

Chairman, PNASF Speaks



We may mitigate hunger with food security but the hunger for knowledge will continue and the generation and dissemination of technical knowledge are open ended.

Availability and application of modern agricultural technology remain the key issues in the profitable and sound farming system keeping the balance between adequate input and higher output and in maximizing the net returns. In this context, the conservation and appropriate utilization of natural resources balanced with availability and application of inputs play important role in increased agricultural production. In order to ensure higher production, the availability of both the technology and inputs need to be secured and neither of them alone could achieve the higher target of production.

With the advent of globalization in the background of significant variation and no level playing field among the developed and developing world, it is clear that the scenario of agriculture and food in production and trade is becoming complex in the new millennium.

It is realized that the world produces enough food for every human being on earth but there are about 815 million people who suffer from hunger and malnutrition. Likewise, it would not be incorrect to state that plenty of agricultural technology and knowledge on traditional farming practices are available in different parts of the world but are not accessible easily by all. The agriculture sector will be different if the dissemination of technical knowledge is made effective and productive. This seems possible if the national, regional and international organizations get linked together and the technical networking organizations like Vegetable Science International Network (VEGINET) get encouraged and strengthened in order to disseminate the technical knowledge among the farmers/organizations world wide.

In this context and in order to meet the ever increasing demand of exchange of technical knowledge among the millions of scientists and farmers across the globe, the technical cooperation among the countries seems to be the solution making globalization a reality.

It would be possible to produce fresh mangoes year round in India as done in Thailand. The technique of grafting of watermelon with bottle gourd in Japan could save millions of acres of melons from disease in India. The introduction of technology made Saudi Arabia self-sufficient in citrus and virus-free citrus plant production. The wild guava, mango and citrus of south Nigeria turned into edible ones with the transfer of technology and so on.. During my visit to one of the experiment stations in Asia, it was noted that the research work continued for developing a disease resistant tomato variety could not be concluded even in eight years while one of the research stations in Africa had already released the disease resistant variety five years ago; thus the time and resources could have been saved through timely transfer of technology.

Prem Nath
 (Prem Nath)

EVENTS

PNASF Participates in ASHS 2006

The annual conference of the American Society of Horticultural Science (ASHS) was held from 26th to 31st July, 2006 at New Orleans, USA. Hundreds of participants attended and about one hundred of them came from abroad. More than 500 abstracts both oral and poster were presented in the conference on various horticultural crops including fruit, vegetable, floriculture, medicinal and aromatic plants, herbs etc. Most of the papers presented covered the research and development work done in the United States. A few sessions were devoted to tropical and international horticulture. ASHS prepared 80 edited presentations (using Profcast) available to members.

The PNASF was represented by Dr. Prem Nath and Dr. Sundari Velu. Dr. Prem Nath presented the oral paper on 'Food and Nutrition Security and Horticulture' during the oral session 27 – Teaching Methods/Human Issues. It was one of some selected sessions which was televised live nationwide. Dr. Sundari Velu made the poster presentation on Cucurbitaceous crops in Asia during the Poster Session 2 – Vegetable Crops Management – Cropping Systems I.

The published abstracts of both papers are reproduced below;

Cucurbitaceous Crops in Asia

Dr. Prem Nath, PNASF, Bangalore
 Dr. Sundari Velu, PNASF, California
 Poster Session 2 – Vegetable Crops Management – Cropping Systems 1

HORTSCIENCE, VOL. 41 (4); 1016, July 27, 2006

Among the vegetables, the cucurbitaceous crops form one of the largest groups with its wide adaptation from arid to the humid tropics. In Asia, about 23 edible major and minor cucurbits are grown and consumed. Though the data on cucurbits alone are not easily available, the production of watermelon was reported to be 69.7 million ton in Asia, 9.0 million ton in Near East, 2.7 million ton in North and Central America and 2.4 million ton in Latin America and Caribbean (2003). Cucurbits demonstrate wide adaptability making the crops to grow in the varied agro-climatic conditions. Among food crops, cucurbits are the largest producer of biological water and easily digestible. The cucurbits contain 80 – 95% water but also contain nutritive elements such as



Dr. Prem Nath and Dr. Sundari Velu in ASHS Conference

EVENTS/RESEARCH AND DEVELOPMENT SUPPORT



Dr. Sundari Velu makes poster presentation at ASHS Conference

carbohydrate, protein, vitamin A and C, calcium, lycopene, phosphorus, potassium and other properties, besides its medicinal values. They are common crops in the rural, urban and peri-urban areas accessible to both rich and poor. Even with the gradual increase in production and consumption, the

production of cucurbits is plagued by occurrence of diseases and insect pests, inadequate availability of quality seeds, lack of maintenance of genetic varieties and of naturally occurring biodiversities, lack of knowledge on the international standard of quality production and post harvest handling. The thrust areas of development as identified are harnessing new sciences, diversification in cropping pattern, utilization of available genetic diversities, reversal of post harvest losses and value addition in food products. Cucurbits hold promise as supplementary food for the common masses.

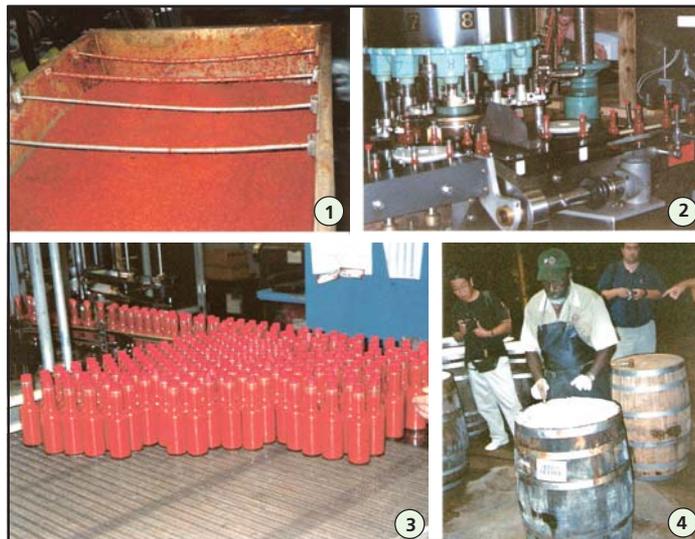
Food and Nutrition Security and Horticulture

Dr. Prem Nath, PNASF, Bangalore
 Oral Session 27 – Teaching Methods/Human Issues
 HORTSCIENCE, VOL. 41 (4); 1003, July 27, 2006

The world produces adequate food for everyone, but unequal distribution has created a gap between the countries that produce food more than they consume and those countries with deficit production. About 815 million people suffer from hunger and malnutrition, mostly in the developing world. By 2020, the developing world is expected to face the overwhelming challenge of 97.5% increase of population; moreover, developing countries will face serious challenges with the trend of a major shift in population from rural to urban areas, where 52% of the people will live in megacities –all asking for more food, land and infrastructure. According to World Health Organization an estimated 334 million children in developing countries are malnourished. In 2020, one out of every four children in these countries will still be malnourished. It is recognized that modern agriculture must diversify production and achieve sustainable higher output to supplement food security. In order to release the pressure on cereals as well as to improve the human nutrition through consumption of other nutritious crops, diversification in cropping patterns can provide better options. The increased production and consumption of fruits and vegetables with their wide adaptation and providers of important nutrients (especially vitamins and minerals), offer promise for the future. Fruits and vegetables as food and diet supplements are gaining momentum in most countries. In addition, recent experimental evidences has shown the growing importance of fruits and vegetables in the prevention of non-communicable diseases. Further, horticulture would play an important role in urban and peri-urban agriculture and development.



ASHS Participants visit pepper field in Avery Island - home of Tabasco



TABASCO Pepper Sauce Factory in Avery Island near New Orleans

Dr. Prem Nath, Chairman, PNASF Visits The Union Minister of State for Planning, Govt. of India.

Dr. Prem Nath, Chairman, PNASF called upon the Union Minister of State for Planning, Honorable Shri. M.V. Rajasekharan, in his office in New Delhi on 5th December, 2006. Dr. Nath explained to the Honorable Minister regarding the recent activities of the PNASF which highlighted the measures undertaken to promote food and nutrition security among the needy communities and apprised the Minister of the progress made by the PNASF Biological Science and Nutrition Project devoted to create awareness, education and hand-on practices on vegetable growing and nutrition among the urban school children of the poor communities. The Honorable Minister, who had kindly inaugurated the launching of the project in Bangalore sometime ago, was appreciative of the excellent progress made and extended all encouragements and support to the success of the programme geared towards uplifting the knowledge on biological science and nutrition among the school children and promoting the cause of nutrition security among poor urban communities.



Hon. Shri M.V. Rajasekharan meets Dr. Prem Nath in Yojana Bhavan, New Delhi

RESEARCH AND DEVELOPMENT SUPPORT

PNASF/SUN/WD-SHG/2005 – Promotion of Rural Women Self Help Group through Dairy Development Project.

The activities continued under the project – PNASF/SUN/WD-SHG/2005 – Promotion of Rural Women Self Help Group through Dairy Development Project.

During the period July – December, 2006, Technical Advisory Council of the PNASF met on number of occasions and discussed,

RESEARCH AND DEVELOPMENT SUPPORT/INTERNATIONAL CO-OPERATION

formulated and finalized the project document including the activity chart and plan of project work, which will commence during early 2007 and also the legal documents i.e. MOU among PNASF, NFPL and SHG, bond between PNASF and SHG, Self Help Group guidelines.

On the other hand, at the project site 10 beneficiaries have been selected based upon their economic status (Below Poverty Line), moral character and sincerity by the NFPL as the monitoring agency and the PNASF which is funding and implementing agency of this project. Beneficiaries have identified and selected the cows with calf of proven pedigree good health to start the project activities. A veterinary doctor, a dairy specialist and a bacteriologist for technical guidance have also been identified by the PNASF.

Before starting the field activities, a plan of visit to the project site at I D. Halli and meeting with all partners including Chairman and MD of Namdhari Fresh Pvt. Ltd., beneficiaries, and cooperative society and possibly village surpunch is envisaged.

PNASF/MHPS/2005-Biological Science and Nutrition Project

The activities continued under the project – Biological Science and Nutrition for the school children during the period of June-September, 2006. The terrace of the school building was used to grow plants in pots. The standard mixture of red earth + sand +



Students with vegetable seedlings



Students working with plants

cattle manure (1:1:1) was used as growing media in earthen pots. Seedlings of bottle gourd, ridge gourd, brinjal, chilli, cauliflower, cabbage, okra, beans, radish were grown in pro-trays and transplanted to pots.

The students observed the changes in growth of different vegetables, pests and diseases attacking the plants and interacted with the scientists attending the training programme.

As the plants started yielding vegetables the students were asked to harvest the vegetables from each pot and weigh the produce. They were delighted to do the job and evinced interest to repeat the experiment with larger participation in the next semester.

The first season crop served the objective of introducing the vegetable plants and basic skills of growing in pots to the students. Students were also taught on the nutrient contents of these plants

and on the subject of human nutrition. The interest shown by the students was noteworthy and they were eager to participate with more number of students and containers in the ensuing semester.

Prior to taking up the project/experiment on growing of vegetable plants, the pretest was conducted with 104 children and three school teachers by administering a questionnaire. The questionnaire was developed by keeping the project objectives in view and was administered to students and teachers by the Evaluation Expert of the project. Altogether, three lady teachers, 44 girl students, 60 boys were administered the test. The questionnaire had two parts namely, i) Individual variables and ii) The content variables. The individual variable dealt with general information containing personal and family details of the respondents, where as the content variable dealt with (a) Knowledge about vegetables and their nutrition, and (b) Vegetable consumption pattern and awareness about clean kitchen.

The pretest was first of the time-series data collected from various categories of respondents. The experimental design involves students (treatment & control group, with before and after testing) teachers (before and after testing) and parents (before and after testing). The pretest results are being used to modify the technical contents of the educational activities of the project and refine the experimental details for repetitions during the next semester.



The pretest undertaken by Students and Teachers at the GMHP School, Geddalhalli, Bangalore

INTERNATIONAL CO-OPERATION

The Global Horticulture Initiative

Background

Advances in biological sciences and information and communication technologies (ICT) provide unprecedented opportunities to the scientific community to take collective action for impact on poverty and malnutrition. The Global Horticulture Initiative will utilize these advances to enlist a consortium of national and international organizations, institutions, and agencies working towards the common goal of improving global health and prosperity through horticultural technologies and research for development programs.

Globalization, trade liberalization and changes in consumer demand are creating new market opportunities for farmers and landless laborers especially through horticultural systems in the tropics and subtropics. Many cereal farmers are already converting a portion of their land into production of high value horticultural crops. A strong horticulture sector is an engine for economic growth-it creates jobs, supports agri-businesses, and generates income to a greater degree than staple crops. Furthermore, horticultural crops can provide the micronutrients that are essential, yet lacking in the diets of half of the world's population.

Mission

The mission of the Global Horticulture Initiative is to improve

INTERNATIONAL CO-OPERATION

the health and income of the poor in developing countries through sustainable, demand driven, horticultural production, processing and marketing systems. The Global Horticulture Initiative will develop output-oriented research and development projects and expand outreach activities through broad-based partnerships. Information and communication technologies will substitute for much of the conventional physical infrastructure of a more traditional institutional model. The Global Horticulture Initiative will energize global systems of horticultural research, production, processing and trade. It will also enable the formulation of policies and programs that support small-scale farmers and horticultural commerce both domestically and internationally.

Crops

Priority crops include Alliaceous and Solanaceous vegetables, legumes, cucurbits, tropical and subtropical tree fruits, and indigenous horticultural crops. Activities will focus on Sub-Saharan Africa and South Asia, with secondary emphasis in Central Asia, Southeast Asia, and Latin America. Research themes include information management and dissemination; germplasm conservation and evaluation; genetic improvement; sustainable production technologies; post harvest storage, processing and marketing; and impact analysis and policy planning.

Output and Investment

Outputs from the Global Horticulture Initiative will increase economic opportunities and improve nutritional security (especially for women and children), increase production and consumption of fruits and vegetables, reduce malnutrition and childhood mortality, and enhance environmental quality and human health. Human capacity building, institutional development, and networking are included in all the outputs. To significantly contribute to the goal of alleviating poverty and malnutrition, considerable investment in horticulture is required. The Global Horticulture Initiative seeks funds and granted positions for base funding over a 5-year period to promote and focus horticulture use and activities. The consortium will provide a coordinated approach to efficiently utilize funding, share expertise and advance horticultural technologies and programs. An investment of US\$50 million per year will bring horticulture in line with the funding of cereal crops and ensure significant measurable impacts are achieved, that contribute to all eight Millennium Development Goals.

Launching

The GlobalHort was launched during 22-24, March, 2006 at Agropolis, Montpellier in France by the interested partners and collaborators such as AVRDC, CIRAD and ISHS.

(Abstracted from the GlobalHort Booklet, 12th November, 2006, New Delhi.)

First General Assembly

The first General Assembly of the GlobalHort was held on 12th November, 2006 at Nikko Metropolitan Hotel in New Delhi. About 30 members from various institutions of horticulture sector spread over the globe attended the meeting. The assembly discussed the vision, mission, objectives, beneficiaries, organizational structures, research areas and themes and expected output of the GlobalHort.

VEGINET and ICV-2007

The VEGINET was invited to the first General Assembly and was represented by Dr. Prem Nath, Convener who presented the Vegetable Science International Network (VEGINET) as approved by the first International Conference of Vegetables (ICV-2002) organized by Dr. Prem Nath Agricultural Science Foundation (PNASF), Bangalore and its collaborators during 11-14 November, 2002 in Bangalore. It was recognized that the mission, objectives and activities of VEGINET as approved by the ICV-2002 was close to that of GlobalHort presented. The members appreciated the initiative of the VEGINET and both GlobalHort and VEGINET agreed to compliment and supplement their activities as envisaged in their frame work. The Global Hort announced their



GlobalHort-Global Interim Executive Committee Dr. Thomas Lumpkin (AVRDC-Chairman), Dr. Norman Looney (ISHS), Dr. William Dar (CGIAR), Ms. Boitshepo Giyose (NEPAD), Mr. Gilles Saint-Martin (CIRAD), Pr. Herath Gunasena (APAARI), and Dr. Remi Kahane (CIRAD-Secretary) during 1st General Assembly on 12th November 2006, New Delhi.

participation and support to the VEGINET in organizing the upcoming second International Conference on Vegetables (ICV-2007) scheduled to be held at Fortaleza in Brazil.

PNASF International Research Fellow Visits

Dr. Usha Palaniswamy of the University of Connecticut, Storrs, USA visited PNASF and VEGINET during 21st December – 13th January, 2007 in relation to her project entitled 'International Farming Systems: Sustainable Farming and Natural Resources Management Practices in the Developing World. The project is funded by USDA-CSREES for the benefit of university students in the USA. The PNASF appreciates this support in enhancing the educational collaboration with the institutions in the Asian countries including India

Apart from the discussion at the PNASF and VEGINET arrangements were made for her to visit collaborating institutions like University of Agricultural Sciences (UAS), Agriculture, Man and Ecology (AME) Foundation, Ashok Trust for Research in Ecology and the Environment (ATREE), Green Foundation, Namdhari Seeds Pvt. Ltd., Indian Institute of Horticultural Research (IIHR), Institute for Social and Economic Changes (ISEC), Department of Horticulture, Government of Karnataka, and Central Food Technological Research Institute (CFTRI), Mysore.

The visit and discussion enriched her with the farming systems being practiced by farmers and developed by different institutions in selected areas of Karnataka. The PNASF will support the activities of the said project.

As a life-member of the VEGINET, Dr. Usha intends to support its activities and will encourage fellow scientist/professors in the USA to participate in its networking and particularly in the upcoming International Conference on Vegetables (ICV-2007) at Fortaleza, Brazil during 10-13 September, 2007. With the assistance of possible grants, Dr. Usha also plans to facilitate the participation of some selected Indian farmers to this International Conference in Brazil.



Dr. Usha Palaniswamy makes discussion with Dr. Prem Nath at the PNASF Office

INTERNATIONAL CO-OPERATION/SOCIAL COMMITMENT/ INFORMATION DISSEMINATION

The expressions of Dr. Usha Palaniswamy as reflected in the visitors book of PNASF is reproduced below ;

It was a pleasure to visit PNASF as a Research Fellow and get acquainted with the function of PNASF and its units and collaborators. PNASF is very well organized and effective in its role as a community agent for positive change.

I hope to be able to collaborate with PNASF in the future.

With best wishes,

Sd
Usha Palaniswamy

Second International Conference on Vegetables (ICV-2007)

On the recommendation of the host institutions – Municipality of Fortaleza and EMBRAPA in Brazil and organizing committee supported by member organizers, Food and Agriculture Organization of the United Nations (FAO), Rome, Vegetable Science International Network (VEGINET), Bangalore and World Health Organization (WHO), Geneva, it has been agreed to **postpone** the scheduled date of the International Conference on Vegetables (ICV-2007) from September 10-13, 2007 to early 2008. The details of the conference will be made available in the second Announcement to be published shortly. Inconvenience caused to all interested in the conference is deeply regretted.

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SOCIAL COMMITMENT

SCHOLARSHIP/GRANT/MEDAL PNASF/AHUJA/2001

The PNASF Fellowship – ‘Deviki Devi Ahuja Award’ was granted to the Ph.D. student Mr. Manjunath S.Patil (Floriculture), University of Agricultural Sciences, Bangalore for his research work on ‘Breeding and development of molecular markers linked to bacterial blight resistance in anthurium’ for a period three years (from 2005 – 06 to 2007-08)

PNASF/Dharmasheela/2005

The ‘PNASF- Dharmasheela Nath Scholarship’ to the post graduation of women in agriculture and food was granted to Ms. H.S. Mamatha, Department of Food Science and Nutrition, University of Agricultural Sciences, GKVK, Bangalore.

INFORMATION DISSEMINATION

PUBLICATIONS

The abstract paper entitled ‘Food and Nutrition Security and Horticulture’ by Dr. Prem Nath published in the HORTSCIENCE, USA, July 2006 Vol 41(4) Page 1003.

The abstract poster paper entitled ‘Cucurbitaceous Crops in Asia’ by Dr. Prem Nath and Dr. Sundari Velu published in the HORTSCIENCE, USA, July 2006 Vol 41 (4) Page 1016.

SEMINARS

- ★ Dr. Prem Nath, Chairman, PNASF delivered a lead paper on ‘Food and Nutrition Security and Horticulture’ in the ASHS 2006 conference, July 26 – July 31, 2006, New Orleans, USA.
- ★ Dr. Prem Nath and Dr. Sundari Velu, PNASF made a poster presentation on ‘Cucurbitaceous Crops in Asia’ in the ASHS 2006 conference, July 26 – July 31, 2006, New Orleans, USA.

MEETINGS

- ★ During the month of July, August and September, 2006 the Chairman, PNASF held meetings with the Trustees Dr. Bijoyendra Nath, Minneapolis, USA and members of the Technical Advisory Council, Dr. Sundari Velu, California, USA and member Dr. R.K.N. Singh, Toronto, Canada visiting PNASF in Bangalore.
- ★ Board of Trustees meeting was held on 24th October, 2006 at the PNASF, Bangalore. The progress was reviewed and the achievements noted. The meeting approved of the expansion of the activities and resource mobilization. The post of a Technical officer in the core staff was approved.

PNASF VISITORS

During the period under report, PNASF held meetings with some faculty/head of different organizations, to discuss various issues on agriculture and its allied subjects.

The expression of the visitors as reflected in the visitor’s book of PNASF is reproduced below ;

Ms. Saba Ishaq, IWMI-India, C/o ICRISAT, Hyderabad

My extreme pleasure meeting Dr. Prem Nath and to learn his contribution to ensure food security in the society through innovative means. Looking forward to fulfill association.

Dr. K.V.S. Prasad, Central Programme Officer, AME Foundation, Bangalore

I am extremely grateful to Dr. Prem Nath for sparing time to share his wisdom. I feel highly rejuvenated hearing visionaries like him and Dr. Dwarakinath who are committed to shape the future of our generation.

Mr. C. Basavaiah, Managing Director, Karnataka Compost Development Corporation (KCDC), Bangalore

I am really happy to know that Dr. Prem Nath is involving himself and through his foundation for the cause of development of Bio-Science and Nutrition. My support and cooperation are assured for the success of the same. I wish all the best.

Dr. B.B. Vashistha, Director, National Research Centre for Seed Spices (NRCSS), Ajmer

I am fortunate to meet Dr. Nath and discuss issues on seed spices. His foundation will go a long way in generating knowledge for agriculture industry as a whole and vegetable crops in particular. I look forward for the kind advise on seed spices.

Dr. R.K.N. Singh, Toronto, Canada

A member of the TAC, Dr. Singh visited PNASF during September, 2006 and expressed his appreciation on the activities undertaken on food and nutrition security. He committed his support and participation in the upcoming ICV-2007 in Brazil.

INFORMATION DISSEMINATION

Publications on shelves

Description	India (In Rs.)	Foreign (In US \$)
Book – Food Security and Vegetables- A Global Perspective (Pages:437) 2004	200.00 + postage extra - PB type	25.00 including postage for both PB and HB type
ICV-2002 Proceedings – CD (Pages:931) 2003	250.00+ postage extra – HB type	
ICV-2002 Abstract Book- (Pages:445) 2002	100.00 including inland postage	10.00 including foreign postage
VEGINET Booklet (Pages: 22) 2003	Postage only	Postage only
ICV-2002 Souvenir (Pages:124) 2002	300.00 including inland postage	25.00 including foreign postage
PNASF NEWS Volume I, 4 issues	Free of charge	Free of charge

- 30% discount given to PNASF and VEGINET members, professors, students and libraries.

How to order?

Making online order to pnasf@vsnl.net and sending Bank Demand Draft or Cheque in favour of Dr. Prem Nath Agricultural Science Foundation, A/C No.: 37688, payable at Canara Bank, Vyalikaval, Bangalore – 560 003, India.

Publication in press

Vegetables-Production and Utilization published by Dr. Prem Nath Agricultural Science Foundation (PNASF), Bangalore, India. (450 +xvi pages)

Plans on hand

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

- Participation in conferences
 - o Assist in the preparation of the Second International Conference on Vegetables (ICV-2007) scheduled September 10-13, 2007 in Fortaleza, Brazil.
 - o Host the VEGINET Secretariat
 - o Participate in upcoming national and international 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.,
- Release of the new book entitled 'Vegetables – Production and Utilization'
- VEGINET-USA Chapter to be initiated

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.

PNASF News is an official House Journal Letter of Dr. Prem Nath Agricultural Science Foundation, Bangalore, India, published



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E-mail : jwalmuki@vsnl.net ;

Website : www.jwalamukhijobpress.com

Publications

The PNASF publications are available on price with the Central Secretariat, PNASF. Both perfect bound and hardbound copies of website www.pnasf.org

Contribution/Membership

Registration/membership/contribution either to PNASF or to VEGINET or to both may be obtained by completing the attached form and by paying the requisite fee.

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REGISTRATION FORM

VEGETABLE SCIENCE INTERNATIONAL NETWORK

(VEGINET)

REGISTRATION FORM

Please return this form to,

Convener,
Vegetable Science International Network (VEGINET),
9, 1st Cross, 1st Main, 1st Block,
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Area of Interest:

Student projects and training opportunities

as a post-graduate.

as an employee

Research programme

Small field projects

Institutional partnership / collaboration

Educational or research conferences, workshops, expert consultations etc.

Technical publications

Others, Specify

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- Subsidy in participation in workshops, seminars, conferences.

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USD 100/- or more.

Life Long : Rs. 1,000/- or more
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