

# International Soybean Processing and Utilization Conference-V (ISPUC-V 2008)

December 10-14, 2008



**Soybean Processing and Utilization Centre**  
**Central Institute of Agricultural Engineering**  
Bhopal - 462 038, Madhya Pradesh, India

## Contents

|     |                                       |   |
|-----|---------------------------------------|---|
| 1.  | Background                            | 1 |
| 2.  | Theme                                 | 1 |
| 3.  | Conference Content                    | 2 |
| 4.  | Conference Sponsorship                | 2 |
| 5.  | Official Language                     | 3 |
| 6.  | Important Deadlines                   | 3 |
| 7.  | Registration Fee                      | 3 |
| 8.  | Submission of Abstract                | 3 |
| 9.  | Technical Visit                       | 4 |
| 10. | Conference Proceedings                | 4 |
| 11. | Souvenir                              | 4 |
|     | 11.1 Advertisement charges            | 4 |
| 12. | Exhibition                            | 4 |
|     | 12.1 Stall Charges                    | 5 |
|     | 12.2 Stall Booking                    | 5 |
| 13. | Accommodation                         | 5 |
| 14. | Mode of Payment                       | 5 |
| 15. | Technical Programme and Time Schedule | 5 |
| 16. | Continuing Committee of ISPUC-V       | 6 |
| 17. | The Venue                             | 7 |
|     | 17.1 About Venue                      | 7 |
|     | 17.2 About Bhopal                     | 7 |
| 18. | How to reach Bhopal                   | 8 |
| 19. | Climate                               | 8 |
| 20. | Other Information                     | 8 |
|     | Annexures I-IV                        |   |

## 1. Background

The soybean and its products have traditionally played an important role in the dietary habits in Southeast Asian countries. During early 1900s, soybean was grown as a subsistence food crop in Southeast Asia. Now it has spread all over the world. The present production of soybean in the world is about 225 million tonnes (Mt). The five major soybean producing countries in the world are USA, Brazil, Argentina, China and India. India contributes about 4.0 per cent of total world soybean production and it stands at 5<sup>th</sup> position.

Production and productivity of soybean is increasing year by year in India and now it is about 9.5 Mt from 8.8 Mha. It is projected that by 2020 soybean production in India would be about 20 Mt from 12 Mha crop area. However, this expansion in soybean would depend on its domestic utilization for food, feed and industrial applications. With millions of people across the globe either undernourished or in poor health, soybean production and processing has become increasingly important.

At the Global level, direct food uses of soybean is increasing owing to nutrition, health and economic benefits. It is expected that in the years to come, decentralized small scale soybean food processing units will play a great role in promotion and utilization of soy based nutritious, healthful and economically affordable foods by majority of the world population resulting in reduction of risk of a variety of chronic diseases including cancer, heart disease and osteoporosis. Acceptance of soy foods is increasing the world over as more people learn about their nutritional and health attributes.

The International Soybean Processing and Utilization Conference (ISPUC) has been a platform for all the Soybean researchers' world over to share their research output and decide the future course of action. So far, four ISPUCs have been organized :

|            |                             |                             |
|------------|-----------------------------|-----------------------------|
| ISPUC -I   | Gonzhuling & Beijing, China | June 26 - July 2, 1991      |
| ISPUC- II  | Bangkok, Thailand           | January 8-13, 1996          |
| ISPUC- III | Tsukuba, Japan              | October 15-20, 2000         |
| ISPUC- IV  | Foz do Iguassu, Brazil      | February 29 - March 5, 2004 |

Now, the ISPUC-V is being organized at **Soybean Processing & Utilization Centre (SPU)**, Central Institute of Agricultural Engineering (CIAE), Bhopal, India during **December 10-14, 2008.**

## 2. Theme

The theme of the Bhopal conference is **Soybean for Human Health and Happiness**. The ISPUC-V will focus on the emerging technologies in soybean processing and utilization as food for nutritional enhancement and health promotion. Also, it will promote sharing / exchange of scientific and technical information on all aspects of research and development of soybean processing and utilization.

### 3. Conference Content

The conference will have Inaugural, Technical, Plenary and a Valedictory Sessions. Technical sessions will include/ cover oral as well as poster presentations. The conference will be of special interest to teachers, research workers, students, progressive farmers, professionals of Food Science and Technology; Home Science; Engineers in public and private sectors; designers; managers; processors and processing equipment manufacturers. The special focus will be on soybean processing for nutritional and health benefits. Broad areas identified for the conference are as follows:

- 3.1. Production for Processing and Utilization  
(Varietal variability of soybean for specific end uses)
- 3.2. Quality Control  
(Post harvest management of soybean for processing)
- 3.3. Nutrition and Physiological Functionality  
(Role of soybean as nutritional, therapeutic and functional food)
- 3.4. Traditional Foods  
(Technology for soy based traditional oriental foods)
- 3.5. Modern Processing for Value Added Diversified Soy Food Products  
(Processing soybean using chemical, physical, and biological methods)
- 3.6. Oil and Soy-meal  
(New processing technologies for soy-oil and soy-meal)
- 3.7. Innovative/ New Industrial Uses  
(Industrial uses of soybean and by-products)
- 3.8. Strategies for Dissemination of Technology  
(Policy to enhance soybean utilization and marketing strategy)

An exhibition of soy products and processing equipment, technical tour of soy industry for delegates, and a separate programme (in and around Bhopal) for the accompanying spouses of the delegates will be organized. A souvenir and proceedings of the conference will also be brought out.

### 4. Conference Sponsorship

The following groups of sponsorship are available and can be availed of by the sponsors of the ISPUC-V. The Organizing Secretary may be contacted for further details.

#### Category of Sponsorship of ISPUC-V

| Category of Sponsorship | Sponsorship Contribution* |                 |
|-------------------------|---------------------------|-----------------|
|                         | Indian Rupees (INR)<br>Rs | US Dollar<br>\$ |
| Platinum                | 15,00,000                 | 40,000          |
| Gold                    | 10,00,000                 | 25,000          |
| Silver                  | 5,00,000                  | 12,500          |
| Co-Sponsor              | 2,00,000                  | 5,000           |

\* Amounts indicated are minimum and higher contributions are welcome.

## 5. Official Language

The official language of the conference is English.

## 6. Important Deadlines

|     |                            |   |                    |
|-----|----------------------------|---|--------------------|
| 6.1 | Submission of abstract     | : | August 31, 2008    |
| 6.2 | Notification of acceptance | : | September 15, 2008 |
| 6.3 | Submission of full paper   | : | October 15, 2008   |

## 7. Registration Fee

| Type of Delegates and the mode of payment | Registration        |                     |                     |                     |
|---|---------------------|---------------------|---------------------|---------------------|
|   | Participation as    | Up to Oct. 31, 2008 | Up to Nov. 30, 2008 | After Nov. 30, 2008 |
| Foreign, US \$                            | Delegate            | 300                 | 400                 | 500                 |
|   | Student delegate    | 150                 | 200                 | 225                 |
|   | Accompanying person | 100                 | 100                 | 100                 |
| Indian, Rupees                            | Delegate            | 4000                | 4500                | 5000                |
|   | Student delegate    | 2000                | 2500                | 2500                |
|   | Accompanying person | 1000                | 1000                | 100                 |

3

Registration fee includes admission to all sessions, conference materials (only for delegates), lunch, tea, snacks during conference days. Payment be sent along with duly filled in registration form (Annexure -I).

The participants are welcome to indicate their interest for attending the specific Technical Session in conference. The communications (e-mails/ letters) may be sent to the Organizing Secretary.

## 8. Submission of Abstract

The abstract should be typed within a frame of 160 mm x 254 mm containing about 300 words, using A4 size paper with 25 mm left and right margins and 18 mm space at the top and 25 mm bottom of the page. Times New Roman font type be used with 11 points font size, title of the paper and headings in 12 points font size. The abstract should clearly state objectives, methodology adopted and summary of results. Key words should be restricted to five words only. The presenting author's name must be underlined.

The full manuscript should be typed using the same type font, paper size, margins, etc. as that of abstract and limited to six pages. The full paper for the poster session should have same specifications as those for oral presentation. Figures, illustrations, drawings, process flow diagrams and photographs should be prepared as per guidelines and camera ready for printing. One delegate can present only one paper but may be a co-author for other presentations. The presenting author's name must be underlined.

All the abstracts and the full manuscripts (soft as well as hard copy) should be sent to the Organizing Secretary, ISPUC-V 2008.

## 9. Technical Visit

One field visit will be organized on December 13, 2008.

## 10. Conference Proceedings

Publication of papers accepted for presentation (oral or poster) shall be brought out in the form of printed document and made available at no extra cost, to each registered delegates at the time of conference. To facilitate timely and ensured availability of the document, all the authors are required to submit the manuscript in prescribed format and by specified dates. Authors/ Presenters must ensure correctness of the scientific matter.

## 11. Souvenir

Publication of souvenir is targeted to give an opportunity to all soybean processors of oil, soy foods, soy based nutraceuticals and functional food and equipment and instrument manufacturers to advertise their products. Input to the souvenir in the form of advertisements by industry and organizations, thus would go a long way in introducing their product(s) globally for making their presence felt in world scenario. Developing world and also developed countries may get benefited. Therefore, generous input to the souvenir in the form of advertisements would be of great significance.

### 11.1 Advertisement Charges

| Advertisement Site   | Tariff   |       |
|--|----------|-------|
|  | INR (Rs) | US \$ |
| Back cover page  | 50,000   | 2000  |
| Inside back cover  | 40,000   | 1500  |
| Inside page of front cover   | 40,000   | 1500  |
| Next front page (of inside cover)  | 30,000   | 1000  |
| First ten pages after inside cover page and next text to front page  | 20,000   | 750   |
| Full page  | 6,000    | 200   |
| Half page  | 4,000    | 150   |
| Note : Payment may be sent by demand draft along with camera ready advertisement material and souvenir form (Annexure-II). |          |       |

## 12. Exhibition

An exhibition would be organized. It would be depicting the soy food industry, soy processing equipment, soy based foods, nutraceuticals and health foods, cost effective role of soy foods in combating malnutrition, organizational activities, etc. Total 100 stalls of 3 x 3 m and 3 x 5 m combinations are being arranged. Stall allotment will be done on first come first serve basis. Stall shall be covered from three sides and top. Utilities like electricity (power supply and lighting), furniture (one Table and 2 chairs) will be made available for display of literature and demonstration of equipment. Also, open space at least equal to stall size may be made available for use.

### 12.1 Stall Charges (For conference period)

| Stall Type     | Charges |       |
|----------------|---------|-------|
|                | Rs.     | US \$ |
| Stall, 3 x 3 m | 5000    | 300   |
| Stall, 3 x 5 m | 8000    | 400   |

### 12.2 Stall Booking

Stall(s) can be booked/ reserved by sending the duly filled stall booking form (Annexure-III) along with a demand draft for full amount to Organizing Secretary.

## 13. Accommodation

Bhopal, the city of lakes and hillocks, provides Hotel Accommodation facility with logistics, and continental and Chinese foods. Single bed room, double bed (shared room), suites and deluxe rooms are available in the tariff range of US \$ 100 to 200 per day.

Hotel accommodation is available in Non AC category and tariff ranging from US \$ 10 to 30 per day. Also, limited accommodation is available in Guest Houses.

#### Range of accommodation available in Hotels, located at Bhopal (Amount in US \$ per day)

| AC Suite | AC Single Bed Room | AC Double Bed Room | Non AC Single Bed Room | Non AC Double Bed Room |
|----------|--------------------|--------------------|------------------------|------------------------|
| 100-200  | 50-80              | 70-100             | 10-25                  | 15-30                  |

5

Suitability of accommodation be seen, category of accommodation be decided, indication be made in the Accommodation Form (Annexure -IV) and an advance payment of entire period of stay be made in the form of Demand Draft.

## 14. Mode of Payment

Payment of registration fees, advertisement charges, stall charges for exhibition, etc. for the conference may be made through demand draft drawn in favour of ISPUC-V 2008, payable at Bhopal, India and should be sent to the Organizing Secretary along with duly filled-in appropriate proforma (Annexure I to IV).

## 15. Technical Programme and Time Schedule

There would be 08 technical sessions as listed below besides inaugural and closing sessions:

| Technical Session No. | Topic   |
|-----------------------|---|
| I                     | Varietal variability for specific end uses                            |
| II                    | Post-harvest management of soybean for processing                     |
| III                   | Role of soybean as nutritional, therapeutic and functional foods      |
| IV                    | Technology for soybased traditional oriental foods                    |
| V                     | Processing of soybean using physical, chemical and biological methods |
| VI                    | New processing technologies for soy-oil and soy-meal                  |
| VII                   | Industrial uses of soybean and by-products                            |
| VIII                  | Policy to enhance soybean utilization and marketing strategy          |

## Tentative Time Schedule of Technical Programme ISPUC-V 2008

| Time,h      | Day 1<br>(December 10)                           | Day 2<br>(December 11)                  | Day 3<br>(December 12)                     | Day 4<br>(December 13)                                   | Day 5<br>(December 14)                       |
|-------------|--|---|--|--|--|
| 0900 - 1100 | Registration                                     | Technical Session-III (OP)              | Technical Session-VI (OP)                  | Visit to Soybean Processing Industry at Dewas and Indore | Visit to SPU and CIAE Labs                   |
| 1100 - 1130 | Tea  | Tea Break                               | Tea Break                                  |  | Tea Break                                    |
| 1130 - 1330 | Inaugural session and inauguration of exhibition | Technical Session-IV (OP)               | Technical Session-VII (OP)                 |  | Closing Session                              |
| 1330 - 1430 | Lunch  | Lunch                                   | Lunch                                      |  | Lunch  |
| 1430 - 1630 | Technical Session-I (OP)                         | Technical Session-V (OP)                | Technical Session-VIII (OP)                |  | Departure to respective places/<br>Countries |
| 1630 - 1700 | Tea Break  | Tea Break                               | Tea Break                                  |  |  |
| 1700 - 1830 | Technical Session-II (OP)                        | PP for Technical Sessions- III,IV and V | PP for Technical Sessions-VI, VII and VIII |  |  |
| 1830 - 2000 | PP for Technical Sessions-I and II               | Cultural Programme                      | Cultural Programme                         |  |  |
| 2000 - 2130 | Dinner   | Dinner                                  | Dinner                                     |  | Dinner                                       |

OP : Oral Presentation

PP : Poster Presentation

### 16. Continuing Committee of ISPUC-V

- |                                    |   |               |
|------------------------------------|---|---------------|
| ● Dr Karl Weingartner, USA         | : | Chairman      |
| ● Dr G S Chouhan, India            | : | Vice-Chairman |
| ● Dr Akinori Noguchi, Japan        | : | Secretary     |
| ● Dr. Vidyadhar Kawalkar, India    | : | Member        |
| ● Dr Li Lite, China                | : | Member        |
| ● Dr Somsak Srisombun, Thailand    | : | Member        |
| ● Dr Jean Dayde, France            | : | Member        |
| ● Dr Cornelius Muthuri, Kenya      | : | Member        |
| ● Dr Jose Marcos Mandarino, Brazil | : | Member        |

## 17. The Venue

### 17.1 About Venue

The venue of the conference is **Soybean Processing and Utilization Centre (SPU)** at CIAE, located at Nabi Bagh, Berasia Road, Bhopal, Madhya Pradesh, India. SPU is involved in R&D activities related to development of process technology and equipment for food uses of soybean.

From the railway station, the venue is about 06 km and from the air port, 10 km. Bhopal is centrally located and well connected by rail and air (from Mumbai, Delhi, Hyderabad and Ahmedabad). Bhopal is also the capital city of Madhya Pradesh, the Soybean State of India. This state contributes over 55 % of total soybean production of India.

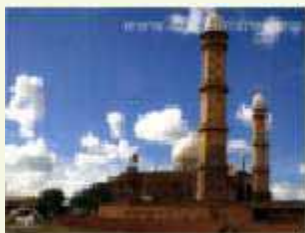
The CIAE, Bhopal was established in 1976 to carry out research and development for facilitating mechanization of agriculture, conservation of soil and water, post harvest value addition to agricultural produce and efficient utilization of renewable and non-renewable sources of energy in agriculture. It also carries out transfer of technology by organizing regular trainings, demonstrations, and production and supply of prototypes and equipment for creating awareness for their easy and early adoption. CIAE has been designated as nodal Institute for activities under the aegis of Asia Pacific Centre for Agricultural Engineering and Machinery (APCAEM) which is an UN-ESCAP body.

The Institute is spread over an area of about 93 ha having 40 ha research farm. CIAE has well equipped laboratories and a prototype production workshop. It also has well-furnished hostel and guest house facilities. The activities of the Institute are accomplished through five divisions, four centers, four coordinating cells of All India Coordinated Research Projects (AICRPs) and administrative and financial wings. Research and development activities are carried out by the divisions, AICRPs and research centres. Research Workshop provides the fabrication facilities for agricultural machinery. CAD and Instrumentation Cell extend support for R&D activities.

7

### 17.2 About Bhopal

Bhopal, the city of lakes and hillocks, is a fascinating amalgam of scenic beauty, historic places around and urban planning. It is the 11<sup>th</sup> century city, founded by King Bhoj. Bhopal is located at latitude 23° 18' north and longitude 77° 24' east and 523 m above mean sea level. Bhopal is 705 km from Delhi, 789 km from Mumbai, and about 200 km from Indore. Major tourist attractions like Kanha, Ujjain, Sanchi, Khajuraho, Pachmarhi are close by and well connected.



Taj-ul-Masajid at Bhopal  
the largest mosque in India



Sanchi Stupa, synonymous  
to the masterpieces of  
Buddhist art



Khajuraho, the temple  
famous for its exquisitely  
carved temples in stone



Pachmarhi,  
the walker's paradise

## 18. How to reach Bhopal



Bhopal is connected by regular flights from Mumbai, Delhi, Ahmedabad and Hyderabad. Bhopal Airport is 10 km from CIAE, the venue of the ISPUC-V 2008.



Bhopal is on Delhi to Mumbai railway line via South Central Railway and also on the main line to the southern state capitals of Chennai, Hyderabad, Bangalore and Thiruvananthapuram. Bhopal is connected with main cities of the country.



There are extensive bus services to cities within the region and interstate.

## 19. Climate

The climate is moderate. Summers are hot and winters cold but it does not face extreme weather conditions. The weather is pleasant throughout the year. Mean temperatures during December range between 9°C to 26°C.

8

## 20. General Information

- **Passport and Visa**

Foreign delegates / participants entering India must have valid passport and visa.

- **Insurance and Liability**

The delegates should ensure medical and general insurance for themselves.

- **Electrical Appliances**

India operates on 220 V, 50 Hz for electrical appliances.

**Correspondence:** All correspondence concerning the Conference should be sent to:

**Dr. S D Kulkarni**

Organizing Secretary, ISPUC-V 2008 &  
Project Director, Soybean Processing and Utilization Centre,  
Central Institute of Agricultural Engineering  
Nabi Bagh, Bhopal - 462 038, Madhya Pradesh, India

E-mail: [sdk@ciae.res.in](mailto:sdk@ciae.res.in), [ispuc.v@gmail.com](mailto:ispuc.v@gmail.com)

(Please use both e-mail ids to ensure assured receipt by the organizers)

Web: [www.ciae.nic.in](http://www.ciae.nic.in)

Phone : +91-755-2730987, 2521061 Fax: +91-755-2734016

International Soybean Processing and Utilization Conference - V

(ISPUC-V 2008)

December 10-14, 2008

**Registration**

(Form to be filled and sent along with demand draft)

Full Name.....

Designation.....

Organization.....

Address for correspondence .....

.....

Telephone.....Mobile.....Fax.....

Email.....

Academic Qualification.....

Specialization.....

Technical Session of Interest .....

Details of accompanying persons .....

Amount: US \$ (... ..), INR Rs. (... ..)

Payment by Demand Draft No..... Date.....

Drawn in favor of ISPUC-V 2008, payable at Bhopal, India.

Draft drawn on Bank ..... Place.....

.....

Signature of the applicant

Note: The form can be photocopied/ typed for use. Also, available on website [www.ciae.nic.in](http://www.ciae.nic.in)

International Soybean Processing and Utilization Conference - V  
(ISPUC-V 2008)  
December 10-14, 2008

**Advertisement in Souvenir**

(Form to be filled and sent along with demand draft)

Full Name.....

Designation.....

Organization.....

Address for correspondence .....

.....

Telephone.....Mobile.....Fax.....

Email.....

Description of Advertisement material (tick ( ✓ ) appropriately):

Photo..... Write up..... Number of pages .....

| Advertisement Site  | Tariff in |       |
|---|-----------|-------|
|   | INR (Rs)  | US \$ |
| Back cover page   | 50,000    | 2000  |
| Inside back cover   | 40,000    | 1500  |
| Inside page of front cover  | 40,000    | 1500  |
| Next front page (of inside cover)                                   | 30,000    | 1000  |
| First ten pages after inside cover page and next text to front page | 20,000    | 750   |
| Full page   | 6,000     | 200   |
| Half page   | 4,000     | 150   |

Amount: US \$ (.....), INR Rs. (.....)

Payment by Demand Draft No..... Date.....

Drawn in favor of ISPUC-V 2008, payable at Bhopal, India.

Draft drawn on Bank ..... Place.....

.....  
Signature of the applicant

**Note:** The form can be photocopied/ typed for use. Also, available on website [www.ciae.nic.in](http://www.ciae.nic.in)

International Soybean Processing and Utilization Conference - V  
(ISPUC-V 2008)  
December 10-14, 2008

**Stall Booking for Exhibition**

(Form to be filled and sent along with demand draft)

Full Name.....

Designation.....

Organization and activity.....

Address for correspondence .....

.....

Telephone.....Mobile.....Fax.....

Email.....

Number of stalls (3 x 3 m) required. ....(Charge Rs 5000, US \$ 300)

(3 x 5 m) required.....(Charge Rs 8000, US\$ 400)

Amount: US \$ (... ..), INR Rs. (... ..)

Payment by Demand Draft No..... Date.....

Drawn in favor of ISPUC-V 2008, payable at Bhopal, India.

Draft drawn on Bank ..... Place.....

.....  
Signature of the applicant

Note: The form can be photocopied/ typed for use. Also, available on website [www.ciae.nic.in](http://www.ciae.nic.in)

International Soybean Processing and Utilization Conference - V  
(ISPUC-V 2008)  
December 10-14, 2008

**Accommodation**

(Form to be filled and sent along with demand draft)

Full Name.....

Designation.....

Address for correspondence.....

.....

Telephone.....Mobile.....Fax.....

Email.....

Type of Accommodation required:      Single bed room /Twin bed room

Preferred accommodation charges US \$/ Rs. Per day .....

Duration of Stay .....

Arrival Date..... Time,h ..... Mode,Air/ Rail/ Road.....

Vehicle required at .....h, at .....Location

Departure Date..... Time,h ..... Mode,Air/ Rail/ Road.....

Details of accompanying persons.....

Amount: US \$ (.....), INR Rs. (.....)

Payment by Demand Draft No..... Date.....

Drawn in favor of **ISPUC-V 2008**, payable at Bhopal, India.

Draft drawn on Bank ..... Place.....

.....  
Signature of the applicant

**Note:** The form can be photocopied/ typed for use. Also, available on website [www.ciae.nic.in](http://www.ciae.nic.in)

**Soy protein is one of the best quality plant protein sources**

## **Health Benefits of Soybean**

Reduces the risk of coronary heart diseases

Helps in preventing cancer

Suits to diabetic patients

Good for lactose intolerants

Provides dietary fibre

Consumption of raw/ unprocessed soybean is not good for health

**Properly processed soy foods are nutritious, good for health and economical. Include them in daily diet.**



**For further information, contact**

Dr S D Kulkarni

Organizing Secretary, ISPUC-V 2008 &  
Project Director, Soybean Processing and Utilization Centre,  
Central Institute of Agricultural Engineering  
Nabi Bagh, Bhopal - 462 038, Madhya Pradesh, India

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Phone: +91-755-2730987, 2521061 Fax: +91-755-2734016