

Understanding and Preventing Freeze Damage in Vineyards

December 5 & 6, 2007

University of Missouri; Institute for Continental Climate Viticulture and Enology
Columbia, Missouri

Many grape producers in the Midwestern, eastern, and southern United States experienced widespread frost or freeze injury in early 2007. To aid producers in understanding what can be done to prevent losses to weather events of this type in the future, the Institute for Continental Climate Viticulture and Enology (ICCVE) at the University of Missouri will host a one and one-half day workshop on the subject on December 5 and 6, 2007. The workshop location will be the Memorial Union on the University of Missouri campus in Columbia, Missouri.

Dr. Barclay Poling, Professor of Horticulture at North Carolina State University and editor of the newly published North Carolina Winegrape Grower's Guide, will be the keynote speaker for this workshop. Dr. Poling will present an overview of active freeze protection methods, as well as a discussion of the use of overhead sprinkler systems for freeze protection. Other nationally recognized experts on grapevine frost/freeze injury and protection at this workshop will include Dr. Martin Goffinet of Cornell University, Dr. Imed Dami of Ohio State University, Dr. David Zoldoske of California State University-Fresno, and Mr. Kevin Ker of Brock University in Ontario, Canada. Dr. Keith Striegler, Director and Viticulture Program Leader for the ICCVE, Mr. Andy Allen, Extension Viticulturist for the University of Missouri, and Missouri State Climatologist Pat Guinan will also make valuable contributions to the program. Please see the attached workshop agenda for a complete listing of topics to be addressed.

- Cost: \$150 per person. Includes all workshop materials, one copy of the printed Proceedings, a Wednesday evening reception, a parking pass for on-campus parking, and break refreshments and lunch on both days.
- Lodging: a block of rooms has been reserved for the evenings of December 4 and 5 at the Holiday Inn Executive Center, which is conveniently located on the southwest corner of the intersection of I-70 and Stadium Boulevard (I-70 exit #124) in Columbia. The nightly rate is \$79.95 plus tax. This discounted rate is only available through November 20 – reservations placed after this date may be assessed a higher rate. Please make your own reservations by calling (573) 445-8531, and mention the code "FPW" to receive the discounted room rate.

Due to limited seating, attendance at the workshop will be limited to the first 165 registrants. To register for this event, please complete the attached registration form and return it to the address provided. Payment in the form of a check made payable to the ICCVE must accompany your registration form. You will receive confirmation of your registration, your parking passes and maps to the workshop location upon receipt of your registration form and payment. Workshop registrants wishing to cancel their reservations will receive a full refund if the request is made in writing and postmarked by November 5, 2007. Written cancellation requests postmarked between November 6 and November 21, 2007 will receive a 50% refund. Written cancellation requests received after November 21 cannot be honored.

This workshop will provide attendees with a thorough understanding of freeze injury in grapevines and the practices they can employ to combat it. Please direct any questions you may have regarding this event to Eli Bergmeier at bergmeiere@missouri.edu or (573) 882-8802. We hope grape growers will take advantage of this unique opportunity to learn from leaders in the field of frost protection. We look forward to seeing you in Columbia on December 5 and 6, 2007!

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University of Missouri-Columbia; Columbia, MO
Memorial Union; Mark Twain Room
December 5 & 6, 2007

Workshop Agenda

December 5, 2007

- 8:00 A.M.** **Registration opens**
- 9:00 A.M.** **Welcome and Introductions**
*Dr. R. Keith Striegler; Director, Institute for Continental Climate
Viticulture and Enology, University of Missouri-Columbia*
- 9:15 A.M.** **The Easter Freeze of 2007 – What Happened?**
*Dr. Patrick Guinan; Assistant Professor and State Climatologist,
University of Missouri-Columbia*
- 9:45 A.M.** **How Water Freezes in Plant Tissues**
*Dr. Imed Dami; Assistant Professor and Extension State Viticulturist,
Ohio State University*
- 10:30 A.M.** **Break**
- 10:45 A.M.** **Cold Injury and Recovery of Grapevine Tissue**
Dr. Martin Goffinet; Senior Research Associate, Cornell University
- 11:45 A.M.** **Lunch**
- 1:00 P.M.** **Passive Freeze Prevention Methods**
*Dr. R. Keith Striegler; Director, Institute for Continental Climate
Viticulture and Enology, University of Missouri-Columbia*
- 1:45 P.M.** **Overview of Active Freeze Protection Methods**
*Dr. Barclay Poling; Professor and Extension Small Fruit Specialist, North
Carolina State University*
- 2:45 P.M.** **Break**
- 3:00 P.M.** **Overhead Sprinkler Systems for Freeze Protection**
*Dr. Barclay Poling; Professor and Extension Small Fruit Specialist, North
Carolina State University*
- 4:00 P.M.** **Wind Machines for Freeze Protection**
Mr. Kevin Ker; Research Associate, Brock University
- 5:00 P.M.** **Conclude**
- 6:00 P.M.** **Reception at the Holiday Inn**
- 7:30 P.M.** **Dinner on your own**

December 6, 2007

- 8:00 A.M.** **The Components of an Effective Overhead Frost Protection System**
*Dr. David Zoldoske; Director, Center for Irrigation Technology,
California State University-Fresno*
- 8:45 A.M.** **Delaying Grapevine Bud Burst with Oils**
*Dr. Imed Dami; Assistant Professor and Extension State Viticulturist,
Ohio State University*

December 6, 2007; Continued

- 9:15 A.M.** **What we Learned from the Easter Freeze in the Mid-Atlantic Region**
Dr. Barclay Poling; Professor and Extension Small Fruit Specialist, North Carolina State University
- 9:45 A.M.** **What we Learned from the Easter Freeze in Missouri**
Andy Allen; Extension Viticulturist, Institute for Continental Climate Viticulture and Enology, University of Missouri-Columbia
- 10:15 A.M.** **Break**
- 10:30 A.M.** **Crop Insurance Options for Grape Producers**
RMA Representatives
- 11:15 A.M.** **Grower's Experiences with Crop Insurance – a Panel Discussion**
Gene Cowherd; Windymont Vineyards
Lynn Gay; Hindsville Farms
- 12:00 P.M.** **Lunch**
- 1:00 P.M.** **Adjourn**
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University of Missouri-Columbia; Columbia Missouri
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Registration Form

Name 1	Name 2	
Name 3	Name 4	
Total number of persons attending in your party =	X \$150 = \$	Amount Due
Company		
Mailing Address		
City	State	Zip
Telephone	Email	

- Please complete and return this form, along with your check made payable to the ICCVE for the amount due to:

University of Missouri-Columbia
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