

Strachan Thin Gauge Thermoforming Workshop Outlines
2018 SPE Thermoforming Conference
Monday, September 24
Fort Worth Convention Center, Fort Worth, Texas

8 a.m.-12 Noon

Thermoforming Fundamentals:

- Raw Materials for Thermoforming
 - Proper use of Re grind, Mineral Fill & other additives
 - Multilayer sheet
 - Maintaining consistency for higher production efficiencies

- Heating the Sheet
 - Correct Oven Setup procedures
 - Pre-Heating and Extrusion Inline Setup

- Forming the Part
 - Machinery Configurations (Advantages and Disadvantages of each platform)
 - Forming Techniques
 - 3rd Motion vs Fixed Clamp
 - Vacuum and Form Air Pressure requirements

- Cooling the Part
 - Mold Cooling Systems
 - Maximizing cooling time available

- Trimming and Handling the Part
 - Trimming Configurations and Techniques
 - Steel Rule and Forged Knives
 - Match Metal Punch & Die systems
 - Shimming (Make up processes) and Nicking
 - Proper Trimming Setup procedures
 - Heating the Knives
 - Angel hairs and other issues
 - Parts Stacking and Handling Systems

Noon-1 p.m.: **Lunch Break**

1 p.m.-5 p.m.

Thermoforming Beyond the Limits:

- Advanced Forming Techniques
 - Latest developments in Thin Gage Thermoforming
 - Pre-Stretching Techniques
- In-Line Extrusion vs. Thermoforming from Roll Stock
 - Machinery Configurations
 - Advantages and Disadvantages of Inline Extrusion
 - Set-up Procedures for In-Line Extrusion
- Defective Parts (Group Discussion)
 - Parts will be handed out for in depth discussions
- Open Session for questions

Workshops are included with full conference registration only. Start times are subject to change.

v. March 7, 2018