



NATIONAL CONFERENCE

on

Floriculture for Rural and Urban Prosperity in the Scenario of Climate Change

Jointly Organized by:

ICAR-National Research Centre for Orchids

Pakyong, East Sikkim, Sikkim-737106

Indian Society of Ornamental Horticulture

*Division of Floriculture and Landscaping,
ICAR-Indian Agricultural Research Institute,
New Delhi-110012*

Department of Horticulture and Cash Crop Development

Government of Sikkim, Gangtok

&

Sikkim University

Gangtok, Sikkim

Date: 16 - 18th February, 2018

*Venue: Auditorium Hall, CAE & PHT
CAU-Ranipool, Gangtok.*

Background

Floriculture has transpired as an apparent commercial activity in agriculture after the globalization of Indian economy. It has proved beyond doubt, a viable alternative, having a potential to generate remunerative self-employment among small and marginal farmers and also fetch the much needed foreign exchange. Over the last one decade, there has been a considerable growth of 2.5 times in the production of flowers, ornamental plants, cut greens and dry flowers. With changing lifestyles and increasing urbanization, floriculture has attained commercial status. Export of cut flowers, values added products like dry flowers, pot pourries, essential oils and potted plants has gone remarkably. Orchid accounts for a large share of global floriculture trade both as cut flowers and as potted plants. The import of orchid flowers has risen from 299.9 lakh during 2008-09 to 3000 lakh in 2016-17. The hill regions of India include Himachal Pradesh, J&K, Uttarakhand and the North Eastern region (NE) comprising states of Arunachal Pradesh, Assam, Manipur, Meghalaya, Mizoram, Nagaland, Tripura and Sikkim, has been identified as a potential area for the development of floriculture owing to its diverse geo-climatic conditions and floral biodiversity. Mizoram and Meghalaya have already started commercial cultivation and export of anthurium, lily in Nagaland, orchids and bulbous ornamentals in Sikkim. India with its climatic variability and genetic diversity has great potential to emerge as global player in the floriculture market. Therefore, National Research Centre on Orchids has been established at Pakyong, Sikkim and Directorate of Floriculture Research at Pune. Floriculture sector has a number of diversification avenues such as hi-tech/protected cultivation, nursery industry, dry flowers, essential oils, natural dyes and pigments, nutraceuticals, and turf grasses etc., which need to be expanded further. Emerging market trends as a result of changing lifestyles in general and outlook towards life in particular, have transformed the flower industry from infancy into a flourishing industry. The growing market of flowers, floral products, potted plants, florist greens in big cities provide visibility to the impact of development initiatives by Government of India in promotion of horticulture including floriculture through National Horticulture Mission, Horticulture Mission for North East and Himalayan states and APEDA. These efforts have provided ample avenues of employment and entrepreneurship among the rural unemployed youth and small farmers.

Floriculture and landscape gardening deserves due importance in research priorities and policy planning for providing better living conditions to the people through environmental services. Awareness amongst city dwellers for clean environment has resulted in large scale development of landscape gardening, beautifying public places and interior-scaping. Now the area under

flower crops rose to 3.09 lakh ha from 1.44 lakh ha and to 22.46 lakh ton from 8.80 lakh ton in 2016-17 as compared to 2006-07.

The production base has doubled during the last ten years and production of cut and loose flowers have been growing at rate of 15% every year. All this is happening as a result of the technology and enabling environment. Although the potential of floriculture for entrepreneurship development and employment generation is realized and discussed in isolation, there is an urgent need to bring all the stake holders on a single platform to deliberate and develop a roadmap for the future growth of floriculture industry in the country for rural and urban prosperity. Therefore, National Research Centre for Orchids in collaboration of Government of Sikkim and ISOH, New Delhi is organizing National Conference on Floriculture for Rural and Urban Prosperity in the Scenario of Climate Change to deliver the past achievements and to plan future strategies for floriculture research and development.

On behalf of the Organizing Committee we have the honour to request you and your colleagues for active participation in the Conference.

Location

Gangtok is located above 1600m (MSL) in East Sikkim district, which is well connected by road, which is 123 km away from nearest Airport, Bagdogra and 120km from New Jalpaiguri Railway Station (NJP).

Climate

The climate of Sikkim varies from subtropical to temperate. The average rainfall ranges from 100 to 184 days with 2.5 mm or more per day, mainly distributed from April to October, humidity varies from 70-80%, and temperature ranges from 7-27°C where cold weather season prevail during December-February with temperature rarely rises above 15°C centigrade.

Theme

The ICAR-NRCO and ISOH invites your participation in the form of oral and poster papers on ornamental crops highlighting your research and development accomplishments on any of the following topics:

- Bio-resource Conservation, Management and Utilization.
- Organic Floriculture, Climate Change and Sustainable Floriculture.
- Urban Floriculture, Eco-Management and Eco-tourism.
- Crop improvement & Innovative Technologies.
- Doubling Farmers' Income through horticulture/floriculture.
- Post-harvest management & Marketing of Floriculture products.
- Socio-economic and Institutional Factors.
- New Paradigms in Extension Approaches.

Submission of Papers & Abstracts

Contributions covering various themes of Conference are invited as abstracts which include title of papers, author(s) with affiliation to the organization, introduction, materials and methods and major findings in brief. The abstract should be typed in MS- Word, Times New Roman, 12 font with 1.5 spacing and 200-300 words. Besides, invited papers and key issues, there will be oral and poster presentations. Full length papers will be published in the special issue of the Journal of Ornamental Horticulture. In each session, best oral and poster papers awards shall also be given.

Abstracts and invited papers with soft copy may be sent to Organizing/Co-organizing Secretary, ICAR-NRC for Orchids, Pakyong, Sikkim-737106 at 1.drdrsingh66@gmail.com; 2.rampal_nrc@yahoo.com.

Closing Date

Last date of submission of Abstract : 10th January, 2018
Intimation of acceptance : 15th January, 2018
Registration Fees and Accommodation : 31st January, 2018

Registration Fee

Member of Society (ISOH) : Rs. 3,500/-
Non-Member of Society (ISOH) : Rs. 4,000/-
Students : Rs. 1500/-

Mode of Payment

The registration fee (non-refundable) & advertisement tariffs may be remitted in advance in cash or through a bank demand draft in favour of **ISOH** payable at New Delhi of any nationalized bank of India and send to **Dr. S.S. Sindhu, Secretary ISOH c/o Division of Floriculture and Landscaping, ICAR-IARI, Pusa, New Delhi-110012** (Tel.011-25841929 & 09868073757) through Speed Post or Courier. Please write name and address on the reverse of the bank demand draft or cheque.

Payment can also be made online in SBI A/c No. 35742373989, IFSC Code: SBIN0005389, SBI Branch, NSC, Beej Bhavan, Pusa, New Delhi-110012. *Participants are advised to send the details of electronic payment to Secretary, ISOH by e-mail* (sssindhu2003@yahoo.co.in).

Accommodation

Limited accommodation are available which will be provided on first come first served basis at CAU, Ranipool, Sikkim, Sikkim University, Gangtok and ICAR, Sikkim Centre, Tadong. Alternatively, booking can be done at identified Hotels at Pakyong and Gangtok.

How to Reach

By Air: Delhi to Bagdogra, Guwahati to Bagdogra & Kolkata to Bagdogra followed by road to Pakyong/Gangtok.

By Train: Kolkata to NJP, Delhi to NJP (Rajdhani Express) and Guwahati to NJP followed by road to Pakyong/Gangtok.

Advertisement

Limited advertisement space will be available in the Book of Abstracts and Souvenir of Conference; the tariffs of advt. are as follows:

1. Back cover full page (Colour) : Rs. 50,000/-
2. Inside back cover full page (Colour) : Rs. 30,000/-
3. Full page inside (Colour) : Rs. 25,000/-
4. Half page inside (Colour) : Rs. 15,000/-

Exhibition

At venue, it is proposed to organize an exhibition of ornamental plants. For further details, please contact Organizing Secretary.

Award and Fellowship

Nominations are invited from the life members of ISOH for consideration for the Lotus Puraskar, Rose Puraskar, Best Dissertation (M.Sc and Ph.D) and Fellowship 2017 of ISOH. Applications may be sent to the President, ISOH through e-mail at malhotraskraj@yahoo.com latest by December, 31, 2017. Awards shall be conferred in the inaugural session of the Conference. The details can be seen at website of society: www.isoah.co.in for the mode of application.

Contact persons

Annual General Body Meeting

Annual General Body Meeting of ISOH will be held on 16th February, 2018 at 7.30 PM at ICAR-NRCO, Pakyong, Sikkim.

Steering Committee

Chief Patron

Dr. T. Mohapatra, Secretary, DARE & DG, ICAR

Office Bearer	Contact person	Address
President, ISOH	Dr. S.K. Malhotra malhotraskraj@yahoo.com Mobile: 09968978191	Agriculture Commissioner, Krishi Bhawan, New Delhi
Vice-President & Organizing Secretary	Dr. D.R. Singh drdrsingh66@gmail.com Mobile: 08348238334	Director, ICAR-National Research Centre for Orchids, Pakyong, Sikkim
Co-Organizing Secretary	Dr. L.C. De lakshmanchandrade@gmail.com Mobile: 09609009656	Principal Scientist, (Hort.), ICAR-National Research Centre for Orchids, Pakyong, Sikkim
	Dr. Ramgopal Devadas rdevdas@gmail.com Mobile: 08016272553	Principal Scientist, (PB), ICAR-National Research Centre for Orchids, Pakyong, Sikkim
	Dr. Laxuman Sharma laxuman@gmail.com Mobile: 9434217895	Associate Prof. & HOD, Dept. of Horticulture Sikkim University
Secretary, ISOH	Dr. S.S. Sindhu sssindhu2003@yahoo.co.in Contact: 011-25841929 (Off.) Mobile: 09868073757	Head, Division of Floriculture and Landscaping, ICAR-IARI, Pusa, New Delhi-110012

Krishi Bhawan, New Delhi

Patrons

1. Dr. A. K. Singh, DDG (Hort and Crop Sci.), ICAR, New Delhi.
2. Dr. A. K. Singh, DDG (Extension) & Director, IARI, New Delhi.

3. Mr. Khorlo Bhutia, Secretary (Horticulture), Govt. of Sikkim.
4. Dr. K. M. Bujarbaruah, Vice Chancellor, AAU, Jorhat-Assam.
5. Dr. (Prof.)T.B. Subba, Vice Chancellor, Sikkim University, Gangtok.
6. Dr. M. Premjit Singh, Vice Chancellor, CAU, Imphal, Manipur.
7. Dr. C. Chattopadhyay, Vice Chancellor, UBKV, Pundibari, WB
8. Dr. Dharni Dhar Patra, Vice Chancellor, BCKV, Mohanpur, WB
9. Dr. Pardeshi Lal, Vice Chancellor, Nagaland University, Kohima.

Convener : **Dr. D. R. Singh**
Director, ICAR-NRC Orchids, Sikkim.

NATIONAL ADVISORY -CUM- ORGANIZING COMMITTEE

Chairmen : **Dr. H.P. Singh**
Former DDG (Hort.), Chairman ISOH.

: **Dr. S.K. Malhotra**
Agriculture Commissioner, MoA & FW

Members :

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ADG (Hort.), ICAR
Dr. WS Dhillon
ADG (Hort.), ICAR
Dr. BNS Murthi
Horticulture Commissioner
Dr. Narender Prakash
Director, ICAR NEH Research Complex, Barapani
Dr. M.R. Dinesh
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Director, CIH, Nagaland
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Dr. RP Misra
Dean, CAE&PHT, CAU, Ranipool, Gangtok
Dr. S. Mannivannan
Dean (Students), Sikkim University

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- Dr. Ramesh Kumar, Former Director, DFR, Pune
- Prof.(Dr.) Promila Pathak, Professor, Department of Botany, Panjab University Chandigarh
- Shri Padam Subba, Joint Director, Floriculture, Govt. of Sikkim

- Shri D. K. Bhandari, Addl. Director, Floriculture, Govt. of Sikkim
- Dr. D. K. Agrawal, Head& Scientist i/c, BSI, Gangtok
- Dr. Dhanapal, Head, Spices Board, Gairigaon, Gangtok
- Dr. Sunil S. Thorat, Head& OSD, IBSD, Tadong, Gangtok
- Head, Ayurveda, Gairigaon, Gangtok
- Head & Scientist i/c, GB Pant National Institute of Himalayan Environment and Sustainable Development, Gangtok
- Principal, Himalayan Pharmacy Institute, Majhitar, Rangpo, Sikkim
- Dr. D. Barman, Pr. Scientist (Hort.) & i/c, IARI-Regional Station, Kalimpong-West Bengal
- Dr. Sunil Kumar, Head (Hort.), NEHU
- Dr. S. Chakrabarti, Pr. Scientist (Genetics), ICAR-NRCO, Pakyong, Sikkim
- Dr. R. Devadas, Pr. Scientist (Plant Breeding), ICAR-NRCO, Pakyong, Sikkim
- Dr. M. Kannan, Head, Floriculture & Landscaping, TNAU, Coimbatore
- Dr. Y. C. Gupta, Head, Floriculture, Solan
- Dr. S. L. Chawla, Joint Secretary, ISOH.
- Dr. Kanwar Pal Singh, Chief Editor, ISOH.
- Dr. Babita Singh, Treasurer, ISOH.
- Head, Horticulture, Nagaland University, Kohima,,Nagaland
- Dr. J.S. Arora, Former Head, Floriculture, Ludhiana
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- Dr. G.T. Patle, Associate Professor CAE&PHT, CAU, Ranipool, Gangtok
- Dr. S. P. Kannoja, Nagaland University

REGISTRATION FORM

Name of the applicant: _____

Designation: _____

Organization: _____

Address for communication: _____

Title of Paper: _____

Name of Theme : _____

Registration Fee: _____ **Cash:** _____

DD No: _____ **Date:** _____

Accommodation required: Yes/No (ICAR/Hotel) please tick if (Yes)

Food preference: Veg./ Non- Veg.(please tick)

Accompanying person, if any: _____

Travel Plan: From: _____ **to** _____

Particulars	Date	Time	Flight/Train/Road
Arrival			
Departure			

Date: _____

Place: _____

Signature of the Participant

*** For registration email the form to organizing committee:
lakshmanchandrade@gmail.com ***

Participants are requested to make sure they carry warm clothing's.

Important places to visit while at Sikkim

Nathu La is a mountain pass in the Himalayas. It connects the Indian state of Sikkim with China's Tibet Autonomous Region. The pass, at 4,310 m above mean sea level, forms a part of an offshoot of the ancient Silk Road.



Namchi or Namtse is the district headquarters of the South Sikkim. **Char Dham**, the four most revered Dhams of the Hindus has been replicated in this fantastic complex to benefit the devotees and tourists.



Rumtek Monastery also called the Dharmachakra Centre, is a gompa located near the capital Gangtok. It is one of the largest and most significant monasteries in Sikkim, perched on hilltop overlooking Gangtok.



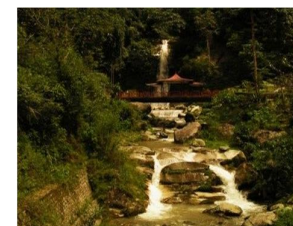
Hanuman Tok is a Hindu temple complex which is located in the upper reaches of Gangtok, the capital of the Indian state of Sikkim. The temple is dedicated to lord Hanuman, and maintained by the Indian army.



Close to Tashi View point is Ganesh Tok, a temple of Lord Gansha. It's located at an altitude of 6,500 ft



The Banjhakri Falls and Energy Park is a recreation centre near Gangtok. Ban Jhakri means 'Jungle Priest' or in some definition 'Jungle Magician'.



The local sight-seeing tour will be conducted at the end of the seminar for the interested participants on payment basis and this tour will operated by travel agents.