CONFERENCE AGENDA

Sunday, March 19, 2017
8:00 - 5:00 AM Carrot Specialty Crop Research Initiative Grant 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 - Beatris Espericueta Sanders, Kern County Farm Bureau
9:00 Carrot production in California - Joe Nunez, UC Cooperative Extension

PLANT PATHOLOGY SESSION
Moderator — D. Corey Noyes, Michigan State University
9:20 Selecting carrots with increased resistance to cavity spot. M. R. McDonald, K. Vander Kooi, and P.W. Simon,
9:40 Distribution of Xanthomonas hortorum pv. carotae in Commercial Carrot Seed Lots. Jeremiah Dung
10:00 Break— View posters; presenters will be at posters to answer 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 David Haviland
12:00 PM Lunch
NEMATOLOGY SESSION
Moderator—Mary Ruth McDonald, 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. J. Ole Becker, Antoon Ploeg, and Joe Nunez


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. Geoffriaud Emmanuel, 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. D. Corey Noyes, 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. Adam Bolton and Phil Simon

New carrot germplasm from Spain and its use in breeding, genetic, and taxonomic studies. **David M. Spooner, Philipp W. Simon, and Fernando Martínez-Flores**

The influence of organic and conventional production environments on breeding for carrot top size. **Charlene Grahn, Erin Silva, Philip Simon**

**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 Espín, Trine Bundgaard Andersen, Renate Müller, Henrik Lütken and Bjarne Jørnsångård**

- **11:10** Phenotypic, Genotypic, and Freedom to Operate Variation in US Carrot Cultivars. **Claire Luby, Julie Dawson and Irwin Goldman**.

- **11:30** Genetic Analysis of Carrot Root Shape and Top Size Measured by Image Analysis. **Sarah Turner, Nathan Miller, Edgar Spalding and Phil Simon**

**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. **Adam Bolton 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. **Thomas Nothnagel, Holger Budahn, Detlef Ulrich, Jens Keilwagen, Thomas Berner, Heike Lehnert and Frank Dunemann**

- **3:10** Planning for the 39th International Carrot Conference and other Items

**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)