Sugar End – 2020

**Sunday, July 5**
Registration at DoubleTree – Denver Stapleton

**Monday, July 6**
8:00  Orientation by Rick Mont  
8:45  SX-1 Opening Lecture by Courtney Gaine  
10:00 Break  
10:15 SX-1 Opening Lecture by Courtney Gaine  
Noon Lunch  
1:30  SX-2 Overview of the Sugar End Operations by Jim Gillingham  
2:45  Break  
3:00  SX-2 Overview of the Sugar End Operations by Jim Gillingham  
4:00  End

**Tuesday, July 7**
8:00  S-1 Evaporators and Steam Economy by Jim Gillingham  
9:15  Break  
9:30  S-1 Evaporators and Steam Economy by Jim Gillingham  
10:45 Break  
11:00 S-1 Evaporators and Steam Economy by Jim Gillingham  
noon Lunch  
1:30  S-1 Evaporators and Steam Economy by Jim Gillingham  
2:45  Break  
3:00  S-1 Evaporators and Steam Economy by Jim Gillingham  
4:00  End

**Wednesday, July 8**
8:00  S-1 Exam and Discussion  
9:00  Break  
9:15  S-2 Crystal Formation and Growth by Jim Gillingham  
10:45 Break  
11:00 S-2 Crystal Formation and Growth by Jim Gillingham  
noon Lunch  
1:30  S-2 Crystal Formation and Growth by Jim Gillingham  
2:45  Break  
3:00  S-2 Crystal Formation and Growth by Jim Gillingham  
4:00  End

**First Week Schedule**

**Thursday, July 9**
8:00  S-2 Exam and Discussion  
9:00  Break  
9:15  S-3 Crystallization, Process and Systems by Chris Rhoten  
10:45 Break  
11:00 S-3 Crystallization, Process and Systems by Chris Rhoten  
12:00 Lunch  
1:30  S-3 Crystallization, Process and Systems by Chris Rhoten  
2:45  Break  
3:00  S-3 Crystallization, Process and Systems by Chris Rhoten  
4:00  End

**Friday, July 10**
8:00  S-3 Exam and Discussion  
9:00  Break  
9:15  S-4 Centrifugals and Their Operations by Ray Bode  
10:45 Break  
11:00 S-4 Centrifugals and Their Operations by Ray Bode  
noon Lunch  
1:30  S-5 The Control Laboratory by Rich Reisig  
2:45  Break  
3:00  S-5 The Control Laboratory by Rich Reisig  
4:00  End

**Saturday, July 11**
No Events Scheduled

**Sunday, July 12**
No Events Scheduled
McGinnis Institute of Beet Sugar Technology

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**Monday, July 13**

8:00 S-4 Exam and Discussion
8:40 S-5 Exam and Discussion
9:15 Break
9:30 S-6 Fundamentals of Sucrose Recovery Optim. by Nick Klein
10:45 Break
11:00 S-6 Fundamentals of Sucrose Recovery Optim. by Nick Klein
noon Lunch
1:30 S-6 Fundamentals of Sucrose Recovery Optim. by Nick Klein
2:45 Break
3:00 S-6 Fundamentals of Sucrose Recovery Optim. by Nick Klein
4:00 End

**Tuesday, July 14**

8:00 S-6 Exam and Discussion
9:00 Break
9:15 S-7 Basic Control Systems by Brent Muehlberg
10:45 Break
11:00 S-7 Basic Control Systems by Brent Muehlberg
noon Lunch
1:30 S-7 Basic Control Systems by Brent Muehlberg
2:45 Break
3:00 S-7 Basic Control Systems by Brent Muehlberg
4:00 End

**Wednesday, July 15**

8:00 S-7 Basic Control Systems by Brent Muehlberg
9:15 Break
9:30 S-7 Basic Control Systems by Brent Muehlberg
10:45 Break
11:00 S-7 Basic Control Systems by Brent Muehlberg
noon Lunch
1:30 S-8 Molasses Treatment Processes by Trent Holcomb
2:45 Break
3:00 S-8 Molasses Treatment Processes by Trent Holcomb
4:00 End

**Thursday, July 16**

8:00 S-7 Exam and Discussion
9:00 Break
9:15 S-8 Exam and Discussion
10:15 Break
10:30 S-9 Granulation, Packaging, Screening and Storage, by Kelly Malone
noon Lunch
1:30 S-9 Granulation, Packaging, Screening and Storage, by TBD
2:45 Break
3:00 S-10 Sugar Quality and Food Safety by Kelly Malone
4:00 End
6:00 Graduation Dinner

**Friday, July 17**

7:00 S-9 Exam and Discussion
7:45 Break
8:00 S-10 Sugar Quality and Food Safety by Kelly Malone
9:30 Break
9:40 S-10 Sugar Quality and Food Safety by Kelly Malone
noon End of Session