

ANNUAL BUSINESS MEETING MINUTES

Wednesday, August 3, 2016

President Loretta Mikitzel called the 100th Annual Meeting of the Potato Association of America to order at 1:30 p.m. in Grand Rapids, Michigan, USA. A quorum of members was present. President Mikitzel asked for a moment of silence as a tribute to PAA members and friends who passed away since the last business meeting: Frank Fronek, Gary Reed, Pete Thomas, Rudra Prasad Singh, Donald Young, and Bob Goth.

President Mikitzel called for additions to the agenda. On behalf of the Idaho 2018 LAC, Mike Thornton asked for a discussion about whether tours should be scheduled to run concurrently with the PAA Annual Business Meeting. This was added to the agenda under New Business.

MOTION moved by A. Thompson, seconded by V. Bisht and unanimously passed to accept the Annual Business Meeting agenda as amended.

President Mikitzel called for additions or corrections to the minutes of the 99th Annual Business Meeting as printed in AJPR 93(2):102-149. One error was noted by Larry Hiller: “cash out the 2015 payout” should read “cash out the 2015 and 2016 payout” on page 113, column one, item (f).

MOTION moved by M. Thornton, seconded R. Davidson and unanimously passed to approve the minutes of the 99th Annual Business Meeting AJPR 93(2):102-149 as corrected.

Officer Reports:

President Report

Since the 2015 annual meeting, I chaired eight teleconferences with the Executive Committee. Apex Web Studio was contracted for online abstract submission and uploading of presentations for the annual meeting. This service made submitting abstracts more efficient and replaced the old system of emailing the abstracts to the Secretary. A new PAA banner was ordered to display behind the PAA booth at the Potato Expo. The first page of each article in the AJPR is now branded with the PAA logo and, from now on, abstracts of the winners of the Frank L. Haynes Graduate Student Research Competition will be identified in the published abstracts in the AJPR. Two committee Chairs were appointed: Hector Lozoya-Saldaña for the Global Outreach Committee and Andrew Robinson for the Website Committee.

A major undertaking this year was updating PAA’s constitution and bylaws. A consultant was hired to assist in this task, and to ensure that the new bylaws are in compliance with state, federal and IRS laws and regulations. Procedures that are in the current bylaws have been removed and placed in a procedures manual. This gives more flexibility in the organization’s operations and eliminates voting of amendments to bylaws when a procedure is changed.

Respectfully submitted,
Loretta Mikitzel, President

Treasurer Report

Treasurer Larry Hiller reviewed the PAA FY 2015 operating budget vs. actuals and the PAA FY 2016 operating budget vs. actuals to date. Information about the budget is to be posted on the “PAA Members Only” section of the PAA website at <http://potatoassociation.org/>.

Administrator Report

Administrator Lori Wing reviewed the membership numbers for the PAA. There are 380 individual members, 51 students, 6 emeritus members, 62 active Honorary Life Members, and 27 sustaining members for a grand total of 534. She noted that the PAA will no longer be accepting payments for multiple year memberships. The AJPR is sent to 380 individual members, 14 Honorary Life Members, 27 sustaining members, and one graduate student.

Standing Committee Reports:

Editorial Board Report

The full current Editorial Board can be found on the PAA website. Recent changes: Brown is succeeded by Veilleux & Sathuvalli, Davidson is succeeded by Whitworth, Guenther is succeeded by Greenway, Kawchuk is succeeded by Tanaka, Mojtahedi is succeeded by Halterman, and Suttle is succeeded by McCue.

Springer provides PAA with an annual detailed status report for AJPR which is posted on the PAA website. Here are highlights: In 2015, stats for the year were average in most respects. Editorial Board performance (2013, 2014, 2015) = Submitted (114, 111, 132), Accepted (64, 64, 63), Days to first response to author (62, 72, 53), Days to final accept decision (131, 131, 127), Reject (41%, 38%, 45%). Currently, 18 papers are in OnLine First print queue.

The selected Outstanding Paper for 2015 was by corresponding author Rodney Cooper: Relationship between plant vascular architecture and within-plant distribution of ‘*Candidatus Liberibacter solanacearum*’ in potato (p. 91)

The 2013 Quebec PAA symposium on bacterial diseases has been published (p. 215).

An Invited Review was published on use of molecular markers for breeding (p. 455). Two more invited reviews have already been published in 2016, with an additional two Invited Reviews in the Online First print queue.

Journal success metrics in 2015: Full text downloads = 82,083 (up 27%). Five year impact factor = 1.206. Institutions with AJPR access = 9611 (up 11%). The EB gets prompt and efficient service from Springer personnel. We now have iThenticate anti-plagiarism software that we are using on every manuscript. This has stopped at least two copied manuscripts before review.

PAA provided \$5,000 for an editorial assistant who helps the EiC manage manuscripts in Manuscript Tracker.

Respectfully submitted,
John Bamberg, EiC

Finance and Endowment Committee Report

Bret Nedrow reviewed the finances and discussed a strategy that has been outlined for managing the PAA's investments. Detailed information about the PAA's finances and investments is to be posted on the "PAA Members Only" section of the PAA website at <http://potatoassociation.org/>.

President Mikitzel acknowledged Ed Plissey for suggesting the PAA General Endowment in 1999, and she thanked Robert Thornton, Creighton Miller, Al Reeves, and Mel Henninger for their work in getting the Endowment started. The membership gave a round of applause to show appreciation for those who helped to make it happen.

Nedrow said the Endowment Committee submitted suggestions for the use of Endowment fund payouts to the Executive Committee. He noted that the most popular ideas are to use the funds to sponsor an international guest speaker at the annual meetings and to support a graduate student activity during the annual meetings.

Treasurer Larry Hiller reviewed the budget for FY 2017.

MOTION moved by L. Hiller, seconded by A. Jensen and unanimously passed to approve the 2017 budget as presented.

Nominating Committee Report

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 one Director (3-year) position were Paul Bethke and Steve Johnson. There were two nominees for Vice President: Rich Novy and Samuel Essah. Electronic voting occurred via Survey Monkey and about 40% of the PAA membership voted. Paul Bethke was elected as the new Director. Rich Novy 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, Mike Thornton becomes PAA President and Shelley Jansky becomes President-Elect.

Respectfully submitted,
Andy Jensen, Past President

Honorary Life Member Committee Report

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 for their votes. The committee eventually voted that Warren Henninger, Bill Campbell, Willem Schrage, and Ed Lulai were deserving of the PAA award by honoring their contribution to potato science, and service to PAA and the potato industry. The awards will be presented at the banquet 3 August 2016 in Grand Rapids, MI.

The bylaws allow only 4 Honorary Life Members per year. The voting process is not clearly described in any procedure document, and so the voting this year was an ad hoc iterative process. In response to these procedural uncertainties, I have prepared a draft "Honorary Life

Membership: Qualifications, rules, and nomination instructions” for the consideration and potential use by persons in charge of future HLM selections.

Respectfully submitted,
Andy Jensen, Past President

Program Committee and Symposium Committee Reports

Apex WebStudio was hired to setup and run an electronic abstract submission system for the 2016 PAA Annual Meeting. The abstract submittal process went smoothly. Presenters were asked to upload their presentations before the meeting using the same system, but only half of the presentations were uploaded before the deadline set by the Michigan LAC. The 2016 annual meeting program was prepared from 114 submitted abstracts including 5 symposium presentations, 1 presentation from the International Guest Speaker, 86 general session presentations, and 22 posters. There were 20 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 2016 symposium “Transformative Technologies in Potato Breeding” was planned and organized by the Breeding and Genetics Section. The following symposia have been accepted for the next two years. The 2017 symposium will be planned and organized by the Extension Production & Management Section and will be titled “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 Wohleb, Secretary

Site Selection Committee Report

The Site Selection Committee (SSC) met at noon on Monday, August 1, 2016. Committee members attending included Rich Novy (Chair), Rob Davidson (Colorado LAC), Andre Gagnon (Quebec LAC), Mark Pavsek (Washington LAC), Leigh Morrow (Maine LAC), Mike Wenkel and Dave Douches (Michigan LAC), Andy Robinson and Gary Secor (North Dakota LAC), and Nora Olsen (Idaho LAC). Other attendees included Vikram Bisht, Darin Gibson, and Loretta Mikitzel.

Agenda and 2015 Report to the Executive Committee were reviewed and approved. Vikram Bisht then presented the bid from Manitoba to host the 2019 annual meeting in Winnipeg. A Manitoba LAC committee has been formed with Darrin Gibson also being a member. The Delta Winnipeg Hotel and the Victoria Inn Hotel and Convention Center are currently being considered with a decision yet to be made between them. Manitoba Tourism and the Winnipeg Chamber of Commerce will likely be brought into the planning and preparations. After hearing the proposal for hosting the 2019 Annual Meeting of the PAA, Nora Olsen made a motion for the SSC to accept Manitoba’s bid for the 2019 annual meeting, with a second by Gary

Secor—subsequent vote was unanimous in that the SSC would recommend to the EC that Manitoba host the 2019 meeting. Vikram then had questions for past LAC chairs regarding average attendance numbers, booking of hotels, identification of conference planning entities, etc., with helpful advice provided. Leigh Morrow will also provide to Vikram and the SSC an updated document from when he was co-chair of the Maine LAC that listed attendance at past annual meetings. General consensus was that average attendance was in the range of 225 to 250 attendees over years. Loretta Mikitzel also indicated that PAA insurance also provides liability insurance for the LAC in the event of an accident during meetings.

A brief summary of attendance at the current meeting was given by Mike Wenkel with all committee members in agreement that the Michigan LAC had done an exemplary job with the planning and organization of the 2016 meeting.

Andy Robinson and Gary Secor then gave an update on the 2017 meeting to be held in Fargo, ND, July 23-27. The venue will be the remodeled Holiday Inn. Meeting format will be the same as ones used by Maine in 2015 and Michigan in 2016 with tours to be held on Thursday. The Fargo Theater in downtown Fargo may be the venue for the meeting symposium.

Nora Olsen then gave an overview of the planning for the 2018 meeting to be held in Boise, ID, July 22-26th. That date was chosen to avoid conflict with other meetings such as ASHS, APS, etc. It will be held in the Grove Hotel in downtown Boise with the meeting to be held at the new Boise Centre, with the President's reception and the Banquet to be held at Simplot's Jump Building (Jack's Urban Meeting Place).

Loretta Mikitzel then gave an update on the PAA's search for an entity that could provide conference and financial services. The one entity that was approached and provided a bid was too expensive. Four other contacts were made, but with no responses yet received from them. Time then became short for discussion regarding a site to host the 2020 meeting. The chair will follow-up with the committee for input via e-mail. The meeting adjourned at 1:25 pm.

Respectively Submitted,
Rich Novy, Chair

Global Outreach Committee

Hector Lozoya Saldaña said that the Global Outreach Committee invited and was able to secure Marcelo Huarte from Argentina to be the International Guest Speaker at the 2016 PAA Annual Meeting. He said the committee is open to suggestions for next year's invited guest speaker.

Membership Committee Report

The Membership Committee consists of the following representatives; Shelley Jansky (Chair), Jeff Bragg, Bret Nedrow, Robert Gareau and Dave Douches. Accomplishments during this past year include the following:

1. Updated the PAA brochure with a new format, images and descriptions of the organization and membership benefits. The brochure was professionally printed and copies are available for distribution at meetings.
2. A question was added to the PAA membership application form to ask new members how they found out about the organization.

3. Met with potential new members at the PAA booth as part of the Potato Expo in Las Vegas, NV. Provided information on the benefits of PAA membership, offered brochures, and encouraged them to join.

Respectfully submitted,
Shelley Jansky, Chair

Constitution and Bylaws Committee Report

Mike Thornton reported that the activities of the Constitution and Bylaws Committee will be covered during the ad hoc committee reports for the Policies and Procedures Manual Committee.

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 Michigan LAC co-chairs Michael Wenkel, Dave Douches and Chris Long, committee involvement in meeting preparations was minimal. I did meet with Mark Pavek to discuss changes to the LAC guidelines. There are sections (such as the one related to arranging babysitting) that need to be updated or eliminated.

Respectfully submitted,
Michael Thornton, President-Elect

Report on the 2016 Potato Expo Poster Session

The President-Elect solicits posters to be presented at the NPC Potato Expo. For the 2016 Potato Expo in Las Vegas, Nevada, 24 poster titles and abstracts were organized, with 23 of the posters displayed at the event. The poster session was held next to the exhibition hall, and had good traffic during the allotted time to view the posters.

Respectfully submitted,
Michael Thornton, President-Elect

Frank L. Haynes Graduate Student Competition Committee

Twenty students entered the 2016 Frank L. Haynes Graduate Student Competition. These students came to Grand Rapids from universities in the states of MI, ND, OR, PA, CO, WA, MN, ME and WI. Members of the committee for 2016 were Jay Anderson, Paul Bethke (chair), Nathan Butler, Dennis Halterman, Andrew Robinson, Helen Tai and Jonathan Whitworth. A minimum of six members of the committee attended each student presentation, and the commitment of the committee members to the competition is gratefully acknowledged. Students were evaluated using a consistent set of criteria that included clarity and completeness of the abstract, organization of the oral presentation, effective use of time and visuals, presentation style and potential impact of the research on the potato industry. The committee decided that it was appropriate to make four awards. Members of the committee noted that many graduate

student presentations were very well done, and that the presentations reflected the diverse interests of the PAA. The members of the committee thank all of this year's entrants for their enthusiastic participation.

Respectfully submitted,
Paul Bethke, Chair

Section Meeting Reports:

Breeding and Genetics

Chair: Jeff Endelman
Vice Chair: Joe Kuhl
Secretary: Sagar Sathuvalli
Attendance: 35
Meeting called to order at 5:43.

Version 3 SNP array update (Dave Douches): Currently we are having version 2 12K SNP array from Neogen. Dave informed that we cannot make a new one as the bead pool is running out. Dave informed he is working with Glenn Bryan to develop version 3/4 SNP array with 30K SNPs. As it will take time, Alicia Massa and Dave Douches are planning to have an interim SNP array. Dave is negotiating with Illumina for the price of \$30-\$40 per sample. Rich Novy questioned about redundancy with SNPs pulling from UK and Dave Douches confirmed that it has been addressed. Jeff Endelman suggested a low density SNP array with less cost similar to animal breeding. Dave suggested it is possible but additional discussion is required.

Diploid Breeding: Shelley Jansky provided brief details about the group effort on diploid breeding. Brief discussion was carried out on haploid extraction developing markers for haploid inducer and diploid potato breeding.

PAA Breeding and Genetics Membership: Jeff Endelman suggested that any PAA members interested in joining the Breeding & Genetics Section have to indicate their preference by logging into their membership profile and selecting committee preference.

Expansion of NCPT in the south (Charlie Higgins): Charlie Higgins suggested that there is a need for more selections adapted to southern environments, as currently most selections are adapted to northern environments. Charlie suggested a new early generation selection in the south. Craig Yencho, Rich Novy, and Dave Douches suggested that the breeders should meet separately to discuss potential selection procedures for southern environments, especially in Florida.

Other Business: Dave Douches introduced John Keeling and informed that John Keeling worked with the Senate to approve more funding for potato breeding research. John Keeling informed that breeding research money is now part of a \$8 billion bill and suggests providing success stories and economic impacts. Rich Novy suggested that each region can write a report and send it to John. Craig Yencho asked whether we can change the pattern of funding from year

to year to multi-year to reduce administrative work. John Keeling informed it will be tough to do that as this funding is yearly appropriated money.

Jeff Endelman introduced Ryan Crabil (Potatoes USA). Ryan Crabil provided a brief introduction and his role in research, NCPT and NFPT trials.

Election of Secretary: Han Tan was nominated for Secretary by Rich Novy, seconded by Jeff Endelman and confirmed by voice vote. Joe Kuhl, Chair; Vidyasagar (Sagar) Sathuvalli, Vice-Chair complete the 2017 officers.

Meeting adjourned at 6:30 pm.

Certification

Certification Section PAA Business Meeting

This meeting took place at the Residence Inn in Arlington, VA on Thursday, December 3, 2015.

Opened by Chair, Jeff McMorran at 2:00 pm

Treasurer report by Kent Sather was duly moved and seconded.

Acreage Report: Rob Davidson asked Andrew Houser to continue collecting acreage numbers. The list includes 493 varieties in the US. The suggestion is that small acreages remain to be mentioned. We have to revisit next year how varieties are mentioned. Thank you to Rob and Michael for doing so much.

Agency Reports: Andrew Houser mentioned that there is a mosaic tolerance for import into Colorado. The post-harvest test tolerances for PVY are 5% and 1% for PVY-NIN and PVY-NO. If the winter test fails the tolerance is for the summer reading of 1% or less. Late blight quarantine means that a representative sample of every seed lot needs to be examined for late blight symptoms after a 21 day incubation period. This information needs to be put on the health certificate. If a state does not require a post-harvest the lot needs to have a post-harvest test for commercial growers. Oregon had only 1.6 acres of Russet Burbank. Idaho has essentially no changes other than sample size for very small seed lots. Alan Westra stated that recommendations from this group seem to have been working in Idaho towards reducing the incidence of BRR.

Other updates:

1. Agency Contact List: Jeff McMorran posted on OR website and PAA website.
2. General Agency Survey: Jeff McMorran requested changes that will be posted on website.
3. Regulations Summary: Susie Siemsen requested to be informed about possible changes.
4. North American Certified Seed Potato Health Certificate: Alex Crockford. Alain Boucher asked again for all information on the certificate. Virus testing for initial material needs to be mentioned. Testing for common viruses is required every 12 months. Therefore testing needs to be mentioned where and when. Jeff Axford asked Canada to put Hawaii test results on the certificate.

5. Post-harvest survey was emailed by Steve Marquardt, who asked that changes be submitted.
6. PAA Certification Section Webpage: Rob Davidson mentioned that the PAA website is asking for input from Certification. Variety names and PVY status have been entered on the list. Jeff Axford volunteered to keep this up to date.
7. Latent virus list: Jeff McMorran has a list of varieties that may be symptomless for some strains of PVY. The conclusion of the discussion was that it is still important to know that a variety may be symptomless for at least one strain of PVY.
8. Limited Generation Table: Alan Westra asked for changes to be submitted.

Elections: Jeff McMorran, Chair; Mia Kirk, Vice Chair; Andrew Houser, 2nd year; Eric Hitchcock, 1st year; Kent Sather, Secretary; Nina Zidak, Treasurer.

Motion to support the symposium for 2018 duly moved, seconded and passed.

Motion to allow executive committee to spend up to \$3000 supporting the symposium duly moved, seconded and passed.

Jeff Axford thanked Mike Horken, Rick Hafner, Rob Davindson, and Willem Schrage for their many years of cooperation. They are leaving seed certification or left this year.

Adjourned at 3:15 pm.

Extension, Production and Management

Breakfast Meeting, Aug 2, 2016 at 6:30 – 8:15 AM, Room: Pearl,
Amway Grand Plaza Hotel, Grand Rapids, Michigan

Chair: Vikram Bisht. Vice Chair: Ken Frost. Secretary: Robert Gareau

1. Introduction of participants – 23 attendees.
2. Approval of Minutes of 2015 meeting in Maine. No changes, except for minor spelling corrections for item 5 (d) – Y. Leclerc, and McCain Foods.
Motion to accept: Leigh Morrow. Seconded by Andy Robinson.
3. 2017 Symposium Theme: “Decision Support Tools & Technologies for Growers”.
 - a. The symposium organizing committee will meet immediately after this section meeting to develop a list of speakers and topics for presentation to Executive Council (EC) today. Andy Robinson agreed to take lead and the group discussed potential topics and speakers. Finalised list will be presented to the EC.
 - i. Drones – suggested that Ian McCray of U of MN. Shelly Jansky or someone from Amazon. Idea of having a consultant or extension person to talk about how information is delivered to growers;
 - ii. Diagnostic Tools (Nora Olsen).
 - iii. Weather stations and late blight apps (Andy Robinson and Weatherman)
 - iv. Variable rate fertilizer and irrigation

- v. Stats on grower-use of data and information use. Used Survey Monkey (Carrie Wohleb)
- vi. Predictive models and scouting (Loretta Mikitzel – ToPPS).

After the Symposium group meeting, a representative will finalize the list and present to the Exec Committee.

4. Area Reports:

Manitoba (Vikram Bisht): Crop is doing well, about 10 days earlier than normal, less irrigation used. First Late Blight report on July 16 (source unknown) 15 field incidents, cull piles are an issue (no legislation to control). A few issues with European corn borer in 2015 and in 2016 (insecticides used for management), PVY is low but the necrotic type is a concern. Overall the crop looks good.

Quebec (Robert Gareau): Late spring delayed planting, some excess rain in some regions, Overall crop is doing well, early harvest reports of good yields and quality.

Idaho (Kasia Kinzer, Nora Olsen, Mike Thornton): Seed crop looks good, no late blight, 1-2 weeks ahead of normal, very few issues, expecting a good crop. Commercial crop also looks good. The potato psyllid numbers are up, no zebra chip yet, 317,000 acres planted.

Washington (Carrie Wohleb): Early warm spring followed by cool July; now have normal heat units. Late blight is the worst they have seen in a long time (US 8), slowly spreading. Psyllids very high (all benign, no LSO), no zebra chip reported, crop is dying back early. End of July a few 100°F days.

Colorado (Sam Essah, Rob Davidson): Crop looks great, some nice rain, no late blight issues, 51,000 acres in San Luis valley.

Wisconsin (Keith Kelling): Crop looking good, one unconfirmed report of late blight (later found to be not late blight). A lot of rain in the northern seed growing area, south area is normal, crop is in excellent shape. Red harvest has started, expecting normal year, acres unchanged.

Maine (Steve Johnson, Greg Porter): Crop planted on time, looks terrific, no irrigation used, perfectly timed rain, no late blight. *Dickeya* was again shipped out with seed; some fields with poor stands, ongoing problem as market has responded negatively and now has become a political issue. Southern and central growing areas are dry, very low rainfall but represent only 10% of production (mostly chips). 48,500 acres planted.

Pennsylvania (Bob Leiby): Slow start due to cool, wet conditions, crop has now caught up well. No late blight (some in Virginia and Maryland). Issues with Western flower thrips and some *Dickeya* (less than 2015) with some fields with poor stands (35% rotted seed in soil). Crop is OK on average.

New Jersey (Mel Henninger): Cool, wet planting season. The stands without *Dickeya* are OK, 500 acres lost to *Dickeya*, some problems with back-to-back planted Superiors. Atlantics were dug last week, market prices are dropping as shipping is increasing.

North Dakota (Andy Robinson): Dryland areas received 20+ inches of rain, expect to lose 15-20% of red crop and some chip and seed losses as well. Lots of CPB (mild winter or resistance), some hail damage, no late blight. Irrigated crop is doing well, no major issues, some PVY in late generation seedlots (PVY⁰ mostly); 10-15 % drown-outs, early generation seedlots are clean. *Dickeya* spp. has been found.

Minnesota (Carl Rosen): Similar to North Dakota, but less rain and less % lost, several 7-8 inch rain events, no late blight reported. Reds harvest ongoing for past 2 weeks, Crop is one week ahead of normal. *Dickeya* has been found.

Michigan (Noah Rosenzweig): Planting was a bit early followed by cool spring, crop now has caught up well. Late blight first reported July 5 from volunteers in corn, now have 6 fields affected in south region (US 23). *Dyckeya* has been a problem – 10% emergence in one field. Crop looks good in general, 48,000 acres planted.

New Brunswick (Loretta Mikitzel): very early spring, planted early, timely rains similar to Maine. No late blight reported, some tarnished plant bug in the south region and European corn borer in the north region. Crop looks great.

Other reports:

Potato Expo, Mike Thornton reported that the 2016 event in Las Vegas provided good interaction with industry. There were 24 posters with 22 presenters, the NPC provided a good location for posters and an excellent location for the PAA booth. Mike and Loretta were assisted by Larry Hiller at the booth which was visited by many attendees including 60 PAA members. A few new members were signed up and the plan is to return for the 2017 event in San Francisco next January.

Nomination of officers for 2017

Ken Frost moves from Vice-Chair to Chair

Robert Gareau moves from Secretary to Vice-Chair

Noah Rosenzweig accepts nomination for Secretary

Motion to approve the officers for 2017, moved, seconded and carried.

5. Motion to adjourn.

Report respectfully submitted,

Vikram Bisht, Chair, Extension, Production & Management Section 2016

Physiology

Present: Loretta Mikitzel, Ed Lulai, Sanjay Gupta, Asunta Thompson, Darrin Haagenson, Paul Bethke, Rhett Spear, Nora Olsen, and Yi Wang,

1. The meeting was called to order at 6:30 am by Rhett Spear and introductions were made.
2. The 2015 section meeting minutes were reviewed by the attendees and no objections were made. The published minutes were accepted without change (motion by Paul Bethke, seconded by Asunta Thompson).
3. An update on the 2015 symposium sponsored by the Physiology section and the progress of manuscript submissions was given.
4. Section recruitment was discussed. The section meets the first morning of the annual meeting and an announcement at the Presidents reception the night before would be appreciated. An additional idea was to announce the section meeting and agenda on the website. Advertising the section presentations may bring additional attendees to the meeting. The section decided to continue with the presentation topics or ideas as outlined at the 2015 meeting. Paul Bethke agreed to lead in the organization of a shatter bruise presentation for the 2017 section meeting.

5. The 2016 section presentation was “The story of pink eye” by Ed Lulai. Several non-section members attended the presentation.
6. Potential future symposium to be sponsored by the physiology section in 2020.
7. World Potato Congress will be held in Cusco, Peru in late May of 2018.
8. Nominations and confirmation of officers:
 - Chair: Sastry Jayanty
 - Vice chair: Nora Olsen
 - Secretary: Yi Wang (nomination motion by Asunta Thompson, seconded by Carl Rosen; Unanimous vote)
 - 2-year Director: Tom Salaiz (2/2 years)

Respectfully submitted by Nora Olsen, Secretary

Plant Protection

The section meeting was disrupted due to the symposium and invited speaker session running late. Rob Davidson presided as acting chair, with the following actions taken during the meeting:

1. The 2018 symposium on “Dealing with quarantine pests in potato production” was confirmed. This symposium will be jointly sponsored with the Certification Section. Pam Hutchinson chairs the symposium committee, and is working to outline topics and speakers. It was suggested that Dickeya would be a good topic to add, and that perhaps the NPC could address some of the political aspects of quarantine pests.
2. Rob Davidson presented the Treasurers report. He indicated a current fund balance of \$1623.92. It was noted that dues had not been collected for several years, and the bank account is earning minimal interest. There was a suggestion to use the balance in that account to support the 2018 symposium, with general consensus that it would be an appropriate use of the funds. A motion was presented to elect Andrew Houser as Treasurer, which was approved by the membership.
3. The possibility of meeting jointly with the Certification section this winter was discussed. This would allow for discussion of topics common to both sections, as well as presentations on topics of interest, such as Dickeya diagnostics. Kent Sather will send dates and details on the Certification Section meeting in Arlington, VA during November of 2016 to the section membership.
4. Crop reports were given for most states and provinces. Common issues noted included PVY, Late Blight, psyllids (in the west), European corn borer in Manitoba.
5. Bill Campbell brought up the need to have a good pictures of diseases, pests illustration both signs and symptoms. This would be a big project to add the PAA website, but maybe we could piggy back with other websites that already exist (ex. UNECE, Bugwood Wikipedia).
6. Elections were held, with Kasia Kinzer named as secretary, and Ken Frost to move to Chair for 2016/2017.

Respectfully submitted by Michael Thornton (acting secretary)

Utilization and Marketing

The annual meeting of the PAA Utilization and Marketing Section was called to order by the chair, Bret Nedrow at 5:35 pm ET on August 1st, 2016. The following persons participated in the meeting: Bret Nedrow, JR Simplot; Joe Guenther, University of Idaho/ JR Simplot; Rebecca Jones, JR Simplot; Loretta Mikitzel, Government of New Brunswick; Robert Gareau, SEQ Marketing; and Gina Greenway, University of Idaho; Bryce Regan, JR Simplot; Addie Waxman, 1,4 Group; John Bergman, 1,4 Group.

1. OLD BUSINESS

- a. Review of 2015 minutes.
- b. Minutes approved. Moved by L. Mikitzel, seconded by R. Gareau, unanimously passed to approve the minutes of the Utilization and Marketing section meeting of July 20, 2015.

2. NEW BUSINESS

- a. B. Nedrow gave update on the PAA. The PAA is financially strong. There are excess funds to do some special projects at the PAA conferences. Such as; the *International Speaker Sponsor*, and the *Grad Student Networking Event*. The *Grad Student Networking Event* was a big hit this year with 19 students attending. The students walked to the Grand Rapids Culinary Institute and participated in cooking 4 different items involving potatoes. Plans are being made to continue the grad student event next year. Much energy has been put into re-doing the by-laws. An outside firm has been hired to help modernize and update the by-laws. The Endowment fund is stable. Payout was down from previous years because of the financial markets. Auctions raise \$2000-\$3000 a year.
- b. R. Gareau asked when the U & M Section has the next symposium. The U & M section needs to notify the executive committee a couple years ahead of their intention to host the symposium. Discussion was brought up of sponsoring the 2019 symposium. Next year in Fargo, ND the U & M section will put more discussion and effort into symposium ideas and schedule.
- c. 2014 Utilization and Marketing Symposium papers were discussed. L. Mikitzel was able to get five of the presentations. R. Gareau is graciously transcribing them. The goal is to have the transcription to papers done before the 2017 annual meeting. When R. Gareau is done; J. Guenther will compile. The papers are normally required to be in within six months. Discussion came up that speakers need to be told when they are invited to submit papers along with presentations.
- d. Roundtable of group and interesting activities they are working on.
- e. Election of Officers:
MOTION moved by J. Guenther, seconded by R. Gareau, unanimously passed to retain B. Nedrow as Chair and R. Jones as Vice-Chair.
MOTION moved by J. Guenther, seconded by R. Gareau, unanimously passed to elect A. Waxman Secretary and G. Greenway Director.

MOTION moved by L. Mikitel, 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, Past Secretary)

Ad hoc Committee Reports:

Maine LAC 2015

Maine LAC Co-Chair, Leigh Morrow, thanked Greg Porter and Steve Johnson for work they did last year on the meeting. They had a total of 227 people attend with 196 delegates and 31 accompanying persons, and 21 were students. There were 22 US states, 5 Canadian provinces, and 3 additional countries represented. There were 24 sponsors. A complete report with detailed expenditures and income will be posted under the "PAA Members Only" section of the PAA website. The Maine LAC 2015 ended with a positive balance, which will be donated to the PAA General Endowment Fund and the Frank L. Haynes Graduate Student Research Award Fund.

Michigan LAC 2016

Mike Wenkel, Michigan LAC 2016 co-Chair, reported that 256 people are in attendance, including 16 accompanying persons. There are 24 states, 7 provinces, and 13 countries represented. They received support from 24 sponsors. They anticipate ending in the black. He thanked everyone for attending.

North Dakota/Minnesota LAC 2017

Gary Secor announced that the North Dakota/Minnesota LAC 2017 have scheduled the meeting for July 23-27, 2017 at the newly remodeled Holiday Inn in Fargo, ND. He noted that they are off to a good start. They have already secured some sponsors. The schedule will be similar to recent meetings in Michigan and Maine.

Springer Contract Renewal Committee

President Loretta Mikitel noted that the contract with Springer expires in December 2017. Springer has proposed a contract with no changes. If we wish to make any changes, then they need to be delivered in writing by December 2016. Mikitel noted that the EC has reviewed the contract and decided to make one change; the PAA currently receives 25 copies of the AJPR, but the EC has decided to reduce that to 15 copies.

Office/Association Services Committee

Shelley Jansky reported that an ad hoc committee has been looking into agencies that can provide finance and membership services, and perhaps annual meeting services and website

management services. They have asked several agencies for bids and will be reviewing them in the next months. The committee is also exploring the possibility of partnering with a state or provincial potato commission office for some help with administration.

Policies and Procedures Manual Committee

President Mikitzel presented and discussed the revised articles of incorporation and the revised bylaws that an ad hoc committee has been working to put together this year. A copy of the revised bylaws was emailed to the membership on June 29, 2016 for review and comment. Rob Davidson asked if the bylaws should address the process of dissolution of the PAA. Mikitzel said she would ask Karen Bonaudi, who is our consultant for these documents. Some of the members expressed concern that the terms for Secretary and Treasurer are too short; it was suggested that multiple 2-year terms for those offices should be considered. Mikitzel noted that the responsibilities of the Secretary and Treasurer are expected to change significantly in the future with much of the day to day management shifting to the Administrator, which is expected to be an agency that specializes in providing these services to organizations like the PAA. It was agreed that a change should be made to note that the President's appointments for vacant positions on the Board should be approved by the Board of Directors. There was a lot of discussion and confusion about the election process. The ad hoc committee will reconvene to study the election process, reconsider terms of Secretary and Treasurer, and decide if it is necessary to address dissolution of the PAA in the bylaws. They will consult with Karen Bonaudi. It is expected that revised bylaws will be reviewed one more time by the membership before bringing them to a vote.

There was a question as to whether the membership would need to vote to approve the revised articles of incorporation. Mike Wenkel explained that the articles of incorporation are the agreement between the state of Maine and the board of directors of the PAA and as such would not involve a vote of the membership. L. Mikitzel noted that we are only following the state law by revising the articles of incorporation and keeping them in compliance. By contrast, the bylaws are the agreement between the membership and the board of directors and will need to be reviewed and ratified by the membership as such.

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.)*

Actions taken during the July 2016 EC Meeting and the EC Teleconferences since the 2015 Annual Business Meeting of the PAA were as follows:

- a) appointed Carrie Wohleb to another 2-year term as Secretary to the PAA;
- b) contracted with Apex WebStudio Abstract Submission System and renewed for 3-years;
- c) accepted Nora Olsen's proposal (including a request for \$2,000 to cover expenses) for a graduate student activity at the 2016 PAA Annual Meeting;
- d) to bind one complete set of the AJPR for our archives;

- e) appointed John Bamberg to another 2-year term as Editor in-Chief;
- f) appointed Bret Nedrow to another 2-year term as Finance Chair;
- g) appointed Kent McCue to fill vacated Director position for 1-year;
- h) approved Mantioba to host the 2019 PAA Annual Meeting.

MOTION moved by S. Johnson, seconded by A. Thompson, and unanimously passed to accept all of the EC actions (noted as a-h above) since the 2015 Annual Business Meeting of the PAA.

Silent and Live Auction

There was a discussion about whether or not the PAA should continue to have a silent auction fundraiser at the Annual Meeting. It was noted that the live auction of a few items generates a lot more revenue and is a lot less work to organize compared to the silent auction. Mike Wenkel suggested we do not have a silent auction but continue with the live auction of 5-6 items. No decision was made.

Scheduling Tours during the Annual Business Meeting

Mike Thornton and the Idaho 2018 LAC wanted clarification on whether or not tours should be scheduled to run concurrently with the Annual Business Meeting. There was discussion and some difference of opinion, but most of the people who commented do not think it is a good idea to schedule a tour at that time.

Announcement of Officers

Past President Andy Jensen announced the names of the newly-elected PAA officers: Mike Thornton will be the PAA President; Shelley Jansky will be the President-Elect; Rich Novy was elected PAA Vice President; and Paul Bethke was elected for the vacant Director positions.

Recognition of Michigan Hosts

President Mikitzel called upon newly elected the Potato Association of America President Mike Thornton to provide recognition for the exceptional efforts of the Maine Local Arrangements Committee in hosting the 100th Annual Meeting of the Potato Association of America. Thornton offered the following "Resolution of Appreciation":

Whereas the 100th Annual Meeting of the Potato Association of America was held in Grand Rapids, Michigan from July 31 to August 4, 2016; and, Whereas the meetings were hosted by an enthusiastic and well-organized Local Arrangements Committee under the able direction of Co-chairs Dave Douches, Chris Long, and Mike Wenkel who welcomed and graciously hosted 240 delegates and 16 accompanying persons from 24 states, 7 provinces, and 13 countries, with the support of 24 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 5 presentations, 87 oral presentations, and 22 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 3rd day of August we of the Potato Association of America extend our heartfelt and most sincere thanks to the Michigan 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 Dave Douches, Chris Long, and Mike Wenkel with applause.

Passing of the Gavel

There being no further business, the 100th Annual Business Meeting of the Potato Association of America concluded with the traditional passing of the gavel from outgoing President Loretta Mikitzel to incoming President Mike Thornton. The membership welcomed the new president with a round of applause, and then acknowledged the contributions of the outgoing president with another round of applause.

MOTION moved by S. Johnson, seconded by A. Jensen, and unanimously passed to adjourn the 100th Annual Business Meeting of the PAA.

Awards Banquet

Wednesday, August 3, 2016

President Loretta Mikitzel presided over the program of the Awards Banquet which took place the evening of Wednesday, August 3, 2016 in Grand Rapids, Michigan. Kent McCue delivered the invocation and then President Mikitzel 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. She acknowledged the meeting sponsors and sustaining members of the PAA. Then she recognized the past presidents in the room. President Mikitzel recognized and asked for a round of applause for Marcelo Huarte who was the special International Guest for this year's PAA Annual Meeting.

John Bamberg then presented the Outstanding Paper Award for the AJPR in 2015 to Rodney Cooper (corresponding author) for the paper: *Relationship Between Plant Vascular Architecture and Within-Plant Distribution of 'Candidatus Liberibacter solanacearum' in Potato* by W. Rodney Cooper, Piedad E. Alcala, and Nina M. Barcenas. AJPR 92(1):91-99.

Paul Bethke, Chair of the Frank L. Haynes Graduate Student Research Competition Award Committee. Paul Bethke indicated that 20 students competed this year and four awards were given.

1st place: Venkata Charepalli, The Pennsylvania State University. ***A Novel Proteomic Approach Reveals Molecular Insights for Anti-colon Cancer Efficacy of Color-fleshed Potatoes.*** Venkata evaluated the effect of baked purple flesh potatoes against colon cancer stem cells in mice. He found that including purple potatoes in the diet decreased the amount of a molecular indicator of colon cancer stem cells and suppressed tumor incidence. Venkata presented his methods and findings clearly and with great enthusiasm.

2nd place: Curtis Frederick, the University of Wisconsin. ***Evaluation of Hyperspectral Reflectance for Estimating Dry Matter and Sugar Concentration in Processing Potatoes.*** Curtis evaluated hyperspectral reflectance imaging as a tool for estimating potato tuber dry matter content and sugar contents. He found that this method could be used accurately and rapidly to measure within tuber dry matter content in field, storage, or lab settings. Curtis explained a complex topic clearly, using carefully prepared visual aids and a relaxed presentation style.

3rd place (tie): Chandler Dolezal, Washington State University. ***The Effects and Economic Implications of Differing Phosphorus Fertilizer Application Techniques and Rates.*** Chandler examined how phosphorous application rate and method of application influenced potato growth, profitability and potential environmental impacts. His data showed that method of application had little effect, and high phosphorous rates were inadvisable. Chandler gave a compelling rationale for his research and presented his data in a way that was logical and easy to follow.

3rd place (tie): Kathryn Bolding, Washington State University. ***Cultural Management of Clearwater Russet.*** Kathryn described research on how seed spacing and nitrogen fertilization rate effected marketable yield and economic value of the recently introduced fry processing variety Clearwater Russet. Kathryn gave a poised, clear presentation that included recommendations for seed spacing and petiole nitrates that maximize economic value of the harvested crop.

Past President Andy Jensen asked all of the Honorary Life Members in attendance to

stand and be applauded. William “Bill” Campbell, Edward C. Lulai, Warren A. Henninger, and Willem W. M. Schrage were inducted as new Honorary Life Members of the PAA. Alexander “Sasha” Pavlista presented the award to William “Bill” Campbell. Mel Henninger presented the award to Warren A. Henninger. Joe Sowokinos presented the award to Edward C. Lulai. Andy Robinson presented the award to Willem W. M. Schrage.

President Mikitzel recognized the Michigan LAC co-chairs, Dave Douches, Chris Long, and Mike Wenkel, for a wonderful meeting. They thanked the other members of the Michigan LAC for their hard work. They presented a special gift to Dalton Hard, a member of the Michigan LAC, to thank him for the many tasks he took care of for the meeting.

Out-going President Loretta Mikitzel passed the gavel to incoming President Mike Thornton. Mike Thornton presented Loretta Mikitzel with a plaque for her service and the members applauded her.

Andy Robinson and Gary Secor extended an invitation to the 101st Annual Meeting of the Potato Association of America in Fargo, North Dakota, July 23 to 27, 2017.

Respectfully submitted,
Carrie Wohleb, PAA Secretary