

## Appendix F Cooperation and Institutional Units

### **Cornell University (Lead Institution)**

**Roles: Project Administration, Viticulture, Enology, and Marketing Research and Extension**

**Budget: \$1,550,238**

**Dr. Tim Martinson** (PD) will provide overall management of the project. He will attend appropriate workshops and meetings, contribute to and oversee data analysis and manuscript submission, and have prime responsibility for the dissemination of data and resources arising from the project. He will interact with the participants as outlined in the Management Plan. In addition, he will lead the data collection, analysis, and summary publications for the vineyard studies in Obj. 1a and participate in data collection and specific studies as outlined in Objs. 2a and 2b. He will also coordinate, with Eric Stafne (eXtension), the planning and production of outreach materials (Extension Timeline).

**Dr. Miguel Gomez** (Co-PI) will lead tasting room marketing studies (Obj.4a), serve on the Consumer/Marketing team, and assist on the project evaluation team.

**Mr. Kevin Iungerman** (Co-PI) will serve on the viticultural practices team and will manage vineyard trials in the Lake Champlain region (northeastern New York), including Obj. 1a and the grower demonstration plots in Obj. 2a, and be a member of the Extension team.

**Dr. Anna Katharine Mansfield** (Co-PI) will lead the Enology group, oversee fruit chemistry and winemaking (Obj. 1a); lead winemaking process trials (Obj. 3, all sub-objectives as listed); and organize project evaluation activities for Obj. 3 sub-objectives as listed in the evaluation logic model (p. 14-27).

**Mr. Chris Gerling** (Collaborator, biographical sketch attached) manages the vinification and brewing laboratory at Cornell, and will direct winemaking in support of Objs. 1a and 2a (supporting Martinson and Iungerman), winemaking trials (Obj. 3); serve on the Enology team; serve as the New York state extension leader on the Extension team; and participate in and plan extension workshops/publications.

### **Connecticut Agricultural Experiment Station**

**Roles: Viticulture Research and Extension**

**Budget: \$100,811**

**Dr. William Nail** (Co-PI) will provide the expertise, guidance, and supervision for a training, spacing, and pruning trial of St. Croix grapevines. Emphasis will be placed on vigor management and determining the best systems for sustainable maximum productivity of high quality fruit. He will provide enological guidance and supervision for microvinification of wines produced from the various treatments. He will also disseminate results from this project via direct contacts with grape growers and wine makers, grower and professional meetings, and electronic media.

## **Iowa State University**

**Roles: Project Evaluation, Viticulture, Enology, and Marketing Research and Extension**

**Budget: \$1,417,264**

**Dr. Lingshuang Cai** (Co-PI) will work collaboratively with Dr. Jacek Koziel as part of the Fruit Composition/Genetics team on Objs. 1a (sensory profiling) and 1b (volatile metabolites).

**Dr. Murli Dharmadhikari** (Co-PI) will have co-responsibility with Anna Katherine Mansfield for overseeing fruit chemistry and winemaking (Obj. 1a); lead winemaking process trials (Obj. 3, all sub-objectives as listed); lead Obj. 4d; serve on the Extension team as the state extension leader for Iowa; served on the Consumer/Marketing team; and serve as a liaison to Project Advisory Council.

**Dr. Paul Domoto** (Iowa State University) will lead the Viticulture Studies group, and have co-responsibility with **Dr. Gail Nonnecke** for research vineyard trials in Iowa (Obj. 1a and 2a, b), and organize project evaluation activities around Obj. 1a, and Obj. 2.

**Dr. Jacek Koziel** (Co-PI) will lead project work on Objs. 1a (sensory profiling) and 1b (volatile metabolites) and serve as a member of the Fruit Composition/Genetics team.

**Dr. Gail Nonnecke** (Co-PI) will co-lead research vineyard trials in Iowa (Objs. 1a, 2a, 2b) with Paul Domoto, advise and direct graduate students, and participate in project evaluation activities around Objs. 1a and 2b.

**Mr. Michael White** (Collaborator, biographical sketch attached) will work with vineyard extension demonstration projects (Objs. 1a, 2a, 2b) in collaboration with co-PI's Dharmadhikari, Domoto, and Nonnecke and serve on the Extension and Evaluation teams.

**Dr. Paul Lasley** (Co-PI) will lead and coordinate project evaluation. He will work with the evaluation team (p. 14) to provide overall project evaluation from project start to close through surveys of stakeholders and with subject-area team leaders to provide evaluations of each sub-objective.

## **Michigan State University**

**Roles: Viticulture and Marketing Research and Extension**

**Budget: \$582,725**

**Dr. Don Holecek** (Co-PI) will conduct consumer marketing studies (Obj. 4a), serve on the Consumer/Marketing team, and develop associated extension workshops and publications.

**Dr. Dan McCole** (Co-PI) will conduct wine tourism partnerships studies (Obj. 4b) in coordination with Co-PI Gustafson, serve on the Consumer/Marketing team, and develop associated extension workshops and publications.

**Dr. Paolo Sabbatini** (Co-PI) will conduct vineyard studies (Objs.1a and 2a), serve on the Vineyard Studies team, and serve as the Michigan extension leader on the extension team.

**North Dakota State University**  
**Roles: Viticulture Research and Extension**  
**Budget: \$135,923**

**Dr. Harlene Hatterman-Valenti** (Co-PI) will conduct vineyard studies (Objs. 1a and 2b), serve on Vineyard Studies team, and serve as North Dakota's state extension leader on the extension team.

**Oklahoma State University**  
**Roles: Extension (eXtension and Grape Community of Practice)**  
**Budget: \$33,493**

**Dr. Eric Stafne** (Co-PI) will lead extension efforts related to the eXtension grape Community of Practice (GCoP), including training and posting of project materials on the eXtension site and working with Co-PIs who are GCoP members to develop and edit project resource items for eXtension. He will co-lead, with Martinson, the extension team.

**South Dakota State University**  
**Roles: Viticulture Research and Extension**  
**Budget: \$484,973**

**Dr. Anne Fennell** (Co-PI) will lead the Fruit Composition/Genetics team (Objs. 1b and 1c), be responsible for vineyard trials in South Dakota (Obj. 1a), and organize project evaluation activities around Objs. 1b and 1c.

**Dr. Rhoda Burrows** (Co-PI) will conduct vineyard studies (Objs. 1a and 2b) in South Dakota, serve on the Vineyard Studies team, and serve as South Dakota's state extension leader on the extension team.

**Dr. Xijin Ge** (Co-PI) will provide data integration and statistical analysis associated with Obj. 1b and serve on the Fruit Composition/Genetics team.

**Dr. Dong He** (Co-PI) will provide data integration and statistical analysis associated with Obj. 1b and serve on the Fruit Composition/Genetics team.

**Dr. Jun Ye** (Co-PI) will provide statistical analysis associated with Obj. 1b and serve on the Fruit Composition/Genetics team.

**University of Illinois**  
**Roles: Viticulture Research and Extension**  
**Budget: \$86,289**

**Bill Shoemaker** (Co-PI) will conduct vineyard studies in Illinois (Obj. 1a), serve on the Vineyard Studies team; and serve as Illinois state extension leader on the extension team.

**University of Massachusetts- Amherst**  
**Roles: Viticulture Research and Extension**  
**Budget: \$16,936**

**Ms. Sonia Schloemann** (Co-PI) will conduct vineyard studies (Objs. 1a and 2b) in Massachusetts, serve on Vineyard Studies team; and serve as Massachusetts's state extension leader on the Extension team.

**University of Minnesota**  
**Roles: Breeding, Viticulture, Enology, and Marketing Research and Extension**  
**Budget: \$1,198,772**

**Dr. Jim Luby** (Co-PI) will serve as project co-director, and will advise and assist PD Martinson on project management, with special emphasis as Liaison to the Project Advisory Council (as team leader) and stakeholder groups. In the event that Martinson is unable to continue as PD, Luby will serve as acting PD, until Executive Committee appoints successor. He will direct research activities in Obj. 3c, and participate in Objs. 1a and b.

**Mr. Kent Gustafson** (Co-PI) will conduct wine tourism partnerships studies (Obj. 4b) in coordination with Co-PI McCole, serve on Consumer/Marketing team, and develop associated extension workshops and publications.

**Dr. Adrian Hegeman** (Co-PI) will work in collaboration with Fennell on the genomics and metabolomics project (Obj. 1b and 1c) and serve on the Fruit Composition/Genetics team.

**Dr. Carl Rosen** (Co-PI) will lead Obj. 2b, serve on the Vineyard Studies team, and develop associated extension workshops and publications.

**Dr. Zata Vickers** (Co-PI) will provide expertise in sensory evaluation in support of Obj. 1b and 1c, and serve on the Fruit Composition/Genetics team.

**Ms. Katie Cook** (Co-PI) supervises Minnesota research winemaking and extension, will collaborate with the Enology group and Mansfield and Dharmadhikari (Obj. 3) on winemaking trials, and collaborate with the Fruit Composition/Genetics group on Obj. 1b. She is state extension leader for Minnesota.

**Mr. Peter Hemstad** (Collaborator, biosketch attached) will perform breeding activities and vineyard evaluations in support of co-PI Luby for Obj. 1c.

**University of Nebraska**  
**Roles: Viticulture Research and Extension**  
**Budget: \$72,453**

**Dr. Paul Read** (Co-PI) will conduct vineyard studies in Nebraska (Objs. 1a and 2a), serve on Vineyard Studies team; and serve as the Nebraska state extension leader on the extension team.

**University of Vermont**

**Roles: Viticulture Research and Extension**

**Budget: \$117,686**

**Dr. Lorraine Berkett** (Co-PI) will conduct vineyard studies in Vermont (Objs. 1a and 2c), serve on Vineyard Studies team, and serve as the Vermont state extension leader on the extension team.

**University of Wisconsin**

**Roles: Viticulture Research and Extension**

**Budget: \$355,287**

**Dr. Rebecca Harbut** (Co-PI) will conduct vineyard studies and grower demonstrations in Wisconsin (Obj. 2a), serve on Vineyard Studies team, and serve as Wisconsin's state extension leader on the extension team.

**Dr. Patricia McManus** (Co-PI) will lead the pest and disease management sub-objective and collect project evaluation information for it (Obj. 2a), serve on Vineyard Studies team, and develop associated extension workshops and publications.

**Table 1.** Institutional participation and collaboration by sub-objective.

| Institutions                           | Co-Pis            | Objectives |    |    |    |    |    |    |    |    |    |    |    |    |      |
|--|-------------------|------------|----|----|----|----|----|----|----|----|----|----|----|----|------|
|  |                   | 1a         | 1b | 1c | 2a | 2b | 2c | 3a | 3b | 3c | 4a | 4b | 4c | 4d | Ext. |
| <b>Lead Institution:</b>               | Martinson (PM)    | X          |    |    | X  | X  |    |    |    |    |    |    |    |    | X    |
| <b>Cornell University</b>              | Gomez             |            |    |    |    |    |    |    |    |    | X  |    |    |    | X    |
| <b>\$1,550,238</b>                     | Iungerman         | X          |    |    | X  |    |    |    |    |    |    |    |    |    | X    |
|  | Mansfield         | X          |    |    |    |    |    | X  | X  | X  |    |    |    |    | X    |
| <b>Connecticut Agr. Expt. Station</b>  | Nail              | X          |    |    |    |    |    |    |    |    |    |    |    |    |      |
| <b>\$100,811</b>                       |                   |            |    |    |    |    |    |    |    |    |    |    |    |    |      |
| <b>Iowa State Univ.</b>                | Cai               |            | X  |    |    |    |    |    |    |    |    |    |    |    | X    |
| <b>\$1,417,264</b>                     | Dharmadhikari     | X          |    |    |    |    |    |    |    | X  |    |    |    | X  | X    |
|  | Domoto            | X          |    |    | X  | X  |    |    |    |    |    |    |    |    | X    |
|  | Koziel            |            | X  |    |    |    |    |    |    | X  |    |    |    |    | X    |
|  | Lasley            |            |    |    |    |    |    |    |    |    |    |    |    |    | X    |
|  | Nonneke           |            |    |    | X  | X  |    |    |    |    |    |    |    |    | X    |
| <b>Michigan State Univ.</b>            | Holecek           |            |    |    |    |    |    |    |    |    | X  |    |    |    | X    |
| <b>\$582,725</b>                       | McCole            |            |    |    |    |    |    |    |    |    |    | X  |    |    | X    |
|  | Sabbatini         | X          |    |    | X  |    |    |    |    |    |    |    |    |    | X    |
| <b>North Dakota State Univ.</b>        | Hatterman-Valenti | X          |    |    | X  | X  |    |    |    |    |    |    |    |    | X    |
| <b>\$135,923</b>                       |                   |            |    |    |    |    |    |    |    |    |    |    |    |    |      |
| <b>Oklahoma State Univ.</b>            | Stafne            |            |    |    |    |    |    |    |    |    |    |    |    |    | X    |
| <b>\$33,493</b>                        |                   |            |    |    |    |    |    |    |    |    |    |    |    |    |      |
| <b>South Dakota State Univ.</b>        | Burrows           | X          |    |    | X  | X  |    |    |    |    |    |    |    |    | X    |
| <b>\$484,973</b>                       | Fennell           | X          | X  | X  |    |    |    |    |    |    |    |    |    |    | X    |
|  | Ge                |            | X  |    |    |    |    |    |    |    |    |    |    |    | X    |
|  | He                |            | X  |    |    |    |    |    |    |    |    |    |    |    | X    |
|  | Ye                |            | X  |    |    |    |    |    |    |    |    |    |    |    | X    |
| <b>Univ. of Illinois</b>               | Shoemaker         |            |    |    | X  |    |    |    |    |    |    |    |    |    | X    |
| <b>\$86,289</b>                        |                   |            |    |    |    |    |    |    |    |    |    |    |    |    |      |
| <b>Univ. of Massachusetts- Amherst</b> | Schloemann        | X          |    |    |    |    |    |    |    |    |    |    |    |    | X    |
| <b>\$16,936</b>                        |                   |            |    |    |    |    |    |    |    |    |    |    |    |    |      |
| <b>Univ. of Minnesota</b>              | Cook              |            | X  | X  |    |    |    | X  |    | X  |    |    |    |    | X    |
| <b>\$1,198,772</b>                     | Gartner           |            |    |    |    |    |    |    |    |    | X  |    | X  | X  | X    |
|  | Gustafson         |            |    |    |    |    |    |    |    |    |    | X  |    |    | X    |
|  | Hegeman           |            | X  | X  |    |    |    |    |    |    |    |    |    |    | X    |
|  | Luby              |            |    | X  |    |    |    |    |    |    |    |    |    |    | X    |
|  | Rosen             |            |    |    |    | X  |    |    |    |    |    |    |    |    | X    |
|  | Vickers           |            | X  |    |    |    |    |    |    |    |    |    |    |    | X    |
| <b>University of Nebraska</b>          | Read              | X          |    |    | X  |    |    |    |    |    |    |    |    |    | X    |
| <b>\$72,453</b>                        |                   |            |    |    |    |    |    |    |    |    |    |    |    |    |      |
| <b>University of Vermont</b>           | Berkett           | X          |    |    |    |    | X  |    |    |    |    |    |    |    | X    |
| <b>\$117,686</b>                       |                   |            |    |    |    |    |    |    |    |    |    |    |    |    |      |
| <b>University of Wisconsin</b>         | Harbut            | X          |    |    | X  | X  |    |    |    |    |    |    |    |    | X    |
| <b>\$355,287</b>                       | McManus           |            |    |    |    |    | X  |    |    |    |    |    |    |    | X    |

## BIOGRAPHICAL SKETCH

Chris Gerling, Extension Associate

DEPARTMENT OF FOOD SCIENCE & TECHNOLOGY

CORNELL UNIVERSITY

***Mailing Address:***

Department of Food Science & Technology  
Cornell University, NYS Agricultural Experiment Station  
Geneva, NY 14456-0462

***Academic Rank:***

Extension Associate for Enology 2008-present  
100% extension  
Cornell University  
Geneva, NY

***Education:***

2007 –M.S. in Food Science, Department of Food Science & Technology,  
Cornell University, Ithaca, NY

1999 – B.S. in Communication, Cornell University, Ithaca, NY

***Society Affiliations:***

American Society of Enology and Viticulture  
American Society of Enology and Viticulture, Eastern Section

**Michael L. White, Viticulture Specialist**  
**ISU Extension**  
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**BIOGRAPHICAL SKETCH**

**Education and Training**

| <u>School</u>                                | <u>Graduated</u> | <u>Degree</u>  |
|--|------------------|----------------|
| IA Western Community College, Council Bluffs | 1975             | AS             |
| Iowa State University                        | 1978             | BS in Forestry |
| Iowa State University                        | 1989             | MA in Agronomy |

**Research and Professional Experience**

| <u>Employer</u>   | <u>Position</u>        | <u>Dates</u>   |
|---|------------------------|----------------|
| ISU Extension Service (Indianola, IA)                     | Viticulture Specialist | 5/07 – Present |
| ISU Extension Service (Indianola, IA)                     | Field Crops/Vit. Spec. | 5/02- 5/07     |
| ISU Extension Service (Indianola, IA)                     | Field Crops Specialist | 10/94 - 5/02   |
| Heartland Co-op (Indianola, IA)                           | Chief Agronomist       | 7/92-10-94     |
| (Heartland Co-op purchased Lavery Elevator in July, 1992) |                        |                |
| Lavery Elevator, Inc. (Indianola, IA)                     | Agronomy Sales Man.    | 7/88-7/92      |
|   | Agronomy Salesman      | 1/86-7/88      |
| Lavery Sprayers, Inc. (Indianola, IA)                     | Crop Consultant        | 1/84-1/86      |
| Land 'O Lakes (Rockwell City, IA)                         | Wholesale Agro.Sales   | 5/81-1/84      |
| Soil Cons. Serv.( Rockwell City, IA)                      | Dist. Conservationist  | 6/79-5/81      |

**Collaborators and Affiliations (for conflicts of interest)**

Certified Professional Agronomist through ARCPACS  
Iowa Certified Crop Advisor  
- Member of the American Society of Agronomy  
- Iowa Wine Growers Association ex-officio advisor to Board  
- Member of the American Society of Enology & Viticulture  
- Member of the Minnesota Grape Growers Association  
- Member of the Iowa Christmas Tree Growers Association  
- Member of the Iowa Honey Producers Association  
Staff member of the Midwest Grape & Wine Industry Institute at Iowa State University

**Synergistic Activities**

Editor of the ISU Midwest Grape & Wine Institute's "*Wine Grower News*" that is e-mailed out to 1,250+ people in 30 states and 4 countries.

Provide technical support via e-mail, phone, presentations and on-site visits to commercial vineyards and wineries within Iowa (80%) and the Upper Midwest (20%).

**Refereed Publications (2007-2010) - None**

**Non-refereed Technical Publications Related to this Project (2007-2010)**

- General Use Vineyard Scouting Form, 5-16-17:

<http://www.extension.iastate.edu/Wine/Resources/viticulture.htm>

- Canopy Management Concepts, 7-9-10:

<http://www.extension.iastate.edu/Wine/Resources/viticulture.htm>

- Estimating Grape Yield, 7-12-10:

<http://www.extension.iastate.edu/Wine/Resources/viticulture.htm>

## BIOGRAPHICAL SKETCH

**Peter R. Hemstad**

Department of Horticultural Science, University of Minnesota, Horticultural Research Center, 600  
Arboretum Blvd., Excelsior, MN 55331

Email: [hemst001@umn.edu](mailto:hemst001@umn.edu), Tel. (952) 443-1492

### **Educational History:**

Undergraduate            B.A. with honors - Biology, 1981, St. Olaf College

Graduate                M.S. - Pomology and Viticulture (Plant Breeding minor), 1984, Cornell  
University

### **Professional Positions:**

1985-present    Scientist-Grape Breeder, Department of Horticultural Science, University of  
Minnesota

### **Awards:**

Governor's Cup, International Cold Climate Wine Competition, St. Paul, MN, 2010

Minnesota Grape Growers Assoc., Special Achievement Award, 1998

Minnesota Grape Growers Assoc., Certificate of Achievement, 1993

### **Cultivars Introduced:**

Frontenac grape (1996)

La Crescent grape (2002)

Frontenac gris grape (2003)

Marquette grape (2006)

**Plant Patents and Plant Variety Rights (PVR):**

La Crescent grape (USPP 14,617) (PVR applied for in Canada)

Frontenac gris grape (USPP 16,478) (PVR applied for in Canada)

Marquette grape (USPP 19,579) (PVR applied for in Canada)

**Affiliations:**

Saint Croix Vineyards (winery), Stillwater, MN, Co-owner and Co-winemaker, 1992-present

ZT Vineyards, Huailai, China, Consultant, 2009-present

**Scientific Publications**

Hemstad, P. R., and J. J. Luby. 2000. Utilization of *Vitis riparia* for the development of new wine varieties with resistance to disease and extreme cold. *Acta Hort.* 528: 487-490.

Hemstad, P. R. and J. J. Luby. 2003. La Crescent, a new cold hardy, high quality, white wine variety. *In Acta Hort.* (ISHS) 603:719-722.

Hemstad, P. R., and J. J. Luby. 2005. 'Marquette', a new wine grape, named in Minnesota. *Wine East*, Nov.-Dec. 2005, pp 7-8.

Luby, J. J., A. K. Mansfield, P. R. Hemstad and B. A. Beam. 2006. Development and evaluation of cold hardy wine grape breeding selections and cultivars in the Upper Midwest. Progress Report for Viticulture Consortium-East. Geneva Research Station, Cornell University, Geneva, NY.