

# GUIDED WAVE METHOD DEVELOPMENT TRAINING

## Tuesday

Course Starts 8:30 AM

– All Students

**Introduction: 8:30 to 10:00**

**Company Profile & History -Dr. Todd**

**NIR Primer—Dr. Todd**

**BREAK and Facility Tour: 10:00 to 10:30**

**Spectroscopy Overview: 10:30 to 12:00**

- Mike

- What NIR Can Do
- Beer's Law and Linearity
- Spectral Parameters
- Range & Path
- Sample Sets
- Temperature & Flow concerns
- Fibers Types
- Probe Placement
- Possible Noise & Error Sources
- Interferences
- General Guidance
- Analyzer Software Operation with Class-PA

**LUNCH: Noon to 1:00 PM**

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- Method Development Students ONLY

**Class PA and Model Studio 1:00 to 4:30**

– Mike

- Project Approach Overview
- Data Collection & Selection
- Selecting Pretreatments, Wavelengths
- Acquiring Lab Data by Primary Method
- Work in Class Studio and Model Studio – Hands On Examples

**BREAK: 2:00 to 2:15**

**Tuesday End: 4:30 PM**

## Wednesday

Course Starts 8:30 AM

**Chemometrics & The Unscrambler:**

**8:30 to 12:00 - Susan**

- Overview
- Calibration Methods
- Validation
- ASTM

**BREAK: 10:00 to 10:15**

- Examples Working With Data Sets
- Model Evaluation Techniques
- What to Expect of the Model When Put On Line

**LUNCH: Noon to 1:00 PM**

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**Unscrambler: 1:00 to 4:30 - Susan**

- **Model creation**

**BREAK: 2:00 to 2:15**

- Hands on Examples

**BREAK: 3:15 to 3:30**

- Questions and Answers, The Unscrambler and Chemometrics

**Wednesday End: 4:30 PM**

**DINNER: 6:30 PM**

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Location to be announced

## Thursday

Course Starts 8:30 AM

**Model Examples: 8:30 to 12:00 – Susan**

- Lab - Sampling Problems
- Prediction Script Review
- How To Put Your Model On Line

**BREAK: 10:00 to 10:15**

**LUNCH: Noon to 1:00 PM**

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**Analyzer Software: 1:00 to 4:00 - Susan**

- Hands On Analyzer Start-Up
- Set-up Considerations
- Use of Client Software

**BREAK: 2:00 to 2:15**

- File Maintenance

**BREAK: 3:15 to 3:30**

- Complex Script Issues
- Question and Answer
- Wrap-up Discussion

**Thursday Course Ends: 4:30 PM**



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