

The Potato Association of America
99th Annual Meeting
July 26-29, 2015

ANNUAL BUSINESS MEETING MINUTES

Wednesday, July 29, 2015

President Andy Jensen called the 99th Annual Meeting of the Potato Association of America to order at 1:40 pm in Portland, Maine, USA. A quorum of members was present.

President Jensen asked for a moment of silence as a tribute to PAA members and friends who passed away since the last business meeting: Don Horneck, Alan Langille, Richard L. Sawyer, Christian Thill, Herman Timm, and Leslie Wanner.

MOTION moved, seconded and passed to approve the Annual Business Meeting agenda as presented.

MOTION moved, seconded and passed to approve the minutes of the 98th Annual Business Meeting as printed in the AJPR 92(2):153-170.

Officer Reports:

President Report

President Jensen reported that he led five meetings of the Executive Committee (EC) since the last business meeting. The minutes of these meetings have been posted on the PAA website. One of the major focuses of the EC this year was to begin planning for the future of The PAA, especially the business aspects of The Association involving finances and staff. He noted that it will be important to have a plan in place when Larry Hiller decides to retire from his role as Treasurer and steps down from the EC, and when Administrator Lori Wing retires. These will be major changes that could bring about many more changes. Who will do our book keeping in the future? Where should the PAA offices be located? He noted that the EC is beginning to develop a Policies and Procedures Manual.

Treasurer Report

Treasurer Larry Hiller reviewed the PAA FY 2014 operating budget vs. actuals and the PAA FY 2015 operating budget to date vs. actuals. This information is posted on the "PAA Members Only" section of The Potato Association of America website at <http://potatoassociation.org/>.

Administrator/Archivist Report

Lori Wing announced that she plans to retire on December 31, 2018. She noted that membership numbers are staying steady with 470 individual memberships, 51 students, 15 emeritus members, and 24 sustaining members. There are also 62 Honorary Life Members that continue to associate with The PAA. Membership renewal notices will go out in October. They will be automatically sent by Wild Apricot to all members with an email address. She will mail renewals to the few people who have not provided email addresses. She noted that many members have opted not to receive a paper copy of the AJPR. Wing said the website is being updated regularly. She asks that members submit pictures and/or stories for posting.

Wing was not able to attend Potato Expo in 2015 due to bad weather, but she made sure that all of the items needed for the booth got there. Wing said there are still a lot of copies of Commercial Potato Production in North America available for anyone who wants them, and there are many copies of the AJPR available.

Standing Committee Reports:

Editorial Board Report

Outgoing editors Brown, Davidson, Guenthner, Kawchuk, Mojtahedi, and Suttle will be honored at the Banquet and new replacements have been installed. The full current Editorial Board can be found on the PAA website.

Springer provides PAA with an annual detailed status report for AJPR which is posted on the PAA website. Here are highlights: In 2014, stats for the year were average in most respects. Editorial Board performance (2012, 2013, 2014) = Submitted (106,114,111), Accepted (66,64,64), Days to first response to author (75, 62, 72), Days to final accept decision (162, 131, 131), Reject (35%, 41%, 37%). Currently, only 11 papers are in OnLine First print queue.

The selected Outstanding Paper for 2013 was by corresponding author Amy Charkowski: A Draft Genome Sequence Reveals the Helminthosporium solani Arsenal for Cell Wall Degradation (p. 517).

The 2012 Symposium on phosphorus was published (p. 119). The 2013 Quebec symposium on bacterial diseases has already been published.

Two Invited Reviews were published, one on late blight (p. 579) and one on the history of Russet Burbank (p. 594).

Journal success metrics in 2014: Full text downloads = 64,629. Five-year impact factor = 1,235. Institutions with AJPR access= 8,647. The EB gets prompt and efficient service from Springer personnel. Update from 2015: We now have iThenticate anti-plagiarism software that we are using on every manuscript since June.

Respectfully submitted,
John Bamberg, EiC

Finance & Endowment Committee Report

Chair of the Finance and Endowment Committee Bret Nedrow reviewed the Finance Committee's recommendations for the PAA FY 2016 budget. Budget information can be found posted on the "PAA Members Only" section of the PAA website at <http://potatoassociation.org/>.

MOTION moved, seconded, and unanimously passed to approve the 2016 budget as presented except for the matter of the Endowment Fund payout that will be discussed later today.

Bret Nedrow reported that the Endowment Fund goal was met and exceeded this year thanks to the generous donations of several PAA members. Leigh Morrow called for a round of applause to recognize those who helped us reach this goal.

Nedrow said the Endowment Committee plans to solicit ideas from the membership about how to utilize payouts from the Endowment Fund. They plan to review these and then submit the top five ideas to the EC in January.

Nominating Committee and Honorary Life Member Committee Reports

The immediate past president chairs the Honorary Life Member and Nominating Committees. Nomination requests were sent electronically to PAA members and several names were given to the committee. The nominees for two Director (3-year) positions were André Gagnon, Mark Pavék, Rick Peters, and Erik Wenninger. There were two nominees for Vice-President: Kent McCue and Shelley Jansky. Electronic voting occurred via Survey Monkey and about 40% of the PAA membership voted. Mark Pavék and André Gagnon were elected as the new Directors to replace outgoing Directors Rich Novy and Shelley Jansky. Shelley Jansky was elected as the new Vice President.

According to the PAA bylaws, the President-Elect assumes the position of President and the Vice-President assumes the position of President-Elect at the annual business meeting. Therefore, Loretta Mikitzel becomes PAA President and Michael Thornton becomes President-Elect. Five nominations for Honorary Life Member (HLM) were submitted along with letters of support. This information was forwarded to the members of the Honorary Life Membership Committee who voted that Don Halseth, Alex Pavlista, Gary Secor and Neil Gudmestad were deserving of the PAA award by honoring their contribution to potato science, and service to The PAA and the potato industry. The awards were presented at the banquet July 22, 2015 in Portland, ME. It was agreed upon by the membership at the annual business meeting that the recipients of the HLM award will be announced prior to the annual meeting.

Respectively submitted,
Nora Olsen, Past-President

Program Committee and Symposium Committee Reports

The 2015 annual meeting program was prepared from 98 submitted abstracts including 4 symposium presentations, 79 oral presentations, and 15 posters. There were 14 Frank L Haynes Graduate Student Research Competition papers. The symposium was held Monday morning and was followed by concurrent sessions on Monday afternoon, Tuesday, and Wednesday morning. The International Relations Committee Invited Guest Speaker presented on Monday afternoon following the concurrent sessions and before section meetings. The poster session took place on Tuesday afternoon.

The 2015 symposium "Mitigation of Acrylamide: a Multidisciplinary Approach to an Industry Problem" was planned and organized by the Physiology Section. The following symposia have been accepted for the next three years. The 2016 symposium will be planned and organized by the Breeding and Genetics Section led by Dave Douches. It will be titled "Transformative Technologies in Potato Breeding". The Extension Production & Management Section will organize the 2017 symposium with a tentative title of "Decision Support Tools and Technologies for Growers". The Plant Protection and Certification Section will work together to organize the 2018 symposium with a tentative title of "Impact of Quarantined Pests on the Potato Industry".

Respectfully submitted,
Carrie H. Wohleb, Secretary

Outreach Committee Report

Leigh Morrow reported that more technical support was needed to handle some of the website changes than they expected this year, but it is now running smoothly. The system did an auto-archive that resulted in some problems, but they are straightened out now. The Outreach Committee had a phone conference in the spring to discuss website content. They are happy with the website, but more content is needed. Morrow asked members to send in more photos to keep the PAA website fresh. President Jensen thanked Leigh Morrow for his efforts on the new website from development to getting it online and keeping it going. There was applause all around.

Site Selection Committee Report

The Site Selection Committee (SSC) met at noon on Monday, July 20, 2015. Committee members attending included Rich Novy (Chair), Craig Yencho (North Carolina LAC), André Gagnon (Quebec LAC), Mark Pavcek (Washington LAC), Greg Porter (Maine LAC), Andy Robinson (North Dakota LAC), and Michael Wenkel and Dave Douches (Michigan LAC). Other attendees included Pam Hutchinson. Rob Davidson (Colorado LAC) needed to attend a concurrent finance committee meeting and was unable to attend. The first order of business was to review the bid from Idaho to host the 2018 annual meeting. Pam Hutchinson, University of Idaho, provided a very good overview of the proposed host city (Boise) with handouts of possible venues and potential activities and tours in and around Boise. Other potential sites for consideration in Idaho included Sun Valley and Idaho Falls, but Pam and other members of the Idaho delegation felt Boise with its more frequent, direct, and affordable flights, reduced cost (relative to Sun Valley), and abundant nearby activities and agricultural diversity afforded a better venue. SSC committee members requested that Pam look into hotels in downtown Boise to allow attendees and their families to walk to nearby amenities and to enjoy Boise's greenway along the river. Pam and other Idaho researchers and industry representatives will compose the LAC. Meeting format will be similar to the one used by Maine in 2015 with tours on Thursday. Pam also mentioned that a symposium on potato cyst nematode might also be a component of the meeting and would coordinate such an event with other sections to ensure there would be no conflicts. After this discussion, Craig Yencho made a motion for the SSC to accept Idaho's bid for the 2018 annual meeting, with a second by Dave Douches—subsequent vote by the SSC was unanimous that the Site Selection Committee would recommend to the EC that Idaho host the 2018 meeting. Updates from the 2016 and 2017 LAC were also provided at the meeting. Michael Wenkel and Dave Douches (Michigan LAC-2016) indicated the meeting format will be similar to this year's, but will include a concurrent session on Monday morning with topics of interest to growers and other members of the potato industry. The symposium will then be held in the afternoon, allowing growers to depart or stay for the 104 Am. symposium. The venue will be the Amway Grand Plaza Hotel in Grand Rapids, MI which was where the 1915 PAA annual meeting was held. Many amenities are within walking distance of the hotel. Numerous food processing/distribution companies in Grand Rapids and nearby diverse agriculture crops will ensure interesting tours for participants.

Andy Robinson then gave an update on the 2017 meeting to be held in Fargo, ND. The venue will be the remodeled Holiday Inn with shuttles suggested by Andy for transporting attendees from the hotel to downtown Fargo. Meeting format will be the same as the one used by Maine in 2015 with tours to be held on Thursday. Discussion ensued following Andy's remarks that they are as of yet unsure as to who will sign for the contract with the Holiday Inn, other LAC members of past meetings had indicated their respective institutions had signed. Discussion then ensued regarding the identification of an entity that would provide conference services such as website design, oversight of registration and associated finances, and provide meeting organizational skills to PAA LAC over years, thereby providing some continuity and experience. Important as well is the ability to provide such services in both the U.S. and Canada. Several organizations were identified by participants and Andy Robinson volunteered for ND to pursue the identification of an organization

to help their LAC in 2017. Rich and Andy would coordinate the identification of such conference services entities with the approval of the Executive Committee—especially important if a multi-year agreement would be needed. The chair gave an update on possible sites for the 2019 meeting. A search of PAA annual meeting sites with an emphasis on a Canadian site, identified Manitoba. This province has never hosted a PAA annual meeting and would be a good candidate to do so. Concerns were expressed over whether there was critical mass of researchers and industry representative in Manitoba to host. Both André Gagnon and Andy Robinson had Manitoba contacts that they would approach regarding their willingness to possibly host in 2019. If interested parties to host in Manitoba cannot be identified, then another potential site would be Prince Edward Island which last hosted in 1997.

Michael was asked for an update on the software program Cvent (<http://www.cvent.com/>) which was to be used to facilitate website development and track registrations for MI in 2016. They are currently assessing the software and its usefulness.

Respectfully submitted,
Rich Novy

International Relations Committee Report

President Jensen reported for Chuck Brown. He noted that Noelle Barkley with the International Potato Center (CIP) in Peru was our International Special Guest Speaker. Chuck Brown has suggested that we change the name of this committee. Rob Davidson commented that the primary focus of the International Relations Committee was to encourage members to travel to international meetings to represent The PAA. Mike Thornton noted that all of the Sections are invited to put forward names of potential guest speakers.

Membership Committee Report

The Membership Committee consists of the following representatives; Mike Thornton (Chair), Jeff Bragg, Bret Nedrow, Robert Gareau and Dave Douches (appointed to replace Leslie Wanner). Accomplishments during this past year included the following:

1. Obtained a list of non-renewing members from the PAA Administrator. Contacted the 35 individuals and 14 graduate students who had not renewed memberships via email or phone and asked them to renew. For graduate students, we contacted major professors and asking them to encourage their active students to renew membership. This effort led to several individuals renewing their memberships for 2015.
2. Contacted the two sustaining members that had not renewed. This direct contact led to both companies renewing their membership in PAA.
3. Met with several potential new members at the PAA booth as part of the Potato Expo in Orlando, FL.

Provided information on the benefits of PAA membership, and encouraged them to join.
Respectfully submitted,
Mike Thornton

Constitution and Bylaws Committee Report

The committee worked with President Jensen and the policies and procedures working group to review and identify issues in the version approved on July 31, 2014. Several sections were

identified that need significant revisions. However, it was decided to hold off on presenting these changes to the membership until the policy and procedures manual is completed. It is anticipated that document may help identify additional sections that need revision.

Respectfully submitted, Mike Thornton

Local Arrangements Advisory Committee Report

The primary responsibility of the President-elect is to chair the Local Arrangements Committee Advisory Committee. Thanks to the efficiency and excellent organization of the Maine LAC co-chairs Leigh Morrow and Gregory Porter, committee involvement in meeting preparations was minimal.

Respectfully submitted,
Loretta Mikitzel, President-elect

Report on the 2015 Potato Expo Poster Session

The President-elect also solicits posters to be presented at the NPC Potato Expo. For the 2015 Potato Expo in Orlando, Florida, 20 poster titles and abstracts were organized, with 18 of the posters displayed at the event.

Respectfully submitted,
Loretta Mikitzel, President-elect

Frank L. Haynes Graduate Student Research Award Competition Committee Report

Paul Bethke noted that there are two new members of the committee this year, Jay Anderson of the Potato Growers of Alberta and Craig Richael with Simplot Plant Sciences. They replace Hector Lozoya-Saldana who served on the committee for 14 years and Leslie Wanner who passed away recently.

The committee includes seven members. He reported that there were 14 graduate students entered in the competition this year. The winners will be announced at the Banquet.

Section Meeting Reports:

Breeding and Genetics

Chair: Aliya Momotaz
Vice Chair: Jeff Endelman
Secretary: Joe Kuhl

Attendance: 47
Meeting called to order at 5 pm.
Notepad was circulated to record attendance.
No amendments to the agenda.

1. Updates:

- a. David Douches – 2016 PAA Symposium & 2016 PAA annual meeting in Grand Rapids, MI
 - o Title: Transformative Technologies in Potato Breeding

- Should include all tools, not just molecular. During an earlier conference call multiple topics were discussed: Gene editing, Diploid breeding, Near-infrared analysis, Hand held devices, Next-generation & third-generation sequencing, and other topics.
- A number of potential speakers were mentioned. It was noted that the 2014 PAA had 6 speakers, while 2015 had only 3, and that 6 speakers would be preferred. It was pointed out that 2015 originally had 6 speakers arranged but 3 of them could not participate.
- Kent McCue thought that \$4,000 might be available to bring in a speaker(s)

b. David Douches – New SNP array (v3)

- At the 2014 EAPR there was a thorough discussion of array technologies and specifications, but the number of SNPs to include was not resolved, i.e. larger number of SNPs vs. a smaller number of SNPs.
- A screening procedure should be used to evaluate the quality of the array (it was later mentioned that screening would cost ~\$125,000 and would potentially include 200 tetraploid genotypes). It was noted that the v2 array included the original 8,000 SNPs plus ~4,000 more for a total of ~12k SNPs & The v2 array will probably be available for another year before supply runs out.
- The specifics of the v3 array should be discussed, i.e. which and how many SNPs should be added to the 12k chip.
- It was suggested that low and high density chips should be considered (to be used for different objectives). As the quality of the potato genome is improved, more SNPs would be annotated.

c. John Bamberg – Gene bank update

d. Paul Bethke – SCRI acrylamide project

- Key points: 1) Project ends in 13 months; 2) No plans for follow-up; 3) What is next?

e. Tom Salaiz – NFPT update

- A discussion needs to occur regarding a national breeding program (for low acrylamide)
- A possible venue is the U.S. Potato Board meeting in Grand Forks, ND August 11–13, 2015

f. Jolyn Rasmussen – Simplot Innate Update

- A brief description of generation 1, 2 and 3
- Aim 90% export market – Canada, China, Japan, S. Korea, among others
- UK partnership for late blight resistant lines
- Closed-loop system for managing Innate lines (Innate Stewardship)

2. Other business:

a. Shelley Jansky gave short recap of June 2015 meeting on “Diploid Breeding and Genetics” in Madison, WI. Raised possibility of PAA Symposium on diploid breeding and genetics – possibly 2018? Decide to discuss further at lunch on Tuesday (July 21)

b. John Bamberg-presented award to Chuck Brown for 16 years of service on NRSP-6 Technical Advisory Committee.

c. Discussed AJPR special issue, invited review articles

3. Election of secretary

a. Jeff Endelman nominates Sagar Sathuvalli; Shelley seconds. Sagar is elected by voice vote.

Meeting adjourned shortly after 6 pm.

Certification

Annual Meeting at Holiday Inn in Louisville, KY, December 4, 2014. Vice-Chair Jeff McMorran welcomed the people at 8:40 AM and asked for introductions. The approval of the morning agenda and minutes of the last meeting were duly moved, seconded and passed. The secretary was asked to send the minutes to Lori ASAP.

1. **Virus Management Plan:** Rick Zink and Alain Boucher said that we need to identify the objectives of the PVY Plan. They are looking forward to having discussions between the two countries and having our scientists involved. "We need to understand the challenges of state programs to change rules and commitments to be made when rule changes are needed".

2. **Potato Wart:** containment and continuing surveillance Canada. Alain Boucher reported that there had been much discussion beginning from last year. There had been a webinar, a review and new detections. He gave a bit of the potato wart background. Potato wart has been in Newfoundland since 1910's: There is limited distribution on the coast and in gardens. Resistant varieties are promoted. There are inspection stations at the airport and at ferry terminals. There is education and destruction of contaminated/regulated material at points of exit. In Prince Edward Island, the first detection was in 2000. It was followed by the development of the Three-Year Operational Work Plan, which led to the current Potato Wart Long Term Domestic Management Plan. It included early detection and allowed to effectively control, contain and suppress potato wart as well as maintain market access. Subsequent P.E.I. finds were in 2002, 2004, 2007 and 2012. Two fields were subsequently identified and regulated in association to a detection in 2012. They were determined through bio-assay to be infested in 2013 and 2014. There are 359 fields in potatoes (2014) that require CFIA post-harvest surveillance. CFIA has completed all required post-harvest surveillance and no potato wart symptoms have been observed. Overall, there are 22 potato wart index fields (378.7ha) in P.E.I. The index fields represent <0.1% of land used annually for potato production in P.E.I. Less than 0.3% of the land used for potato production is under CFIA restrictions related to potato wart. Long-term and extensive regulatory measures are applied to Index and other associated fields. The process of lifting restrictions is extensive. It means that continuous monitoring following a potato crop is essential.

3. **Soybean Cyst Nematode:** Alain Boucher indicated that the soybean cyst nematode (SCN) is deregulated in Canada and adjustments to CFIA directives have been done. Potato import requirements associated to SCN have been removed. This topic can be taken off the agenda.

4. **Potato Cyst Nematodes:** For the US Jonathan Jones reported (Attached) that the May 2014 guidelines have been accepted. In New York State on September 17, 2014 – We removed 600,524 acres in Orleans, Nassau and Suffolk Counties in New York from regulation for golden nematode. Deregulation based on requirements in revised potato cyst nematode guidelines. Primarily fields that are no longer in agricultural production or that have not grown host crops for >30 years. Since 2010, APHIS has removed 964,661 acres from regulation in New York and 312,708 acres are currently regulated in 8 counties. 5,985 infested acres are under active

control and mitigation to prevent spread of the golden nematode and to reduce populations. Soil sampling is ongoing, in 2013 approx. 5000 samples from 142 fields, totaling 1700 acres in 20 NY counties, with no new detections.

For the update on the Pale Cyst Nematode Program in Idaho Jonathan Jones mentioned that 4,600 acres were deregulated based on the survey in 2014. The regulated areas are: 23 infested fields totaling 2,531 acres. There were two new detections in 2014: in May 2014 – 92 acres, which were previously regulated and in November 2014 there were 139 acres that were 3 miles from nearest infested field but associated with 2006 infestation. There are 6,086 acres associated fields, which will increase with traces from 11/14 detection).

Eradication is ongoing with fumigation and planting of bio-fumigants. Nine infested fields from 2007–2008 at 0% viability using stain. 8 of 9 fields have successfully completed 3 rounds of greenhouse bioassay testing. That allows potato production with ongoing regulatory and survey requirements until 3 negative surveys following susceptible host crops have been conducted. For research the USDA is working on: (1) Litchi Tomato, or sticky nightshade. They have researched it and want to use it in an infested field in 2015. (2) Hatching factors are chemical compounds produced by host plants stimulating cyst hatch. (3) Biocontrols/biofumigants: Fungi and rape seed meal. (4) Development of potato cystnematode resistant Russet Burbank potatoes. Alain Boucher reported on the potato cyst nematode update in Canada: There is ongoing sampling and testing in regulated areas in St. Amable, QC. They carry out sampling and testing using Method A (15 pounds per acre) every 36 months to maintain pest free places of production. And they carry out sampling and testing using Method B (5 pounds per acre) following production of resistant potato varieties on regulated fields. In Central Saanich, BC: sampling and testing of all agricultural fields is carried out in the regulated area. On exposed and non-exposed fields they use 2 X Method A (15 pounds per acre) and on infested fields they use the Viability Assay Method (45 pounds per acre). 2014 marked the final year of a five year effort to sample all agricultural land within the regulated area. Since 2010 a total of 24,140 samples has been collected for analysis and the testing is complete on the majority of the samples submitted. The results are mostly negative to date, but positive results are expected from fields known to be infested with potato cyst nematode. In Newfoundland and Labrador guidelines would permit the establishment of pest free places of production and pest free productions sites. What is a field?

Willem Schrage quoted ISPM 5, the glossary of phytosanitary terms, which gives these two definitions: Field is a plot of land with defined boundaries within a place of production on which a commodity is grown [FAO, 1990] and a Commodity is a type of plant, plant product, or other article being moved for trade or other purpose [FAO, 1990; revised ICPM, 2001]. The latest PCN guidelines were quoted: "A field that has been surveyed two times at a minimum rate of Method B and found negative for PCN would be exempt from further PCN surveys for the following three potato crops. Following the exempt period, the field would be subject to an additional survey at a minimum rate of Method B, and if found negative, that field would again be exempt for an additional three potato crops". It was suggested that it seems most logical to use the definition that defining a field as having one commodity. Boundaries during the cropping season are obvious and can be recorded with markers or GPS coordinates. Deb Hart said that in Western Canada boundaries around a field were not the boundaries of the potato crop within a field. John Keeling suggested to have the definition reflect the intent of the guidelines. This suggestion should be forwarded to the PCN advisory group.

5. Reporting of laboratory tests on the **NACSPHC** -need for uniformity: Because CFIA relies on approved laboratories they ask the certification agencies to include the testing laboratory on the North American Plant Health Certificate. "Please report all testing that has been done for virus and BRR, especially for nuclear stock", Alain Boucher asked.

6. **BRR:** Early detection and regulatory actions: Alain Boucher gave a presentation (Attached) indicating that the number of BRR cases in Canada has been reduced greatly since the introduction of the Bacterial Ring Rot (BRR) Control Program in Canada. Robert Davidson suggested the certification agencies to check the BRR protocol and submit comments to him ASAP.

7. **Minituber from the UK:** There is a request to USDA/APHIS from Scotland to consider allowing the export of mini-tubers to the US without going through post-entry quarantine. Willem Schrage read his submission, (Attached) suggesting that mini-tubers should at least be planted in a greenhouse and plants be tested before the progeny of that greenhouse crop may be planted in a field. (Attached). Alain Boucher said that there is pressure to skip the quarantine step. Amy Charkowski said that it would have been more acceptable if tissue culture plantlets would have been the first step. There is hope that there will be Mexican participation in the discussions through NAPPO. There is no known information about any similar requests to Mexico. The greenhouse may be possible as a form of post-entrance quarantine. Jorge Abad should be asked to supply a list of tests. APHIS and/or the certification agencies can then take a sample of the lot and send it to post entry quarantine while it is growing. New imports should be consigned and samples should be taken for testing. John Keeling suggested to put concerns in writing. The comment period was asked to be extended. We should send our concerns preferably through the APHIS channels. Alain Boucher reported in Canada all quarantine entries from Europe have been clean.

8. **Canadian Seed Potato Quality Management** Program update: Alain Boucher indicated that seed potato shipments from Canada destined to the US are inspected by CFIA.

9. **NAPPO Potato Panel Activities:** Alain Boucher is the chair of the NAPPO Potato Section. Rick Zink indicated that ISPM33 will be a priority. The NAPPO potato panel continues to have three assignments to work on.

10. **UNECE report** (UNECE guides and disease booklet): Willem Schrage explained that the Specialized Section on Seed Potatoes of the UNECE has prepared and is preparing our inspection guides. The "disease and pest guide" has been printed in Geneva and in the US it has been distributed to certification agencies. They have run out of copies, but there is a request from the UK to have more copies printed. The "field guide" is almost ready for print. The "tuber inspection guide" should be finalized in Finland in October. The "inspection service guide" is developed by New Zealand and is expected to be ready for Finland.

"CERTIFICATION SECTION" PAA Business Meeting

Opening by the chair, Kent Sather, was at 3:10 pm.

1. The 2013 Minutes from Memphis were approved in the morning meeting.

2. **Acreage Report:** Rob Davidson thanked staff in his office for their collaboration. He asked the agencies to check variety names. There is no minimum acreage for reporting in the US, although 0.1 acre is often the limit for reporting. Question about availability of varieties is often about the varieties with very small acreages.

3. **Agencies reports:** Colorado has submitted changes to their seed law removing the zero tolerance for PVYN and PVYNTN. If changes are accepted there will no longer be a need to do a PVY strain determination if it is less than 1% PVY. If PVY in the lot is over 1% the strain still needs to be determined because there will be a 1% tolerance for PVYN or PVYNTN. Late blight quarantine is still on. The sample is 400 tubers. All seed planted in CO needs post harvest test.

People should download requirements from the Colorado web site. Idaho seed law references are for commercial standard. BRR test is required with PCR for all imported seed potatoes.

4. **Other updates**

- a. PVY working group established last year see report on management plan.
- b. Agency Contact List: Jeff McMorran
- c. General Agency Survey: Jeff McMorran
- d. Regulations Summary: Susie Siemsen
- e. North American Certified Seed Potato Health Certificate: Alex Crockford. The certificate template on the PAA site is out of date and needs to be changed. The chair is asked to take care of changing the health certificate template. Idaho would like to see a box to check whether a post-harvest BRR test has been carried out.
- f. Post Harvest Survey: Steve Marquardt
- g. PAA certification section Web page: Rob Davidson spent time to update the North American potato variety list. Two columns have been added with PVP info and links to sites. There is a list of breeding programs. Rob Davidson asked to submit ideas about what needs to be on the PAA website.
- h. Latent virus list: Jeff McMorran
- i. Limited Generation Table: Alan Westra

5. **Elections:** Chair: Jeff McMorran; Vice Chair: Ellis Additon; 1st year director: Trevor Yu; 2nd year director: Mia Kirk; Secretary: Willem Schrage; Treasurer: Kent Sather.

6. Summer meeting: Suggestion to come up with Seed Symposium for The PAA.

7. Date and time next year winter meeting: Chrystal City, DC; December 2, 2015-NPC and December 3, 2015-PAA

8. Other business: Change bylaws to allow separate secretary and treasurer.

Adjournment was at 5:00 pm.
Submitted by William Schrage

Extension, Production and Management

- 1. Start of Meeting: 6:30 am on Tuesday, July 21, 2015
- 2. Minutes of the 2014 EP&M Section Meeting were approved.
- 3. **Area Reports:**

New Brunswick: Planting was delayed due to the long winter and then rain once things got started, so they did not finish planting until June. June was cool and resulted in

secondary dormancy in some fields, i.e. the seed was not sprouting, but was not rotting either. July has been warm and the insect pests are starting to come on.

Quebec: Delayed planting due to the long winter and cold spring.

Maine: It was a cool spring, even by Maine standards. June was cold and dry. They are finally getting some rain and heat. No late blight has been reported yet. They have seen soft rot (*Dickeya* spp.) and do not know why it has been so bad in the seed this year. Steve Johnson noted that *Dickeya* is like "black leg on steroids" and waits for the heat before it comes on. The pathogen causes tubers to rot in the field. He also noted that the seed usually looks fine with no signs of seed rot in storage. The disease progress is rapid in the field once the heat comes on and spreads. The potato industry in Maine is quite worried about *Dickeya*. Samples are being taken from seed recipient states.

New Jersey: They are also having problems with *Dickeya* soft rot in New Jersey.

New York: Planting was a little delayed on Long Island due to rain, and then it got dry. There were some poor stands reported on Long Island. Black leg has been a problem, also salt injury. The rain is coming on now. Planting was significantly delayed in Upstate, but the crop looks okay now. Isolated storms and flooding have impacted some farms.

Michigan: Planting was on time. Rain has been sporadic. Some black leg (*Dickeya* spp.) has been seen and also some aerial vine rot affecting several varieties. Late blight has not been reported yet. Tuber set was good and there is potential for a good crop this year. They are just starting to see some heat stress now.

North Dakota: Planting was 1–2 weeks early this year. No major problems have been reported so far. Acreage is up a little.

Minnesota: Similar to North Dakota. No late blight has been reported yet. They are starting to dig fresh reds this week.

Wisconsin: The crop looks good. They are starting to harvest fresh market reds and yellows. It has been rainy and some late blight has been reported, but it appears to be under control. Acreage is steady.

Colorado: It was a difficult spring with early rain. PVY is still a big concern. Also tobacco rattle virus.

Idaho: Late blight has been reported in Idaho. It is US23. There have been a lot of scattered thunder It has been a hot season so far. The crop has shown signs of heat stress. Potato psyllid numbers are up, and one field has been reported to have zebra chip, but it appears to be under control and is not spreading. Some late blight has been reported. It is US 8.

4. **NPC Poster Session:** Andy Robinson reported that the poster session included many papers presented by EP&M section participants.

5. **Future EP&M symposium:** At last year's meeting we suggested organizing a symposium on remote sensing, but the group decided to broaden the topic. We decided to offer to organize a symposium for 2017 in Fargo, ND. The topic will be "Decision Support Tools and Technologies for Growers". The organizing committee will include Carl Rosen, Nora Olsen, Carrie Wohleb, Andy Robinson, Ken Frost and Steve Johnson. Andy Robinson will propose this to the Executive Committee for approval. We brainstormed a few presentation ideas.

- a. remote sensing using drones
- b. diagnostic tools, especially online tools
- c. real-time weather modeling
- d. drones used for spot-spraying, Y. LeClare with McCain's
- e. ToPPS
- f. apps
- g. How do growers get the information they need?

6. Nomination for EP&M section for 2016: Raina Spence (WA State Potato Commission) was elected to serve as the Secretary last year, but she took a different job and could not serve. Therefore, we needed to elect a new Secretary and Vice Chair. Robert Gareau was nominated and elected to serve as Secretary. Ken Frost was nominated and elected to serve as Vice Chair. Vikram Bisht moves to the position of Chair.

Submitted by Carrie Wohleb, Immediate Past Chair EP&M

Physiology

Monday, July 20, 2015

Present: Ken McCue Kazuto Iwama, Loretta Mikitzel, Paul Bethke, Jake Blauer, Rhett Spear, Tom Salaiz, Carl Rosen, Nora Olsen, Andy Robinson, Ed Lulai, Sastry Jayanty

1. Minutes accepted A. Robinson moved, Paul Bethke seconded
2. Symposium has had a few changes. Howard Davies had a medical condition and couldn't make it. So we'll move the talks up and have a panel discussion at the end.
3. Physiology discussion on editor for AJPR – Kent McCue. Loretta will contact John Bamberg about talking to Kent to be an editor.
4. Ideas to strengthen the Physiology section and get new members? Announce at President's Reception. Give people assignments to increase attendance.
 - a. Could have presentations in section meeting.
 - b. Ideas would be to talk about the physiology of Blazer Russet.
 - c. Innate by Simplot.
 - d. The physiology behind McDonald's requirements for French Fries.
 - o Could set a host of topics to discuss each year about the physiology of accepting a McDonald's fry. In the meeting report for the APJR could publish this problem discussed and people could use it as they write a paper or grant proposal.
 - e. Planting seed in cold soil. Some growing and some not.
 - f. Heat stress– heat crinkle. Extreme heat issues from a physiological standpoint.
 - o A climate change talk
 - g. A possible symposium topics would be about climate extremes and climate change
 - h. Long term storage of cultivars
 - i. Shatter bruise, fusarium susceptibility, black spot bruise
 - j. Wound healing, skin set

5. We should decide on a few topics for the next few years.

- a. Jake moves and voted on this
6. Andy moved to have topics for 2016: Physiology of Blazer Russet, 2017: Shatter bruise, 2018: Wound healing/Skin set
 - a. 2016 speaker suggestions: Mike Thornton, someone from McCain's, Nora will talk from Tri-State and Tom to talk to someone from Industry. Chair responsibility to chair.
7. Discussion of about 10 minutes on a specific topic. Could be a short mini-symposium. Keep this in mind because you could have a few speakers and advertise. Could work out really well. Plan out agenda for the next few years. This can be put in the minutes.
8. Ed – each talk there should be an attempt to attach a financial loss to the extent possible. Could be used in citation in minutes which will help in the research.
9. Jake: moves, 2nd and approved to have a 5 minute introduction and discussion from each member. Maybe have 3–4 people come and discuss. Get an ag economist with some more solid data. Cite this in the minutes and then it can be used. Suggest to speakers to write a paragraph with a few facts to include in the minutes with their talking points.
10. Advertise on the PAA webpage for the meeting. Strengthen the Physiology section on the webpage by including information on this.
11. Elections: Rhett Spear promoted to Chair, Vice Chair-Andy Robinson stepping down. Vice chair nomination: Sastry Jayanty, Secretary: Nora Olsen, 2 yr Director: Tom Salaiz, Andy moved, Kent 2nd. Unanimous vote.

Plant Protection

July 20, 2015

1. Meeting called to order 5:05 PM
2. Approximately 23–25 people were in attendance over the course of the meeting
3. Agenda was approved for this meeting
4. Minutes were approved from previous meeting
5. Treasurer's report:
 - a. \$1,623.07 currently in the bank
 - b. \$0.87 earned in interest last year
 - c. we agreed to continue suspension of dues collection since we have no plans to use these funds
 - d. we understand that up to \$4,000 may be available to support a future symposium
 - e. report approved
6. Area Disease Reports
 - a. Colorado – no issues severely affecting this year's crop; some tobacco rattle virus found, possibly due to cool wet spring and use of Sudan grass in rotation
 - b. Idaho – late blight found in eastern ID (US23, which is ridomil sensitive); late blight was widespread during 2014 following rainy conditions; similar conditions recently

suggest it may become widespread this year; volunteers and storage and possibly seed could be sources; Roundup-resistant kochia also was found in ID last year; surveys are being conducted this year for resistant kochia

- c. Wisconsin – US23 also found, but overall crop is in good shape
- d. Columbia Basin (WA & Oregon)–late blight in WA; zebra chip also found in WA
- e. New Brunswick – wet spring led to late planting, but crop is catching up; no late blight reported as of yet; PVY has been difficult to find for the last two years, despite higher aphid numbers this year; low PVY probably from timely oil and insecticide sprays
- f. North Dakota – low aphid counts compared to last year; no late blight found as of yet
- g. Ontario – five growers have reported late blight
- h. Maine – no late blight reported yet; PVY is a concern, but growers spraying oils and insecticide
- i. Pennsylvania – late blight found in Erie County

7. Symposium discussion

- a. 2018 we are up for a symposium
- b. possibility to partner with the certification group, which has not sponsored a symposium for many years
- c. Pam Hutchinson and Mike Thornton suggested a symposium on pale cyst nematode as an example of a quarantine
- d. pest (other quarantine issues could be included as well) & pale cyst nematode has been an issue in Idaho, which might be the site of the 2018 meeting & Pam agreed to present this idea to the EC at tomorrow's meeting & group approved of moving forward with this symposium idea

8. Other Business

- a. Invited Review articles for AJPR requested from EC & we agreed that it would make sense to get list of articles in progress from Shelley before proceeding with suggestions, which will later be solicited by emails among the group & international invited speaker suggestions are being solicited from the EC & we agreed to all keep this in mind to make future suggestions

9. Election of Officers

Steven Johnson was unanimously elected to be chair & Ken Frost was unanimously elected to be secretary & after serving as secretary for a year, Ken will rotate to chair, and a new secretary will be elected

10. Meeting Adjourned at 5:49 PM

Utilization and Marketing

The Annual Meeting of The PAA Utilization and Marketing Section was called to order by the Chair, Bret Nedrow at 5:10 pm ET on July 20th, 2015. The following persons participated in the meeting: Bret Nedrow, JR Simplot; Joe Guenther, University of Idaho/ JR Simplot; Rebecca Jones, JR Simplot; Allan French, JR Simplot; Loretta Mikitzel, Government of New Brunswick; Robert Gareau, SEQ Marketing; and Gina Greenway, University of Idaho.

1. OLD BUSINESS

a. The 2014 symposium summary needs to be done to be published in the APJ. B. Nedrow will ask the EC if the Power Point presentations from the speakers would suffice for summary. Need to get Power Point presentations from the 2014 symposium; Mark Pavsek may have, B. Nedrow will follow up with Mark. If a summary needs to be done, R. Gareau volunteered to help. A comment was made that Dr. Hak Tae Lim who presented at the 2014 symposium would be good to approach for a written report.

b. Discussion about how the 2014 symposium was received. General consensus is the U&M symposium has valuable information. Good for potato breeders to relate what the consumers want.

c. Good ideas for the next U&M symposium in the 2014 minutes. The U&M section officers will keep a rolling idea agenda year to year for forward momentum.

d. Discussion about 2014 ideas to have Roy Navarre, Chuck Brown, McCain, or Timber River Farms talk at the 2015 U&M section meeting. Good idea and will try again for 2016.

MOTION moved by R. Jones, seconded by G. Greenway, unanimously passed to approve the minutes of the Utilization and Marketing section meeting of July 28th, 2014.

2. NEW BUSINESS

a. B. Nedrow gave update on the PAA. The PAA is financially strong and has a good executive board. Lori Wing is retiring in 2018; there is discussion about the direction of the administrator position. Membership is good, Potato Expo brought in 14 new members. The tactic of divvying up list of the non-renewals worked well. There are 550 current members in The PAA, with around 200 members attending the Annual Meeting. Site selections are getting a little hard, discussion of ways to make administration easier on LAC's.

b. Discussion around the sections, what their role really is, and if more sections should be combined. B. Nedrow said there is lots of discussion in the Executive Committee about what the organization looks like going forward.

MOTION moved by R. Gareau, seconded by J. Guenther, unanimously passed to keep the Utilization and Marketing Section officers in place: B. Nedrow, Chair; R. Jones, Vice-Chair, B. Harris, Secretary; Jeff Bragg, Director.

MOTION moved by R. Jones, seconded by J. Guenther, and unanimously passed to adjourn the Utilization and Marketing Section meeting.

Respectfully submitted,
Rebecca Jones, Utilization and Marketing Section Vice-Chair (filling in for Ben Harris, Secretary)

Ad hoc Committee Reports:

Washington LAC 2014

Washington LAC Co-Chair, Mark Pavsek, reported that the 98th Annual Meeting of the Potato Association of America had 281 attendees from 22 states, 7 provinces, and 10 countries. There were 31 sponsors. He noted that the banquet was included in the registration fee to encourage attendance and to allow state and federal employees to attend without incurring out-of-pocket expenses.

Maine LAC 2015

Maine LAC Co-Chair, Leigh Morrow, reported that there were 207 registrants including 196 delegates and 31 accompanying persons. They will end up in the black. There were 23 sponsors. Morrow thanked Andre Alyokhin for working on the program, Greg Porter for working on the tours and transportation, and Teresa with U of Maine Conference Services for registrations. He also

thanked Lori Wing for her help. He noted that 150 people are registered for the banquet. There are 50 registered for the agricultural tour and 12 for the coastal tour on Thursday. The two coastal tours organized for accompanying people during the meeting were both attended by about 10 people.

Michigan LAC 2016

Mike Wenkel reported that the Michigan LAC is planning the 100th Annual Meeting of the Potato Association of America. It will be in Grand Rapids, MI on July 31 to August 4, 2016. He noted that the meeting will be held at the Amway Grand Plaza Hotel, which is a large hotel with nine restaurants and lounges and 600+ rooms in downtown Grand Rapids. This is the same location (but it was the Pantlind Hotel) where The PAA Annual Meeting in 1915 was held. The Michigan LAC Co-Chairs are Dave Douches and Mike Wenkel. Willie Kirk and Chris Long are also serving on the Michigan LAC. The program for the meeting will be similar to the Maine meeting, but will include a Grower-oriented Session on Monday morning, which means the Symposium will be on Monday afternoon. An agricultural tour in Western Michigan is being planned and will highlight diverse live-stock, fruit and vegetable production.

North Dakota/Minnesota LAC 2017

Andy Robinson reported that the North Dakota/Minnesota LAC is planning to host the meeting in Fargo, ND at the Holiday Inn. They plan to follow a similar format with concurrent sessions on Monday-Wednesday, the business meeting and a banquet on Wednesday, and optional tours on Thursday. The meeting will probably be scheduled for late July, 2017.

Executive Committee Actions:

Executive Committee Actions - Review and Ratification: (As per Constitution Article V, Section 4: All actions of the Executive Committee or officers are subject to approval by The Association at the next Annual Business Meeting.) A copy of all EC minutes since 2014 annual meeting was emailed to members in early July for review and copies were also made available in Portland.

MOTION moved, seconded and unanimously passed to accept all of the EC Committee Actions in the minutes reported since the 2014 Annual Business Meeting of the Potato Association of America.

Other actions taken before or during this annual meeting were as follows:

a) the vision statement on the website was long and outdated, and so the EC shortened and updated it. The updated version is now on the website.

b) the staff supervisory structure was revised so that one person, the immediate Past President, will be the direct staff supervisor with the immediate Past President, President, President-Elect, and Vice President to perform staff evaluations.

c) accepted the EP&M Section symposium on "Decision Support Tools and Technologies for Growers" for the 2017 Annual Meeting.

d) accepted the joint Plant Protection and Certification Section symposium on "Impact of Quarantined Pests on the Potato Industry" for the 2018 Annual Meeting.

e) accepted Idaho as the host of the 2018 PAA Annual Meeting.

f) agreed to cash out the 2015 payout from the General Endowment Fund.

g) agreed to use \$4,000 of the payout from the Endowment Fund to support travel expenses for the Invited International Guest Speaker in 2016.

MOTION moved, seconded and unanimously passed to accept EC actions (noted as a-e above).

MOTION moved, seconded and unanimously passed to accept the 2015/16 payout of the General Endowment Fund (noted as f above).

MOTION moved, seconded and unanimously passed to use \$4,000 of the 2015/16 payout from the Endowment Fund to support travel expenses for the Invited International Guest Speaker in 2016 (noted as g above).

Announcement of Officers

Past President Nora Olsen announced the names of the newly-elected PAA officers: Loretta Mikitzel will be the PAA President; Mike Thornton will be the President-Elect; Shelley Jansky was elected PAA Vice President; and André Gagnon and Mark Pavek were elected for the two vacant Director positions.

Recognition of Maine Hosts

President Jensen called upon the newly elected PAA President Loretta Mikitzel to provide recognition for the exceptional efforts of the Maine Local Arrangements Committee in hosting the 99th Annual Meeting of the Potato Association of America. Mikitzel offered the following "Resolution of Appreciation":

Whereas the 99th Annual Meeting of the Potato Association of America was held in Portland, Maine from July 19 to July 23, 2015; and,

Whereas the meetings were hosted by an enthusiastic and well-organized Local Arrangements Committee under the able direction of Co-chairs Leigh Morrow and Gregory Porter who welcomed and graciously hosted 196 delegates and 31 accompanying persons from 22 states, 5 provinces, and 6 countries, with the support of 23 sponsors; and,

Whereas the Conference Coordinator and the meeting site, with their excellent facilities and assistance, provided an outstanding venue and opportunity to renew friendships, make new acquaintances, and interact with professional colleagues from North and South America and around the globe; and,

Whereas the meeting program provided an excellent forum for sharing scientific information from outstanding presentations through its symposium with 4 presentations, 79 oral presentations, and 15 posters; and,

Whereas participants were provided with opportunities for many varied activities, foods and drink, and experiences in a beautiful city and state;

Therefore, let it be resolved that on this 29th day of July we of The Potato Association of America extend our heartfelt and most sincere thanks to the Maine Local Arrangements Committee, their sponsors, and all who contributed to the success of the annual meeting. Please join me to acknowledge a job well done!

The membership acknowledged Co-chairs Leigh Morrow and Greg Porter with a standing ovation and applause.

Passing of the Gavel

There being no further business, the 99th Annual Business Meeting of The Potato Association of America concluded with the traditional passing of the gavel from outgoing President Andy Jensen to incoming President Loretta Mikitzel. The membership welcomed the new president with a round of applause, and then acknowledged the contributions of the out-going president with another round of applause.

The Potato Association of America
99th Annual Meeting Portland, Maine USA
July 19 – 23, 2015

Awards Banquet
Wednesday, July 22, 2015

President Andy Jensen presided over the program of the Awards Banquet which took place the evening of Wednesday, July 22, 2015 in Portland, ME. President Jensen asked the audience to observe a moment of silence to remember PAA members and the friends and family of members who passed away this year. He acknowledged the meeting sponsors and sustaining members of The PAA. Then he recognized the past presidents in the room. President Jensen recognized and asked for a round of applause for Noelle Barkley who was the special International Guest for this year's PAA Annual Meeting.

Editor-in-Chief John Bamberg had plaques for the six outgoing editors of the AJPR: Chuck Brown, Rob Davidson, Joe Guenthner, Larry Kawchuk, Hassan Mojtahedi, and Jeff Suttle. Davidson, Guenthner, and Suttle were presented their plaques at the Banquet. John Bamberg then presented the Outstanding Paper Award for the AJPR in 2014 to Amy Charkowski (corresponding author) for the paper: C. Mattupalli, J.D. Glasner, and A.O. Charkowski (2014) A Draft Genome Sequence Reveals the Helminthosporium solani Arsenal for Cell Wall Degradation. AJPR 91(5): 517–524. Amy Charkowski said she was honored to receive the award and praised her graduate student, Chakradhar Mattupalli, for the work he did.

Paul Bethke, Chair of the Frank L. Haynes Graduate Student Research Competition Award Committee, recognized the members of the committee and asked them to stand and be applauded for their efforts. Paul Bethke indicated that 14 students competed this year and 3 awards were given.

3rd place – Amanda Crook, North Dakota State University, "Marketability and Seed Production Effects from Glyphosate Drift Injury to Red Norland Potato."

2nd place – Luke Steere, Michigan State University, "Predicting Potato Early Die Using the Conditional Probability of Verticillium dahlia Colony Forming Units in Michigan Commercial Potato Fields."

1st place – Derek Herman, Washington State University, "Screening Sweetening-resistant Clones for Tolerance to Heat Stress."

Past President Nora Olsen asked all of the Honorary Life Members in attendance to stand and be applauded. Donald Halseth, Gary Secor, Neil Gudmestad, and Alexander Pavlista were inducted as new Honorary Life Members of The PAA. Joe Sieczka presented the award to Don Halseth. Larry Hiller presented the award to Alexander "Sasha" Pavlista. Andy Robinson and Phil Nolte both spoke about Gary Secor and Neil Gudmestad. Gary Secor and Neil Gudmestad were not able to attend the Annual Meeting or Banquet, but both provided prerecorded videos that were presented to the audience.

President Jensen recognized the Maine LAC co-chairs, Leigh Morrow and Greg Porter, for a wonderful meeting and presented them with plaques of appreciation. They thanked the other members of the Maine LAC for their hard work.

Out-going President Andy Jensen passed the gavel to in-coming President Loretta Mikitzel. Loretta Mikitzel presented Andy Jensen with a plaque for his service and the members applauded him.

Mike Wenkel extended an invitation to the 100th Annual Meeting of the Potato Association of America in Grand Rapids, Michigan, July 31 to August 4, 2016.

Respectfully submitted, Carrie H. Wohleb, PAA Secretary