

Master Brewers Brewery Packaging Technology Course

April 23–May 5, 2017 • University of Wisconsin | Madison, Wisconsin, U.S.A.

WEEK ONE Sunday, April 23 – Saturday, April 29, 2017

Course Director: Kevin Finger, *AB Fairfield (retired)*

Sunday, April 23

All day Students pick up course information packets when checking in at the front desk.
6:15 p.m. **Reception**—Welcome Gathering for Students and Faculty
Lowell Center Main Floor Reception Area
7:00 p.m. **Dinner and Orientation**—Lowell Center Dining Hall (Casual Attire)
Kevin Finger, Course Director

Monday, April 24

8:00 a.m. – 8:30 a.m. **Pyle Center, Room 335**
Class Introduction, Case Study Team Assignments
Kevin Finger, Course Director
8:30 a.m. – 9:45 a.m. **PET Bottles for Beer Packaging**
Frank Embs, Indorama Ventures
10:00 a.m. – 12:00 p.m. **Glass Bottle Manufacturing and Quality Control**
Evan O'Connor, Longhorn Glass
12:00 p.m. – 1:00 p.m. Lunch at the Pyle Center
1:00 p.m. – 2:15 p.m. **Two-Piece Aluminum Can and End Manufacturing**
Bill Forsythe, Continental Can & Reynolds Metals (retired)
2:30 p.m. – 4:30 p.m. **Can Double-Seam Technology**
Bill Forsythe, Continental Can & Reynolds Metals (retired)
4:45 p.m. – 5:00 p.m. **Case Study Set-up**
Kevin Finger, Course Director

Tuesday, April 25

8:00 a.m. – 12:00 p.m. **Pyle Center, Room 335**
Beer Filling Technology
Randy Dillman, KHS, USA
12:00 p.m. – 1:00 p.m. Lunch at the Pyle Center
1:00 p.m. – 2:00 p.m. **Microfiltration of Beer**
Conor O'Hara, 3M
2:15 p.m. – 3:30 p.m. **Small Scale Packaging Systems**
Kevin Finger, Course Director
3:45 p.m. – 5:00 p.m. **Bottle Crown Manufacturing and Crowning Operations**
Juan Carlos Gomez, Crown Famosa

Wednesday, April 26

8:00 a.m. – 10:15 a.m. **Pyle Center, Room 335**
Single-Valve Keg Packaging
Andy Brewer, Petainer Manufacturing USA
10:30 a.m. – 12:15 p.m. **Bottle Labels**
Roman Artz, Inland Packaging
12:15 p.m. – 1:00 p.m. Lunch at the Pyle Center
1:00 p.m. – 3:30 p.m. **Labeling Operations and Troubleshooting**
Frank Kaczmarek, Kronos, Inc.
3:45 p.m. – 5:15 p.m. **Package Inspection in the Brewing Industry**
Jeff DeVoy, Heuft, USA

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Thursday, April 27

7:30 a.m.

7:30 a.m. – 9:15 a.m.

9:30 a.m. – 11:30 p.m.

11:45 a.m. – 1:00 p.m.

1:15 p.m. – 1:45 p.m.

2:00 p.m. – 4:00 p.m.

4:00 p.m. – 5:00 p.m.

5:00 p.m. – 5:30 p.m.

5:30 p.m. – 7:15 p.m.

7:30 p.m.

Field Trip

Bus Departs from the Lowell Center for Kronos, Inc.

Bus Trip to Kronos, Inc.

Tour of Kronos, Inc.

Lunch at Culvers in Franklin, WI

Bus trip to MillerCoors Milwaukee Brewery Packaging Center

Tour of the MillerCoors Milwaukee Brewery Packaging Center

Refreshments and Q&A Discussion at MillerCoors Stables

Shopping at the Miller Store

Bus trip back to Lowell Center

Dinner provided at Lowell Center

Friday, April 28

8:00 a.m. – 12:00 p.m.

12:00 p.m. – 1:00 p.m.

1:00 p.m. – 5:00 p.m.

Pyle Center, Room 335

General Principles for Packaging Line Design and Control

Robert Nantel, Gebo Cermex Canada Inc.

Lunch at the Pyle Center

Package Department Maintenance Best Practices

Greg Harris, MillerCoors & Michael Du Mont, DuMont Consulting, LLC

Saturday, April 29

8:00 a.m. – 10:30 p.m.

10:45 a.m. – 12:00 p.m.

12:00 p.m. – 1:00 p.m.

1:00 p.m. – 3:00 p.m.

3:15 p.m. – 5:15 p.m.

Pyle Center, Room 335

Packaging Microbiology

William Maca, HWM Yeast Solutions LLC

Sleeved Cans

Peter Parker, Verst Group Logistics

Lunch at the Pyle Center

Case Packing and Uncasing

Michael Woehl, Standard-Knapp, Inc.

Brewery Safety

Mark Jaeggi, Sabhailteacht Solutions

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WEEK TWO Sunday, April 30 – Saturday, April 29, 2017

Course Director: Kevin Finger, *AB Fairfield (retired)*

Sunday, April 30

Free Day! No Scheduled Activities

Monday, May 1

8:00 a.m. – 12:00 p.m.

Pyle Center, Room 335

Principles of Packaging Department Cleaning and Water Treatment

Jim Diamantis & Barry Owings, Zee Company

12:00 p.m. – 1:00 p.m.

Lunch at the Pyle Center

1:00 p.m. – 3:30 p.m.

Bottle Washing, Tunnel Pasteurization/Pasteurizer Maintenance

Carlos Alarcon & Dave Duff, BW Container Systems

3:45 p.m. – 5:00 p.m.

Palletizing & Depalletizing Operations

Dave Meyer, BW Container Systems

5:15 p.m. – 7:00 p.m.

Tour of the UW Pilot Brewery (optional)

Jon Roll, UW Madison

Tuesday, May 2

8:00 a.m. – 9:45 a.m.

Pyle Center, Room 335

Overview of Multipack Paperboard Production and Multipackaging Machinery

Graham Hand, Graphic Packaging International

10:00 a.m. – 11:30 a.m.

Operations Management Overview

Kevin Finger, Course Director

11:30 a.m. – 12:15 p.m.

Lunch at the Pyle Center

12:15 p.m. – 12:30 p.m.

Load on the Bus at the Pyle Center

12:30 p.m. – 1:30 p.m.

Bus Trip to the New Glarus Brewery in New Glarus, Wisconsin

1:45 p.m. – 3:00 p.m.

Tour of the New Glarus Brewery

3:00 p.m. – 3:45 p.m.

Refreshments & Networking

4:00 p.m. – 5:00 p.m.

Return Trip to the Lowell Center

Wednesday, May 3

8:00 a.m. – 10:00 a.m.

Pyle Center, Room 335

Conveyors—Types, Uses, Maintenance, and Troubleshooting

Chuck McGrady, Rexnord

10:15 a.m. – 12:00 p.m.

Maintaining Product Quality and Uniformity

Gary Nicholas, Nicholas Brewing Projects

12:00 p.m. – 1:00 p.m.

Lunch at the Pyle Center

1:00 p.m. – 3:00 p.m.

Modern Package Coding Technology

Brian Burke, Videojet Technologies, Inc.

3:15 p.m. – 5:15 p.m.

Packaging Quality Assurance

Mike Lachut & Joe Bustos, North American Breweries

Thursday, May 4

8:00 a.m. – 12:00 p.m.

Pyle Center, Room 335

Student Team Presentations to the Class

Team 1, Team 2, Team 3, Team 4, Team 5, Team 6

Packaging Case Study Review Panel

Panel members: Mike Lachut (North American Breweries), Joe Bustos (North American Breweries), Kevin Finger (Course Director)

12:00 p.m. – 1:00 p.m.

Lunch at the Pyle Center

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- 1:00 p.m. – 2:30 p.m. **Food Safety and HACCP**
Gary Nicholas, Nicholas Brewing Projects
- 2:45 p.m. – 5:00 p.m. **Beer Flavor Training and Effects of Packaging Materials on Beer Flavor**
Roy Desrochers, GEI Consultants, Inc.
- 6:30 p.m. – 7:00 p.m. **Reception**—Beer Room, Lowell Center, Room 118
7:00 p.m. **Dinner**—Lowell Main Dining Hall (Informal Attire)
Closing Remarks and Awarding of Certificates

Friday, May 5

- 6:30 a.m. – 9:00 a.m. Breakfast and Hotel Check Out by 11:00 a.m.
(Note: The Lowell Center Will Store Your Luggage If You Need to Check Out Early)
- 9:00 a.m. – 11:00 a.m. **IBD General Certificate (Packaging) Exam**—Pyle Center, Room DE314