2019 PAA Annual Meeting
DELEGATE PROGRAM

SUNDAY, July 28

11:30 a.m. – 7:00 p.m. Registration Desk/Information Mezzanine
10:30 a.m. – 12:00 p.m. Finance Committee Meeting St. Vital
12:00 p.m. – 4:00 p.m. Graduate Student Networking Meet at Boston Pizza
Boston Pizza & Activate Games
1:00 p.m. – 5:00 p.m. Board of Directors Meeting Tuxedo (Main Floor)
1:00 p.m. – 6:00 p.m. Goldeyes Baseball Game at Shaw Park Meet at Reception Desk
1:00 p.m. – 6:00 p.m. Poster Set-up Ballroom A
6:00 p.m. – 8:00 p.m. President’s Reception Charleswood

MONDAY, July 29

6:30 a.m. – 8:00 a.m. BREAKFAST Ballroom
6:30 a.m. – 5:00 p.m. Registration Desk/Information Mezzanine
6:30 a.m. – 8:00 a.m. AJPR Editorial Board Breakfast St. Vital
6:30 a.m. – 8:00 a.m. Physiology Section Breakfast St. Boniface
6:30 a.m. – 4:30 p.m. Silent Auction Ballroom
8:00 a.m. – 9:30 a.m. Breeding & Genetics Section Meeting Assiniboia A
8:00 a.m. – 9:30 a.m. Plant Protection Section Meeting Assiniboia B
9:30 a.m. – 10:00 a.m. BREAK – Coffee/Snacks
TBD Companion Program – Shopping Tour

10:00 a.m. – 11:30 a.m. CONCURRENT SESSION A
Breeding & Genetics I Assiniboia A

Moderator: Shelley Jansky
10:00 a.m.  **Dihaploid Potato Induction and Ploidy Confirmation**  
(1) Husain I. Agha*, David Eickholt, Rachel Figueroa, Cari Schmitz Carley, Laura Shannon
  *Frank L. Haynes Graduate Student Research Award Competition*

10:15 a.m.  **Potato Haploid Induction Crosses Result in Chromosome-scale Introgression from the Haploid Inducer**  
(2) Kirk R. Amundson*, Benny Ordoñez, Monica Santayana, Ek Han Tan, Isabelle Henry, Awais Khan, Merideth Bonierbale, Luca Comai
  *Frank L. Haynes Graduate Student Research Award Competition*

10:30 a.m.  **Breaking Self-incompatibility in Diploid Potato Using the CRISPR/Cas9 System**  
(3) Felix E. Enciso-Rodriguez*, Norma Manrique-Carpintero, Satya Nadakuduti, Robin Buell, Daniel Zarka, David Douches
  *Frank L. Haynes Graduate Student Research Award Competition*

10:45 a.m.  **Introgressing Self-compatibility to *Solanum tuberosum* L. Dihaploids for Diploid Variety Development**  
(4) Maher A. Alsahlany*, Joseph Coombs, David Douches
  *Frank L. Haynes Graduate Student Research Award Competition*

11:00 a.m.  **Evaluating Regeneration Capability of Selected Diploid Potato Germplasm to Accelerate Diploid Breeding**  
(5) Thilani Jayakody*, Satya Nadakuduti, Gabriela Massa, David Douches
  *Frank L. Haynes Graduate Student Research Award Competition*

11:15 a.m.  **Evaluation of F1 and F2 Diploid Potato Populations for Self-fertility and Tuber Production**  
(6) Lin Song*, Peyton Sorensen, Grace Christensen, Becky Eddy, Shelley Jansky, Jeffrey Endelman
  *Frank L. Haynes Graduate Student Research Award Competition*

10:00 a.m. – 11:30 p.m.  **CONCURRENT SESSION B**  
**Plant Protection I**, Assiniboia B

**Moderator:**  Jeff Miller

10:00 a.m.  **Improved Multiplex IC-RT-PCR Assay for the Strain Identification of *Potato Virus Y***  
(7) Mohamad Chikh-Ali* and Alexander Karasev

10:15 a.m.  **Towards the Identification of PVY Genomic Determinants Triggering the Potato Tuber Necrotic Ringspot Disease: A Comparison Study of PVY Reference Isolates Represent PVY Strains in North America**  
(8) Mohamad Chikh-Ali* and Alexander Karasev

10:30 a.m.  **Grower Economic Loss from Seedborne Potato Virus Y Infection Varies by Strain and Variety**  
(9) Mark J. Pavek*, Babette Gundersen, Debra Inglis, Alexander Karasev, Zachary Holden

10:45 a.m.  **Salicilic Acid in Potato Influenced by Late Blight and Fungicides II**  
(10) Gevri Juárez-Herrera, Hector Lozoya-Saldaña*, Maria Colinas-León, Efraim Contreras-Magaña
11:00 a.m.  *Streptomycetes* in Potato Production: The Causative Agent of Common Scab Disease and Potential Biocontrol Agents  
(11) Christopher Clarke*, Matthew Kramer, Kathleen Haynes, Charles Kramer, Curtis Frederick, Shae Taylor, Bradley Geary

11:15 a.m.  The Growth of Fungal Pathogens is Inhibited by the Sprout Inhibitor 1,4-dimethylnaphthalene  
(12) Michael A. Campbell*, Rachael Adams, Emily Dobry, Kara Dobson, Veronica Stefanick, Jessica Till

11:45 p.m. – 12:45 p.m.  LUNCH  
Ballroom

11:45 p.m. – 12:45 p.m.  Finance & Endowment Committee Lunch Meeting  
St. Vital

11:45 p.m. – 12:45 p.m.  Site Selection Committee Lunch Meeting  
St. Boniface

12:45 p.m. – 1:10 p.m.  Welcome from 2019 LAC  
Vikram Bisht and Tracy Shinners-Carnelley  
Ballroom

1:10 p.m. – 2:00 p.m.  Association and Industry Outreach Committee  
International Guest Speaker  
Unlocking the Potential of Potato in Sub-Saharan Africa  
(13) Monica L. Parker, International Potato Center, Nairobi

2:00 p.m. – 5:15 p.m.  SYMPOSIUM 2019  
Changes and Challenges in Potato Marketing Sectors  
Organized by the Utilization & Marketing Section  
Ballroom

2:00 p.m. – 2:05 p.m.  Symposium Introduction  
Tina Brandt

2:05 p.m. – 2:30 p.m.  Innovative Fresh Market Packaging  
Audrey Boulianne, Quebec Parmentier  
(14)

2:30 p.m. – 3:00 p.m.  Trends in the Potato Processing Sector  
Catherine Cantley, Tech Help  
(15)

3:00 p.m. – 3:30 p.m.  BREAK – Coffee/Snacks  
Mezzanine

3:30 p.m. – 4:15 p.m.  CIPC Status in Europe/European Markets  
Seshadri Iyengar, Bayer Crop Science  
(16)

4:15 p.m. – 4:45 p.m.  Understanding MRLs and Their Impact on Global Marketing  
TBA, Bryant Christy  
(17)

4:45 p.m. – 5:15 p.m.  “Imagine a World without Potatoes” Marketing Campaign  
Marc de Beaufort, CIP (International Potato Center)  
(18)
6:00 p.m. – 8:30 p.m. Past President and Honorary Life Member Dinner Charleswood  
(Attendance is by invitation only.)

6:00 p.m. – 10:00 p.m. The Forks/Exchange District Shuttle Departs from the Lobby Self-directed Tour

6:15 p.m. – 7:15 p.m. Graduate Student Committee Meeting St. Boniface

TUESDAY, July 30

6:30 a.m. – 8:30 a.m. BREAKFAST Ballroom

6:30 a.m. – 5:00 p.m. Registration Desk/Information Mezzanine

6:30 a.m. – 8:00 a.m. Extension, Production & Mgt. Section Breakfast St. Vital

6:30 a.m. – 8:00 a.m. Potato Crop Germplasm Committee Meeting St. Boniface

6:30 a.m. – 4:00 p.m. Silent Auction Ballroom

TBD  Companion Program – 2-Hour Winnipeg Tour

8:30 a.m. – 12:00 p.m. Board of Directors Meeting Tuxedo

8:30 a.m. – 12:00 p.m. CONCURRENT SESSION C Extension, Production & Management I Assiniboia A

Moderator: Zack Frederick

8:30 a.m. Timing Those Tank-mixes for Beautiful Weed Control in Potatoes Pamela J.S. Hutchinson*

(19)

8:45 a.m. Impact of Sublethal Dicamba and Glyphosate Drift on Three Chipping Potato Cultivars Matthew J. Brooke*, John Stenger, Collin Auwarter, Harlene Hatterman-Valenti 
Frank L. Haynes Graduate Student Research Award Competition

(20)

9:00 a.m. Predicting Potato Yield Losses Due to Metribuzin Sensitivity Matthew J. Brooke*, Razi Ibrahim, John Stenger, Harlene Hatterman-Valenti, Asunta Thompson 
Frank L. Haynes Graduate Student Research Award Competition

(21)

9:15 a.m. Exploring Fumigation as a Strategy to Manage Potato Early Dying in Southern Alberta Colby Robertson*, Emily Snowdon, Michael Harding, Dmytro Yevtushenko 
Frank L. Haynes Graduate Student Research Award Competition

(22)

9:30 a.m. Evaluation of Variable Rate Nitrogen and Reduced Irrigation Management on Nitrate Leaching for Potato
(23) Brian J. Bohman*, Carl Rosen, David Mulla
Frank L. Haynes Graduate Student Research Award Competition

9:45 a.m.  
Response of Dakota Russet to Seed Spacing and Harvest Timing
(24) Travis Chase*, Mike Thornton, Christopher McIntosh, Xi Liang
Frank L. Haynes Graduate Student Research Award Competition

10:00 a.m. BREAK

10:30 a.m.  
Assessment of Non-traditional Soil and Foliar Additives for Enhanced Potato Yield and Economic Return
(25) Colton Thurgood*, Mark Pavek, Francisco Gonzalez, Zachary Holden
Frank L. Haynes Graduate Student Research Award Competition

10:45 a.m.  
Efficacy of Soil Treatments for the Control of Potato Powdery Scab
(26) Leah L. Tsror*

11:00 a.m.  
Can Potatoes Recover from One or More Hail Events?
(27) Harlene M. Hatterman-Valenti*, Collin Auwarter, Matthew Brooke

11:15 a.m.  
Nutrient Management and Improved Efficiency of Drip Irrigated Processing Potatoes in Idaho
(28) Galen Mooso* and Terry Tindall

11:30 a.m.  
N-fertilizer Rate and Timing for Potato Irrigated with Seepage and Subsurface Drain-tile in Florida

11:45 a.m.  
Potato Rotation: Crop Performance and Nitrogen Dynamics

8:30 a.m. – 12:00 p.m.  
CONCURRENT SESSION D  
Breeding & Genetics II  
Assiniboia B

Moderator: Jonathon Whitworth

8:30 a.m.  
Malfunctional StPA Negatively Affects Potato Pollen Germination and Tube Growth
(31) Xijian Zhu, Dongli Gao, Shuanshuang Feng, Jibing Jiang, Yi Shang, Peter VanderZaag*, Canhui Li, Sanwen Huang, Jinzhe Zhang

8:45 a.m.  
Mapping of SlI Gene in Diploid Potato Populations
(32) Ling Ma, Fei Tang, Futing Li, Chunzhi Zhang, Canhui Li, Yi Shang*, Sanwen Huang, Peter VanderZaag

9:00 a.m.  
Leveraging Genome Elimination for Potato Breeding and Improvement Efforts
(33) Ek Han Tan*, Oluwafemi Alaba, Kristen Brown-Donovan, Gregory Porter

9:15 a.m.  
Recombinant Inbred Lines in Potato
(34) Shelley H. Jansky*, Ryan Alpers, Jeffrey Endelman, David Douches
9:30 a.m.  Phased, Scaffold Level Assemblies of the Autopolyploid Potato Genome  
(Paul Chomet*, Kobi Baruch, Gil Ben-Zvi)

9:45 a.m.  SolCAP Array Ascertainment Bias in South American Potatoes Eucidates the History of Array SNPs  
(Laura M. Shannon*, Cari Schmitz Carley, Julian Soto, David Ellis, Noelle Anglin)

10:00 a.m.  BREAK – Coffee/Snacks

10:30 a.m.  Genetic Markers for Potato Mop Top and Tobacco Rattle Virus Resistance in Russet Mapping Populations  

10:45 a.m.  Transcriptional Evaluation of Resistance Response to Race 1 Meloidogyne chitwoodi in Potato and its Breakdown by an Emerging Pathotype Roza  
(Sapinder Bali, Kelly Vining, Chuck Brown, Cynthia Gleason, Vidyasagar Sathuvalli*)

11:00 a.m.  Tuber Transcriptome Profiling of Eight Potato Cultivars with Different Cold-induced Sweetening Responses to Cold Storage  
(Helen H. Tai*, Martin Lagüe, Susan Thomson, Frederique Aurosseau, Jonathan Neilson, Agnes Murphy, Benoit Bizimungu, Jeanne Jacobs)

11:15 a.m.  Characterization and Assembly of a Core Set for the US Potato Genebank Using Genotyping-by-sequencing and GATK  
(Heather K. Tuttle*, Alfonso Del Rio, John Bamberg, Laura Shannon  
Frank L. Haynes Graduate Student Research Award Competition)

11:30 a.m.  Identification of Genes Involved in the Sugar-end Disorder in Tetraploid Potato (Solanum tuberosum L.)  
(Felicity Merritt* and Asunta Thompson  
Frank L. Haynes Graduate Student Research Award Competition)

11:45 a.m.  Fine Mapping Colorado Potato Beetle Host Plant Resistance in Diploid Potato  
(Natalie R. Kaiser, David Douches, Joseph Coombs, Robin Buell, Norma Manrique-Carpintero, Christina Difonzo  
Frank L. Haynes Graduate Student Research Award Competition)

12:00 p.m. – 1:00 p.m.  LUNCH  
Ballroom

1:00 p.m. – 3:00 p.m.  CONCURRENT SESSION E  
Physiology I  
Assiniboia A

Moderator: Mario Tenuta

1:00 p.m.  Estimating Crop Nitrogen Status Using Aerial Imaging
1:15 a.m.  Impact of In-season PVY Infection on Chipping Potato Yield and Quality
(44) Erin Weber, James Busse, Paul C. Bethke*

1:30 p.m.  Morpho-physiological Response of Potato Cultivars to Abiotic Stress Associated with Climate Change in New Zealand
(45) Allan B. Siano*, Huub Kerckhoffs, Svetla Sofkova-Bobcheva
Frank L. Haynes Graduate Student Research Award Competition

1:45 p.m.  Potato Tuber Metabolic Processes as Affected by Nitrogen Fertilizer Rate
(46) Sanjay K. Gupta*, Carl Rosen, Emerson Souza

2:00 p.m.  Identifying Heat-tolerant Genotypes for Retention of the Cold Sweetening-resistant Phenotype in Potato (Solanum tuberosum L.)
(47) Graham D. Ellis*, Lisa Knowles, N. Richard Knowles

2:15 p.m.  Characterization of a Putative PAMP-induced Secreted Peptide in the Hypersensitive Response of Potato to PVY
(48) Max Combest and Aymeric J. Goyer*

1:00 p.m. – 3:00 p.m.  CONCURRENT SESSION F
Plant Protection II

Assiniboia B

Moderator: Vikram Bisht

1:00 p.m.  Relative Importance of Non-crop Reservoirs, Seed Quality, and Transmission Efficiency in PVY Spread
(49) Andrei Alyokhin*

1:15 p.m.  Evaluation of Foliar Insecticide Spray Alternatives for Management of PVY Spread
(50) Mathuresh Singh*, Xianzhou Nie, Tyler Mackenzie

1:30 p.m.  Lessons from Seven Years of Potato Psyllid Monitoring in the Columbia Basin of Washington
(51) Carrie H. Wohleb* and Timothy D. Waters

1:45 p.m.  Effect of Interval between Phosphite Fungicide Application and Irrigation on Pink Rot Incidence
(52) Jeff S. Miller*, Trent Tayson, Cheryn Clayton, Shane Hansen, Donald Anderson

2:00 p.m.  Effect of Different Concentrations of Pythium ultimum in the Soil on Disease Incidence and Severity in Storage
(53) Sandesh Dangi*, James Woodhall, Katie Fairchild, Phillip Wharton
Frank L. Haynes Graduate Student Research Award Competition

2:15 p.m.  Synergistic Effect of Co-inoculation with Dickeya dianthicola and Pectobacterium parmentieri on Potato
Breeding & Genetics

Developing Self-compatible Diploid Potato Germplasm through Recurrent Selection
Maher A. Alsahlany*, Felix Enciso-Rodriguez, Marco Lopez-Cruz, Joseph Coombs, David Douches

Adaptability of Double Cropping of Potato Breeding Lines of Korea in Vietnam
Jang Gyu Choi*, JiHong Cho, Boncheol Koo, Yeongeun Park, Kwangsoo Cho, Dongchil Chang, Jusung Im, Younggyu Lee, Seungho Cho, Hyeonjin Park, Jinhye Seo, Gyubin Lee, Chungki Cheon

Biotechnology Potato Partnership: Late Blight Resistant Potatoes For Bangladesh And Indonesia: Generation and Molecular Characterization
David Douches*, Kelly Zarka, John Medendorp, Karen Hokanson, Phillip Wharton, Cholani Weebadde, Hui Duan, Rachael Barron, Carolina Escobar-Ochoa, Craig Richard

Evaluating S. chacoense Mediated Host Plant Resistance Durability and Informing Colorado Potato Beetle Management
Natalie R. Kaiser*, Joseph Coombs, David Douches, Brian Nault, Asunta Thompson, Craig Yencho, Carrie Wohleb, Russell Groves, Ruth Genger, Sean Schoville

Development of Mid-late Maturing Potato Variety ‘Oryun’ with High Starch Content in South Korea
Jeanhee Maeng*, Suyeoung Ahn, Seongjin Choi, Kisun Kim, Byungsup Kim

Multiple Transgene Stacking in Potato Using the GAANTRY System
Kent F. McCue*, Ethan Gardner, Roger Thilmony, James Thomson

La Belle Russet: An Early Maturing, Dual-purpose Variety with Wide Adaptability and Long Tuber Dormancy
Richard Novy*, Jonathan Whitworth, Jeff Stark, Mike Thornton, Tina Brandt, Nora Olsen, Mark Pavek, N. Richard Knowles, Vidyasagar Sathuvalli, Brian Charlton, Soloman Yilma, Chuck Brown, Jeanne Debons

Exploiting Genetic Diversity of Diploid Potato and Screening for Resistance Allele for Ralstonia solanacearum (Rs) Resistance in Wild Cultivar Crosses
Susan A. Otieno*, Joseph Coombs, Caitlyn Allen, Thiago Mendez, Daniel Zarka, David Douches

Potato Breeding with Vacuolar Invertase Silencing to Reduce Cold-induced Sweetening
Kathleen M. Shaw*, Daniel Zarka, Chen Zhang, David Douches

Evaluation of Genetic Diversity among Experimental Clones and Varieties Maintained in vitro by the Texas A&M Potato Breeding and Variety Development Program
Jeewen Pandey, Douglass Scheuring, Jeffrey Koym, Angel Chappell, Julian Miller Jr., Joseph Coombs, David Douches, Maria I. Vales*
Extension Production & Management

Rate of Blackspot Bruise Development within the First 24 Hours after Impact
Rabecka L. Hendricks*, Nora Olsen, Mike Thornton, Lynn Woodell

Impact of Potato Mop Top Virus on Potato in Storage
Lynn Woodell*, Nora Olsen, Alexander Karasev, Neil Gudmestad

Nitrogen Fertilizer Management Practices to Reduce N2O Emissions from Irrigated Processing Potato in Manitoba
Xiaopeng Gao, Mario Tenuta*, Sally Parsonage, Alison Nelson

Yield and Nitrogen Use of Irrigated Processing Potato in Response to Placement, Timing and Source of Nitrogen Fertilizer in Manitoba
Xiaopeng Gao, William Shaw, Mario Tenuta*, Darin Gibson

Plant Protection

Soil Fumigation to Determine Yield Loss of Russet Burbank Irrigated Processing Potato from Potato Early Dying Caused by Verticillium dahliae
Mario Tenuta*, Darin Gibson, Vikram Bisht

Long Term Patterns in the Resistance of Alternaria solani and A. alternata Species to Commonly Used SDHI Fungicides in Idaho
Katie L. Fairchild*, Alan Malek, Phillip Wharton

Evaluation of Fungicide Programs for the Control of Early Die in Potato in Idaho
Alan L. Malek*, Katie Fairchild, Sandesh Dangi, Phillip Wharton

Genotypic and Phenotypic Analysis of Streptomyces spp. Causing Common Scab Recovered from Potato in Michigan
Saltanat Mambetova*, Ray Hammerschmidt, Noah Rosenzweig

Managing Fungicide-resistant Populations of Phytophthora erythroseptica in Canada
Rick D. Peters*, Bennett Crane, Dorothy Gregory, Kim MacDonald, Anne MacPhail

Potato Virus Y Necrotic Tuber Symptoms in Varieties from Different Market Classes
Jonathan Whitworth*, Stewart Gray, Alexander Karasev

Utilization & Marketing

Starch Morphology, Sugars, and Thermal Properties Characterization of Processing Potato Cultivars Developed in Korea
Induck Choi*, Hye-Sun Choi, Jiyoun Park, Nam-Geol Kim, Seuk-Kee Lee, Jang-Hwan Park, JiHong Cho, Kwangsoo Cho, Jung-Whan Nam

Physiology
Vascular Occlusion is Associated with Reduced Sprouting Ability of Zebra Chip-afflicted Tubers
Daniel L. Mullendore*, GNM Kumar, N. Richard Knowles

Effects of Storage Temperature on Sugar Changes and Acrylamide Formation in Potato
Zhen-Xiang Lu*, Yuchuan Zhang, Benoit Bizimungu

5:30 pm - 10:00 pm Journey to Churchill, Assiniboine Park Zoo Shuttle Departs from the Lobby

WEDNESDAY, July 31

6:30 a.m. – 8:30 a.m. BREAKFAST Ballroom
6:30 a.m. – 5:00 p.m. Registration Desk/Information Mezzanine
6:30 a.m. – 8:30 a.m. Graduate Student Awards Committee Breakfast St. Boniface
7:00 a.m. – 8:30 a.m. Utilization & Marketing Section Meeting St. Vital
TBD Companion Program – Canadian Museum for Human Rights

8:30 a.m. – 12:00 p.m. CONCURRENT SESSION G Breeding & Genetics III Assiniboia A

Moderator: Helen Tai

8:30 a.m. Breaking Down Resistance – Molecular Mechanisms that Allow Pathogens to Overcome Resistance Genes in Potato
Dennis Halterman*

8:45 a.m. Building a Digital Ecosystem for Potato Breeding
David De Koeyer*, Martin Lagüe, Virginia Dickison, Kyle Gardner, Helen Tai, Lukas Mueller

9:00 a.m. Modernization of the Agriculture and Agri-Food Canada Potato Breeding Program
Virginia L. Dickison*, David De Koeyer, Helen Tai, Benoit Bizimungu, Xianzhou Nie, Dahu Chen, Jonathan Neilson, David Main, Claudia Goyer, Anne Smith, Larry Kawchuck

9:15 a.m. Genome-wide Association and Prediction Studies of Tuber Dormancy
Jeffrey B. Endelman, Maria Caraza-Harter, Becky Eddy

9:30 a.m. TubAR: A Method for Quantifying Tuber Shape Traits
Cari Schmitz Carley*, Rachel Figueroa, Colin Jones, Laura Shannon

9:45 a.m. Characterizing XERICO Drought Tolerance Technology for Cultivated Potato
Daniel Zarka, Kaitlyn Acheson, David Douches*
10:00 a.m.  BREAK – Coffee/Snacks

10:30 a.m.  **Potato Diversity to Address Abiotic Stresses: Use of S. commersonii to Improve Frost Tolerance in Andean Potatoes**
(84)  Alfonso H. Del Rio*, John Bamberg, Jiwan Palta, Jesus Arcos, Alberto Salas, Rene Gomez, David Ellis

10:45 a.m.  **USDA-ARS Evaluation of Public Breeding Clones for Improved Postharvest Processing Quality**
(85)  Darrin M. Haagenson

11:00 a.m.  **A Purple-flesh Potato Suitable for French Fry- Adding Nutrition Value to Processing Cultivars**
(86)  Benoit Bizimungu*

11:15 a.m.  **Genetics of Skin Set and Color in Red Potatoes**
(87)  Maria V. Caraza-Harter* and Jeffrey Endelman

11:30 a.m.  **Characteristics of Nitrogen Use Efficiency in Red Fresh Market Varieties**
(88)  Colin Jones, Cari Schmitz Carley, Rachel Figueroa*, Carl Rosen, Laura Shannon, Thomas Michaels

11:45 a.m.  **Challenges and Discoveries in Selecting Agile Potato Varieties under Long Daylengths in China and Canada**
(89)  Peter VanderZaag*, Chanhui Li, Tung Xuan Pham

12:00 p.m.  Concurrent Session G Adjourns

9:00 a.m. – 11:45 a.m.  **CONCURRENT SESSION H**
Extension, Production & Management II
Plant Protection II
Assiniboia B
Moderator:  Mathuresh Singh

9:00 a.m.  **In-season Nitrogen Management for New Promising Potato Cultivars**
(90)  Yi Wang* and Mack Naber

9:30 a.m.  **Effects of Late-season Irrigation Management on Potato Production in Wisconsin**
(91)  Yi Wang* and Mack Naber

9:45 a.m.  **Nitrogen Requirements for Various Potato Varieties for the Columbia Basin of Oregon**
(92)  Ruijun Qin* and Vidyasagar Sathuvalli

10:00 a.m.  BREAK – Coffee/Snacks

10:30 a.m.  **Impact of Seedborne PVY on Commercial Potato Tuber Yield and Quality**
(93)  Nora Olsen*, Lynn Woodell, Alexander Karasev, Kenneth Frost

10:45 a.m.  **Understanding the Role of Vectors Population, Inoculum Level & Variety Susceptibility in Transmission of PVY in Seed Potato – India**
Surendra P. Singh*   
11:00 a.m. **Impact of Phos-acid Fungicides on Seed Potato Performance**  
Vikram Bisht*   
11:15 a.m. **Genotypic Characterization of Phytophthora infestans Isolates from Indonesia**  
Sandesh Dangi, David Douches, Phillip Wharton*   
11:30 a.m. **In-furrow Applications of AZteroid FC with Starter Fertilizer for the Control of Rhizoctonia in Potato**  
Gary Poon*   
11:45 a.m. Concurrent Session H Adjourns

11:45 a.m. – 1:30 p.m. LUNCH (on your own)
12:00 p.m. – 1:00 p.m. Dismantle Posters Ballroom A
1:30 p.m. – 3:30 p.m. PAA Business Meeting Charleswood
3:30 p.m. – 4:30 p.m. Diploid Breeding Research Meeting Charleswood
3:30 p.m. – 5:30 p.m. SCRI Potato Soil Health Project Research Meeting Assiniboia A
4:30 p.m. – 5:30 p.m. Potato Pan Genome Sequencing Group Meeting Assiniboia B
6:00 p.m. – 7:00 p.m. PAA Awards Banquet Reception Delta BC
7:00 p.m. – 10:00 p.m. PAA Awards Banquet Delta BC
10:00 p.m. – 11:00 p.m. Hospitality Suite Manitoba Suite

**THURSDAY, August 1**

Morning BREAKFAST (On Your Own)

9:00 a.m. – 1:00 p.m. Agricultural Tour - Meet at Mezzanine
Canadian Malting Barley Technical Center