



International Symposium on Horticulture : Priorities & Emerging Trends

5 - 8 September, 2017



Organized by

Indian Council of Agricultural Research (ICAR), New Delhi, India
ICAR-Indian Institute of Horticultural Research, Bengaluru, India
Society for Promotion of Horticulture, IIHR, Bengaluru, India
International Society for Horticultural Science (ISHS), Belgium



First Circular

Global horticultural industry has grown several-fold in the last 50 years. Current world fruit production is estimated at 676.9 million tonnes, while vegetable production is estimated at 879.2 million tonnes. Horticulture industry is flourishing and opening up new prospects for R & D and employment emerging from awareness about present lifestyle and dietary habits. The Asia-Pacific region accounts for nearly 60 per cent of the total area under production, with China and India dominating this space. The challenges of overcoming malnutrition to majority of the global population are yet to be fulfilled. Hence, there is a need to increase and sustain production and productivity. Horticulture sector has been the mainstay of Indian agriculture with a contribution of about 30 per cent to the agricultural GDP from about 14 per cent area and 40 per cent of total export earnings from agriculture as a whole. At present, area under horticultural crops is 23.69 million ha with production of 283.47 million tonnes. India is the second largest producer of fruits and vegetables with the claim of largest producer of mango, banana, cucurbits, cauliflower, coconut, cashew, papaya and pomegranate and the largest producer and exporter of spices. The varieties and technologies developed by various research organizations have played an important role in enhancing productivity in horticulture. ICAR- Indian Institute of Horticultural Research, Bengaluru is playing a vital role in the development of technologies and capacity building in horticulture over the last 50 years. The institute has developed over 200 high yielding varieties, sustainable and profitable integrated crop production and protection systems including organic farming, protected cultivation, INM, IPM, IDM protocols, mechanization and value - addition of several horticultural crops. The horticultural domain has specific problems that need to be better elucidated and addressed through in-depth deliberations involving researchers, intellectuals, regulatory authorities, policy makers, executives, farmers, NGOs and other stakeholders meeting on a common platform. This would bring out a clear road map to formulate implementation strategy for various policies, programmes and capacity building at large. To commemorate the golden jubilee of the institute and to analyse the horticultural development in the past, and the plan for future, the institute under the patronage of the **Indian Council of Agricultural Research, New Delhi** has planned to organize the **“International Symposium on Horticulture : Priorities & Emerging Trends”** during **5-8 September, 2017 at ICAR- IHR, Bengaluru** to discuss various strategies to achieve nutritional security and environmental sustainability and to formulate a road map for increasing productivity and profitability in horticultural crops. The seminar shall also have some workshops on topical issues. We take pleasure in inviting all the stakeholders for effective participation.

Dr. M.R. Dinesh

Director, ICAR-IHR, Bengaluru & Convener

Deputy Director General (Horticultural Science)

ICAR, New Delhi & Chairman, Organizing Committee

THEMES

The conference shall focus on:

- Sustainable production, consumption, trade, marketing and policy issues
- Bio-conservation
- New dimensions in breeding of horticultural crops
- Resource conservation and use efficiency, climate resilience, mechanization and use of non- conventional energy resources
- Post-harvest management, processing and product development, nutraceuticals and bio-fortification
- Crop modelling and forecasting, host-plant-resistance, diagnostics and epidemiology, novel approaches to pest management
- Precision horticulture, IT enabled supply chain management with transpositional issues
- Technology assessment, refinement and dissemination, technology commercialization
- Socio-economic and gender issues

LANGUAGE

English will be the official language of the symposium.

WORK-SHOPS

The workshops shall deliberate on topical issues having panelists and interested stakeholders in the background of base paper prepared by the experts on the following:

- Conservation technologies-*in-situ*, *ex-situ*, on-farm, complimentary approaches
- Production of quality planting material
- Eco-friendly technologies
- Sustainable Horticulture

SESSIONS OF SYMPOSIUM

The following technical sessions are envisaged to cover national and international scenario:

- **Global Scenario** (Production and consumption, trade, marketing and policy issue, nutrition and health)
- **Genetic Improvement** (Plant genetic resources management, conventional breeding, biotechnology)
- **Production Management** (Cropping systems, resource conservation and use efficiency, climate resilience, mechanization and use of non-conventional energy resources)
- **Products and Value- Addition** (Post harvest management, processing and product development, nutraceuticals and bio-fortification)
- **Stress Management** (Crop modelling and forecasting, host-plant-resistance, diagnostics and epidemiology, novel approaches to stress management)
- **Applications of ICT in Horticulture** (Precision horticulture, IT enabled supply chain management with transpositional issues)
- **Participatory Technology Development and Adoption** (Technology assessment, refinement and dissemination, technology commercialization, public-private partnership, socio-economic and gender issues)

- **Open Session** (Role of growers' associations and stakeholders' issues)
- **Plenary Session** (Resolution of recommendations)

PROGRAMME OUTLINE

- Eight technical sessions
- Four workshops
- Plenary session
- Theme-wise daily poster presentation
- HORTI-EXPO & Social Events
- Pre & Post-Seminar Tours (on payment basis)

CALL FOR PAPERS

The Organizing Committee cordially invites you to present either in oral or poster sessions. Thematic Papers on salient topics covering the theme areas are being organized with lead speakers from various countries. Additionally, we welcome Contributed Papers covering the theme areas for oral as well as poster presentations in different sessions. Selected full-length papers will be published in Special Volume of *Acta Horticulturae*. For guidelines and formats please visit Symposium website www.iihr.res.in/goldenjubilee/symposium.

ABSTRACTS

The Organizing Committee invites Abstracts from the interested participants on research and development issues conforming broadly to the outlined theme areas and technical sessions. Abstracts are required to be forwarded electronically through e-mail to goldjubiihrrsym@gmail.com as Microsoft Word file. Authors need to forward their abstracts in the prescribed format (please see the website).

The abstract(s) of the contributed papers may not exceed 300 words while the full length papers should not exceed six pages typed in Times New Roman font size 12, single spaced. Abstracts will be published in a Book of Abstracts and Lead papers only if the presenting author has registered by the due date.

REGISTRATION

Please mail or fax duly filled Registration Form so as to reach the **Convener, International Symposium on Horticulture: "Priorities & Emerging Trends" September 5-8, 2017 at ICAR-IIHR, Bengaluru, INDIA** before April 15, 2017, On-line facility may also be availed. Please visit Website-www.iihr.res.in/goldenjubilee/symposium. Registration form may be downloaded from the site.

Registration Fee for delegates is to be paid in advance in the form of Account Payee Demand Draft drawn in favour of **Society for Promotion of Horticulture, ICAR- IIHR, Bengaluru, INDIA** payable at Bengaluru or NEFT/RTGS transfer the registration fee to **Central Bank of India**, IIHR-Hesaraghatta, Bengaluru - 560 089 (A/C No. 1805606747, IFS Code CBIN- 0283973, MICR Code,560016044). No outstation cheques will be accepted. Registration Fees for different categories is given below :

Only registered delegates shall have the privilege to participate in inaugural session, welcome get-together, symposium sessions, lunch, tea, cultural evening, etc. The acceptance of the registration fee at post-date is subject to specific request furnishing valid reasons.

Foreign delegates may place request for invitation letters to attend the symposium after the acceptance of their papers. For information on visa fee and application formalities, they are advised to contact the Indian Consulate in their respective country.

CATEGORY	REGISTRATION FEE*	
	On or before May 31, 2017	After May 31, 2017
International Participant	US\$ 500	US\$ 550
International Accompanying Person	US\$ 300	US\$ 350
SAARC Country Participant	US\$ 250	US\$ 300
International Student	US\$ 200	US\$ 250
Indian Participant	Rs. 10,000	Rs. 11,000
Indian Accompanying Person	Rs. 5,000	Rs. 5,500
Indian Student	Rs. 3,000	Rs. 4,000

*10 % discount for members of ISHS / SPH

Important dates

- Abstract Submission - April 15, 2017
- Acceptance of Abstract - April 30, 2017
- Early-Bird Registration - May 31, 2017

GENERAL INFORMATION

Symposium venue

ICAR- Indian Institute of Horticultural Research
Hesaraghatta Lake Post, Bengaluru, India

Symposium Secretariat

Symposium Secretariat will be established at
ICAR-IIHR, Bengaluru - 560 089, India, Tel : 080-28466420
Fax: 080-28466371, Email : goldjubiihrrsym@gmail.com

PRESENTATION FACILITIES

A minimum of one laptop computer and one LCD/ Multimedia projector will be made available in each of the rooms identified for concurrent sessions for Power Point presentations. All the presentations need to be loaded onto the respective computers prior to start of the first oral presentation. Please bring a flash drive containing the presentation material to the symposium. Poster presentations should be in English. The maximum poster size is 90 cm wide and 120 cm high, and is preferably in A0 format (84.1cm x 116.9cm). Title, authors' names and affiliation should be listed at the top of the poster. The poster should consist of objectives, methods, results and discussion. It should be clear, simple and self-explanatory; although time will be reserved for poster viewing and discussion, posters must be explicit, understandable even in the absence of the author(s). All Figures and Tables must have headings, labelled axes and legends. All lettering should be legible and readable from a distance of 1 m.

ABOUT BENGALURU

Bengaluru, earlier known as Bangalore is the capital of the Indian State of Karnataka. Bengaluru is nicknamed as the Garden City. Located on the Deccan Plateau in the south-eastern part of Karnataka, Bengaluru is India's third most populous city. There are a number of expats from

across the world living in the city, thanks to the growing presence of Multi-National Companies. Today as a large city and growing metropolis, Bengaluru is home to many of the most well-recognized colleges and research institutions of India. Numerous public sector heavy industries, software companies, aerospace, telecommunications, and defence organizations are located in the city. Bengaluru is known as the Silicon Valley of India because of its position as the nation's leading IT exporter. A demographically diverse city, Bengaluru is a major economic and cultural hub and the fastest growing major metropolis in India.

ARRIVAL AT BENGALURU

In front of the arrival gates at **Bengaluru** Airport / Railway Station, on September 4, 2017, an information desk will be set up and our personnel along with the travel agent shall facilitate your transportation to the hotel / place of halt provided prior information on date, time, name of airline, flight number / train number, etc. of itinerary is made available to the convener / travel agent. Foreign delegates need to be in contact with the travel agent for arranging the facility of pick up to the hotel and drop-back to the Airport.

CLIMATE AND CLOTHING

Bengaluru is situated at an altitude of 949 meters above mean sea level and is blessed with salubrious climate throughout the year. The symposium period coincides with the rainy season. The temperature in Bengaluru during the period is likely to be around 25-35° C during the day and 20-30° C at night; therefore use of light cotton clothes is recommended.

OFFICIAL TRAVEL AGENT

Balmer Lawrie & Co. Ltd. (A Government of India Enterprise), Travel & Tours. Air India is the National carrier, very dependable and offers reasonable fares. Several private airlines also provide service from Bengaluru to various cities in India and other countries.

ACCOMMODATION

Accommodation can be arranged in nearby hotels for which requests are to be sent in the prescribed proforma within the specified time along with the requisite fee. The list of the hotels and approximate tariff, are indicated. Limited accommodation is available in the ICAR and other Institute's Guest Houses, in which shared accommodation shall be arranged at nominal fees.

Hotel Accommodation Tariff (Tentative)

The Leela Palace	: 12,000 (INR)
ITC Windser	: 13,500 (INR)
Taj West End	: 13,000 (INR)
The Oberoi	: 13,500 (INR)
Ramanashree California	: 4,000 (INR)
Budget Hotels	: 1,500-4,000 (INR)
ICAR Guest Houses	: Rates as per ICAR norms

For accommodation, please forward information in Registration Form available in the website of the symposium.

Foreign delegates may directly contact the website of above hotels.

INSURANCE

The registration fee does not cover insurance for the participants regarding unforeseen incidents, sickness, loss of personal belongings etc. The participants are advised to ensure necessary arrangements for obtaining a short-term health and accident insurance before departure from the countries of their origin.

SOCIAL EVENTS

Cultural programme will be arranged for the benefit of registered delegates and accompanying members on September 6, 2017 during the evening in order to provide insight into Indian Culture by the professional artists, the details of which shall be provided at the time of registration.

HORTI-EXPO

An exquisite display of the Indian horticultural crops along with an exhibition showcasing improved technologies; research outputs of the National Agricultural Research System (NARS) will be facilitated at the venue of the symposium.

SPONSORSHIP

Platinum sponsor (Rs. 5,00,000) & Diamond sponsor (Rs. 3,00,000)

The global symposium harmonizing interaction between scientific community and other stakeholders offers an excellent opportunity for companies/organizations to create awareness on brand and quality in order to promote their products and services in a value- chain mode.

Benefits to the sponsors shall include: Features of company product/brand with logo and name on the event brochure cover and promotional advertisements, stage backdrop, sponsor panels at the venue, invitation cards, itinerary/ programme schedule and delegate kit, Folder/ pamphlet/ leaflet/hand-outs/ any company literature in delegate kit, one full page/half page advertisement space in the Souvenir and two complimentary delegates.

International Organizing Committee

Director General, ICAR, New Delhi
Deputy Director General (Hort. Sci.), ICAR, New Delhi
Prof. Roderick A. Drew, President, ISHS
Dr. Ilan Paran, The Volcani Centre, Israel
Dr. Stephan Winter, BSMWZ, Germany
Dr. Natalie Dillon, Agri. Science, Queensland, Australia
Dr. Sisir K. Mitra, Chair, Section ,Tropical & Subtropical Fruits, ISHS
Dr. T. Jankiram, Assistant Director General (Hort.Sci-I), ICAR, New Delhi

Address for Correspondence

Dr. M.R. Dinesh
Convener & Director
ICAR-Indian Institute of Horticultural
Research, Bengaluru - 560 089, India
Tel : +91-80-28466471
Fax : +91-80-28466371
Email : director@ihr.res.in
goldjubiihrsyr@gmail.com