



## Chairman, PNASF Speaks

*Food remains the prime focus for the survival of human beings and its production is propelled by efficient farming for which the agriculture/horticulture science is the engine. At this time, among 6 billion people on earth, about one billion are still suffering from hunger and malnutrition across the globe and of which 642 million are in Asia and the Pacific Region with 230 millions homed in India. Thus addressing issues of food and nutrition security attains its priority among the major issues of food, clothing and shelter for human kind. Moreover, dealing with health issues becomes equally important in the wake of prevailing diseases and health disorders.*

*During the present millennium with the urge for quality life, and emerging availability of new and fresh crops and its processed products, and change in food habits, horticulture is gaining importance as the second line of defense with the cereals and legumes as the first line of defense in the food domain globally. The area under horticultural crops, viz., vegetables, fruits and medicinal and spice crops is increasing and the production of these crops has increased considerably, and its availability could be seen into the multiplicity of fresh and processed food chains stores opening across the country. During the next decade the urban population surpasses the rural population and is expected to put high pressure on peri-urban horticulture.*

*Horticulture crops produce more than cereals. They provide minerals, vitamins, fibers, antioxidants and mineral water more than other group of crops per unit area per unit time. The horticulture farming is largely labor intensive and important source of employment generation. In the present Indian market, we observe, the Indian apple available for Rs. 50/kg whereas, Australian and American apples for Rs. 100/kg but both are sold out by the end of day.*

*Horticulture assumes importance because of its significant contribution in food security and its major role in nutrition security. Recent experimental studies by the WHO has concluded that adequate consumption of vegetables and fruits prevents certain non-communicable diseases such as some cancers, blood pressure, diabetes, and above all growing obesity among young and old in many regions of the world. The FAO and the WHO have advocated the consumption of 400gms per capita per day of vegetables and fruits for good health. In addition, medicinal crops assume importance because of its medicinal values.*

*In order to understand and assess the growing importance of horticulture in food security, nutrition and health security and employment generation and its impact on economic growth, an International Conference on Horticulture was organized by the Dr. Prem Nath Agricultural Science Foundation (PNASF) jointly with the Vegetable Science International Network (VEGINET) and the University of Agricultural Sciences, Bangalore, during November 9-12, 2009 at the ITC-Hotel-the Windsor, Bangalore. The Conference flagged and debated on relevant issues as mentioned above and identified challenges and opportunities in horticulture, listed out thrust areas, and made appropriate recommendations for the sustainability of horticulture sector in the present agricultural scenario and its role in providing livelihood security of the farmers and in economic growth of the nation. About 750 participants from about 40 countries attended the conference.*

*The organization of this conference has great importance in bringing several countries together and in facilitating the participation of all states of the host country on issues of horticulture. The PNASF and VEGINET played a significant role in making the event happen towards Technical Cooperation Among Developing Countries (TCDC) and provided an incentive and opportunity to all states of the host country, India to consider formation of Technical Cooperation Among States (TCAS) of the nation. Also, the time is ripe that the activities of National Horticulture Board, National Horticulture Mission and Ministry of Agriculture are supported by an Indian Council of Horticultural Research.*

*Prem Nath*  
 (Prem Nath)

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### His Excellency The Governor of Karnataka Inaugurates ICH-2009

His Excellency, the Governor of Karnataka, Shri Hans Raj Bharadraj, inaugurated the International Conference on Horticulture (ICH-2009) "Horticulture for Livelihood Security and Economic Growth" on November 9, 2009 at the ITC Hotel-The Windsor, Bangalore, India. About 750 delegates from 40 countries including Asia, Africa, Europe, Middle East and United States participated in the deliberations.



Shri H.R. Bhardwaj inaugurating by lighting the lamp

Addressing the gathering Shri Bharadwaj said that horticulture sector plays a prominent role in addressing the food security by providing food and nutrition and also generates ample employment opportunities that ensures livelihood for about 70% of the world population (majority of this population housed in India and China alone) involved in agriculture and allied activities.



Shri H.R. Bhardwaj addressing the gathering

Appreciating the efforts of agricultural scientists in developing technologies to augment the food crisis, Shri Bharadwaj called upon the delegates to deliberate on issues like pulse and cereal based horti-rich diets for common man.

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He further appreciated the efforts of PNASF, VEGINET and UAS, Bangalore in organizing an International event of such kind and on such a large scale, bringing many countries and various stake holders of horticulture on a common platform.



Hon'ble Shri S.A. Ravindranath addressing the audience

Addressing the delegates on the occasion, as Guest of Honor, Shri. S.A. Ravindranath, Honorable Minister for Agriculture, Government of Karnataka said that Karnataka State has achieved a remarkable progress in the field of horticulture and development of horticulture in the state has put its farmers in the path of progress and prosperity. He further said that Karnataka state

has been instrumental in initiating many new waves in science and technology in the country and this International Conference on Horticulture will be another milestone in the history of Karnataka and called upon the delegates to initiate appropriate actions suitable at various levels and join hands in fighting hunger and eradication of poverty.

Shri. Basavaraj. S. Bommai, Honorable Minister for Major and Medium Irrigations, Government of Karnataka who also graced the occasion as the Guest of Honor, addressing the gathering



Honorable Shri Basavaraj S. Bommai addressing the audience

said that Karnataka state has been a fore runner in horticulture with natural and man made abundance in variety of horticulture flore. The Karnataka State has about 55 Lakh hectare of land under major and medium irrigation projects and the State Government has implemented many schemes to provide and improve irrigation water use for agriculture and horticulture crops. The best

horticultural crop practices coupled with micro irrigation technologies have proved beneficial in realizing more crop yield per crop and drop he added. The Minister was optimistic about the outcome of the conference and hoped that a draft document and action plan for providing livelihood security to the farmers will be developed by the conference in this conference hall in order to guide various stake holders of horticulture to initiate a horticulture based revolution in Karnataka state which will serve as a model for other states to follow. The conference was graced by Shri M.V. Rajasekharan, former Union Minister of State for Planning



Shri M.V. Rajasekharan gracing the conference



Prof. V. L. Chopra addressing the audience

and Prof. V.L. Chopra, former Member, Planning Commission, Government of India as Guests of Honors.

Dr. Prem Nath, Chairman, PNASF, Convener, VEGINET and Chairperson, Organizing Committee, ICH-2009 presented the keynote address on the occasion, said that horticultural crops produce many times more than other crops per unit area, per

unit time apart from providing nutritional security and source of employment opportunities. Recognizing the importance of these crops in food, nutrition and health security and better economic gains, the area under horticultural crops is increasing and overall horticultural production is increasing significantly in both the developed and developing countries. The impact of horticultural crops is well pronounced in the food domain today, particularly in fighting hunger and malnutrition across the globe. Dr. Prem Nath informed the gathering that in order to asses the spectrum of activities taking place in horticulture industry and to examine its overall impact on livelihood security, the present conference has been organized. Dr.



Dr. Prem Nath addressing the audience.

P.G. Chengappa, Vice Chancellor, University of Agricultural Sciences (UAS), Bangalore and Vice-Chairperson of the Organizing Committee of the conference welcomed the inaugural audience.



Dr. P.G. Chengappa, welcoming the audience.



Dr. O.P. Dutta, presenting vote of thanks.

Two publications of the conference viz; the Abstract Book and Souvenir and a book entitled "Foods and Nutrition" authored by K.G. Ahuja, Prem Nath and K.R.M. Swamy edited by P.B. Gaddagimath were released by His Excellency, the Governor of Karnataka and Honorable Ministers on this occasion. Eminent and renowned researches who have made significant contributions in the field of agriculture were awarded national and international gold and silver medal awards by Dr. P.N. Agricultural Science Foundation (PNASF), Bangalore and were presented to the awardees by His Excellency, The Governor of Karnataka. The event was concluded by the vote of

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Abstract Book being released by Prof. V. L. Chopra.



Book entitled "Foods and Nutrition" being released by Shri S.A. Ravindranath.



ICH Souvenir being released by Shri H.R. Bharadwaj.

thanks by Dr. O.P. Dutta, Secretary of the Organizing Committee of the conference.

## 2<sup>nd</sup> International Conference on Horticulture after 4 years-Concludes ICH-2009

The International Conference on Horticulture ICH-2009 was concluded on 11<sup>th</sup> November, 2009 with an unanimous recommendation of the General Assembly to organize the 2<sup>nd</sup> International Conference on Horticulture four year later and participating organizations/countries would indicate their willingness to host this conference in their country. The Valedictory function of the conference was organized on the evening of the 11<sup>th</sup> November,

2009 at the conference venue. Shri M.V. Rajasekharan, former Union Minister of State for Planning, Government of India was the Chief Guest. Addressing the gathering Shri Rajasekharan expressed his deep concern over the growing population, food insecurity, malnutrition, health problems, unemployment, hunger and poverty, climate change and vagaries of climate.



Dignitaries on the dais during Valedictory Session.

Since horticultural crops are best source of food and roughage, provide required nutrients and vitamins vital to human well bring and generate more employment opportunities, need to be promoted and supported by all and appealed to all stake holders of horticulture sector to contribute their mite for the development of horticulture. Shri Rajasekharan congratulated the organizers viz; PNASF, VEGINET and UAS, Bangalore on the success of the conference and informed the organizers to forward the outcome of the conference in the form of recommendations to all the stake holders to initiate possible actions and also to the government departments and organizations for policy interventions. He also thanked the organizers for inviting him to be a part of this conference. Three best poster papers including one student paper were awarded and the awardees were presented with a plaque and certificate by the Chief Guest.

Presiding over the valedictory function, Dr. Prem Nath, Chairperson of the Organizing Committee of the conference congratulated and thanked all the members of the organizing committee for their co-operations and their untiring efforts in making the International Conference a grand success. Dr. Prem Nath thanked the authorities of the University of Agricultural Sciences, Bangalore and VEGINET, Bangalore for their partnership and assistance. Collaboration of Karnataka State Department of Horticulture, University of Horticultural Sciences (UHS), Bagalkot, National Horticulture Mission, Planning Commission, Indian Council of Agricultural Research (ICAR), and international organizations like Food and Agriculture Organization of the United Nations (FAO), International Crops Research Institute for Semi-Arid Tropics (ICRISAT) etc and a host of sponsors for their support in the successful organization of the International Conference was gratefully recognized. Lastly, he thanked all the international and national delegates for their active participation in the deliberations of the conference

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## International Conference on Horticulture (ICH-2009)

### Conference

The International Conference on Horticulture (ICH-2009) with the theme *Horticulture for Livelihood Security and Economic Growth* was held in Bangalore, Karnataka State, India during November 9-12, 2009. It was organized by Dr. Prem Nath Agricultural Science Foundation (PNASF), Bangalore in association with Vegetable Science International Network (VEGINET), Bangalore and University of Agricultural Sciences (UAS), Bangalore and in collaboration with national and international organizations like, Indian Council of Agriculture Research (ICAR), New Delhi; Ministry of Agriculture and Cooperation, Government of India; Planning Commission, Government of India; National Horticulture Mission, New Delhi; Karnataka Department of Horticulture, FAO, Rome; ICRISAT, India; ICARDA, Syria; AVRDC, Taiwan; ICUC, Sri Lanka and others.

### Objective

The objective of the conference was to develop a plan to guide the development of cost-effective and efficient horticultural interventions to generate additional employment and income opportunities, crop diversifications through increased production and consumption of horticultural crops, provide better food and nutritional security, improving health status by prevention of non-communicable diseases and micronutrient deficient disorders, all leading to livelihood security of farmers particularly small and marginal ones and overall economic growth of both producers and consumers.

### Participants and Sessions

About 750 delegates from 40 countries including Asia and the Pacific, Africa, Central Asia, Europe, Middle East and United States participated in the deliberations of the conference. There were 17 technical sessions including a seminar, covering six theme areas viz; *Theme Area I: Technological Domain, Theme Area II: Institutional and Policy Support: Socio - Economic Domains, Theme Area III: Producer – Consumer Domain, Theme Area IV: Technical Cooperation among Developing Countries (TCDC), Theme Area V: Challenges and Opportunities in Horticulture - Seminar; Theme Area VI: Plenary Session: Opportunities and Future Thrusts.* A total of 650 papers including 35 lead papers, 250 oral presentations, and 365 poster presentations were made. The *Dr. B.P. Pal Memorial Lecture* entitled



Participants in the Poster session of ICH-2009

“Horticulture and Health: Ancient and Medieval Views” was delivered by Professor Jules Janick, Purdue University, USA and the *Dr. Norman E. Borlaug Memorial Lecture* entitled “Changing Patterns of Consumption, Economic Growth and Food Security: Examining India's Experience in a Global Context” was delivered by Dr. Keith Wiebe, FAO, Rome.



Dr. Prem Nath, lighting the lamp during the Inaugural Session. Shri B.S. Bommai, Shri H.R. Bhardwaj, Shri S.A. Ravindranath and Dr. P.G. Chengappa (L to R) are also seen.



Panelists on the dais during the National Seminar of the Conference.



Audience during the Inaugural Session

### Recommendations

1. The Conference recognized horticulture as the second line of defense with cereals and legumes serving as the first line in the food domain. It was estimated and stated that horticulture (a) supports significantly to food security, (b) is the major contributor of nutrition security, (c) promotes good health, and (d) is source of employment generation - all leading to livelihood security and further economic growth.
2. The technological advancements were recognized and the contributions accounted. Some of the highlights are;
  - Attention may be given to breeding varieties which can grow with low-input agro techniques and extended growing season.

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Also develop varieties and production technologies suitable to urban and peri-urban locations.

- Underutilized, under-exploited volunteer and wild genotypes which offer livelihood security for tribal and ethnic communities, be promoted in the native form by research organizations and NGO's.
- Augment research work on promoting fruits, vegetables, spices, medicinal and aromatic plants in preventing various non-communicable diseases, on antioxidants and nutraceuticals in collaboration with WHO, FAO and other institutions.
- Use of biotechnological tools and genetic engineering is less pronounced in horticultural crops particularly in developing countries which should to be strengthened and accelerated. Emphasis be laid on specific traits like resistance to insect pests, drought and heat tolerance and extension of self-life of produce.
- Standardize global quality parameters for various fruits and vegetables, spices, tuber crops and flower crops and develop Good Agricultural Practices and Good Handling Practices for each crop; to enhance competitiveness and promote exports. Likewise, popularize them amongst the small and marginal farmers.
- Protocols/technologies may be developed/standardized for production of botanicals/plant products, bio-pesticides, bio-fertilizers and bio-control agents at the farm gate levels and unemployed youth be trained in production of these in order to reduce production cost, generate gainful employments and prevent migration to urban areas in search of employment.
- There is a need to study and understand agro-ecosystems diversity with respect to horticultural crops and its impact on livelihood security. In this context bio-intensive farm modules involving various horticultural crops need to be developed and promoted.

- Cost effective hybrid seed production protocols may be developed to reduce the cost of hybrid seeds, which can be affordable by small and marginal farmers. Phytosanitary certification standards for various seed and plant materials of horticultural crops for imports/exports need to be reviewed.
  - Validate scientifically various organic cultivation practices in vogue for different horticultural crops and workout-cost-benefit-ratio. Among the developing nations, the Transfer Technology Structure needs drastic change in order to meet the needs of the rural populations.
  - Awareness and education programme on food, nutrition and health security be launched and relevant policies articulated to augment it.
3. To build awareness about supply chain and value chain among the farmers.
  4. A wealth of technical information and ample number of technologies available but not accessible could be sourced through Net-Working of institutes and organizations for exchange of information, seed and plant materials and expertise. The FAO under the umbrella of Technical Cooperation Among Developing Countries (TCDC) has successfully implemented Special Programme for Food Security and in Low-Income-Food-Deficit Countries under South-South Co-operation and may act as facilitator for formation and strengthening such networks like VEGINET (Vegetable Science International Network).
  5. Horticulture education and research is not attracting younger generation and talents at expected levels worldwide. At this juncture, it is essential to update the university syllabus, improve the quality of research which should be more farmer's driven and not scientist's driven.
  6. The recommendations emerging out of this conference be distributed among all the stake holders and government organizations for possible implementation and policy interventions by the governments.

## PNASF National and International Awards

The PNASF, Bangalore announced the *International and National Gold and Silver Medal Awards* for known personalities who had contributed significantly to agriculture/horticulture, food and nutritional security, and were presented by the Chief Guest to;

### PNASF Gold Medals

#### International



Prof. Jules Janick, Distinguished Professor of Horticulture, Purdue University, USA for Promotion of Horticultural Science.



Dr. Mahmoud Solh, Director General, ICARDA, Syria, for Promotion of Dryland Horticulture and Dr. Ahmed Moustafa receiving on behalf of Dr. Mahmoud Solh,



Dr. Remin Nono Womdim on behalf of Mr. Wilfried O. Baudoin, former Head of Horticulture Group, FAO, Rome for Promotion of Vegetable Science and Dr. Remin Nono Womdim receiving on behalf of Mr. Baudoin

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## National



Dr. R.S. Paroda, Chairman, TAAS, New Delhi, for Promotion of Agricultural Research and Dr. Kirti Singh receiving on behalf of Dr. Paroda.



Dr. Anupam Varma, INSA Senior Scientist, New Delhi, for Promotion of Plant Protection Research



Dr. S. Bisalaiah, former Vice Chancellor, UAS, Bangalore for Promotion of Agricultural Economics.



Prof. R.S. Deshpande, Director, ISEC, Bangalore, for Research on Agriculture Policy.

Dr. K.V. Peter, former Vice-Chancellor, KAU, Thrissur, for Promotion of Horticulture Science.



## PNASF Silver Medals



Dr. K.R.M. Swamy, former Principal Scientist, IIHR, Bangalore for Promotion of Vegetable Research



Dr. B.S. Prabhakar, former Principal Scientist, IIHR, Bangalore for Promotion of Vegetable Agronomy.



Dr. D.P. Kumar, Professor of Horticulture, UAS, Bangalore for Promotion of Horticulture Science.

## ICH Silver Plaques

The Organizing Committee of the ICH-2009 honored the following with *ICH Silver Plaques* presented by the Chief guest, the Governor of Karnataka, Shri H.R. Bhardwaj;



Dr. P. G. Chengappa, Vice Chancellor, University of Agricultural Sciences, Bangalore for Outstanding Academic Leadership in Agriculture.



Dr. O. P. Dutta, Secretary, Scientific Programme Committee, ICH 2009 for Outstanding Scientific Programme Leader in Horticulture.



Dr. B. Raju, Chairman Logistic Committee, ICH-2009 for Outstanding Contribution to Conference Logistics.

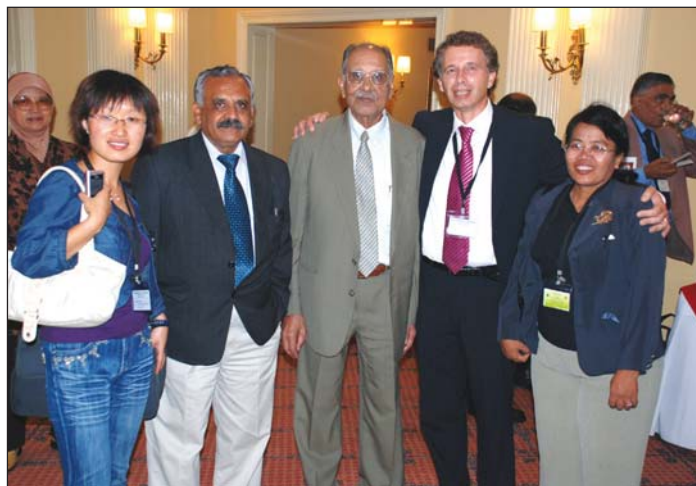
## Other Highlights of the Conference:

The other important highlights of the conference were;

- ◆ A Seminar on Challenges and Opportunities in Horticulture was organized on November 11, 2009 wherein eight presentations from six panelists and two moderators were made, deliberations held with audience and recommendations drawn.
- ◆ In the Plenary Session, all the Chairperson of all the sessions/ theme areas presented the recommendations made in their respective sessions which were again discussed in the light of the main theme of the conference and the final recommendations of the conference were drawn.
- ◆ HORTIVAR Training was jointly organized by the FAO and PNASF during the conference for the benefit of the delegates.
- ◆ The VEGINET Executive Council was formed by nominations/ election in the General Assembly on November 11, 2009 during the session of TCDC.
- ◆ In the Valedictory Session, three best poster paper awards were presented and all the delegates were issued with the certificates of participation.
- ◆ A Post Conference Study Tour to the research farm of Namadhari Seeds Pvt. Ltd, Bidadi and the processing unit of Namadhari Fresh was organized for the benefit of interested delegates on November 12, 2009.
- ◆ An exhibition showcasing the products and technologies of different stake holders was organized for the benefit of the participants.



Study Tour and Excursion



Abroad participants with Dr. Prem Nath and Dr. P.G. Chengappa

- ◆ Cultural Programmes were arranged, entertaining the delegates on November 9 and 10 November, 2009 followed by dinner.

## Technical Cooperation among Developing Countries (TCDC):



The lead paper entitled "FAO Experience of Technical Cooperation among Developing Countries" was presented by Dr. Gavin Wall, FAO Representative to India and Bhutan during the ICH-2009.

Dr. Gavin Wall, FAO Representative for India and Bhutan, receiving the memento from Dr. Sundari Velu, USA on behalf of the Organizing Committee



Cultural Evenings



Delegate at the dinner

## Pre-Conference Preparatory Events

### Former Minister of State for Planning, Government of India Visits PNASF

Honorable Shri M.V. Rajasekharan, former Minister of State for Planning, Government of India visited PNASF on October 29, 2009. The Organizing Committee of the ICH-2009 explained to the guest about the theme and objectives of the conference and appraised him of the preparations of the conference. The distinguished visitor was pleased with the preparations of the conference and encouraged the members and promised all possible guidance. Shri Rajasekharan Ji was cordially invited by the Organizing Committee of the ICH-2009 to be the Guest of Honor during the inauguration of the conference to which he gladly accepted.

## Visit to the Minister of Agriculture, Government of Karnataka

On October 22, 2009, Dr. Prem Nath, Chairperson, Organizing Committee, ICH-2009, visited Shri S. A. Ravindranath, Honorable Minister of Agriculture, Government of Karnataka. Dr. Nath appraised him of the activities of the PNASF, VEGINET and the upcoming ICH-2009. Honorable Minister was pleased with the activities of these organizations and appreciated the efforts of PNASF, VEGINET and UAS, Bangalore in organizing International Conference in Karnataka. He gladly accepted the invitation to be the Guest of Honor during the inaugural session of the conference on November 9, 2009.

## Visit to the Minister of Horticulture, Government of Karnataka

Dr. Prem Nath, Chairperson, Organizing Committee, ICH-2009 visited the Honorable Minister of Horticulture, Government of Karnataka, Shri Umesh V. Katti, on October 22, 2009 and appraised him of the activities of the PNASF and VEGINET which he appreciated. The Minister was pleased with the efforts of the PNASF, VEGINET and UAS, Bangalore in organizing the upcoming International Conference on Horticulture (ICH-2009) in Bangalore for the benefit of the horticulture sector. On behalf of the organizing committee he was invited to participate as the Guest of Honor during the inaugural session of the conference.

## Visit to the Governor of Karnataka

The Chairman, PNASF made a courtesy call upon the Governor of Karnataka, His Excellency, Shri H.R. Bhardwaj on October 15, 2009 at Raj Bhawan, Bangalore. The Governor was pleased to learn about the activities of PNASF and showed his interest in visiting the field to witness the project activities particularly on Promotion of Rural Women Self Help Group through Dairy Development. Dr. Prem Nath, Chairperson, Organizing Committee, ICH-2009 extended cordial invitation to the Governor to be the Chief Guest and inaugurate ICH-2009 on November 9, 2009 to which he gladly accepted.

## Visit to the Private and Non-Government Sectors

- ◆ On April 28, 2009 the ICH team consisting of Dr. Prem Nath, Dr. K.R.M.Swamy, Dr. B.S. Prabhakar visited M/s Namadhari Seeds Pvt. Ltd, Bangalore and held discussion with the Managing Director Shri Thakur Uday Singh and his colleagues, at their establishment at Bidadi. Shri Singh showed great interest in the International Conference on Horticulture (ICH-2009) and expressed his support, contribution and participation. The team visited field activities and appreciated the good work being done by M/s Namadhari Seeds Pvt. Ltd. in developing new vegetable varieties, producing and marketing vegetable seeds and fresh vegetables to Indian market and abroad.
- ◆ On April 29, 2009, the team consisting of Dr. K.R.M.Swamy, Dr. B.S.Prabhakar and Dr. Prem Nath visited Indo American Hybrid Seeds Pvt. (India) Ltd., Bangalore and met Dr. Manmohan

Attavar and his colleagues; Dr. K.P.Vasanth Shetty, Dr. Santosh Attavar. Ms. Rashmi Attavar and others. Dr. Attavar appreciated the efforts of the Organizing Committee in initiating and organizing the International Conference on Horticulture (ICH-2009). He expressed his strong support to the conference and extended his participation in terms of technical paper, exhibition and financial contributions. The team complemented the efforts of Indo American Hybrid Seeds Pvt. (India) Ltd., Bangalore, equipped with modern labs in developing new vegetable and other varieties, producing seed for marketing in India and abroad.

- ◆ On April 29, 2009, the team consisting of Dr. Prem Nath, Dr. K.R.M.Swamy and Dr. B.S.Prabhakar visited Institute of Social and Economic Change (ISEC), Nagarbhavi, Bangalore and held meeting with Director, Prof. R.S.Deshpande and his colleagues and invited them to participate in the upcoming International Conference on Horticulture (ICH-2009). Prof. Deshpande was requested to chair two sessions;- 2.3 National Agricultural Policy and Programmes and 2.4 Economic Growth. Prof. Deshpande appreciated the efforts of the Organizing Committee in organizing the ICH-2009 and looked forward to the active participation of the ISEC in presenting lead papers and deliberations of the conference.

## Visit to the Secretary, Agriculture, Government of India

On February 12, 2009, Dr. Prem Nath accompanied by Dr. Anupam Varma had a cordial meeting with Mr. T. Nandakumar, Secretary, Department of Agriculture, Ministry of Agriculture, Government of India, New Delhi. Dr. Prem Nath explained the theme, aims and objectives of the International Conference on Horticulture (ICH-2009) and Mr. Nandakumar showed keen interest and extended his expression of support to the success of the conference in the interest of upcoming upsurge in horticulture sub-sector.

## Visit to the Planning Commission, Government of India

On February 12, 2009, Dr. Prem Nath visited Prof. V. L. Chopra, Member Planning Commission in his office and briefed him about the theme and objectives of the International Conference on Horticulture (ICH-2009) and appraised him about its planning and preparation. Prof. Chopra was pleased and agreed to participate and extend support to the conference. He emphasized that the conference should analyze the issues involved and examine the upcoming scenario coupled with future thrusts and suggest future strategy and planning. On behalf of the Organizing Committee (ICH-2009), Dr. Prem Nath invited him to be the Guest of Honor during the inauguration of the conference to which he gladly accepted.

On February 12, 2009, Chairman PNASF visited Dr. V.V.Sadamate, Adviser, Agriculture and held discussion with him with regard to the technical programme of the conference and possible financial support from the Planning Commission, Government of India. Dr. M.J. Chandre Gowda joined the discussion. On the invitation



of Dr. Nath, Dr. Sadamate agreed to present a lead paper to the conference.

## **Visit to the Department of Biotechnology, Government of India**

The Chairman, PNASF had an interesting discussion with Dr. Renu Swarup and Dr. K. S. Charak, Advisor, Department of Biotechnology, Ministry of Science and Technology, Government of India, New Delhi on February 12, 2009. Dr. Prem Nath was accompanied by Dr. Anupam Varma and they briefed the officials of the upcoming ICH-2009 and requested for technical and financial assistance. Dr. Swarup and Dr. Charak showed their interest in the conference and expressed their support to the proposal submitted.

## **Visit to the FAO Representative for India and Bhutan, New Delhi**

On February 11, 2009, Dr. Prem Nath visited Dr. Gavin Wall, FAO Representative for India and Bhutan, New Delhi. They shared their knowledge on international agriculture with particular reference to Indian Agriculture. Dr. Prem Nath briefed him about the progress and development with regard to the upcoming ICH-2009 and extended the invitation to present a lead paper on Technical Cooperation among Developing Countries (TCDC) to which he gladly accepted.

## **Meeting with the University of Horticultural Sciences (UHS), Bagalkot, Karnataka**

Dr. S.B. Dandin, Special Officer, UHS, Bagalkot, had a meeting with Dr. Prem Nath, Chairman, PNASF, Dr. K.R.M. Swamy, Mr. P. B. Gaddagimath on January 8, 2009 at the Hotel Chancery Pavilion in Bangalore. Dr. Dandin briefed the team about the developments of the newly opened University of Horticultural Sciences at Bagalkot and experiment stations and colleges spread over the Karnataka State.

Dr. Nath briefed him about the International Conference on Horticulture (ICH-2009) and the progress made in this regard. Dr. Dandin showed great interest in the upcoming ICH-2009 and expressed active participation and contribution of faculty members to the conference and assured full cooperation and support of the university in organizing the conference.

## **Meetings with the University of Agricultural Sciences, Bangalore**

A number of meetings were held by the Organizing Committee of the ICH-2009 at the University of Agricultural Sciences (UAS), Bangalore. The first meeting of the Organizing Committee was held at the UAS, GKVK Campus, chaired by the Chairperson Dr. Prem Nath and co-chaired by Dr. P.G. Chengappa, Vice Chancellor, where the preparation of the conference was planned out. The first meeting of the ICH Logistics Committee was chaired by Dr. P.G. Chengappa, co-chaired by Dr. Prem Nath and hosted by Dr. B. Raju, where the logistics support of the conference was laid out. Thereafter several

collaborative meetings were held at the PNASF and UAS, Bangalore which laid foundation to the implementation of the programme of the conference.

The Organizing Committee of the ICH-2009 gratefully acknowledges and places on record the strong support of the UAS, Bangalore to the logistics and technical aspects of the conference with the valuable guidance of Dr. P.G. Chengappa assisted by Dr. B. Raju, Dr. S. Jaganath, Dr. D. Thirtha Prasad, Dr. H. Shivanna, Dr. D.P.Kumar, Dr. V. Ramakrishna Parama, Dr. K. M. Indires, Dr. R. Krishna Manohar, Dr. D. L. Savithamma, Dr. Khadar Khan, Dr. B.M. Ramakrishna, Dr. K. Umesh, Dr. N. C. Narase Gowda, Dr. H. V. Nanjappa, Dr. Ramakrishna Rao, Dr. K. P. Ramaprasanna, Dr. Narasimha, Dr. K. Narayana Gowda, Mr. N. Naganna, Mr. S. Guruswamy and others.

## **PNASF Technical Advisory Council (TAC) Meetings**

The Technical Advisory Council (TAC) of the PNASF met a number of times to support particularly the Organizing Committee of the ICH-2009 in order to plan and programme the activities of the conference. Since TAC gave birth to the idea and theme of the ICH-2009, it continued its relentless support to the successful implementation and completion of the conference.

The PNASF places on record the dedicated support, valuable contribution, and limitless time volunteered by Dr. O.P. Dutta, Dr. K.R.M. Swamy, Mr. P.B. Gaddagimath, Dr. B.S.Prabhakar and Mr. Vinod K. Huria. These members served as pivot in the management of the conference which is humbly acknowledged.

The members of TAC from distance Dr. K.G. Ahuja (USA), Dr. R.K.N. Singh (Canada) and Dr. Sundari Velu (USA) supported the conference through electronic media and by their visits. Dr. Sundari Velu participated and supported the Scientific Programme Committee during the conference.

The Member Trustee, PNASF, Ms. Shyamla Nath (Bombay) provided her inputs and support through out and made her presence and active participation in managing the Secretariat during the conference. Member Trustee, Dr. Bijoyendra Nath (USA) extended his support through electronic media.



Ms. Shyamla Nath with the members of the Secretariat

The Secretariat staff, Ms. Vanita N. Shetty, Mrs. Latha Vinayak, Mr. K.S. Bharath Kumar, Ms. Mangala V. Reddy, Ms. Priyanka R. and Ms.

Shalini R. assisted the activities of the Secretariat with dedication and sincerity and they deserve all appreciation.

## Meetings with officials of the Government of India and other organizations

The Chairman, PNASF had a number of meetings with different senior officials, viz; Dr. H.P. Singh, Deputy Director General (Horticulture), ICAR; Dr. Anupam Varma, INSA Senior Scientist, IARI; New Delhi; Dr. M.J. Chandre Gowda, Additional Commissioner (Extension), Ministry of Agriculture, Government of India; Dr. C. Prasad former Deputy Director General, ICAR; Dr. Brahm Singh, former Director, DRDO; Dr. Kirti Singh, former Chairman, ASRB; Dr. R.B. Singh, former ADG, FAO; Dr. Vishnu Swarup, Director of Research, Indo American Hybrid Seed (India) Private Limited; and others. These officials appreciated the efforts of the Organizing Committee in organizing the ICH-2009 and expressed their strong support in preparation of the conference. They contributed significantly to the success of the conference.

## ICH Meetings

In preparation of the ICH-2009, several meetings were held, detailed discussion and important decisions were taken during 2009, before the actual conference was held. Among them, key and milestone meetings held were;

Organizing Committee meetings at PNASF and UAS, Bangalore (2); Advisory Committee Meetings (3); Meetings of the Scientific Programme Committee (SPC) (3); Meetings of the Working Group of the SPC (25); Meetings of the Logistics Committee at UAS, GKVK, Bangalore on March 4, May 4, September 9, October 16 and 28 and November 23 (6); Meetings of Logistics Sub-Committee at PNASF, UAS, Bangalore (15); Meetings of the Souvenir Committee (5); Meetings of the Editorial Committee (10); Meetings of the Resource Mobilization Committee (8); Meeting of the PNASF Technical Advisory Council (TAC) (10); Electronic Meetings of the VEGINET Nomination Committee (3).

The ICH Organizing Committee is very appreciative of the valuable contribution, dedicated support and limitless time provided to the activities and resources of the conference by the august members of councils, committees, sub-committees and working groups of the ICH-2009.

## ICH Nodal/Chairpersons

The Nodal/Chairperson of each Technical Session was nominated one and half year in advance who conceptualized and developed the session by planning it with selection of relevant topics in line with the theme of the conference, selecting the lead titles and nominating the national and international lead speakers. The Chairperson formed their own team to evaluate all the papers submitted by the participants, chaired the sessions and prepared the proceedings and recommendations of each session with the assistance of the

Rapporteurs and presented to the Plenary Session of the Conference. The Nodal/Chairpersons and Co-Chairpersons were;

Dr. Vishnu Swarup, Prof. K.V. Peter, Dr. A.S. Sidhu (Improved Crops); Dr. Kirti Singh (Crop Management); Dr. Anupam Varma, Dr. P. Parvatha Reddy (Crop Protection); Dr. Hannah Jaenicke, Dr. Brahma Singh, Dr. B. Raju (Underutilized Crops); Dr. K. V. Peter, Dr. Brahm Singh (Crop Diversification); Dr. K.P. Vasanth Shetty, Dr. O.P. Dutta (Seed and Planting Material); Dr. V. Prakash, Dr. K. Santhanam, Dr. A.S. Bawa (Post Harvest Management); Dr. G.K. Veeresh, Dr. G.S. Prakash (Organic Farming); Dr. C. Prasad, Dr. V.V. Sadamate (Technology Generation, Transfer and Utilization: Examination of Three Sub-Systems); Dr. R. B. Singh, Dr. E. Vadivel (Screening Technologies for Horticultural Development in Socio - Economic and Agro-Climatic Perspective); Dr. R.S. Deshpande, Dr. S. Bisalial, Dr. Keith Weibe (National Agricultural Policy and Programmes and Economic Growth); Dr. Prem Nath, Dr. Alison Hodder (Food, Nutrition and Health Security); Dr. P.G. Chengappa, Dr. M.G. Chandrakanth (Marketing and Supply - Chain Management); Dr. V. Prakash, Dr. M. Mahadevappa, Dr. C.P.A. Iyer (Strategies for Value Addition: Employment and Income Generation to Farmers); Dr. Prem Nath, Dr. Alison Hodder (Technical Cooperation among Developing Countries); Dr. Prem Nath, Dr. S. Bisalial (Seminar-Challenges and Opportunities in Horticulture). The Chairpersons were supported by the lead speakers, whose contribution is greatly appreciated.

These Nodal Persons served as the pivot to the planning and development of the technical programme of the conference, supported by the Scientific Programme Committee.

The meeting of the Chairperson of the Technical Sessions (North Zone), was held on February 12, 2009 at the Indian International Centre Annex, New Delhi; and of Southern Zone was held on March 2, 2009, The ITC Hotel-The Windsor, Bangalore, where most of the members participated and supported by the Scientific Programme Committee.

## Other Events

### Fourth National Symposium on Noni Research 2009

Dr. Prem Nath was invited to participate in the Fourth National Symposium on Noni for Empowerment and Prosperity held during October 24-25, 2009 in Chennai, organized by World Noni Research Foundation, Chennai. He served as the Chairman of the Technical Session I-Crop Improvement and Production.

### International Agri and Floritech Expo-2009

Dr. Prem Nath was invited to be the Chief Guest during inaugural session of the International Agri and Floritech Expo held on November 6-9, 2009 at Palace Ground, Bangalore, where 350 Exhibitors from Flora and Agro Tech, Rice and Grain Tech and Bakery and Food Tech participated.

# EVENTS/RESEARCH AND DEVELOPMENT SUPPORT/ INTERNATIONAL CO-OPERATION

## Visit of PNASF TAC and VEGINET Members

- Dr. Sundari Velu (California), the TAC Member visited PNASF on November 8, 2010 and held discussion with Dr. Prem Nath, Dr. O.P. Dutta and Dr. K.R.M. Swamy regarding the progress and activities of the PNASF. During the ICH-2009, she assisted the Scientific Programme Committee in managing the Technical Sessions. She was pleased to make a contribution to the cause of PNASF activities, which is gratefully acknowledged.



Dr. Sundari Velu with Dr. Prem Nath

- Dr. R.K.N. Singh (Toronto), the TAC Member visited PNASF on 8<sup>th</sup> December 2010 and held discussion with Dr. Prem Nath and other colleagues. He was briefed about the success of the ICH-2009 and was presented with the copy each of ICH-Souvenir and Abstract Book. Dr. Singh expressed his happiness and congratulated the conference team on the success of the conference



Dr. R. K. N. Singh with Dr. Prem Nath

- Dr. Usha R. Palaniswamy (New York), VEGINET focal Point (USA), visited PNASF and discussed activities of the VEGINET and PNASF. She took active participation in ICH-2009.



Dr. Usha R. Palaniswamy with Dr. Prem Nath

## RESEARCH AND DEVELOPMENT SUPPORT

### PNASF/SUN/WD-SHG/2005: Promotion Of Rural Women Self Help Group Through Dairy Development Project

The activities of the project continued with significant progress and results. The summary of the report was published in the ICH-2009 Souvenir November 9, 2009.

### PNASF/MHPS/DES/2008-09/Biological Science and Nutrition Project

The nutrition project at Modern Higher Primary School, Geddalahalli was concluded and handed over to the school management for its continuance. The activity at Daffodils English School ended with the cropping season. The results were presented in the ICH-2009 Souvenir, November 9, 2009.

## INTERNATIONAL CO-OPERATION

### Vegetable Science International Network (VEGINET)

The activities of the VEGINET since its inception in November 2002 were presented in the article published in the ICH Souvenir during the International Conference on Horticulture (ICH-2009) held during November 9-12, 2009 in Bangalore, India. Further, the VEGINET was presented by Dr. Anupam Varma during the TCDC session of the ICH-2009 and also the draft constitution of the VEGINET was presented by Mr. Vinod K. Huria to the General Assembly which was approved unanimously with some amendments which have been incorporated.



VEGINET Executive Members

# INTERNATIONAL CO-OPERATION / SOCIAL COMMITMENT

As per the decision of the 2002 General Assembly where Nomination Committee was formed and convened by Dr. Prem Nath with the VEGINET Secretariat hosted by the PNASF during 2002-2009, the 2009 General Assembly met on November 11, 2009 and elected the first Executive Council of the VEGINET. The following candidates were nominated and elected and candidates accepted their assignments.



Dr. Prem Nath addressing members

## VEGINET Executive Council

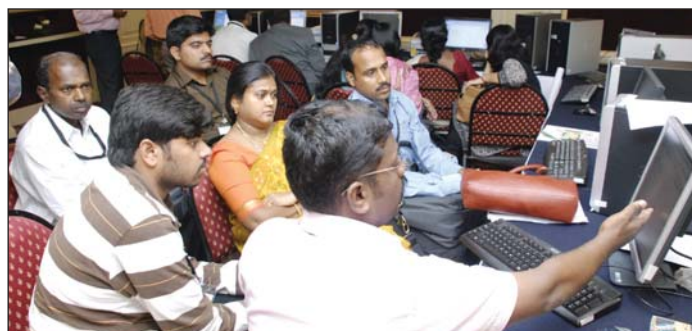
**Chairperson** -Dr. Prem Nath, Dr. P.N. Agricultural Science Foundation (PNASF), Bangalore INDIA; **Advisor FAO**-Ms. Alison Hodder, Senior Officer, Horticultural Crops Group, AGPC, FAO, Rome, Italy; **Regional Vice Chairpersons**-Dr. Ahmed T. Moustafa, Head and Regional Coordinator (APRP), ICARDA, United Arab Emirates; Prof. Michael Boehme, Humboldt University of Berlin, Germany; Prof. J.S.Dias, Technical University of Lisbon, Portugal; Dr. Ravza Mavlyanova, Coordinator for Central Asia and the Caucasus, AVRDC-The World Vegetable Center, Uzbekistan; Dr. Usha R. Palaniswami, Chair, Division of Natural Sciences and Mathematics, Excelsior College, Albany, New York; **Secretary General (HQ)**-Dr. Anupam Varma, INSA Senior Scientist, Indian Agricultural Research Institute, New Delhi, India; **Assistant Secretary General**-Dr. Aminuzzaman Talukder, Country Director for Cambodia and Regional Food Security Advisor, Asia-Pacific, Helen Keller International, Cambodia; **Treasurer(HQ)**-Dr. O.P.Dutta, Director, R&D, Namadhari Seeds Pvt. Ltd., Bangalore, India; **Members representing different regions**-Professor Acram Taji, Queensland University of Technology, Queensland, Australia; Dr. O. O. Fadina, Department of Crop Protection and Environmental Biology, University of Ibadan, Ibadan, Nigeria; Dr. Grisana Linwattana, Senior Research Scientist, Horticulture Research Institute, Bangkok, Thailand; Prof. Zetian Fu, China Agricultural University, Beijing, China; Ms. Yuniarti, Assessment Institute for Agricultural Technology (AIAT), Malang, Indonesia; Dr. San San Yi, Assistant Research Manager, Vegetable Research and Development Center, Yangon, Union of Myanmar.

## International Training Programme

### FAO and PNASF HORTIVAR Training Programme:

FAO jointly with the PNASF organized the HORTIVAR Training Programme for three days to the benefit of the participants of the ICH-2009 during November 9-12, 2009 at Bangalore. The Hortivar is a geo-referred database on performances of horticulture cultivars and platform for horticulture knowledge management and exchange globally.

The training course was undertaken under the supervision and guidance of Dr. Remi Nono-Womdim, AGPC, FAO, Rome. Dr. Remi



Hortivar Trainees under going training

gave orientation to selected trainers and the trainers in turn trained the registered trainees. About 100 scientists, professors, students and progressive farmers were trained.



Hortivar Coordinator and Trainers

# SOCIAL COMMITMENT

## AWARDS

### PNASF/IIHR/28/2006

The *PNASF IIHR Gold Medal Award 2008* for outstanding contribution in Horticulture by IIHR, Bangalore Scientist towards Food and Nutritional Security was presented during inaugural session of the International conference on Horticulture (ICH-2009) held on



Dr. T. Janakiram receiving the Gold Medal

# SOCIAL COMMITMENT

November 9, 2009 by H.E. the Governor of Karnataka, Shri H. R. Bhardwaj to Dr. T. Janakiram, former Principal Scientist at the Indian Institute of Horticultural Research (IIHR), Bangalore and presently with the Indian Agricultural Research Institute (IARI), New Delhi.

## **GOLD MEDAL PNASF/UAS/2001**

The PNASF Gold Medal 2008 was awarded to the Ph.D student Mr. Dhananjaya B. for highest grade point average at the University of Agricultural Sciences, Bangalore. The award was presented during the University's 43<sup>rd</sup> Convocation held on 20<sup>th</sup> June, 2009.

## **PNASF/DHARMSHEELA NATH SCHOLARSHIP/2006**

On the recommendation of the University of Agricultural Sciences (UAS), Bangalore, Ms. Shalmali Naik, a student of Junior M. Sc. (Agri) at UAS was awarded the PNASF/Dharmshela Nath Scholarship for the academic year 2008-09 and to assist the Project PNASF/MHPS/2005- Biological Science and Nutrition Project for School Children.

## **PNASF/AHUJA/FELLOWSHIP/2001**

On the recommendation of the University of Agricultural Sciences (UAS), Bangalore, Ms. Prema G., a student of Junior M. Sc. (Horti) at UAS was awarded the PNASF/Devki Devi Ahuja fellowship for the academic year 2008-09 to undertake research work leading to award of M.Sc.

## **Contribution to the PNASF**

The PNASF received a grant from Dr. Sundari Velu, USA, towards PNASF activities, which is gratefully acknowledged and appreciated by the PNASF Board of Trustees.

## **Contribution to the ICH-2009**

The major sponsors to the International Conference on Horticulture (ICH-2009) were Dr. Prem Nath Agricultural Science Foundation, Bangalore; Planning Commission, Government of India; National Horticulture Mission, Bangalore; Indian Council of Agricultural Research, New Delhi; Defense Research and Development Organization, New Delhi; National Bank of Agriculture and Rural Development, Mumbai; Vegetable Science International Network, Bangalore; Council of Scientific and Industrial Research, New Delhi; Indo-American Hybrid Seeds (India) Pvt. Ltd., Bangalore; Namadhari Seeds Pvt. Ltd., Bangalore; Health India Laboratory, Chennai; Bejo Sheetal Seed Pvt. Ltd., Jalna; Karnataka State Agricultural Produce Processing and Export Corporation Ltd., Bangalore; National Horticultural Research and Development Foundation, Nasik; and others. The Organizing Committee of the ICH-2009 places on record the useful contribution of these institutions and organizations.

## **PNASF Congratulates Chi. Sou. Roopa and Chi. Ajjaiiah**

In the series of social events which PNASF organizes from time to time for the benefit of staff and the expert members, contributors, and well wishers, one major event was the get-together arranged on

the occasion of the marriage of the Chi. Sou. Roopa daughter of Mr. P.B. Gaddagimath, with Chi. Ajjaiiah. The PNASF family congratulated the couple on their marriage. The get-together consisted of the dinner and a gift to the newly wed couple by the PNASF at the Lalit Ashok Hotel in the presence of about twenty members of PNASF family on 12<sup>th</sup> January, 2009.



Chi. Sow. Roopa and Chi. Ajjaiiah being greeted by PNASF.



Guests at the party

## **Get-Together Party**

On the grand success of the International Conference on Horticulture (ICH-2009) the PNASF organized a get-together for all the active members based in Bangalore, who were instrumental in managing the conference (ICH-2009). The Dr. Prem Nath, Chairman, PNASF, thanked profusely all members present from UAS, PNASF, IIHR and other organizations. The members rejoicing on the occasion, appreciated and complemented all others for their collective and



Guests at the get-together party



Guests during the dinner

harmonious efforts in making the event memorable one. The get-together consisted of the dinner at the Turf Club, Race Course Road, Bangalore participated by about eighty members on December, 2<sup>nd</sup> 2009.

## INFORMATION DISSEMINATION

### Book release

Along with the ICH Souvenir and ICH Abstract Book, a new book entitled "Foods and Nutrition" authored by Dr. K.G.Ahuja, Dr. Prem Nath and Dr. K.R.M. Swamy and published by PNASF and Studium Press, New Delhi was released by the Chief Guest on this occasion.

### ICH-News Letter

During the ICH-2009 three ICH News Letters on November 9, 10 and 11, 2009 were published and made available free to the participants. The ICH News highlighted the daily events and views of the conference.



ICH News team



### Publications

- K.G.Ahuja, Prem Nath, K.R.M. Swamy (2010) Foods and Nutrition. Edit: P.B.Gaddagimath, PNASF, Bangalore and Studium Press, New Delhi; pages 485.
- Prem Nath, Ms. Shyamla Nath, Bijoyendra Nath (2009); Dr. Prem Nath Agricultural Science Foundation (PNASF), Souvenir-International Conference on Horticulture (ICH-2009) November 9-12, 2009, Bangalore, India, pp 1-11.
- Prem Nath, (2009); Vegetable Science International Network (VEGINET), Souvenir-International Conference on Horticulture (ICH-2009) November 9-12, 2009, Bangalore, India, pp. 12-16.
- Prem Nath, Prabhakar B.S., Chandre Gowda M.J., Mukund Shirgur, Patil M.S., Shilpa Yatnatti, Latha S.V. (2009), Nutrition Awareness through School Children, Souvenir-International Conference on Horticulture (ICH-2009) November 9-12, 2009, Bangalore, India, pp 97-101.
- O.P.Dutta (2009); Promotion of Rural Women Self Help Group through Dairy Development Project (PNASF/SUN/WO-SHC/2005), in Souvenir-International Conference on Horticulture (ICH-2009) November 9-12, 2009, Bangalore, India, pp 102-103.
- Shilpa Yatnatti, H.B.Shivaleela, D.Vijayalakshmi, K.Geetha, H.S.Surendra, B.S. Prabhakar (2009)-Nutrition Garden by School Children and its Impact on Nutrition Knowledge and Food Preferences, Abstract Book-ICH-2009, November 9-12, 2009, Theme II-Institutional and Policy Support:Socio-Economic Domains, pp 430-431.
- Prem Nath, Anupam Varma, (2009); Vegetable Science International Network, Abstract Book-ICH-2009, November 9-12, 2009, pp 469.
- Anonymous (2009) International Conference on Horticulture (ICH-2009) announcement appeared in the Plant-Horti, Vol. 8, No.5, December-February 2009, pp 45.
- Prem Nath (2008); Improving Indian agriculture using new generation science, *Indian Agriculturist-Golden Jubilee Number 2008*, The Agriculture Society of India, Kolkata, pp 50-69.

### Thesis Submitted

- i. The following Ph.D. thesis submitted by PNASF Scholars were approved by the University of Agricultural Sciences (UAS), Bangalore
  - Breeding and development of molecular markers linked to bacterial blight (*Xanthomonas axonopodis* pv. *Dieffenbachia*) resistance in Anthodium (*Anthurium andreanu*, Lind.) by Patil Manjunath Sidlingappa
  - Characterization of chrysanthemum (*Dendranthema grand flora Tzvelev*) germplasm through morphological and molecular markers by Mukund Shiragur
- ii. The following M.Sc. thesis was submitted and approved by the University of Agricultural Sciences (UAS), Bangalore
  - Nutrition garden by school children ( 10-13 yrs) and its impact on nutrition knowledge and food preferences by Shilpa Yatnatti

# INFORMATION DISSEMINATION

## Publications of PNASF

### Publications on shelves

Description	India (In Rs.)	Foreign (In US \$)
* Book – Vegetable Crops : Improvement and Production (Pages :398 ) 2007	125.00 + Rs. 55.00 (postage)	25.00 including postage
* Book – Food Security and Vegetables- A Global Perspective (Pages : 437) 2004	250.00 including postage (PB) 300.00 including postage HB	50.00 including postage
* ICV-2002 Proceedings – CD (Pages:931) 2003	150.00 including postage	10.00 including postage
* VEGINET Booklet (Pages: 22) 2003	35.00 including postage	5.00 postage
* ICV-2002 Abstract Book- (Pages:445) 2002	150.00 including postage	35.00 including postage
ICH-2009 Abstract Book (Pages:487)	600.00 including postage	50.00 including postage
ICH-2009 Souvenir (Pages:142)	300.00 including postage	35.00 including postage
Book – Foods and Nutrition (Pages: 485) 2009	Copies available with Studium Press LLC, 4735/22, 2 <sup>nd</sup> Floor, Prakash Deep building, (Near PNB), Ansari Road, Darya Ganj, NEW DELHI-110 002.	

\* 15% discount given to PNASF and VEGINET members, professors, students and libraries.

### How to order?

Making online order to drpremnath@vsnl.net and by sending Bank Demand Draft or Cheque in favor of Dr. Prem Nath Agricultural

Science Foundation, A/C No.: 0417101037688 in Indian rupees and A/C No.:0417101039815 in US Dollars, payable at Canara Bank, Vyalikaval, Bangalore – 560 003, India.

### Plans on hand

While the ongoing activities will continue, the PNASF proposes to undertake new programmes and activities;

- ↪ Participation in conferences
- ↪ Awards/grants to university students and researchers to continue ;
- ↪ Collaborate with the national and international institutions/ associations in the area of food and nutrition security etc.;
- ↪ Publication of the Proceedings of the International Conference on Horticulture (ICH-2009) held during November 9-12, 2009.
- ↪ Publication of the PNASF News Letters.

## OPPORTUNITIES

### Awards/Scholarships

PNASF encourages universities/institutions to institute PNASF Medal Awards for outstanding post-graduate students/young scientists working on research problems augmenting food and nutrition security and invites them to support these activities through funds.

### Field Projects

PNASF invites societies/associations/NGOs interested in implementing small rural community projects on self help income generation augmenting food security, for any assistance.

### Publications

The PNASF publications are available on price with the Central Secretariat, PNASF, Bangalore, India.

### Contribution/Membership

Registration/membership/contribution either to PNASF or to VEGINET available at

Website: [www.pnasf.org](http://www.pnasf.org)

and by E-mail to

[drpremnath@vsnl.net](mailto:drpremnath@vsnl.net) or [pnasfoundation@gmail.com](mailto:pnasfoundation@gmail.com).

PNASF News is an official News Letter of Dr. Prem Nath Agricultural Science Foundation, Bangalore, India, published half yearly by Dr. Prem Nath on behalf of PNASF and Printed at Bangalore, India by Jwalamukhi Mudranalaya Pvt. Ltd. #44/1, K.R. Road, Basavanagudi, Bangalore – 560 004. Ph : 080 – 2660 1064

### Central Secretariat

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