



INNOVATIONS IN GREEN & SUSTAINABLE CHEMISTRY FOR PHARMA INDUSTRY

19th -20th January – 2022

Venue : Online

Day I - 19th January 2022 (Wednesday)**Expected Participants:** Senior representatives from Pharma Industry - R&D, Process Development, Technical Services, Scale-up

- Objectives:**
1. To share various business, regulatory, supply chain dynamics happening in Pharma Industry related to sustainability.
 2. To share Green Chemistry initiatives, successful case studies, tools & best practices by large pharma companies.
 3. To discuss need & relevance of Process Safety in Pharma Industry and share best practices.
 4. To share recent innovations like Flow Chemistry & its successful implementation in Pharma Industry.
 5. In Green Chemistry, identify challenges, gaps, mindset issues and discuss learnings from experiences of India & China.

India Time	Speaker, Designation, Company	Topics
09:00 - 09:02	Mrs. Krishna B. Padia, Executive Director, Green ChemisTree Foundation	Welcome & Prayer
09:02 - 09:05	Mr. Nitesh H. Mehta, Co-founder & Director, Green ChemisTree Foundation	Welcome, Acknowledgement, Introducing Dr. P. V. Srinivas
	Session Chair: Dr. P. V. Srinivas, President & CTO, PI Industries	
09:05 - 09:35	Dr. Sudhir Nambiar, Chief Scientific Officer, Solara Active Pharma Sciences	Business Case for Joining Pharmaceutical Roundtable (PRT)
09:35 - 10:15	Dr. Philippa Payne, Sr. Research Scientist, Gilead Sciences	The ACS Green Chemistry Institute Pharmaceutical Roundtable: Catalyzing green chemistry & engineering in the pharmaceutical industry
10:15 - 10:55	Dr. David Entwistle, Head of Process E2Chemistry, Codexis	Recent developments in Biocatalysis
10:55 - 11:00	Dr. P. V. Srinivas	Concluding Remarks & Acknowledgement
11:00 - 11:20	Tea/Coffee Break & Visit Exhibition	
	Session Chair: Dr. Rakeshwar Bandichhor, VP & Head of Chemistry - API PR&D, Dr. Reddy's Laboratories	
11:20 - 12:00	Dr. Paul Richardson, Director, Analytical & Synthetic Technologies, Oncology Medicinal Chemistry, Pfizer	ACS GCIPR Tools for More Sustainable Chemistry
12:00 - 12:40	Dr. Fabrice Gallou, Distinguished Scientist, Novartis	ACS GCIPR Solvent Selection Tool and recent developments in water-based chemistry
12:40 - 13:20	Dr. Jo Sampson, Associate Principal Scientist, Team Manager, CatSci	Ketone Reductase Biocatalysis in the Synthesis of Chiral Intermediates Toward Generic Active Pharmaceutical Ingredients
13:20 - 13:25	Dr. Rakeshwar Bandichhor	Concluding Remarks & Acknowledgement

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India Time	Speaker, Designation, Company	Topics
13:25 - 14:25	Lunch Break & Visit Exhibition	
	Session Chair: Dr. Sudhir Nambiar, Chief Scientific Office, Solara Active Pharma Sciences	
14:25 - 15:05	Dr. Vicky Lange, Senior Scientist, Chemical Engineer Continuous Development & Manufacture, Pfizer	Driving API Carbon Footprint Reduction while increasing Agility and Addressing Supply Risk Through Continuous Processing
15:05 - 15:10	Dr. Sudhir Nambiar	Concluding Remarks & Acknowledgement, Inviting Panel Members
15:10 - 15:50	<p>Moderator: Dr. Sudhir Nambiar, Chief Scientific Officer, Solara Active Pharma Sciences Ltd.</p> <p>Panel Members:</p> <p>Dr. Louis Dorazio, Senior Principal Scientist, New Modalities, Chemical Development, AstraZeneca</p> <p>Dr. Alan Steven, Chief Scientist, CatSci</p> <p>Dr. Rakesh Ganorkar, Vice President - R&T, Hikal Ltd.</p> <p>Dr. Dhileep Krishnamurty, Member of Scientific Advisory Board, TCG Green Chem and Member of Advisory Board, Green Chemistry Journal</p>	Panel Discussion: "Emerging Technoloies that facilitate Green Chemistry"
15:50 - 15:55	Dr. Sudhir Nambiar	Concluding Remarks for Panel Discussion and Acknowledgement
15:55 - 16:00	Mr. Nitesh H. Mehta, Co-founder & Director, Green ChemisTree Foundation	Acknowledgement & Completion



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Day II - 20th January 2022 (Thursday)

Expected Participants: Senior representatives from Pharma Companies - Production, Technical Services, Scale-up, EHS

- Objectives:**
1. To learn about PSCI, its objectives and its initiatives to support Pharma Supply Chain meet customer's expectations.
 2. To learn, in the domain of Process Safety Management, about Explosion Protection.
 3. In the domain of PiE (Pharma in Effluent) - learn about environmental concentrations for API loss in effluents.
 4. To learn different dimensions of Environmental Compliance.

India Time	Speaker, Designation, Company	Topic of Presentation
10:30 - 10:32	Mrs. Krishna B. Padia, Executive Director, Green ChemisTree Foundation	Welcome & Prayer
10:32 - 10:35	Mr. Nitesh H. Mehta, Co-founder & Director, Green ChemisTree Foundation	Welcome, Acknowledgement, Introducing Mr. Krishna Kumar Bhattacharjee
10:35 - 10:40	Session Chair: Mr. KrishnaKumar Bhattacharjee, Business Partner - Supplier Risk Management, Ethics Risk & Compliance, Novartis	
10:40 - 11:10	Mr. Manjit Singh, Associate Director, Sustainability, Centrient Pharmaceuticals	Introduction to PSCI
11:10 - 12:25	Mr. Shuquan Chen, Supplier Operations EHS Manager, Pfizer	Prevention of Dust and Flammable Vapor Explosion
12:25 - 12:30	Mr. KrishnaKumar Bhattacharjee	Concluding Remarks & Acknowledgement
12:32 - 13:30	Lunch Break & Visit to Exhibition	
13:30 - 13:35	Chair Person: Mr. Manjit Singh, Associate Director, Sustainability, Centrient Pharmaceuticals Ltd.	
13:35 - 14:35	Ms. Elizabeth Girardi-Schoen, Global Environmental Sustainability Leader, Pfizer	Establishing Predicted Environmental Concentrations for API Loss from Pharma Manufacturing
	Mr. Jason Rushing, PE, Principal Engineer and PiE Subject Matter Expert, Arcadis	
	Mr. Nolan Chase, EIT, Consultant and PiE Specialist, Arcadis	
14:35 - 14:55	Mr. Manjit Singh, Associate Director, Sustainability, Centrient Pharmaceuticals Ltd.	Q&A for Mr. Manjit Singh (on behalf of the presenters from Arcadis & Pfizer)
14:55 - 15:00	Mr. Manjit Singh	Concluding Remarks & Acknowledgement
15:00 - 15:30	Tea/Coffee Break & Visit to Exhibition	
15:30 - 15:35	Chair Person: Ms. Ranjana Ganguly, India EHS Leader, Pfizer	
15:35 - 16:35	Ms. Zelia Kranich, Sustainable Sourcing Director, Merck	Environmental Compliance in Pharma Industry
16:35 - 16:40	Ms. Ranjana Ganguly	Concluding Remarks & Acknowledgement
16:40 - 16:45	Mr. Nitesh H. Mehta, Co-founder & Director, Green ChemisTree Foundation	Acknowledgement & Completion