

Faculty Workshop Agenda June 12-15, 2023

Monday- 7:00 p.m.		Transportation from the Courtyard by Marriott Lake Jackson to The Oaks for Welcome Reception	Presentations	Tours
7:00 -7:30 p.m.		Appetizers/Group Photo	Activities	Breaks
7:30 p.m.		Dinner at The Oaks with speaker	AIChE Activities	Breakout Sessions
9:30 p.m.		Dinner ends		

Tuesday

			Start	Duration
Breakfast		Bistro or conference room	7:00	1:00
Welcome and Introduction to Process Safety				
Convene in Conference Room	1.1	Safety Information for hotel	8:00	0:10
Introduction	1.2	Introduction to Dow, "A Look Back in Time" video	8:10	0:40
Roundtable	1.3	Part I: Attendees introduce themselves with a few words on a key item they would like to take away this week	8:50	0:15
Presentation	1.4	Introducing Dow Facilitators and Expected Outcome	9:05	0:15
Break		Break	9:20	0:15
Presentation	1.5	Introduction to Process Hazard Evaluation and Risk Analysis	9:35	0:20
Roundtable	1.6	Part II: Attendees introduce themselves with a few words on a key item they would like to take away this week	9:55	0:15
Break		Mini-Break	10:10	0:15
Presentation	1.7	Introduction to the Workshop Example Problem	10:25	0:15
1. What are the Hazards?				
Presentation	2.1+2.2	Introduction to Reactivity Hazards and Testing	10:40	0:30
Presentation	2.3	Introduction to Flammable and Toxic Hazards	11:10	0:30
Lunch		Lunch	11:40	1:00
1st Breakout 4 Corners	2.5	Flammable and Toxic Hazards of the Workshop Problem - identify and document flammable, toxic, and reactive hazards	12:40	0:45
Presentation	2.6	Process Safety Education	13:25	0:30
2. What Can Go Wrong?				
Presentation	3.1	Hazard Scenario Identification	13:55	0:30
Break		Refreshments provided	14:25	0:20
2nd Breakout 4 Corners	3.2	Workshop Example Problem - Process Hazard Evaluation using HazOp - HazOp exercise for one node	14:45	1:00
Break		Mini-Break	15:45	0:15
Presentation	3.4	Safeguards: What Will You See On the Tour/Tour Assignments	16:00	0:25
Wrap Up		Concluding Remarks	16:25	0:05
Break at hotel			16:30	1:00
Transportation		Bus to dinner	17:30	0:20
Dinner		Red Snapper Inn in Surfside Beach	17:50	2:00
Transport to hotel			19:50	0:20
Arrive at hotel			20:10	

Wednesday

Breakfast		Bistro or conference room	7:00	1:00
Transport to Plant		Bus to plant	8:00	0:30
Convene in conference room		Organize for tour	8:30	0:15
Presentation	3.5	Review Assignments During Tour	8:45	0:05
Presentation	3.6	Overview of the Facility	8:50	0:15
Walk to tour locations		Rotate through tour stops	9:05	0:10
Tour		Area #1	9:15	0:15
Tour		Area #2	9:30	0:15
Tour		Area #3	9:45	0:15
Tour		Area #4	10:00	0:15

Tour		Area #5	10:15	0:15
Walk back to conference room		Return to room and debrief	10:30	0:15
Transport to Hotel		Bus to hotel	10:45	0:30
Break		Change out of PPE	11:15	0:20
Roundtable		Learnings and impressions of the tour	11:35	0:25
Lunch		Lunch	12:00	1:00
Presentation	3.8	Workshop Content Integration Across the Curriculum	13:00	0:15
3rd Breakout 4 Corners	3.9	Breakout session: Workshop Content Integration Across the Curriculum (Building hazard identification and scenario identification into existing curricula)	13:15	0:35
Break		Mini-Break	13:50	0:10
3. How Bad Can It Be?				
Presentation	4.1	Introduction to Consequence Evaluation	14:00	0:30
4th Breakout 4 Corners	4.2	Consequence Evaluation for the Workshop Problem	14:30	0:50
Break		Refreshments provided	15:20	0:15
4. How Likely is it to Happen?				
Presentation	5.1	Frequency Estimation/How Many Protection Layers	15:35	0:25
5. Can We Reduce the Risk?				
Presentation	6.1	Inherently Safer Design	16:00	0:25
Wrap Up		Wrap up	16:25	0:05
Break at hotel			16:30	1:00
Transport to dinner		Bus to dinner	17:30	0:20
Dinner		Lake Jackson Historical Museum	17:50	2:00
Transport to hotel		Bus to hotel	19:50	0:20
Arrive at hotel			20:10	

Thursday

Breakfast		Bistro or conference room	7:00	1:00
Convene in conference room		Review of Agenda	8:00	0:05
6. How Can We Manage the Risk?				
Presentation	6.2	Lines of defense: preventive safeguards - Instrumentation	8:05	0:25
Presentation	6.3	Lines of defense: preventive safeguards - Human Action	8:30	0:25
Presentation	6.4	Lines of defense: preventive safeguards - Relief Systems	8:55	0:25
Presentation	6.5+6.6	Lines of defense: mitigative safeguards	9:20	0:40
Break		Refreshments provided	10:00	0:15
5th Breakout 4 Corners	6.7	Preventive and Mitigative Safeguards for the Workshop Problem	10:15	0:20
Panel Discussion	7.2	Dow organization: Roles for new engineers and what Process Safety knowledge they require	0:00	0:45
Presentation	7.3	Resources for Process Safety Education	0:45	0:15
Presentation	7.4	The AIChE Undergraduate Process Safety Learning Initiative, <i>Doing a World of Good</i>	1:00	0:15
Feedback		Class evaluation	1:15	0:10
Wrap Up		Concluding remarks	1:25	0:05
Lunch		Boxed lunch provided	1:30	0:45
Departure		Transportation to airports	2:15	