by the competent committee for mode of presentation. Abstracts of only registered participants will be published in the book of abstracts and presented in oral/ poster form in the three-day event. Detailed guidelines for oral/poster presentation will be made available on the society's website: www.progressivehorticulture.in

Exhibition: The PHC 2023 will host a Horti-exhibition demonstrating new and future technologies, products, and publications. It will be open to all Government and private sector organizations. Interested companies and institutions may contact the local organizing committee.

Awards: The society has announced recommendations for Fellowship and Awards namely, Life Time Achievement Award, Horticulture Leadership Award, Best Teacher Award and ISHRD

projected 9 billion population of the world by 2030. In order to optimize the use of resources, hi-tech interventions like precision farming, AI, and blockchain management which comprises temporal and spatial management of resources in horticulture, are indispensable. Infusion of technology for efficient utilization of resources is intended for deriving higher crop productivity per unit of inputs. This would be possible only through the deployment of modern hi-tech applications and precision farming methods. For improvement in crop production and returns to farmers, these technologies have to be widely spread and adopted. Considering the above-mentioned challenges of horticulturists and their expected role in ensuring food and nutritional security to mankind by turning the Horticultural Sciences into Useful technologies, a national conference Progressive Horticulture Conclave (PHC)- 2023 is being jointly organized by the G. B. Pant University of Agriculture and Technology, Pantnagar and Indian Society of Horticultural Research and Development, Uttarakhand on February 3-5, 2023. The deliberations during this event will generate enormous interest amongst horticultural fraternity and result in many useful recommendations for consideration of different implementing agencies.

The Organizing committee deems it an honour in inviting all its stakeholders associated with horticulture and allied sectors and representatives from the public/ private sector, central and state government departments, scientists and students from institutes and universities, entrepreneurs/ farmers, banks and financial institutions, representatives from media, international agencies, farmers' associations, agri-input suppliers, etc. The official language of the conclave will be English and Hindi.

Fellowships to be conferred during inaugural/valedictory functions of PHC 2023. Besides these, the best oral and poster presentations in each session will be judged and awarded. Also, the Best Women Researcher and Best Thesis Research Awards will also be conferred during the conclave.

Call for Abstracts: The abstracts should be submitted in the following defined thematic areas. The 250 words abstract should be in MS word, Times New Roman, 12 font size containing a short title, name and affiliation of the author(s), introduction of problem, methodology followed and experimental results with conclusion. The e-mail address of the corresponding author must be mentioned. Top right side of the abstract should mention the name of the technical session opted. The guidelines for oral/ poster presentation will be made available on the society's website (www.progressivehorticulture.in).

Technical Sessions:

Technical Session	Thematic Area
I	Crop Improvement and Genetic Enrichment
II	Seed, Planting Material & Nursery Management
III	Innovative Production Technology
IV	Organic Horticulture and Natural Farming
V	Precision Horticulture and Geospatial Tools
VI	Post-Harvest, Value addition and Waste Management
VII	Plant Protection and Quarantine Management
VIII	Horticulture through AICRP Network
IX	Horti-Extension, Marketing, Certification and Horti-business
X	Horticulture Teaching and Students' Thesis Research
XI	Interface with Farmers and Industry

Dates to Remember

Deadline for abstract submission : **December 20, 2022**

Last date for issuing acceptance letter : **December 30, 2022**

Early Bird Registration and reservation of accommodation: **January 10, 2023**

Registration for Conclave

Category	Registration Fee (Rs)	
	Early bird Jan 10, 2023	On spot
Scientists/ Teachers/ Extension Specialists- Member ISHRD	4,000	5,000
Scientists/ Teachers/ Extension Specialists- Non- Member ISHRD	5,000	6,000
Corporate Sector	6,000	7,000
Student/ Research Fellow/ Farmer	1,500	2,500

The Bank Details:

The registration fee for attending the PHC must be credited to The Editor Progressive Horticulture, Account number 1032-0000-0000-2697 in Nainital Bank Ltd, Haldwani Branch with IFSC code: NTBLOHAL103 and MICR code: 263184003 and the transaction details with registration form MUST be emailed to proghortconclave@gmail.com and phcpantvarsity2023@gmail.com.

About Pantnagar:

The establishment of GBPUA&T, Pantnagar in 1960 brought about a revolution in agricultural education, research, and extension. It paved the way for setting up of series of other agricultural universities in the country. The credit for starting the functioning of the University without losing any time goes to the warm and resourceful personality of the first Vice-Chancellor, the late Dr. Kenneth Anthony Parker Stevenson (1-12-58 to 2-1-64), who could keep people fruitfully engaged on the university farm, the labs and the classrooms despite the lurking fear of wild animals roaming in the area. The other 25 Vice-Chancellors also made their distinctive contributions in the development of the University. Stretched in an area of over 9,000 acres, the campus appears impressive today with its well-tended fields, a network of roads, housing colonies, hostels, street lighting, a telephone exchange, hospitals, marketing centers, a water supply section, 6 primary schools and 3 secondary schools. This main campus has the area responsible for the entire Uttarakhand representing plains, Tarai, Bhabar and hill areas. However, to provide service to the hill region its other stations are situated at Pithoragarh, Chamoli, Rudrapur, Majhera (Nainital district), Lohaghat-Sui (Champavat district), etc. The university, regarded as the harbinger of green revolution, has served as a role model for agricultural education. The university has developed more than 350 varieties and hybrids in a variety of agronomic, horticulture, fodder and forest crops. More than 140 externally funded projects are currently running in the university

The globally acclaimed university has been crowned with numerous recognitions like, Best Institutions Awards, QS, NIRF World ranking, etc. The Pantnagar seeds and Pantnagar graduates are most sought-after products. The detailed information about the university can be explored on www.gbpuat.ac.in

The Society

The genesis of the Indian Society of Horticultural Research and Development (ISHRD), dates back to March 1969, when it was formed as the Hill Horticulture Development Board (HHDB) at the Horticulture Experiment and Training Centre (HETC), Chaubattia, Ranikhet, Almora, Uttar Pradesh (Now Uttarakhand). The promotion of research in Horticulture and publication of research journal was the dream of Dr. S S Teotia, the then Director, the Directorate of Fruit Utilization, Government of Uttar Pradesh. A quarterly journal "Progressive Horticulture" was first published in April - June 1969. Since then, the journal has successfully completed 54 volumes of its publication. Presently, the journal is published bi-annually in the months of June and December. Luminaries in the field like Dr. J N Seth, Dr R P Srivastava, Dr. D S Rathor, Dr. S D Lal Mishra, Dr P L Gautam, Dr. H P Singh and Dr. R K Pathak have contributed immensely toward the growth of society, and its journal, which is regularly publishing significant research pertaining to horticulture. Progressive Horticulture is the second oldest journal of horticulture in the country, widely cited by the scientific fraternity. The journal is available online at www.indianjournals.com and on its website at www.progressivehorticulture.in

How to reach Pantnagar:

Pantnagar is well connected by bus, train and air from Delhi/ Lucknow. Pantnagar (0 km) and Bareilly (75 km) are the nearby airports, Pantnagar (5 km), Rudrapur City (15 km), Lal Kuan (10 km) are the nearby railway stations and Pantnagar (5 km) and Rudrapur (14 km) are nearby bus stop/ stations. Pickup and dropping facilities from/ for Pantnagar/ Rudrapur/ Lal Kuan for guests staying in the university campus will be rendered by the organizers

Accommodation:

A limited number of registered delegates will be accommodated in the Guest Houses of the University on first-come-first-serve basis on official rates. Other guests will be provided accommodation in the Ginger and The Radisson Blu hotels located in between Pantnagar and Rudrapur. The conference tariffs of the hotels (with complimentary breakfast) are as follows:

Occupancy	Ginger Hotel	Radisson Blu	
		Superior	Business Class
Single	Rs 1499 + Tax	Rs 4000+Tax	Rs 5500 + Tax
Double	Rs 2299 + Tax	Rs 5000 + Tax	Rs 6500 + Tax

Guests are requested to directly contact the hotels (Ginger- sales. pantnagar@gingerhotels.com and Radisson Blu- reservations@rudrapur.com) for reservation and pickup/ dropping from Pantnagar airport and Rudrapur railway station/ bus stand

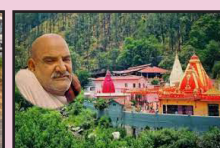
Tourism around Pantnagar



Nainital city



Jim Corbett National Park



Kaichi Dham



Nanak Mata & Nanak Sagar



Kausani



Retha Sahib



National Advisory Committee

Patron:

Dr. M.S. Chauhan, Vice-Chancellor, GBPUA&T, Pantnagar

Revered Members:

Prof R.K. Pathak, President, ISHRD
Dr. A.K. Singh, DDG Horticulture, ICAR
Dr. T. Jankiram, Vice-Chancellor, Dr YSRHU, A.P.
Dr. D.R. Singh, Vice-Chancellor, CSAUAT, Kanpur
Dr. Bidyut C. Deka, Vice-Chancellor, AAU Jorhat
Dr. A.K. Karnataka, Vice-Chancellor, MPUA&T, Udaipur
Dr. Indra Mani, Vice-Chancellor, VNMKV, Parbhani
Dr. B. Neeraja Prabhakar, Vice-Chancellor, SKLHSU, Telangana
Dr. S.S. Gosal, Vice-Chancellor, PAU Ludhiana
Dr. B. Singh, Vice-Chancellor, NDUAT, Ayodhya
Dr. H.P. Singh, Former DDG Hort, ICAR
Dr. Prabhat Kumar, Horticulture Commissioner, GOI, New Delhi
Sh Priya Ranjan, Managing Director, NHB, Gurugaon
Dr. S.K. Malhotra, Project Director, ICAR-DKMA, New Delhi
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Dr. Laxmi Kant, Director, ICAR-VPKAS, Almora
Dr. Prakash Patil, Project Coordinator, AICRP-IIHR, Bengluru
Dr. K.V. Prasad, Dir (Actg), ICAR-DFR, Pune
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Dr. K.K. Singh, Dean, RPCAU, Samstipur
Dr. B.S. Negi, Former Director (Hort), Govt of Uttarakhand
Dr. R. A. Ram, Former Head (CP), CISH, Lucknow
Dr Sandhya Gupta, ICAR-NBPGR-New Delhi
Dr. Ratan Kumar, Jt Dir (Hort), Govt of Uttarakhand
Dr. Basant Ballabh, Treasurer ISHRD/ DIBER-Haldwani

PHC Coordinators:

Dr. Sanjai K. Dwivedi, Editor-in-Chief, Progressive Horticulture/ DRDO, New Delhi
Dr. S.S. Singh, ISHRD/Head KVK, Almora
Dr. A.K. Srivastava, ICAR-CCRI, Nagpur

Organizing Secretary:

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Local Organizing Committee

Prof. Manmohan Singh Chauhan, Hon'ble Vice-Chancellor – Chairperson
Dr. H.S. Baweja, Director Horticulture, Govt. of Uttarakhand & Horticulture Mission Uttarakhand
Sri Devkant Pahad Singh, Director DIBER, DRDO Haldwani
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Dr S.K. Kashyap, Dean Agriculture
Dr. K.P. Raverkar, Dean PGS
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Dr. Alaknanda Ashok, Dean Technology
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Dr. A.K. Sharma, Director Extension Education
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Sri. Ashish Bhatgain, Director Admin& Monitoring
Sri. Dhram Singh Bonal, Comptroller
Dr. D.C. Dimri, Head Horticulture
Dr. D.K. Singh, Head Vegetable Science

The PHC 2023 Secretariat:

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 College of Agriculture

G.B. Pant University of Agriculture & Technology

Pantnagar-263 145, Uttarakhand

Email: proghortconclave@gmail.com and phcpantvarsity2023@gmail.com.

Important Contacts:

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February 3-5, 2023

organized by the

G.B.P.U.A.&T., Pantnagar & ISHRD, Uttarakhand



REGISTRATION FORM

1. Name(Dr/Mr/Ms):.....

2. Designation:

3. Organization:.....

4. E-mail Address:.....

Mb. :Alternative No.....

5. Details of payment:

Mode: Draft/Multi City/ Cheque/RTGS /.....

Bank Details:.....

Ref No. & Date:.....

Amount (Rs):.....

6. Title of the paper(s):.....

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7. The session:.....

8. I am only attending the conclave: Yes/No

9. I am presenting the paper: Yes/No

10. I am enclosing the abstract: Yes/No

11. Accompanying Person (if any): Yes/No

12. Arrival detail Date.....Time.....Place.....Mode.....

13. Departure detail Date.....Time.....Place.....Mode.....

14. Any other information

Date:

Signature

Email: proghortconclave@gmail.com and phcpantvarsity2023@gmail.com.



ISHRD Awards : 2019 & 2020

LIFE TIME ACHIEVEMENT AWARD

- **Dr. K.L. Chadha**, New Delhi
- **Dr. P.N. Bajpai**, Kanpur

HORTICULTURE LEADERSHIP AWARD

- **Dr. T. Janakiram**, VC, Dr. YSR Horticultural University, West Godawari, AP
- **Dr. B.C. Deka**, VC, Assam Agril Univ. Jorhat, Assam

ISHRD FELLOWSHIPS

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- **Dr. S.K. Shukla**, ICAR-CISH, Lucknow
- **Dr. D.S. Mishra**, ICAR-CIAH, Bikaner
- **Dr. S.K. Paramasivam**, ICAR-NRCB, TN
- **Dr. Dinesh Singh**, Div. of Pl. Path, IARI, New Delhi
- **Dr. A.J. Gupta**, ICAR- Onion and Garlic Res. Pune
- **Dr. S.P. Kanaujia**, SASRD, Nagaland Univ., Madziphema
- **Dr. A.K. Trivedi**, ICAR-CISH, Lucknow

BEST EXTENSION/DEVELOPMENT AWARD

- **Dr. Brijesh Kumar**, Hort. Trg. & Tstd. Centre, Kashipur, UK
- **Dr. Sanjay Kamal**, Dept. of Hort., Uttarakhand
- **Prof. M.K. Kaul**, Sriganganagar, Rajasthan
- **Dr. P.K. Gupta**, NHRDF, New Delhi
- **Dr. S.K. Mishra**, Deptt. of Ag. & FW Govt. of India
- **Dr. K.S. Emmameni**, YSHRHU, KVK West Godawari, AP
- **Sh. M.S. Bisht**, Forest Res. Centre, Haldwani

BEST TEACHER AWARD

- **Dr. V.B. Patel**, ICAR-IARI, New Delhi
- **Dr. R.A. Kaushik**, MPUAT, Udaipur
- **Dr. R.S. Tiwari**, (Retd.) GBPUAT, Pantnagar
- **Dr. Heisnarm Punabati**, COH, Pashighat
- **Dr. Rajaneesh Singh**, TD College, Jaunpur

GANGOTRI UDYAMITA PURASKAR

- **Sh. S.P. Singh**, NDUAT, MASTI, Shahjahanpur
- **Sh. Naveen Patwal**, Roorkee, Haridwar
- **Sh. S.K. Rai**, Haritage Flowers Ltd., Kenya
- **Sh. A.S. Kaintura**, Pauri Garhwal
- **Sh. R.R. Prajapati**, Hamirpur, UP
- **Sh. Neeraj Prajapati**, Bicycle Man of India

HIMADRI YOUNG SCIENTIST AWARD

- **Dr. Avnish K. Pandey**, Navsari Ag. Univ., Navsari
- **Dr. Popy Bora**, Assam Agril Univ., Jorhat
- **Dr. Lakshmi Rawat**, College of Forestry, Ranichauri
- **Dr. Preeti Ratan Kaur**, ICAR-CPRI, Shimla
- **Dr. Vikas Ramteke**, SGCA & RS, IGKV, Jagdalpur
- **Dr. Pradeep Karmakar**, ICAR-IIVR, Varanasi

DEV BHUMI BAGWANI PURASKAR

- **Sh. U.S. Pandey**, Jakhni, Khurhand, Banda, UP
- **Sh. B.S. Rawat**, Basana, Srikot, Garhwal
- **Sh. Satayawan Shedhrawat**, Dariyapur, Kalan (Bawana) Delhi
- **Sh. V.S. Rawat**, Kalasan, Nursery Farm, Karsog, HP
- **Sh. Suman Chandola**, Chandola Rain, Pauri Garhwal, UK
- **Sh. Mahendra Singh**, Sartoli, Bagna, Dasholi, Chamoli, UK