AGENDA

Monday Afternoon – May 11 ABE B-073				Wednesday Morning – May 13 ABE B-073			
12:30	Registration			8:00	Aseptic Packaging Technology		
1:00	Introduction and Welcome				(Dr. Patnarin Benyathiar)		
	(Dr. Dharmendra Mishra)			9:30	Refreshment Break		
2:00	Microbiological Principles in Aseptic Processing			9:45	Laboratory Sessions (NLSN)	Room#	Groups
	(Dr. Haley Oliver)				Packaging – Dr. Benyathiar	NLSN 1137	III
3:30	5 Principles of Thermal Processing in Aseptic				Chemistry – <i>Dr. Syamala</i>	NLSN 1215	III
3:45					Microbiology – <i>Dr. Sawale</i>	NLSN 1254	IV
	Processing (Dr. Dharmendra Mishra)				Engineering Concepts – Ms. Budreau and Mr. Paxson	Pilot Plant	I
5:30	Dinner				Equipment Features – <i>Dr. Chakraborty</i>	NLSN 1195	II
				11:45	Lunch (Provided)		
	Tuesday Morning – May 12 ABE B-073				Wednesday Afternoon– May 13 ABE B-073		
8:00	Thermal Process Calculation			1:00	Laboratory Sessions (NLSN)	Room#	Groups
	(Dr. Dharmendra Mishra)				Packaging – Dr. Benyathiar	NLSN 1137	IV
	,				Chemistry – Dr. Syamala	NLSN 1215	IV
9:30	Refreshment Break				Microbiology – <i>Dr. Sawale</i>	NLSN 1254	III
9:45	Laboratory Sessions	Room#	Groups		Engineering Concepts – Ms. Budreau and Mr. Paxson	Pilot Plant	II
	Packaging – Dr. Benyathiar	NLSN 1137	1		Equipment Features – <i>Dr. Chakraborty</i>	NLSN 1195	I
	Chemistry – <i>Dr. Syamala</i>	NLSN 1215	1	3:00	Refreshment Break		
	Microbiology – <i>Dr. Sawale</i>	NLSN 1254	II	3:15	Quality Assurance and FDA Regulations (Dr. Glenn Black)		
	Engineering Concepts – Ms. Budreau and Mr. Paxson	Pilot Plant	III	5:00	Special Dinner (Transportation provided)		
	Equipment Features – <i>Dr. Chakraborty</i>	NLSN 1195	IV				
11.45	Lunch (Provided)						
	Tuesday Afternoon – May 12 ABE B-073			Thursday Morning – May 14 ABE B-073			
1:00	Chemical Considerations of Aseptic Processing			8:30	Sanitation		
2.22	(Dr. Athira Syamala)			10.15	(Dr. Haley Oliver)		
2:30	Refreshment Break	5 "		10:15	Refreshment Break		
2:45	Laboratory Sessions	Room#	Groups	10.30	Problem Solving Exercise		
	Packaging – Dr. Benyathiar	NLSN 1137	II II	12,00	(Dr. Dharmendra Mishra)		
	Chemistry – Dr. Syamala	NLSN 1215	II .	12:00	Workshop Adjourns		
	Microbiology – <i>Dr. Sawale</i>	NLSN 1254	l N				
	Engineering Concepts – Ms. Budreau and Mr. Paxson	Pilot Plant	IV 				
	Equipment Features – Dr. Chakraborty	NLSN 1195	III				
6:00	Dinner on Your Own						

Workshop Faculty and Instructors

Dharmendra Mishra Associate Professor of Food Science and Director, Food Entrepreneurship and Manufacturing Institute (FEMI) at Purdue University. His expertise includes thermal processing, mathematical modeling, aseptic validation, and parameter estimation. He works closely with commercial food manufacturers and provides operational guidance and design training courses for the workforce and has trained over 1800 food industry professionals and government regulatory inspectors.

Glenn Black Associate Director of Research of the Division of Food Processing Science and Technology (DFPST) in the office of Food Safety within CFSAN/FDA. DFPST is jointly located with the Institute for Food Safety and Health at the National Center of Food Safety and Technology (NCFST) and is responsible for providing management, budget oversight, and supporting food safety-related research related to food processing and safety.

Kelsey Budreau Pilot Plant Manager at the Dept. of Food Science, Purdue University. She coordinates daily activities in the department's 9,500 sq. ft. modular space dedicated to food manufacturing research and education. Kelsey supports department research, training for student courses and industry, and pilot scale R&D trials for industry.

Haley Oliver Professor of Food Science at Vice Provost for Graduate Students and Post Doctoral Students. She has over 10 years of food security field experience in low- and middle-income economies. Dr. Oliver's domestic research focuses on foodborne pathogens in emerging food systems (e.g., cellular agriculture) with an emphasis on practical and feasible control strategies. She teaches food safety, sanitation, and related subjects at Purdue.

Patnarin Benyathiar Clinical Assistant Professor of food packaging in Purdue's Department of Food Science. Her packaging program is focused on development of eco-friendly packaging materials from renewable sources, nanocoating and nanotechnology in sustainable packaging, life cycle of packaging in recyclability, biodegradability, compostability, and smart/active packaging.

Ben Paxson Purdue Food Science Academic IT Specialist. He determines short- and long-term goals for the management and expansion of the departmental network and is responsible for the design and implementation of new features of the network and manages the department's servers. Additionally, Ben acts as the IT lead on several projects including aspects related to Computer Integrated Manufacturing in our Pilot Laboratory.

Athira Syamala Research Associate-Senior FEMI Food Science at Purdue University. Dr. Syamala research works focuses on dairy technology, functional characterization of commercial dairy and whey protein, and beverage applications.

Subhashis Chakraborty Extension Research Administrator and Regulatory Specialist at the Dept. of Food Science, Purdue University. His experience spans more than 11+ years in the food and beverage industry through industrial work, training, auditing, and consulting.

Manoj Sawale Thermal Process Authority. Highly motivated and innovative food professional with 5+ years of experience in Food Processing, Microbiology, Aseptic Processing, Aseptic Filler Validation, and ingredient formulation. Proficient in scientific discovery and commercial implementation of technology, adept at leading the team for challenging projects and food industry workshops.

Graduate Student Assistants and Workshop Staff

Phiona Bamukunde, Allison Kingery, George Nyombaire, Amandeep Singh, Audrey Searing Hettel, Halak Mehta, Xiang Cheng, Harneel Kaur, Rahul Kamath, Vinoothna Ramisetty, Isaya Kijpatanasilp, Neeraj Ghanghas, and Dept. of Food Science Undergraduate Assistants.