

Barley CAP Presentations made during Year 1 - 2006

1. November 1, 2005. Gary Muehlbauer. "Genomics of host gene expression and the Barley Agricultural Project." 100 wheat and barley researchers working on Fusarium head blight. 4th Canadian Workshop on Fusarium Head Blight, Ottawa, Ontario, Canada.
2. December 12, 2005. Kevin Smith. "The Barley Coordinated Agricultural Project (CAP)." Audience: Wheat and barley researchers working on Fusarium head blight. U.S. Wheat and Barley Scab Initiative, Milwaukee, WI.
3. January 16, 2006. Gary Muehlbauer. "Overview of Barley CAP." 20 rice and wheat CAP scientists, USDA-NRI and ARS National Program Leaders. Rice and Wheat CAP working groups at Plant and Animal Genome XIV Meeting, San Diego, CA.
4. January 16, 2006. Speaker: Roger Wise. Title of talk: "Overview of the Barley CAP" Meeting: Plant and Animal Genome XIV. Audience: Scientists preparing the Solanaceous CAP. Number in attendance: 20. Place: Town and Country Hotel, San Diego, CA.
5. January 17, 2006. Roger Wise. "Developing the Barley Coordinated Agricultural Project." 20 researchers dealing with Solanaceous crops. SolCap Workshop at Plant and Animal Genome XIV Meeting, San Diego, CA.
6. January 19, 2006. Speaker: Scott Heisel. Title of talk: "Barley Development for Craft Brewers" Meeting: Joint meeting of Milwaukee/Chicago local sections of the Master Brewers Association of the Americas & American Society of Brewing Chemists. Number in attendance: 45. Place: Milwaukee Ale House, Milwaukee, WI.
7. February 24, 2006. Timothy Close. "BarleyCAP/Molecular Efforts." Explained the Illumina OPA method and plans in the context of barley. 50 Rice CAP scientists. RiceCAP Workshop. Houston, Texas. URL: <http://www.intl-pag.org/>
8. March 28, 2006. Timothy Close. "The Barley Coordinated Agricultural Project (CAP)." 30 USDA Scientists and technical personnel. USDA Western Regional Research Center, Albany, CA.
9. May 18, 2006. Carl Griffey. Virginia Small Grain Field Day. Warsaw, Virginia.
10. June 9, 2006. Gary Muehlbauer and Kevin Smith. Overview of the barley CAP. Board Members. Institute of Barley Malt Sciences (IBMS) Board Meeting at Cargill, Minnesota.
11. May 2006. Jennifer Kling. Presentation entitled "The Hordeum Toolbox - A public resource for integrating pedigree, SNP, EST, and phenotypic data from breeding germplasm" at the Plant Ontology Consortium Workshop in Ithaca
12. June 8, 2006. Roger Wise. "The Barley Coordinated Agricultural Project (CAP)." 30 students and teachers from Nordic and Baltic countries plus several Ethiopian students. NOVA Ph.D. course on Genomics and Plant Breeding, Mustiala, Finland. URL: <http://www.honeybee.helsinki.fi/mmsbl/KMjal/NOVAGenBre/index.htm>
13. June 9, 2006. Gary Muehlbauer. "The Barley Coordinated Agricultural Project: Leveraging Genomics, Genetics, and Breeding for Gene Discovery and Barley Improvement." 8 NDSU scientists, growers, breeders, malting industry representatives, and AMBA. Institute of Barley Malt Sciences Board Meeting, Minnetonka, MN.
14. June 16-22, 2006. Kevin Smith. "A community research effort to apply genomics approaches to understand and exploit the genetics of malting quality in barley." 300 participants from major breweries, universities, regional breweries, craft brewers, and brewing allied industries presented the latest industry trends and research. 70th Annual Meeting of the American Society of Brewing Chemists in La Quinta, CA. URL: <http://meeting.asbcnet.org/2006/default.cfm>
15. July 2006. Kevin Smith. "Barley: What's in Your Beer." University of Minnesota Northwest Research and Outreach Center at Crookston, MN.
16. July 2006. Kevin P. Smith. "Barley Varieties." This was a field day presentation where I included a brief description the overall objectives of the Barley CAP. Audience was about 60 growers. University of Minnesota West Central Research and Outreach Center at Morris, MN.

17. June 28, 2006. David Hole. "Utah small grains update (including Utah CAP participation)." 80 growers, industry. Bluecreek Field Day, Bluecreek UT.
18. July 17, 2006. Gary Muehlbauer. Objectives of the Barley CAP. University of Minnesota faculty and Monsanto scientists. Rosemount, MN.
19. July 23-26, 2006. Jean-Luc Jannink. "Use of Breeding Populations to Detect and Use QTL." 60 oat breeders, oat agronomists, food scientists, oat processors (industry), a few oat marketers. American Oat Workers' Conference, Fargo, ND. The proceedings of the meeting are at: <http://wheat.pw.usda.gov/ggpages/oatnewsletter/v50/>
20. July 27, 2006. Brian Steffenson. The Barley Coordinated Agricultural Project (CAP). 30 participants. 3rd International Workshop on Barley Leaf Blights. Edmonton, Canada. Researchers working on leaf blights of barley. <http://www.afns.ualberta.ca/Index.asp?page=News&news=834>
21. July and August, 2006. Don Obert. Spoke at various field days and gave tours of my CAP lines to industry and producers.
22. August 14, 2006. Brian Steffenson. The Barley Coordinated Agricultural Project (CAP). 40 participants. U.S. Wheat and Barley Scab Initiative Alien Introgression Workshop, Fargo, ND. Researchers working on alien gene introgressions on wheat and barley. <http://www.scabusa.org/>.
23. August 15, 2006. Patrick Hayes. Discussed barley use, genetics, history and brewing. Second annual home brewers field day. Sponsored by Corvallis Home Brewing Supply at Hyslop Farm, Oregon.
24. August 17, 2006. Carl A. Griffey. "FHB resistance and DON content in Wheat and Potential Wheat and Barley Cultivar Releases.: 85 seedsmen, growers, industry, extension agents, and scientists. Charles City High School, Charles City County, VA.
25. August 30, 2006. Patrick Hayes. "Have a Blast and a Cold One." Talk was mostly about blast disease resistance and vernalization, but also spent time on one slide explicitly describing and acknowledging CAP. 100 scientists. ITMI Workshop, Victor Harbor, South Australia. URL: <http://wheat.pw.usda.gov/ITMI/>
26. August 29-September 1, 2006. Paul Schwarz and Lynn Dahleen (USDA ARS Fargo). "What is Barley CAP." 15 participants primarily from the domestic and international malting and brewing industries. August 30, 2006. NCI/IBMS/ASBC Barley Malt Quality Evaluation Short Course, Fargo, ND at the Northern Crops Institute. URL: <http://www.northern-crops.com/education/education.htm>.
27. August 30-September 1, 2006. Timothy Close. "SNP Genotyping under the USDA Barley CAP Project." 50 legume genome researchers and plant breeders. Legume Meeting, Asilomar, California.
28. August 2006. Thomas Blake. Discussed the barley CAP at three field days (Huntley, Sidney and Havre) with approximately 400 Montana farmers.
29. August 2006. Peter Bradbury. Information about the Barley CAP project was displayed on one of several posters that were part of an ARS booth at the New York Empire Farm Days.
30. September 13, 2006. Timothy Close. Summary of Barley CAP. 300 scientists. 50th Annual Congress of the Italian Society of Agricultural Genetics. URL: <http://www.siga.unina.it/congresso.html>
31. September 25, 2006. Gary Muehlbauer. Barley Coordinated Agricultural Project (CAP): Leveraging Genomics, Genetics, and Breeding for Gene Discovery and Barley Improvement. University of Minnesota, Applied Plant Science Graduate Program Seminar Series. 20-25 graduate students and faculty.
32. October 5, 2006. Brian Steffenson. The Barley Coordinated Agricultural Project (CAP). 32 participants. University of Saskatchewan, Saskatoon, Canada. Students, faculty and staff working on cereals.
33. October 2006. Shiaoan Chao. I presented a talk to high school students at Maddock, ND (pop 500) via video conference, and described high throughput genotyping process and the advantage

- of MAS. A DVD was prepared showing the genotyping lab equipment and facility, and a brief demonstration on how the samples were prepared and the function of the equipment.
34. October 2006. Blake Cooper. Presented summaries and updates of project to senior management at several internal meetings during the year.
 35. November 2006. Patrick Hayes. Presentation for the Eucarpia Cereals Section.
 36. November 2006. David Hole. Presentation to growers and industry representatives at the Bluecreek research farm field day jointly sponsored by Utah State Extension and the Utah Agricultural Experiment Station. The presentation introduced the audience to the Barely CAP program and Utah's benefit from participation in the program.
 37. November 2006. Don Obert. Presented information regarding the CAP grant at the Food Barley Summit in Aberdeen, ID.
 38. November 2006. Lynn Dahleen. The Barley CAP program was presented to an audience of maltsters and brewers at the NCI/ASBC Malt Quality Evaluation Short Course.
 39. November 9, 2006. Song Joong Yun introduced the project at a meeting in Korea. Song Joong Yun, Seungho Cho, Gary J. Muehlbauer. 2006. Molecular Barley Breeding Powered by High-Throughput Genomics. Korean J. Breeding 38 (Suppl. No. 2): 27-45. 2006 Fall symposium, Daejeon, Korea. Korean Breeding Society.
 40. November 7, 2006. Kevin P. Smith. The barley CAP co-sponsored a symposium on "Marker-assisted selection strategies in crop improvement " at the ASA-CSSA-SSSA national meeting in Indianapolis, IN. Approximately 120 people attended the symposium.
 41. November 16, 2006. Kevin P. Smith. Detecting Marker-trait Associations in Barley Breeding Germplasm for MAS. Indianapolis, IN. 200 scientists. URL for meeting www.acsmeetings.org/. URL for symposium: a-c-s.confex.com/crops/2006am/techprogram/S2742.HTM
 42. December 2006. Institute of Barley and Malt Sciences Newsletter, Issue 1. IBMS website: www.ag.ndsu.edu/ibms. Contact Karen Hertsgaard (701) 231-8063.
 43. December 13, 2006. David Ruark. What Is This Barley Cap Thing? Washington Barley Commission (WBC) Meeting in Spokane, WA. This was a regularly scheduled meeting of the WBC and was attended by 10 Commission members, 6 of whom are Barley Growers, 2 of whom are representatives of companies handling barley, 1 represents the Washington State Department of Agriculture (WSDA) and the WBC administrator. Others in attendance were 2 from WSU---barley breeder and CAP advisory committee, Dr. Steve Ullrich, and Dr. Ristow, Deputy Administrator of the Ag Research Center, 1 house staff person for U.S. Representative Cathy McMorris and 1 barley grower that is also a officer of the state wheat growers association (WAWG). Attendance: 14 for all or part of the meeting. Summary: My goals for this presentation were three fold. First was to acquaint the WBC leadership and administration (and any others attending) what "CAP" stood for, some of the details and how this program will benefit not only the State barley growers, but also the barley industry in both Washington State and the U.S. in total. Since the original concept of the North American Barley Genome Project was conceived here in the State, the benefits of "coordinated" efforts on an even larger scale was not a hard sell! My second goal was to enlist the help of the WBC to help spread this same word and the informational brochures at the various grower meeting that they sponsor and make presentations at throughout the State. This goal was a success in that they will present information and brochures on the Barley CAP at the following: February 6-8, 2007. Spokane Ag Expo. This is a LARGE display of equipment plus many mini-seminars, of which WBC sponsors several. Attendance is in the 3000 area. February 21, 2007 Area Grower Meeting at Colfax---Est. attendance 50-75; February 23, 2007 Area Grower Meeting at Dayton---Est. attendance 50-75; February 26, 2007 Area Grower Meeting at Spangle---Est. attendance 75-90; February 28, 2007 Area Grower Meeting at Davenport---Est. attendance 80-100. The third goal of course was to present and pass out the Barley CAP brochures and show the banner. That was accomplished, plus I left the banner and the balance of the brochures with Ms. Palmer-Sullivan, WBC administrator for the upcoming meetings---which will obviously not be enough! URL:

www.washingtonbarley.org. Summary: I believe this meeting/contact was certainly worthwhile, but we will need to get the WBC more brochures in time for these above listed meetings. I also plan to contact Mr. John Burns, WSU extension agronomist, to see about being a part of his meetings or getting information disseminated thru his agronomy meeting he attends around the state.

44. December 20, 2006. Michael P. Davis, President, American Malting Barley Association, Inc. Overview of Barley CAP, with distribution of Barley CAP brochure. American Malting Barley Association, Inc. Board of Directors Meeting. USDA-ARS Cereal Crops Research Unit, Madison, WI. High level personnel for major US malting and brewing companies. Ten people in attendance. This overview of the CAP helped reinforce the AMBA Board of Director's support of my lobbying efforts, which includes advocating for support of CSREES programs with Congress (e.g. NRI), through our funding and leadership of the National Barley Improvement Committee.
45. September-December 2006. Marv Zutz, Minnesota Barley Research and Promotion Council. Meetings at which Barley CAP was discussed with poster and brochures distributed: September 5, 2006, Crookston, MN – 20 producers in attendance; September 12-14, 2006, Fargo, ND – 5,000 producers in attendance; September 27, 2006, Crookston, MN – 26 producers in attendance; November 20, 2006, Mahnomon, MN – 21 producers in attendance; November 28-29, 2006, Fargo, ND – 2,000 producers in attendance; December 13-14, 2006, Grand Forks, MN – 500 producers in attendance.