

CONFERENCE AGENDA

Sunday, March 19, 2017

8:00 - 5:00 AM	Carrot Specialty Crop	Research	Initiative Gra	ant Meeting

5:30 - 6:30 PM Registration

6:30 - 10:00 PM Reception

Monday, March 20, 2017

7:00	Registration
8:10	Welcome and opening comments - Joe Nunez
8:20	Welcoming comments by - Bakersfield Mayor Karen Goh
8:40	Agriculture in Kern County - <i>Beatris Espericueta Sanders, Kern County Farm Bureau</i>
9:00	Carrot production in California - Joe Nunez, UC Cooperative Extension

PLANT PATHOLOGY SESSION

9:20

Moderator — D. Corey Noyes, Michigan State University

10.00	Proak View nestors: presentors will be at nestors to answer questions
9:40	Distribution of <i>Xanthomonas hortorum</i> pv. <i>carotae</i> in Commercial Carrot Seed Lots. <i>Jeremiah Dung</i>
	Vander Kooi, and P.W. Simon,

Selecting carrots with increased resistance to cavity spot. M. R. McDonald, K.

10:00	Break —View posters; presenters will be at posters to answer questions
	2. Care their posterior, processing at posterior at an extensive questions

- 10:20 Pythium diseases of carrots, *Joe Nunez*
- 10:40 Carrot viruses in the UK an agronomic challenge! *Howard Hinds*
- 11:00 Understanding the ecology and epidemiology of Pythium violae causing cavity spot on carrot. *Kathryn Hales*
- 11:20 Pest management in California fresh carrot from 1995 to 2015. *Jim Farrar*
- 11:40 Evaluation of Flea Beetle Phenology and Damage to Carrot Production in California. *Joe Nunez and <u>David Haviland</u>*

12:00 PM Lunch

NEMATOLOGY SESSION

Moderator—Mary Ruth Mc Donald, University of Guelph

- 1:30 Managing root-knot nematodes in organic carrot production an overview of California studies. *A. Ploeg, J.O. Becker, and J. Nunez,*
- 1:50 Evaluation of new nematicides for control of nematodes in carrots, in Ontario, Canada. *K. Vander Kooi, D. Van Dyk, and M. R. McDonald*
- 2:10 New nematicides provide effective protection against root-knot nematodes. <u>J. Ole Becker</u>, Antoon Ploeg, and Joe Nunez
- 2:30 Root-knot variability in response to carrot resistance. Philip A. Roberts, William C. Matthews, Philipp W. Simon and Tra T. Duong
- 2:50 Effects of a commercial soil amendment on plant parasitic nematodes, Amanda Hodson
- 3:10 **Break**

CARROT PRODUCTION SESSION Moderator— Jim Farrar, UC Davis

- 3:40 Effects of biotic and abiotic stress on carotenoid content in carrot. <u>Geoffriau</u>
 <u>Emmanuel</u>, Perrin Florent, Dubois-Laurent Cécile, Huet Sébastien, Suel Anita, Le
 Clerc Valérie, Briard Mathilde, Peltier Didier
- 4:00 Cover crops effects on nitrogen and weeds in MI processing carrots. <u>D. Corey Noyes</u>, Zachary D. Hayden, Haddish Melakeberhan, Ben Werling, and D.C. Brainard
- 4:20 **Adjourn**

BANQUET DINNER

- 5:30 Doors open –No Host Bar
- 6:00 **Dinner served**

Tuesday, March 21, 2017

BREEDING AND VARIETY EVALUATION—SESSION I Moderator—Phil Simon, USDA/ARS University of Wisconsin

- 9:00 The Search for Salinity Tolerance in Diverse Carrot Germplasm. <u>Adam Bolton</u> and *Phil Simon*
- 9:20 Characterization of a genomic region under selection in cultivated carrot (*Daucus carota* subsp. *sativus*) reveals a candidate domestication gene. *Alicja Macko Podgórni, Gabriela Machaj, Katarzyna Stelmach, Douglas Senalik, Ewa Grzebelus, Alicja Macko-Podgórni, Gabriela Machaj, Katarzyna Stelmach, Massimo Iorizzo, Philipp W. Simon, <u>Dariusz Grzebelus</u>, <i>Alicja Macko-Podgórni, Gabriela Machaj and Katarzyna Stelmach*

- 9:40 New carrot germplasm from Spain and its use in breeding, genetic, and taxonomic studies. <u>David M. Spooner</u>, Philipp W. Simon, and Fernando Martínez-Flores
- 10:00 The influence of organic and conventional production environments on breeding for carrot top size. *Charlene Grahn, Erin Silva, Philip Simon*
- 10:20 **Break -** View posters; presenters will be at posters to answer questions.

BREEDING AND VARIETY EVALUATION—SESSION II Moderator—Emmanuel Geoffriau, University of Angers, France

- 10:50 Elicitation of anthocyanins in hairy root cultures of black carrots. *Shih-Ti Chen, Gregorio Barba Espin, Trine Bundgaard Andersen, Renate Müller, <u>Henrik Lütken</u> and Bjarne Jørnsgård*
- 11:10 Phenotypic, Genotypic, and Freedom to Operate Variation in US Carrot Cultivars. *Claire Luby, Julie Dawson and <u>Irwin Goldman</u>,*
- 11:30 Genetic Analysis of Carrot Root Shape and Top Size Measured by Image Analysis. Sarah Turner, Nathan Miller, Edgar Spalding and <u>Phil Simon</u>
- 12:00 **Lunch**

BREEDING AND VARIETY EVALUATION—SESSION III Moderator— David Spooner, USDA/ARS University of Wisconsin

- 1:30 Marker Assisted Recurrent selection (MARS) for development of nutritionally rich, nematode resistant Carrot (*Daucus carota* L.) suitable to tropical region. Sarvamangala S. Cholin, Chaitra A. Poleshi, Manikanta D. S. and Jagadeesha R.C.
- 1:50 Utilizing 2D Imaging to Map Root System Architecture QTL in Carrot (*Daucus carota* L.) *Shelby Ellison and Philipp Simon*
- 2:10 Sources of Genetic Variation for Early Plant Growth in Diverse Carrot Germplasm. <u>Adam Bolton</u> and Phil Simon
- 2:30 Deploying *Meloidogyne incognita* Nematode Resistance in Carrot. *Phil Simon, Joe Nunez, William Matthews and Phil Roberts*
- 2:50 Marker development for genes of the carrot terpene biosynthesis. <u>Thomas</u>
 <u>Nothnagel</u>, Holger Budahn, Detlef Ulrich, Jens Keilwagen, Thomas Berner, Heike
 <u>Lehnert and Frank Dunemann</u>
- 3:10 Planning for the 39th International Carrot Conference and other Items
- 3:30 **Adjourn**

BANQUET DINNER

- 5:30 Doors open No Host Bar
- 6:00 **Dinner served**

Wednesday, March 22, 2017

FIELD TOUR

8:30 AM Buses leave DoubleTree Hotel to go on field tour

9:00 Buses arrive at Kern County UC Cooperative Extension Research Farm in Shafter

Carrot Variety Trial

Carrot Nematode Resistant Variety Trial

Carrot Nematicide Trial

High Tech Agricultural Machinery Showcase & Demonstration Presented by Booth

Machinery and IH/Case

12:00 **Lunch**

2:00 Buses Return to hotel (time approximate)