Second Workshop on Food Supply Chains:
Improvement and Innovation through Collaboration
and launch of
Food-SCAN (Food Supply Chain Advancement Network)

Supported by the Punjab Chapter of the Indian Society of Agricultural Engineers

Date: 27th and 28th February 2020
Location: Jacob Hall, College of Agricultural Engineering & Technology, Punjab Agricultural University, Ludhiana, Punjab, India
Following the highly successful first workshop on Food Supply Chains held in Chandigarh in February 2019, we are very pleased to announce that the Second Workshop will be held in Ludhiana, Punjab.

The first workshop identified significant opportunity for improving food quality, reducing wastage and costs, and improving delivery times from point of production to point of consumption. The reality is that current food supply chains are not well integrated, there is limited or no trust between the members of the supply chains and limited information shared along the supply chain that can be used for effective decision-making. Furthermore, little use is made of emerging supply chain technologies and management practices that can lead to transparency, improved quality, waste reduction and improved delivery lead-times.

The first workshop formed four groups (farmers, food processors, retailers and logistics/warehousing service providers) and the challenges facing each one were discussed in-depth. The barriers to integration of end-to-end food supply chains were highlighted, as well as the benefits for each party from such integration.

The need for further discussion to take place amongst the four groups mentioned above was identified. Hence, we are inviting you to take part in the Second Workshop and be part of the discussions and the launch of the Food Supply Chain Advancement Network in India, Food-SCAN.

We recognise that Improvement and Innovation in Food Supply Chains can only happen if there is close Collaboration amongst all stakeholders. Food-SCAN aims to achieve the following goals:

1. Facilitate discussion amongst members of food supply chains to increase awareness of the challenges and issues faced by individual stakeholders and the supply chain as a whole;

2. Provide and share real examples on how integration of food supply chains can help streamline value-adding activities, visualise congruent and conflicting goals of the individual supply chain partners and improve performance of each member and the whole supply chain;
3. Facilitate building of relationships and trust amongst supply chain members through regular meetings and workshops that would provide a common platform for identifying, discussing, and finding solutions to the most pressing issues faced by food supply chains in India;

4. Demonstrate the application of emerging technologies through case study examples presented by organisations that have adopted these technologies effectively and discuss the existing barriers for adoption by other organisations and sectors to find the most lucrative and context-specific solutions for overcoming these barriers; and

5. Conduct research on topics of relevance and report these to all stakeholders. The workshop in Chandigarh identified a number of potential future projects.

The second workshop in Ludhiana will again be a two-day event focusing on end-to-end food supply chains. Our theme is Improvement and Innovation through Collaboration. The workshop will include invited presentations and roundtable discussions. We invite the following to participate:

i. Farmers and their suppliers;

ii. Aggregators, sorters, food processors and packers, as well as equipment suppliers;

iii. Retailers; and

iv. Warehousing and Logistics providers.

TARGETED PARTICIPANTS

This workshop is limited to 60 participants who have the time to be engaged in the two full days of the workshop. Participants will have passion, energy and creativity to consider the challenges and contribute to developing possible solutions, especially solutions that will make a difference to the livelihood of the farmers.

Participation is by invitation and the organisers of the workshop request that this invitation is only accepted if a firm commitment is made to participate.
WORKSHOP ORGANISATION:

Workshop Chair:
Professor Amrik Sohal (Monash Business School, Monash University, Australia)
Tel:-+61 414805 606, Email: Amrik.Sohal@monash.edu

Workshop Co-Chair
Professor Mark Swainson, National Centre for Food Manufacturing, University of Lincoln, UK
Dr Wayne Martindale (Food Insights & Sustainability Service, NCFM University of Lincoln, UK)

Contact Person at PAU, Ludhiana:
Dr Mahesh Kumar (Professor & Head), Email: mahesh@pau.edu, hodpfe@pau.edu
# Day 1 Program - Thursday, 27 February 2020

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<th>TIME</th>
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<tr>
<td>10.30am</td>
<td>Morning Tea and Registration</td>
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<td></td>
<td><strong>SESSION 1:</strong> INAGURATION/WELCOME, KEY NOTE PRESENTATION AND PANEL DISCUSSION</td>
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<td>Chair: Professor Amrik Sohal (Monash Business School, Monash University)</td>
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<td>Inaugural Session: Sh Anoop Bector: MD, Mrs Bector’s Food Specialities Ltd (Chief Guest)</td>
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<td>Welcome Address: Dr Jaskarn Singh Mahal, Director Extension Education, PAU, Ludhiana</td>
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<td>Vote of Thanks: Dr Ashok Kumar, Dean, College of Agricultural Eng’g &amp; Technology</td>
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<td>Stage Conduct: Prof. Mahesh Kumar (Department of Processing and Food Engineering)</td>
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<td>11.00am</td>
<td>Keynote Presentation:</td>
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<td>1. “Insights into fresh produce supply chain improvement, value addition, waste reduction and adoption of new techniques and technologies in India - PAU/Sangha Innovation/University of Lincoln/CIAB/Coveris - Newton Bhabha initiative”</td>
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<td>Presenter: Prof. Mark Swainson (University of Lincoln, UK)</td>
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<td>2. “Supply chain issues and cold chain infrastructure at Sangha Innovation”</td>
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<td>Presenter: Mr JBS Sangha (Sangha Innovation, Village Quadi anwali, Distt. Jal andhar)</td>
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Panel Discussion Question:
**What are the roots causes to the poor collaboration and lack of improvement and innovation along food supply chains in India?**

**PANEL MEMBERS:**

1. **Mr Amrandeep Singh Soni (Adani Agri Logistics Ltd.)**
2. **Dr Sudesh Kumar (Center of Innovative and Applied Bioprocessing)**
3. **Mr Jang Bahadur Sangha (Sangha Innovation)**
4. **Dr Jatinder Kaur Arora, Executive Director, Punjab State Council for Science and Technology, Chandigarh**
5. **Sh Bal Mukand Sharma, Director, Virgo Projects Pvt Ltd**
6. **Dr Ramandeep Singh (PAU)**
7. **Prof. Mahesh Kumar (PAU)**
8. **Dr Preetinder Kaur (PAU)**

Rapporteurs: **Dr Gagandeep Kaur Sidhu**  
**Dr Kanchan Sandhu**

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<th>Time</th>
<th>Activity</th>
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<tr>
<td>1.30pm</td>
<td>LUNCH AND NETWORKING</td>
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<tr>
<td>2.30pm</td>
<td>SESSION 2: IMPROVEMENT AND INNOVATION THROUGH COLLABORATION</td>
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Our first workshop held in Chandigarh in February 2019 put forward the proposal to establish Food-SCAN (Food Supply Chain Advancement Network). Refer to the aims of Food-SCAN listed under the Background section of this document - see page 1.

In this session, in small groups, we will have roundtable discussions on the proposed Food-SCAN, its governance, operation and future activities. Each group will report on their discussion.

Facilitators:
SESSION 3:
PRESENTATIONS:
Chair: Professor Amrik Sohal (Monash Business School, Monash University)

Presentation 1 - “Post harvest Handling and Management of Horticultural Produce & its Supply Chain in Punjab”
Presenter: Dr BVC Mahajan, Director, Punjab Horticultural Post Harvest Technology Centre, PAU

Presentation 2 - “Concept and Operation of Mega Food Park at Laddowal, Ludhiana”
Presenter: Sh Rajneesh Tulsi, GM (Projects), Punjab Agro Industrial Corporation, Chandigarh

Presentation 3 - “Sustainable Solutions in Shelf Life Extension of Fresh Produce through Innovative Packaging”
Presenter: Sh N Sivashankaran, Vice President
Flexfresh at Uflex Limited, Noida, UP.

**Rapporteurs:**

Dr S R Sharma  
Dr Sandhya

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<tr>
<td>6.00pm</td>
<td><strong>END OF DAY 1 PROCEEDINGS</strong></td>
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<td>7.00pm</td>
<td><strong>DINNER</strong></td>
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**Day 2 Program - Friday, 28 February 2020**

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| 10.00am | **SESSION 4:**  
**KEYNOTE PRESENTATION: BEST PRACTICE FROM OVERSEAS AND INDIA**  
Chair: Dr Baldev Singh Dhillon (*Padma Shri*) Vice Chancellor, PAU, Ludhiana  
Co Chair: Dr N S Bains Director of Research, PAU, Ludhiana  
1. **“Global SCOPE - Food Supply Chain Optimisation and Engagement - Food system development initiatives from India, Kenya and the UK”**  
Presenter: Dr Wayne Martindale (Global SCOPE - University of Lincoln, UK)  
2. **“Infrastructure Development for Controlled Atmosphere Storage”**  
Presenter: Er Sanjay Gupta, Director, Infracool Pvt Ltd, New Delhi  
3. **“Prospects of Frozen Food and its Supply Chain”**  
Presenter: Inigo Anton, CNIFCO Frozen Foods  
**Rapporteurs:**  
Dr Mahesh Kumar  
Dr Preetinder Kaur |
| 11.00am | **MORNING TEA AND NETWORKING** |
| 11.30am | **SESSION 5:**  
**FOOD-SCAN PROPOSALS AND ACTIVITIES** |
Small group roundtable discussions - focusing on engagement, prioritisation and value for industry partners.

Facilitators: Dr. Sandeep Kapur, Professor, School of Business Studies & Comptroller PAU

- Dr. S K Tyagi, Project Co-ordinator, AICRP on PHT
- Dr. Kamal Vatta, Head, Department of Economics and Sociology
- Dr. Alkesh Kandoria, Principal Scientist, PSCS&T, Chandigarh
- Dr. Khushdeep Singh Dharni (PAU)
- Dr. Mahesh Kumar, Head, Department of Processing & Food Engineering, PAU

Others with the permission of chair

Reporteurs:

- Dr. Satish Kumar
- Dr. Manpreet Singh

LUNCH AND NETWORKING

SESSION 6:

FINAL OPEN DISCUSSION SESSION

Chair: Professor Amrik Sohal (Monash Business School, Monash University)

- Brief report from Sessions 1-4
- Report from roundtable discussions (Session 5).
- Official launch of Food-SCAN, including announcement of Food-SCAN governance structure and future plans.

END OF WORKSHOP