MONDAY, JULY 26

8 am  Welcome Session
- Opening of NABREW 2010. Welcome and housekeeping. Eric Hanson, MSU
- Welcome to Kalamazoo. Greg Ayers, Discover Kalamazoo
- Welcome on behalf of Michigan Ag. Experiment Station and MSU Extension. Doug Buhler, MSU

8:30 am  Keynote Address
History of the North American Highbush Blueberry Industry. Mike Mainland, NCSU

9.30 am  Breeding:
- Approaches to breeding for parthenocarpic fruit development in blueberry
- The use of tetraploid intersectional hybrids in *Vaccinium* breeding
- A multi-disciplinary approach to sustainability and profitability of U.S. blueberry production using the tree-like species *Vaccinium arboreum*

10:15 am  Break

10:45 am  Genetics and Breeding
- Recent advances in blueberry transformation
- Isolation and functional association of a blueberry CBF transcriptional activator with cold acclimation and freezing tolerance
- Transformation of a blueberry-derived CBF gene into a southern highbush blueberry cultivar

11:30 am  Lunch

12:30 pm  Blueberry Culture
- The Texas blueberry industry – history, trends and cultural strategies
- An update of highbush blueberry industry and research activities in Korea
- Something new in blueberry growing in China
- A comparison of continuous nitrogen fertigation to conventional granular fertilizer in highbush blueberry
- Field evidence for lateral transfer of water and nutrients in highbush blueberry: debunking a myth
- Drip fertigation assessments with two blueberry varieties in Northern Argentina
- Gypsum rate evaluation for Maine wild blueberry (*Vaccinium angustifolium* Ait.)
- Establishment and management of the cultivated lowbush blueberry (*Vaccinium angustifolium*)

2:30 pm  Break and Poster Session

3:30 pm  Blueberry Pollination
- Developing an understanding of blueberry pollination ecology in North Carolina
- Friend or foe? Pollinators as disease vectors
- Precise dissemination of biological fungicides by bumble bees for Botrytis control in rabbiteye blueberry

4:15 pm  Post Harvest
- Effects of harvest date and overall bush ripeness on flavor and storage of ‘Liberty’, ‘Elliott’ and ‘Aurora’
- Evaluation of postharvest quality of three commercial blueberry cultivars based on two types of clamshells

6 pm  Dinner on your own, or join guided groups to local restaurants
TUESDAY, JULY 27

Concurrent sessions on:

**Organic blueberry management**

8 a.m. 20 minute invited overview talks
- Organic wild blueberry research & extension in Maine
- Producing organic blueberries in Georgia
- Organic highbush blueberry production systems research – management of plant nutrition, irrigation requirements, and weeds
- Status update on Michigan and Great Lakes region organic blueberries

10 a.m. Break

10:30 a.m. Organic Blueberry continued...
- Nitrogen release patterns from organic nutrient sources
- Effects of organic and conventional management on plant health and soil biology in Michigan blueberries
- Efficacy of organically acceptable materials for control of mummy berry on wild blueberries in Maine
- Disease control options for organic blueberries

**Blueberry genomics**

15 minute talks...
- Microsatellite markers: valuable in *Vaccinium*
- Generating genomic tools for blueberry improvement
- Developing tools for long term breeding of blueberry germplasm for UK production
- Progress in blueberry research in New Zealand

10 a.m. Break

10:30 a.m. Blueberry Genomics continued...
- Update on the diploid blueberry (*Vaccinium corymbosum*) draft genomic sequence and efforts to integrate genomic sequence with genetic mapping
- Does pollen' neighborhood’ affect yield in lowbush blueberry (*Vaccinium angustifolium*)?

11:30 a.m. Lunch

12:30 p.m. Extension and Outreach
- Creating a Community of Practice for blueberries
- Training underserved growers on good agricultural practices for food safety: overcoming barriers to adoption

1 p.m. Blueberry Pests and Their Management – session 1
- Moss competition dynamics and suppression technologies in wild blueberry production
- Effect of nitrogen regime on blueberry overwintering, stem blight and Phomopsis susceptibility, and aphid population density
- Suppression of *Monilinia* blight: strategies for today and potential fungicide options for tomorrow
- Optimizing pesticide performance and application methods for blueberries
- The status of integrated pest management for insect pests of blueberries in California

2:30 p.m. Break and Poster Session

3:30 p.m. Blueberry Pests and Their Management – session 2
- Status of Spotted Wing Drosophila as a pest of blueberries in the Western United States
- Life-stage activity of broad spectrum and reduced-risk insecticides on cranberry fruitworm in highbush blueberry
- An effective IPM program for managing fruitworms in highbush blueberry
- Rainfastness of insecticides to control Japanese beetles in blueberries

6 p.m. Conference Dinner at the Kalamazoo Air Zoo

WEDNESDAY, JULY 28

8 a.m. - 7 p.m. Tour of southwest Michigan blueberry farms and processors
The tour will visit several large blueberry farms, packing and processing facilities. We will also visit U-pick and roadside markets that sell value-added products such as blueberry souvenirs, preserves, and will view modern mechanical harvesting equipment in the field. Includes lunch at a winery and dinner at a blueberry farm.
Monday Poster Sessions

Genetics and Breeding
- ‘Pearl’ southern highbush blueberry
- Stability of transgenes in blueberry
- Nutrient distribution in ‘Tifblue’ rabbiteye blueberry

Blueberry Culture
- Potential for mechanical harvest of Florida blueberry cultivars and selections
- Effect of rootstock on the growth of ‘Spartan’ highbush blueberry in Korea
- Production of blueberries in Poland
- Fruit set and berry weight of four rabbiteye blueberry cultivars following exposure to sub-freezing temperatures during flowering
- Fruit development period of several southern highbush cultivars
- Comparison of single and split application of gypsum for wild blueberry (V. angustifolium)
- Nutrient requirements of ‘Tifblue’ rabbiteye blueberry.
- Preliminary examination: evaluation of blueberry types and cultivars for the advance shipping in unheated plastic house culture

Blueberry Pollination
- Commercial bumble bee pollination of lowbush blueberry
- Bees in Michigan blueberries and estimating their contribution to fruit production

Post Harvest
- Extraction and analysis of pectin from blueberries (Vaccinum corymbosum)

Blueberry Genomics
- Transcriptome analysis of blueberry using 454 EST sequencing
- Preliminary analysis of genetic diversity in lowbush blueberry (Vaccinium angustifolium) across its native range
- Chilling requirement, cold hardiness and fruiting characteristics of a ‘Draper’ x ‘Jewel’ population planted at multiple sites
- EST-PCR markers developed from highbush blueberry sequences are useful for genetic fingerprinting and relationship studies in rabbiteye blueberry
- Evolutionary relationships in Vaccinium section Cyanococcus

Organic Blueberry management:
- Reaction of blueberry (Vaccinium corymbosum) to GIBB Plus application

Extension and Outreach:
- Growing blueberry knowledge via social networks
- Enviroweather for improved blueberry management decisions in Michigan

Blueberry pests and their management:
- Blueberry gall midge: an emerging pest of Michigan blueberries?
- Anthracnose fruit rot resistance in blueberries: evaluation of a rapid screening technique and correlation with fruit characteristics
- Valdensinia leaf spot suppression in wild blueberry production
- The entomology blueberry IPM research and extension program at Rutgers University
- Survival of southern highbush blueberry cultivars in a Phytophthora root rot infested field in South Mississippi

Health Benefits / Nutraceuticals
- Diversity and abundance of anthocyanins in blueberry (Vaccinium) species with different multiploidy levels, implications for genetics research and human health

Tuesday Poster Sessions

Blueberry Genomics
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