

# Wine Chemistry Workshop

March 22 & 23, 2014

Sponsored by the VESTA National Center  
and Kent State University Ashtabula

Saturday – March 22, 2014		
TIME	ACTIVITY	PRESENTER
8:30 - 8:45 am	Registration	
8:45 - 9:00 am	Welcome and Overview Chemistry Lab	
9:00 - 12:00 Noon	<b>Chemistry Session 1</b> <i>Malolactic Fermentation: Monitoring by Paper Chromatography</i>  <i>Soluble Solids: Determination by Refractometry</i>  <i>Soluble Solids: Sugar per Berry by Refractometry</i>	Dr. Barry Gump VESTA Instructor
12:00 - 1:00 pm	Lunch Break	Lunch Provided
1:00 - 3:00 pm	<b>Chemistry Session 2</b> <i>Hydrogen Ion Concentration: pH Meter Measurement</i>  <i>Titrateable Acidity: Titrametric Procedure &amp; Nitrogen: Estimate of YAN by Formol Titration</i>  <i>Sugars: Reducing Sugar by Visual Rapid Estimation</i>	Dr. Barry Gump VESTA Instructor
3:00 – 3:15 pm	Break	
3:15 - 5:00 pm	<i>Continue pH, TA, N<sub>2</sub> titrations</i>  <i>Discuss methods of analysis for Ethanol, Sulfur Dioxide, and Volatile Acidity</i>	Dr. Barry Gump VESTA instructor
5:00 - 6:00 pm	Break	
6:00 - 8:00 pm	Dinner	

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Sunday – March 23, 2014		
TIME	ACTIVITY	PRESENTER
7:45 - 8:00 am	Coffee	
8:00 - 10:00 am	<b>Chemistry Session 3</b>  <i>Ethanol: Ebulliometric Analysis</i>  <i>Sulfur Dioxide: Aeration Oxidation Distillation and Titration Procedure</i>	Dr. Barry Gump VESTA Instructor
10:00 - 10:15 am	Break	
10:15 am - 11:45 pm	<b>Chemistry Session 4</b>  <i>Sulfur Dioxide: Ripper Titration Procedure</i>  <i>Acetic Acid: Steam Distillation of Volatile Acid Using Cash Still</i>	Dr. Barry Gump VESTA Instructor
11:45 – 12:00 pm	Evaluation and Dismissal	

**Lodging:**

The Lodge & Conference Center at Geneva-on-the-Lake

4888 North Broadway

Geneva-on-the-Lake, OH 44041

440-415-1505 - Direct Line

440-466-7100 ("0") - Front Desk (open 24 hours)

[www.thelodgeatgeneva.com](http://www.thelodgeatgeneva.com)

Discount for the VESTA Wine Workshop Room Block, 3/21-3/23/14:

Deluxe king, deluxe double and standard double rooms - **\$99.00+tax per night**

Premium king and premium double rooms - **\$109.00+tax per night**

**Workshop Location:**

Room 245 Health and Sciences Building

Kent State University Ashtabula

3300 Lake Road West

Ashtabula, Ohio 44004

**Registration**

Fee is \$175 and will cover continental breakfasts on both days and lunch on Saturday.

Registration will be available online – web address will be available soon.