

37th International Carrot Conference
Nottawasaga Inn, Alliston, Ontario
Sept 15 - 17, 2015

Monday, Sept. 14

- 3:00 – 7:00 PM Registration – outside Conference Rm. 15
6:00 – 8:00 PM **Welcome reception** sponsored by **Nunhems** – Conference Rm. 15

Tuesday morning, Sept. 15

Registration desk open 7:30 – noon

- 7:30 – 8:30 AM **CONTINENTAL BREAKFAST** – Conference Rm. 15
8:30 – 8:40 AM Welcome Address – Mary Ruth McDonald – Conference Rm. 16

Oral Presentations: Carrot Production

Chair: Shawn Janse

- 8:40 – 9:00 AM Carrot production in Ontario. Marion Paibomesai
9:00 – 9:20 AM 68 years of carrot trials...and still going strong. Shawn Janse and M.R. McDonald
9:20 – 9:40 AM Impact on phosphorus dynamics in muck soils on carrot production in Ontario. Deanna Németh, Christoph Kessel, M.R. McDonald, I. O'Halloran, D. Speranzini, and T. Zhang
9:40 – 10:00 AM Integrated pest management in the Holland Marsh. Dennis Van Dyk, K. Vander Kooij, A. Abd-Elmagid and M.R. McDonald

BREAK Sponsored by **Weening Bros. Manufacturing**

Oral Presentations: Crop Protection

- 10:40 – 11:00 AM Improving management of the carrot weevil in Ontario. Zachariah Telfer, M.R. McDonald and C. Scott-Dupree
11:00 – 11:20 AM A fresh look at chemical control of carrot rust fly in Ontario. Jason Lemay, M.R. McDonald and C. Scott-Dupree
11:20 – 11:40 AM Carrot weevil and carrot rust fly in Nova Scotia and Prince Edward Island. Suzanne Blatt, M.R. McDonald, C. Scott-Dupree, J. Driscoll, A. Ryan, S. Adams and K. Hiltz
11:40 – 12:00 PM Carrots, climate change, and food security? Mary Ruth McDonald, M. Tesfaendrias and J. Warland

LUNCH sponsored by **Vilmorin SA** and poster viewing – Rm. 16

Tuesday afternoon & evening, Sept. 15

Chair: Jason Verkaik

- 1:30 – 1:50 PM Carrot cavity spot incidence and severity in USDA breeding lines. Kevin Vander Kooi, M.R. McDonald and P.W. Simon
- 1:50 – 2:10 PM Controlling root-knot nematode (*Meloidogyne hapla*) and carrot cyst nematode (*Heterodera carotae*) on carrots in Ontario. Dennis Van Dyk, K.S. Jordan and M.R. McDonald
- 2:10 – 2:30 PM Control of root-knot nematodes in fresh carrot production in California. J. Ole Becker, Antoon Ploeg and Joe Nunez
- 2:30 – 2:50 PM A food-grade oil induces resistance to aster yellows and foliar diseases of carrot. Mary Ruth McDonald, L. Riches and K. Vander Kooi

BREAK

- 3:30 – 3:50 PM Chemical sensitivity of *Fusarium avenaceum* infecting carrots in Prince Edward Island, Canada in 2014. R.D. Peters, K.A. Drake, H. Lu, A. Ryan, S. Adams, J. Driscoll, A. Macphail, D. Gregory, M. Trenholm, B. Crane, and G. Wang-Pruski.
- 3:50 – 4:10 PM Evaluation of approaches for management of Fusarium root rot on carrots. M. Tesfaendrias, Ahmed Abd-Elmagid, K. Vander Kooi and M.R. McDonald
- 4:10 – 4:30 PM Identification of pathogenic Fusarium species in carrots and their quantification in soil. Hongliang Lu, T. Borza, R. Peters, J. Driscoll and G. Wang-Pruski
- 5:30 – 6:30 PM **RECEPTION** – Conference Rm. 15
- 6:30 – 9:00 PM **BANQUET** sponsored by **Bejo Seeds Inc.** – Conference Rm. 15

Wednesday morning, Sept. 16

Chair: Jim Robinson

- 7:30 – 8:40 AM **CONTINENTAL BREAKFAST** – Conference Rm. 15

Oral Presentations: Herbicide Resistance

- 8:40 – 9:00 AM Herbicide trials for management of linuron-resistant pigweed in muckland carrots in New York. Julie R. Kikkert and R.R. Bellinder
- 9:00 – 9:20 AM Solutions for the control of herbicide resistant pigweed (*Amaranthus* spp.) in carrot. Clarence Swanton, S. Janse, D. Robinson, K. Obeid and R.E. Nurse

Oral Presentations: Plant Breeding

- 9:20 – 9:40 AM Building a better carrot map. Philipp Simon, S. Ellison, D. Senalik and M. Iorizzo
- 9:40 – 10:00 AM Enhancing freedom to operate for plant breeding through the development of eight open source carrot populations. Claire Luby and I.L. Goldman

BREAK sponsored by **Seminis Vegetable Seeds**

- 10:40 – 11:00 AM Integrated molecular and morphological studies of the *Daucus guttatus* complex. C.I. Arbizu, H. Ruess, F. Martínez-Flores, M.B. Crespo, P.W. Simon, and David M. Spooner

11:00 – 11:20 AM Cultivar development with the CIOA (Carrot Improvement for Organic Agriculture) Project targets flavor, novel colours, top height, and disease and pest resistance. Philipp Simon, M. Colley, L. McKenzie, J. Zystro, L. Hoagland, P. Roberts, J. Colquhoun, L. du Toit, J. Nunez, E. Silva and T. Waters

Oral Presentations: Water Management & Nutrition

11:20 – 11:40 AM Slow release fertilizer and N rate influence carrot quality and yield in Michigan processing carrots. D. Corey Noyes, D.C. Brainard and K. Steinke

11:40 – 12:00 PM Management of carrot wash water in the Lake Simcoe Basin. Donna Speranzini

Lunch and poster viewing

Wednesday afternoon, Sept. 16

Chair: Mike Celetti

1:30 – 1:50 PM Removing muck soil particles from carrot wash-water. Bridget Visser, E. Rozema, M. Saunders and C. Lalonde

1:50 – 2:10 PM Carrot wash-water treatment and reuse potential. Gurvinder Mundi, R.G. Zytner and K. Warriner

2:10 – 2:30 PM The effect of anthocyanin rich purple vegetable diets on insulin resistance in a model of metabolic syndrome. H.M. Ayoub, J. Yarr, H. Salim, M.R. McDonald, J.A. Sullivan, R. Tsao, and K.A. Meckling

2:30 – 2:50 PM Bioaccessibility, bioavailability and antioxidant and anti-inflammatory effects of anthocyanin-rich purple carrots. Hua Zhang, M.R. McDonald, R. Liu and R. Tsao

2:50 – 3:20 PM Business meeting

BREAK

3:50 – 4:50 PM Break Out Sessions:
Breeding – Phil Simon, discussion lead
Crop Protection – Joe Nunez, discussion lead

DINNER – on your own
3 restaurants at the Nottawasaga Inn and others in the area

Thursday Sept. 17 – Tour Cultivar trials and field trip

7:00 – 8:00 AM **Buffet breakfast** – Riverview Dining Room

8:15 AM Board buses sponsored by **Hillside Gardens** – meet in the lobby

8:30 AM Buses leave for field trip

9:30 – 11:30 AM Arrive at **Smith Gardens** for variety trial on muck soil and tour of carrot packing and wash water treatment plant

12:15 – 2:00 PM BBQ Lunch and tour of research plots at **Muck Crops Research Station**

2:30 – 3:30 PM Buses arrive at **Gwillimdale Farms** for Variety Trial on mineral soil

4:00 PM Buses return to Nottawasaga Inn and Conference Centre