

2017 ASEE Chemical Engineering Summer School Schedule Overview

Time	Saturday (7/29)	Sunday (7/30)	Monday (7/31)	Tuesday (8/01)	Wednesday (8/02)	Thursday (8/03)	
8:00AM		Education Plenary (Dr. Phil Wankat) 8:00-9:20	Summer School Lecture (Dr. Nicholas Peppas) 8:00-9:20	Industry Plenary (Tony Go and Buddy Lang) 8:00-9:30	NSF Plenary 8:00-9:20		
8:30AM	Teaching Institute 8:30-12:00					Reflection Session 8:30-9:20	
9:00AM				Industry Session 1			
9:30AM			Session 1 9:30-12:00	Session 4 9:30-12:00	Industry Day 9:45-12:00	Session 7 9:30-12:00	Session 10 9:30-12:00
10:00AM							
10:30AM							
11:00AM							
11:30AM							
Noon	Lunch and Break 12:00-1:30	Lunch 12:00-12:50	Lunch 12:00-12:50	Lunch 12:00-12:50	Lunch 12:00-12:50	Lunch 12:00-1:00	
12:30PM							
1:00PM	Teaching Institute 1:30-5:00	Session 2 1:00-2:30	Session 5 1:00-2:30	Industry Session 2 Industry Day 1:00-2:30	Session 8 1:00-2:30	Departures	
1:30PM							
2:00PM							
2:30PM		Session 3 2:45-4:15	Session 6 2:45-4:15	Industry Day EXPO 2:30-4:15	Session 9 2:45-4:15		
3:00PM							
3:30PM							
4:00PM							
4:30PM		Free Time 4:30-5:00	Networking Events 4:30-5:30	Networking Events 4:30-5:30	Free Time 4:30-6:00		
5:00PM	Dinner 5:00-7:00	Picnic 5:00-7:30	Dinner 5:30-7:00	Dinner 5:00-6:00			
5:30PM							
6:00PM					Banquet 6:00-8:00		
6:30PM							
7:00PM	Welcome Reception 7:00-9:00						
7:30PM							
8:00PM		Poster Session/Mixer 7:30-9:30	Poster Session/Mixer 7:30-9:30	Poster Session/Mixer 7:30-9:30			
8:30PM					Free Time		
9:00PM							

Detailed Schedule with Rooms

SATURDAY JULY 29

TIME	ACTIVITY	LOCATION
7:15-8:30 am	Breakfast served at Talley Student Center Ballroom Shuttles leaving Wolf Village at 7:15, 7:35, 7:55 and 8:15am	Talley Student Center Ballroom
8:30 am-12:00 pm	Teaching Institute Session 1	Talley Student Center Ballroom
12:00pm-1:30 pm	Lunch and Break (lunch 12:00-1:00pm)	Talley Student Center, ground level
1:30 pm-5:00 pm	Teaching Institute Session 2	Talley Student Center Ballroom
5:00 pm-6:30pm	Dinner	Talley Student Center, ground level
7:00 pm-9:00 pm	Welcome Reception at Marbles Kids Museum. Three shuttles will leave Talley Student Center at 6:20pm; one shuttle will make a stop by Wolf Village first and then go to Marbles. Two shuttles will circle between Wolf Village and Marbles after initial drop-off, every 30 minutes. For those driving, parking information can be found at http://www.marbleskidsmuseum.org/directions	Marbles Kids Museum (201 E Hargett St, Raleigh, NC 27601)

SUNDAY JULY 30

TIME	ACTIVITY	LOCATION
7:00-8:00 am	Breakfast is served in the EB1 atrium (today only). Shuttles leave Wolf Village every 15 minutes starting at 6:45am. Last pickup at Wolf Village is 8:15am to Hunt Library.	EB1 atrium (continental buffet)
8:00 am-9:30 am	Education Plenary Session Dr. Phil Wankat, Purdue University	Hunt Library Auditorium
9:30 am-12:00 pm	Session 1 Parallel Workshop Sessions	See below
12:00 pm- 1:00 pm	Lunch	Duke Energy Hall, Hunt Library
1:00 pm-2:30 pm	Session 2 Parallel Workshop Sessions	See below
2:45 pm-4:15 pm	Session 3 Parallel Workshop Sessions	See below
4:15 pm-5:00 pm	Free Time Shuttles leave Hunt to Wolf Village at 4:20 and 4:25pm. Shuttles leave Hunt to Pullen Park at 4:20 and 4:25pm. Shuttles leave Wolf Village to Pullen at 5:00 and 5:05pm.	
5:00 pm-7:30 pm	Picnic Shuttles will circle between Pullen Park and Wolf Village every ~20 minutes. Last shuttle from Pullen to Wolf is 7:00pm. Last shuttle from Pullen to Talley at 7:15pm.	Pullen Park (408 Ashe Ave, Raleigh, NC 27606)
7:30 pm-9:30 pm	Mixer and Poster Session Shuttles will circle between Wolf Village and Talley from 7:00 until 9:45pm.	Talley Student Center Ballroom

Parallel Workshop Sessions

Session 1 9:30 – 12:00	Session 2 1 – 2:30 pm	Session 3 2:45 – 4:15 pm
Hands-on Chemical Engineering Design Projects for use in Outreach Programs and Undergraduate Classes (2232 EB3)	Scale Up: Tools and Tips for Teaching a Large Class (1005 EB1)	Students Are People Too – Tips on Advising (1011 EB1)
From Sage on the Stage to Guide by the Side: Design of Group Activities that Promote Meaningful, Consequential Learning (2240 EB3)	New Faculty Career Development (2240 EB3)	New Faculty Career Development (2240 EB3)
How to introduce your students to Problem Solving and Troubleshooting Skills and help them transition to the workplace (1007 EB1)	Unit Operations Laboratory (1010 EB1)	What are NSF Broader Impacts? How does this fit into teaching and outreach? (1010 EB1)
Teaching Across the Chemical Engineering Curriculum with Food! (2236 EB3)	SAFEZONE: Creating an Inclusive and Supportive Environment (1011 EB1)	Digital Tools Inside and Outside the Classroom for Enhanced Student Learning (2232 EB3)
Incorporating Active Learning into Chemical Engineering Courses – Practical Tips and Techniques (1011 EB1)	Integrating Community-, Industry-, Research-, and Entrepreneurial Design Challenges into Core and Early Chemical Engineering Coursework to Enhance Diversity (2236 EB3)	
Learn Aspen Plus™ in 24 Hours (1005 EB1)	Using Interactive Molecular Simulations to Help Students Understand Thermo, Transport, and Kinetics (2220 EB3)	
Teaching Process and Product Design (1010 EB1)		

MONDAY JULY 31

TIME	ACTIVITY	LOCATION
7:00-7:50 am	Breakfast Shuttles leave Wolf Village every 15 minutes starting at 6:45am. Last pickup is 8:15am.	On the Oval (continental buffet)
8:00 am-9:20 am	Summer School Plenary Session Dr. Nicholas Peppas, University of Texas at Austin	Hunt Library Auditorium
9:30 am-12:00 pm	Session 4 Parallel Workshop Sessions	See below
12:00 pm- 12:50 pm	Lunch	On the Oval
1:00 pm-2:30 pm	Session 5 Parallel Workshop Sessions	See below
2:45 pm-4:15 pm	Session 6 Parallel Workshop Sessions	See below
4:30 pm-5:30 pm	Networking Event 1 Shuttle circles between Hunt and Wolf Village, leaving Hunt at 4:30, 5:00, and 5:30pm.	See page 56
5:30 pm-7:00 pm	Dinner Shuttles circle between Hunt and Wolf Village, leaving Hunt at 5:30, 5:45, 6:00, and 6:15pm. Shuttles circle to Hunt/Wolf/Talley, leaving Hunt at 6:45, 7:00, and 7:15pm.	On the Oval
7:00 pm-7:30 pm	Free Time	
7:30 pm-9:30 pm	Mixer and Poster Session Shuttles will circle between Wolf Village and Talley from 7:00 until 9:45pm.	Talley Student Center Ballroom

Parallel Workshop Sessions

9:30 am – 12:00 pm	1:00– 2:30 pm	2:45 – 4:15 pm
How to introduce your students to Problem Solving and Troubleshooting Skills and help them transition to the workplace (1007 EB1)	What are NSF Broader Impacts? How does this fit into teaching and outreach? (1010 EB1)	Digital Tools Inside and Outside the Classroom for Enhanced Student Learning (2240 EB3)
Hands-on Chemical Engineering Design Projects for use in Outreach Programs and Undergraduate Classes (2232 EB3)	Teaching Modules for Integrating Biological Systems Models into the Undergraduate Curriculum (2220 EB3)	Teaching Modules for Integrating Biological Systems Models into the Undergraduate Curriculum (2220 EB3)
Applied Statistics and Data Analytics (1011 EB1)	Chemical Engineering Course Packages (1005 EB1)	Impactful TA Mentoring/Training (2236 EB3)
Teaching Across the Chemical Engineering Curriculum with Food! (2236 EB3)	Navigating the Curriculum and Guiding Student Chapters: Academic and Student Group Advising (2236 EB3)	Breathing Life and Relevance into Chemical Engineering Thermodynamics (BTEC 135)
From Sage on the Stage to Guide by the Side: Design of Group Activities that Promote Meaningful, Consequential Learning (2240 EB3)	Integrating Practical Examples in the Classroom (1007 EB1)	You Too Can Flip! Overcoming Activation Energy Barriers for Active Learning in ChE courses (1007 EB1)
Using Arduino Microcontrollers in Your Classroom or Laboratory (2108 EB3)	New Faculty Career Development (2240 EB3)	Groups, Teams and Conflicts (1005 EB1)
Taking it to the Next Level...Game-Based Learning in ChE (1010 EB1)	Incorporating Active Learning into Chemical Engineering Courses – Practical Tips and Techniques (1011 EB1)	
Learn Aspen Plus™ in 24 Hours (1005 EB1)	Methods and Tools to Help Students Learn Core ChE Concepts (2232 EB3)	

TUESDAY AUGUST 1

TIME	ACTIVITY	LOCATION
7:00-7:50 am	Breakfast Shuttles leave Wolf Village every 15 minutes starting at 6:45am. Last pickup is 8:15am.	On the Oval
8:00 am-9:30 am	Industry Plenary Session Buddy Lang, Chevron; Tony Go, ExxonMobil	Hunt Library Auditorium
9:45 am-12:00 pm	Industry Session 1 Parallel Workshop Sessions	See below
12:00 pm- 12:50 pm	Lunch	On the Oval
1:00 pm-2:30 pm	Industry Session 2 Parallel Workshop Sessions	See below
2:30 pm-4:15 pm	EXPO	Duke Energy Hall, Hunt Library
4:30 pm-5:30 pm	Networking Event 2 Shuttle circles between Hunt and Wolf Village, leaving Hunt at 4:30, 5:00, and 5:30pm.	See page 56
5:30 pm-7:00 pm	Dinner Shuttles circle between Hunt and Wolf Village, leaving Hunt at 5:30, 5:45, 6:00, and 6:15pm. Shuttles circle to Hunt/Wolf/Talley, leaving Hunt at 6:45, 7:00, and 7:15pm.	On the Oval
7:00 pm-7:30 pm	Free Time	
7:30 pm-9:30 pm	Mixer and Poster Session Shuttles will circle between Wolf Village and Talley from 7:00 until 9:45pm.	Talley Student Center Ballroom

Parallel Workshop Sessions

9:45 – 12:00	1 – 2:30 pm
Developing Successful Collaborative Research with Industry (Hunt Library Auditorium)	Developing Successful Collaborative Research with Industry (Hunt Library Auditorium)
The Application of the Mass and Energy Balance in Preparing Students for Industrial Assignments (1011 EB1)	The Application of the Mass and Energy Balance in Preparing Students for Industrial Assignments (1011 EB1)
Incorporating Dynamic Simulation into Chemical Engineering Curricula (1007 EB1)	Insights from Industry: Vendors Describe Industrial Equipment and Key Engineering Concepts (1007 EB1)

EXPO Presenters

Chevron	Lang
ExxonMobil	Go
International Paper	Anderson, Brown, Rogers, Tucker
zyBooks	Fakhrabadi
Simulation Solutions	Glaser
Thierry Plasma	Osenga
Wiley	Fowley
Endress+Hauser	Mallon
EMCOR-Bahnson	Avila
Pearson	Drysdale
GF Piping Systems	Parker
Chemical Engineering Division of ASEE	Vogel
Education Division of AIChE	Bayles, Liberatore
Computer Aids for Chemical Engineering (CACHE)	Henson, Hesketh
Low-Cost Desktop Learning Modules to Transform Undergraduate Classes	Van Wie, Beheshti Pour, Wu
Using Interactive Molecular Simulations to Help Students Understand Thermo, Transport, and Kinetics	Kofke, Schultz
Academic and Student Group Advising	Ford
Using Arduino Microcontrollers in Your Classroom or Laboratory	Butterfield, Branch
Integrating Molecular Simulation Tools into the Chemical Engineering Curriculum with User Friendly and Easily Accessible Software	Getman
Chemical Engineering Course Packages	Falconer, McDaniel
Hands-on Chemical Engineering Design Projects for use in Outreach Programs and Undergraduate Classes	Bayles, High
Application of Numerical Problem Solving in CHEG Coursework	Cutlip, Hesketh
Teaching Across the Chemical Engineering Curriculum with Food!	Piergiovanni, Vigeant
Methods and Tools to Help Students Learn Core ChE Concepts	Koretsky, Ekstedt, Vigeant
Learn Aspen Plus™ in 24 Hours	Adams, Eden
Incorporating Dynamic Simulation into Chemical Engineering Curricula	Hedengren, Badgwell
Putting Chemistry in ChE Classes	Westmoreland
LabVIEW and Data Acquisition as a Problem-Solving and Design Tool in Chemical Engineering	Martin, Virnelson

WEDNESDAY AUGUST 2

TIME	ACTIVITY	LOCATION
7:00-7:50 am	Breakfast Shuttles leave Wolf Village every 15 minutes starting at 6:45AM. Last pickup is 8:15AM.	On the Oval
8:00 am-9:30 am	National Science Foundation Plenary	Hunt Library Auditorium
9:30 am-12:00 am	Session 7 Parallel Workshop Sessions	See below
12:00 pm- 12:50 pm	Lunch	On the Oval
1:00 pm-2:30 pm	Session 8 Parallel Workshop Sessions	See below
2:45 pm-4:15 pm	Session 9 Parallel Workshop Sessions	See below
4:30 pm-6:00 pm	Free Time Shuttles from Hunt to Wolf Village at 4:30, 4:35, 5:00, 5:05pm. Shuttles from Wolf/Talley at 5:15 and 5:50pm.	
6:00 pm-8:00 pm	Group photo on the NCSU seal in Talley at 5:55pm. Banquet begins at 6pm. Shuttle circles between Talley and Wolf until 8:45pm	Talley Student Center Ballroom
8:00 pm	Free Time	

Parallel Workshop Sessions

9:30 am – 12:00 pm	1:00 – 2:30 pm	2:45 – 4:15 pm
Sustainable Design of Industrial Processes (1005 EB1)	Scale Up: Tools and Tips for Teaching a Large Class (2240 EB3)	Groups, Teams and Conflicts (1005 EB1)
Applied Statistics and Data Analytics (1011 EB1)	Unit Operations Laboratory (1010 EB1)	Engaging students in the 21st Century: Using YouTube to develop course content (1011 EB1)
Methods and Tools to Help Students Learn Core ChE Concepts (2232 EB3)	Chemical Engineering Course Packages (1011 EB1)	Impactful TA Mentoring/Training (123 BTEC)
Putting Chemistry in ChE Classes (1007 EB1)	Students Are People Too – Tips on Advising (1005 EB1)	Navigating the Curriculum and Guiding Student Chapters: Academic and Student Group Advising (2232 EB3)
Application of Numerical Problem Solving in CHEG Coursework (2240 EB3)	SAFEZONE: Creating an Inclusive and Supportive Environment (2232 EB3)	Integrating Practical Examples in the Classroom (1007 EB1)
LabVIEW and Data Acquisition as a Problem-Solving and Design Tool in Chemical Engineering (2108 EB3)	What are NSF Broader Impacts? How does this fit into teaching and outreach? (1007 EB1)	You Too Can Flip! Overcoming Activation Energy Barriers for Active Learning in ChE courses (2240 EB3)
Updating the Process Controls and Dynamics Course for the 21st Century (2220 EB3)	Integrating Community-, Industry-, Research-, and Entrepreneurial Design Challenges into Core and Early Chemical Engineering Coursework to Enhance Diversity (2236 EB3)	
Teaching Process and Product Design (1010 EB1)	Using Interactive Molecular Simulations to Help Students Understand Thermo, Transport, and Kinetics (2220 EB3)	

THURSDAY AUGUST 3

TIME	ACTIVITY	LOCATION
7:00-8:20 am	Breakfast Wolf Village checkout from 6am – 10am. Bring your luggage on the shuttle to Hunt Library's Duke Energy Hall, where it can be stored until your departure. Shuttles leave Wolf Village every 15 minutes starting at 6:45am. Last pickup is 8:30am.	On the Oval
8:30 am-9:20 am	Reflection and Assessment Session. Recognize winners of the passport networking event.	Hunt Library Auditorium
9:30 am-12:00 pm	Session 10 Parallel Workshop Sessions	See below
12:00 pm- 1:00 pm	Lunch	On the Oval
	Departure Shuttles run between Hunt Library and RDU. Schedules will be posted based on participant departure times. The Duke Energy Hall and the atrium of EB1 will be available all afternoon as a lounge area.	

Parallel Workshop Sessions

9:30 am– 12:00 pm
Taking it to the Next Level...Game-Based Learning in ChE (1010 EB1)
Sustainable Design of Industrial Processes: Integration of Sustainability into the Curriculum (1007 EB1)
Application of Numerical Problem Solving in CHEG Coursework (1011 EB1)
LabVIEW and Data Acquisition as a Problem-Solving and Design Tool in Chemical Engineering (2108 EB3)
Updating the Process Controls and Dynamics Course for the 21st Century (2240 EB3)