

*First Announcement*

Golden Jubilee Year of  
Pulses Research in India

**PulSym2017**

**National Symposium on**

**Pulses for Nutritional Security and  
Agricultural Sustainability**

**at  
ICAR-IIPR, Kanpur**

**December 2-4, 2017**



*Organized by*

**Indian Society of Pulses Research and Development  
and  
ICAR-Indian Institute of Pulses Research**

*In collaboration with*

**Indian Council of Agricultural Research**

## Background

Agricultural productivity improvements have often been viewed as the foundation to economic prosperity and social development. Starting from Green Revolution era during 1960's there has been quantum jump in cereals production (wheat and rice) grown especially under high input of mineral fertilizers and irrigation water. This of course in turn marginalized production of other crops especially the pulses. In post green revolution in India too, rice and wheat replaced a variety of existing crops which resulted in loss of wide array of land races and cultivars offering a wide spectrum of genetic diversity. Although high yielding cereals and other staples have produced adequate calories to ward off starvation of much of the world over several decades, yet deficiencies in certain amino acids, minerals, vitamins and fatty acids in staple crops and animal diets derived from them, have aggravated the problem of malnutrition and increased incidence of certain chronic diseases known to be non-existing before.

In this context, the ability of pulses to thrive and adapt better than other crops under harsh climate and fragile ecosystems make them potential candidate for both diversification and intensification of cropping systems. Sustainable agriculture oriented market economy also demands for inclusion of pulses in cereal based cropping systems for boosting up soil fertility, crop productivity and sustainability, and above all **doubling farm income** from the system. Moreover, cereal based cropping systems have led to the depletion of soil fertility, nutrient deficiency, loss of organic matter, built up of diseases and insect pests and weeds. In addition, economic feasibility of the cereal based cropping systems is becoming difficult due to fall in total factor productivity coupled with second generation problem, like declining ground water table and salinity or alkalinity problems. Therefore, inclusion of diversity through pulses is the need of the hour. Pulses because of their inherent ability to fix atmospheric N, nutrient accumulation through leaf fall, cropping system rotational effects and above all, nutritional superiority are being popularized and promoted in intensive cropping systems and for system diversification in agriculture. Truly, these are super crops so far their potential in both sustainable agriculture, and food and nutritional security are concerned.

Furthermore, in the presence of irregular yet implicit climatic change and uncertain seasonal patterns, meeting of food and nutritional requirement poses a great challenge and pressure on our natural resource in the time to come. Pulses have been in focus in recent years due to relatively instability in production, mis-match in demand *vis-a-vis* stock and more due to upswing in their market prices. India is at the strategic juncture as it happens to be the largest producer

(produces 25% of the global production) and consumer of pulses (consumes 27% of the world consumption and also the highest importer). India's population is expected to touch 1.68 billion by 2030 and pulses requirement for the year 2030 is projected at 32 million tonnes with anticipated required annual growth rate of 4.25 per cent. Despite all these, with existing resources and infrastructures, achieving a record production of pulses to the tune of **22.95 million tonnes during 2016-17** is one step further in realizing **self-sufficiency in pulses sector**. However, a lot to be done and needed to be done so as to make our country agriculturally sustainable and nutritionally secure. Then only we can dedicate our 75<sup>th</sup> Anniversary of Independence (2022) to *We will do and we'll make sure we do it*," as quoted by Mr. Narendra Modi Ji, hon'ble Prime Minister of India (*Man Ki Baat, Sunday, August 27, 2017*).

Keeping the above facts in view, the Indian Society of Pulse Research and Development (ISPRD) in association with ICAR-Indian Institute of Pulses Research, Kanpur under the patronage of Indian Council of Agricultural Research, New Delhi has planned to organize the National Symposium on "Pulses for Nutritional Security and Agricultural Sustainability" during December 2-4, 2017, at ICAR-Indian Institute of Pulses Research, Kanpur. The symposium will prove an exceptional opportunity to researchers, policy makers and executives, extension workers, traders and entrepreneurs to discuss various strategies for nutritional security and environmental sustainability through pulse crops and finalize a consensus road map for scaling productivity and profitability in next 3-5 years.

The symposium will address long-term sustainability of global agricultural production system through diversification of cropping systems with pulses as an ecofriendly approach, massive germplasm exploration to inherit novel genes for crop improvement in term of widening the production base, enhancing the quality, insulation against major biotic and abiotic stresses, developing resilient legumes against unpredictable threats as projected by climatic change, scaling farm mechanization, post-harvest management and value addition. The symposium also envisages to address the critical gaps in understanding the production constraints, issues of eradication of protein malnutrition for food deprived people, application of modern genetic tools and biotechnological innovations for pulses improvement and in-depth insight for underline principles of adaptation of pulses to diverse climatic conditions. Policy issue, public-private partnership, information technologies and social networking including the need for critical support systems will be addressed in the symposium through discrete and unique theme areas.

The symposium will comprise of structured technical sessions with key note lectures by distinguished scientists of respective thematic areas along with other oral and poster presentations. The technical session will also include a number of parallel sessions. Poster exhibition will also be arranged on major themes. There will be a provision for the Best Poster Award on each major theme. The organizing committee will make all out efforts to make this symposium a memorable event.

## **Themes**

### **Recent Trends**

- Production and Consumption
- Trade, Marketing and Policy Issues

### **Genetic Enhancement**

- Pre-breeding
- Restructuring Plant Types
- Genomics Enabled Improvement and Transgenics
- Seed Production and its Quality

### **Production Management**

- Cropping System Intensification and Diversification
- Resource Conservation and Input Use Efficiency
- Soil Health
- Climate Smart Agriculture and Resilience
- Farm Mechanization

### **Secondary Agriculture Initiatives**

- Nutrition and Health
- Biofortification
- Processing and Value Addition

### **Biotic stress Management**

- Modelling and Forecasting
- Host Plant Resistance
- Diagnostics and Epidemiology
- Eco-friendly Approaches for Pest Management

### **Participatory Technology Development and Adoption**

- Public-Private Partnership
- Technology Assessment, Refinement and Dissemination
- Socio-Economic Issues

## **Date and Venue**

The Symposium will be held at **ICAR-Indian Institute of Pulses Research, Kanpur** during **December 2-4, 2017**. Kanpur is the industrial city of the state

Uttar Pradesh, India. It is approximately 425 kilometers away from New Delhi and is connected by road, rail and airways. There is number of flights directly from New Delhi to Lucknow (Amausi Airport), the nearest airport to Kanpur. One can reach Kanpur by taxi/bus/train since the distance between the cities is only 75-80 km. At the time of the Symposium the climate in Kanpur will be cool and pleasant with clear skies and plenty of sunshine. Moderate winter clothing are required. The day temperature ranges from 10-20°C.

### Call of Papers/Abstracts

The participants of the conference are invited to contribute abstracts of the papers for oral or poster presentation on all the pulses including arid legumes and forage legumes. Abstracts not exceeding 300 words should be submitted on A4 size paper in MS Word and/or mailed electronically at [pulsym2017@gmail.com](mailto:pulsym2017@gmail.com). The title of the abstract should be in bold font followed by the name(s) of author(s) and affiliation. The Abstracts will be published pre-conference.

### Schedule and Important Deadlines

Submission of Abstract	October 25, 2017
Notification of Acceptance	November 06, 2017
Submission of Full Paper	November 20, 2017
Conference dates	December 02-04, 2017

### Registration Fee

Schedule	Members		Non-member		Student	
	Indian & SAARC	Foreign	Indian & S AARC	Foreign	Indian & SAARC	Foreign
Early bird (on or before Nov 06, 2017)	INR 4000	US \$300	INR 5000	US \$ 350	INR 3000	US \$ 200
Late birds and Spot Registration (Nov 07 to Dec.04, 2017)	INR 5000	US \$ 450	INR 6000	US \$ 500	INR 4000	US \$ 250

**Registration Fee for Corporate Members = INR 8,000**

(\*Research Fellows and Research Associates will also be included in Students' category)

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## Organizing Secretary

PK Katiyar, Secretary, ISPRD

### *Symposium Secretariat*

Please mail all correspondence and direct any general enquiries to:

**Organizing Secretary (PulSym 2017)**

ICAR- Indian Institute of Pulses Research, Kanpur 208024 UP, India

Tel: 0512-2580994, 2580995, 2580986

M: +91 9005688164; Fax: 0512-2580992

E-mail: pulsym2017@gmail.com; secretary.isprd@gmail.com

For further information's please visit:

<http://www.iipr.res.in>; <http://www.isprd.in>