Frontiers in Breeding for Drought
New technologies to reduce future famines

Thursday 21 June 2018

9:00  John McKay – Welcome and Introduction
9:30  Malia Gehan – Utilizing Natural Variation for Crop Resilience Under Temperature Stress
10:15 Break
10:35  Duke Pauli – Unraveling Stress Adaptive Traits through the use of Phenomics
11:20  Mainassara Zaman Allah – Drought Phenotyping in Maize Breeding Using remote sensing approaches
12:05  Lunch Break – on your own

1:30  Mike Olsen – Drought Tolerant Maize for Africa
3:00  Coffee Break
3:20  Brook Moyers – Genetics of Drought Adaptation in Rice
4:05  Detlef Weigel – Genetics and epigenetics of adaptation to the abiotic environment in A. thaliana
4:50  Wrap up

Friday 22 June 2018

9:00  Pat Byrne – Training and Collaboration in Plant Breeding for Drought Tolerance
9:30  Alina Zare – Machine Learning Methods for Remote Sensing and Phenotyping
10:15 Break
10:35  Falalou Hamidou – Field and Lysimeter Phenotyping for Drought Tolerance in Peanut and Pearl Millet/Sorghum
11:20  Randy Clark – Breeding for Drought in Elite Hybrid Maize
12:05  Lunch Break – on your own

1:30  STUDENT AWARD TALK Dinakaran Elango Pennsylvania State University
Genome wide mapping reveals novel genes associated with epi-cuticular wax biosynthesis and transport in sorghum
1:45  STUDENT AWARD TALK Grey Monroe, Colorado State University
Drought adaptation in nature by extensive genetic loss-of-function

2:00  STUDENT AWARD TALK Uttam Bhattarai Louisiana State University
Genome wide QTL mapping for yield responses to drought in rice

2:15  Coffee Break
2:35  Troy Ocheltree – Can crop breeders learn from evolutionary solutions to drought adaptation?
3:20  John McKay – Sensing Underground Biological Traits and the Ecology of Roots, Rhizospheres and Aridity
4:05  William Beavis – Redesigning Plant Breeding to Efficiently Transfer Discoveries of Genetic Adaptation to Drought
4:50  Wrap up