

Minutes

Potato Crop Germplasm Committee Annual Meeting*

Somerset Doubletree Hotel, Somerset NJ

5:00 PM, August 1, 1999

1. Auto-introductions of those present: (see attached address sheet) Visitors: F. Lauer, Z. Huaman, K. Haynes.
2. Bamberg explains history and relationship of CGC and NRSP-6 TAC (since potatoes have their own TAC with national expert representation, the role of the CGC is primarily evaluation, centered on the yearly grant opportunity through ARS).
3. Bob Goth mentioned that we ought to direct attention toward cleaning up virus infected clonal breeding stocks. However, it was determined that this is not a problem of the genebank stocks per se.
4. Philosophical considerations RE prospective evaluation proposals: Sentiment was expressed that the CGC ought to concentrate on important potato disease and pest resistances. The counterpoint is that the CGC has a limited funding scope, and has a mission to screen raw germplasm, so perhaps ought to try to find novel pioneering projects that open the door to elaboration by other researchers. Perhaps it would emphasize the 1st priority proposal if it was the only one submitted.
5. Discussion of proposals. Bamberg presented 3 proposals, none others having been solicited by members. One proposal on frost tolerance and acclimation screening was submitted by J. Palta, Horticulture Dept., UWisc, Madison. A second proposal would be to extend the FY99 proposal by W. Stevenson, Dept. Plant Pathology, UWisc, Madison for a second year with the same scope and funding. A third idea for screening had not yet been developed into a formal proposal. This involved screening potatoes for increased levels of antioxidants.
6. Decision to submit the Stevenson proposal for a second year, MSC. Alvin Mosley noted that he has an efficient late blight field screening

POTATO CGC 2002

Annual Meeting Minutes

Aug 11, 2002

PAA Toronto venue (Hilton Hotel)

Present: Hurtt, Hoopes, Mosley, Spooner, Douches, Tai, Salih, Cameron, Pavlista, Bohning, Bamberg (chair) and 16 non-members from preceding PAA Breeding and Genetics section meeting.

1. Bohning gives a brief history of CGCs and purpose. Bamberg says how Potato CGC relates to the USPG Technical Committee.
2. Attendees introduced themselves.
3. Hoopes gives report of CGC Chairs' meeting which he attended as sub for chair Bamberg: Substantial increases in funding for NPGS. NSSL increasing in scope—PVP potato vouchers now held there. CBD has a problem with germplasm inputs. Hartung noted Q quotas for potato are 75 clones and 50 seedlot slots annually. Will IPR inhibit germplasm exchange? Expanding use of DNA markers to assess status and dynamics of genetic diversity in the USPG was commended.
4. Spooner mentioned his evaluation grant rationale: To use previous evaluation data to test predictive value of taxonomy. Reviewed past collecting: 13 expeditions. Goal of collecting in Peru is thwarted. Looked at sites in Honduras without success.
5. Salih distributed Q status handout. Reviewed process of potato she is involved in, and current outlook. Spooner voiced concern about quotas if Peruvian collection resumes and embargoed collections are released for import to Q.
6. Discussion of screening priorities. Tuber blight noted as high priority, Jelly End, and Silver Scurf also important. Note: Novy tuber blight proposal was approved for FY03.
7. Cameron mentioned that evaluation grants have a *de facto* limit of \$20K. Should be top screening priorities. NPGS budget nearly doubled from \$20M to \$38M. K. Eversol working as lobbyist. Need to have a goal of mining the value in the genebanks. Germplasm contribution to nutrition is a topic of increasing interest. Still have a SNAFU in Q construction of new facilities / space.

POTATO CGC 2003

Annual Meeting Minutes

Aug 11, 2003

5 PM at PAA Spokane venue

Present: Brown, Tarn, Miller, Hurtt, Simon, Hoopes, DeJong, Martin, Mosley, Spooner, Douches, Bamberg (chair).

1. Attendees introduced themselves.
2. Hurtt reviews US Quarantine progress: Asks that importers request Q slots more in advance. Less therapy is now needed, making it possible to direct more time elsewhere. If there are not enough requests to fill the slots quota, we can do some of the seedlots waiting in quarantine at USPG. Questions were raised about restricted distributions. SH *does* ask importers to consult with the genebank if there is any possibility that doing so would facilitate the introduction process. SH noted that S. Salih handles the tissue culture aspects of the program.
3. Review of C. Brown's Powdery Scab evaluation proposal. Some resistant cultivars like Tarago from Australia said to exist. Approved as first priority. Bamberg suggests that if additional worthy proposals develop before the submission deadline of Nov 17, he will submit same in case funds are available to support a second priority project. Approved.
4. Spooner leads discussion of embargo of Andean germplasm. No response for officials in Peru. Politically charged situation. Collections from 2nd of 5 year program being maintained at CIP (ca. 100 items). Would like to complete planned years 3-5. Suggestion of a survey expedition with no collection probably not useful—waiting is advocated. Others are collecting in Peru.
5. Reports of past evaluation grants. Spooner has created an Excel file documenting all past evaluations for his 2002 grant. R. Novy has made good progress screening Andigena for tuber blight resistance (2003).
6. Minutes of 2002 meeting. Bamberg mentions being remiss in not preparing and distributing them. Promised to do so soon.

Adjourn 6:30

POTATO CGC 2004

Annual Meeting Minutes

Aug 8, 2004

PAA Scottsbluff, NE

Present: Brown, DeJong, Hoopes, Mosley, Spooner, Bamberg (chair).

1. 2003 meeting Minutes approved.
2. Discussion and selection of PCI anti-cancer screening by Palta et al. as only proposal to submit for FY05 funding. Discussion of “low-carb” impact and idea that future grants might include nutritional screening like carbs, iron, zinc.
3. Vulnerability statement requested by NPS. Bob Hoopes made a draft update of the old CGC statement and the Committee discussed it. Genebank could be attacked, but this would not directly terrorize the average citizen. Contaminant added to common potato agrichemical could have wide impact. Tuber necrotic PVY and phytoplasmas are two emerging problems that could disrupt production and trade. Hoopes will revise according to CGC discussion.
4. Did not have time to discuss status of Quarantine or germplasm collecting.

Minutes prepared by Bamberg

POTATO CGC 2005

Annual Meeting Minutes

PAA at Calgary, Alberta, Westin Hotel
7:00 AM, Wed, July 20th, Banff Room

1. Present: Bamberg (chair), Brown, Douches, Tai, Stevenson, Palta, Pavlista, Hoopes.
2. Approval of 2004 minutes
3. Past evaluation grants summarized by Bamberg. Brown reports on powdery scab evaluation results and considerations for further screening. Funding for this work came very late in the FY.
3. Selection of evaluation grant proposal(s) for CGC sponsorship: Palta reports on progress in anti-cancer Potato Carboxypeptidase Inhibitor screening funded FY05 and proposal for continuation in FY06. Brown presents his Potato Tuber Moth evaluation proposal. Vote favored Palta proposal. Past and current consensus is that only those present and party to the discussion on proposals should vote, in this case a limited number.
4. Discussion and approval of crop vulnerability statement as updated by Hoopes.
5. Quarantine status. Bamberg summarizes distributed report received from S. Hurtt.

Minutes prepared by Bamberg

POTATO CGC 2006

Annual Meeting Minutes

PAA06 at Madison, WI, Monona Terrace

7:00 AM, Tues, July 25th

Breakfast Room

1. Present: Bamberg (chair), Palta, Martin, DeJong, Vales, Brown, Douches, Spooner, Stevenson, Thill, Hoopes, L. McCann.
2. Review 2005 minutes
3. Spooner discusses current embargo on collecting and distribution from Latin American sources of in situ potato.
4. Palta reviewed results from the previous grant involving screening for a potato anticancer protein, PCI. It was suggested that work such as this should be communicated to industry. It was suggested that an important consideration will be environmental vs genetic influence on PCI levels.
5. A single proposal was submitted for consideration: Martin/Bamberg/Palta on K screening. This was approved for a recommendation for funding.

It was suggested that the parents of the mapping population should be K evaluated for the purpose of eventual identification of the genetic basis of high-K if it exists.

6. Priorities for future screening were discussed. In view of a prediction of limitations on inputs in the future, mineral and water use efficiency should be considered high priority.
7. A report from Quarantine was distributed.

Minutes prepared by Bamberg

POTATO CGC 2007

Annual Meeting Minutes

PAA 2007
Idaho Fall, Idaho
6:30 AM Tues Aug 14th

Present: Bamberg (chair), Bethke, Douches, Brown, Yilma, Navarre, Hoopes, Abad

1. Introductions, distribution of handouts.
2. Review of past funding exercises and grant proposals. Report of PCI screening progress. Nutritional components of tubers was identified as a hot topic.
3. Dr. Abad reviewed the year's progress in potato Quarantine. Some collected seeds still in storage at Sturgeon Bay will be processed next year.
4. Germplasm collecting status and issue of whether genebank should keep US varieties: Time ran out for discussion of these topics-- plan for communication by email.

Minutes prepared by Bamberg

POTATO CGC 2008

Annual Meeting Minutes

PAA 2008

Buffalo, NY

3:30 PM Aug 13, 2008

Present: Bamberg (chair), Brown, Vales, Pavlista, Abad

1. Reviewed general discussion from June 10th NRSP6 TAC meeting at Cascade Locks, OR.
2. Funding for evaluation proposals: I was decided that we should wait until word of funding of SCRI proposals. Then distribute ideas and vote by email. Brown favors Starch balance screening proposal. Zebra Chip is also very important.
3. Bamberg reviewed pending imports of *microdontum* and acquisition of other stocks from Southwest collecting.
4. Dr. Abad presented the status of quarantine for potato.

Minutes prepared by Bamberg

POTATO CGC 2009

Annual Meeting Minutes

PAA 2009

Frederickton, NB, CANADA

6:00 AM Aug 11, 2009

Present: Bamberg (chair), DeJong, Douches, Hoopes, Abad

1. Dr. Abad presented the status of quarantine for potato. Capacity is an ongoing limitation. Virus therapy (including PSTV) was discussed as a way to accomplish release of infected imports.

2. As usual, a general and specific discussion of screening priorities followed. Grants are small, so this funding should go to emerging traits with promise, but should provide datapoints to assign to the potato population records in GRIN. Possible traits where some work has already been funded: Ca, tomatine, phenolics, soft rot, protein. Future possibilities: Zebra chip, Starch balance.

Minutes prepared by Bamberg

POTATO CGC 2010

Annual Meeting Minutes

PAA 2010
Corvallis, OR
7:00 AM Tues Aug 17, 2010

Present: Bamberg (chair), Whitworth, Martin, Douches, Hoopes, Goktepe, Abad

1. Dr. Abad presented the status of quarantine for potato. There is a need to prioritize processing of imports considering home gardener imports. We should have a higher profile for heirloom acquisitions. Q tried to catch everything, but genebank should continue to look for off types in new stocks.
2. A general discussion of screening priorities followed. We need novel traits that a little seed money could start. What about requesting matching funds? Possible topics: acrylamide, B vitamins, titanium, AGEs.
3. Acquisition was discussed. Peru continues to be a high priority collecting location but impediments there continue.

Minutes prepared by Bamberg

POTATO CGC 2011

Annual Meeting Minutes

PAA 2011
Wilmington, NC
6:30AM Wed Aug 17, 2011

Present: Bamberg (chair), Douches, Jansky*, Hoopes, Goktepe, Abad

1. Dr. Abad presented the status of quarantine for potato. Progress was made in that the CGC group decided it would be advantageous for breeders and other germplasm users to coordinate and prioritize import requests. Also, Bamberg asked Abad to write a paper for *American Journal of Potato Research*, covering all points about potato import.
2. FY11 CGC grant for asparagine is just getting started. FY10 award to Jansky on starch screening has made good progress, as reported in several presentations by Shelley at this PAA meeting.
3. A general discussion of screening priorities followed, with recognition that it might be moot in light of no scheduled grant offering as of yet for FY12.
4. Heightening awareness of potato: The group discussed how the writing of a popular book is often the basis of interviews that bring a topic to the public's attention. Could potato professionals collaborate to write such a book for potato?

* new member

Minutes prepared by Bamberg

POTATO CGC 2012

Annual Meeting Minutes

PAA 2012
Denver, CO
6:30AM -- Aug 12, 2012

Present: Goyer, Bamberg (chair), Douches, Holm, Hoopes, Abad, Whitworth

1. Bamberg gave background on what PCGC is and does.
2. Dr. Abad presented the status of quarantine for potato, particularly in terms of reorganization of APHIS/ARS quarantine and testing quota/throughput. Concern was raised about a particular proposed permit to import numerous stocks from Scotland, and whether PCGC should take a formal position. Suggested that PAA could link the genebank so those who seek imports there would see stocks already in the country. Virus elimination technology and services were reviewed. Sometimes the importer would be just as satisfied with a clone already in the country, and we ought to be ready to make such suggestions to reduce unnecessary quarantine work.
3. Germplasm evaluation: Goyer explained potential for folate screening. Douches is evaluating for drought stress and SNPs of the genebank's NewMinicore. Past evaluation grant outcomes were reviewed: Bamberg (2012), Navarre (2011), Jansky (2010).
4. Communication. Whitworth agreed to organize communication between US and Mexican germplasm workers by consulting with H. Lozoya. Discussion followed on how to enhance media contacts and promote non-professional potato enthusiasts like SeedSavers' Kenosha Potato Project. Also, the need for the genebank to keep up with expected formats like short videos about its services and products.

Minutes by Bamberg

POTATO CGC 2013

Annual Meeting Minutes

PAA 2013 -- Quebec City, Quebec, Canada
6:30AM -- Aug 1st, 2013

Present: Abad, Bamberg (chair), Yencho

1. Minutes of 2012 meeting were approved.
2. Evaluation grants: A list of past recipients has been created. Bamberg & Palta got the \$10K award for FY13. Future priorities to include Zebra Chip? Is hairiness an avenue to avoiding infection (e.g., Prince Hairy) or bacterial resistance?
3. Collecting: The statement by Spooner had previously been distributed: "Basically, Peru is our primary collecting goal, with only 2 years of a 5-year collecting mission completed, but stopped for political reasons. As you know, Peru has retained most of our germplasm from even out first 2 year's collecting. I have been communicating with CIP and Edward Garvey's and Peter Bretting's Office on this. CIP (through their new genebank Director David Ellis) recently suggested that we write a new collecting proposal for Peru, but Peter Bretting indicated that this cannot proceed until we get access to the germplasm we collected in 1998 and 1999. If we ever do gain access to these germplasm collections I will lead an effort to continue these collections, based on plans already outlined in the 5-year collecting plan I already submitted." The group encourages the USA to pursue restarting participation in Peru collecting.
4. Quarantine: Dr. Abad presented the status of quarantine for potato by going over his written report*. He is trying to increase the quota of seed imports from 75 to 100, to meet increased demand, but it will be difficult with current resources. There are options to get special permits for quarantine processing off campus-- details will be distributed by JA by follow-up email.
5. Members: The value of expertise in industry and utilization & marketing was noted, and decision to invite M. Krucker of Simplot and Jeff Bragg was made. C. Yencho suggested PCGC establish communication with Global Crop Diversity Trust.
6. Vulnerability report. It had not been studied at the time of the meeting, so no discussion occurred except that it should have one-page executive summary and visuals for rapid assimilation of the key points.
7. After the meeting, a NPL report* was received by email by J. Bamberg from P. Bretting.

Minutes by Bamberg

*text available under genebank website's Administrative Reports link.