

UCSD Center for Molecular Agriculture
Symposium: March 17, 2009
Venue: Fredric de Hoffman auditorium of the Salk Institute

Water: plants, agriculture and climate change

Global water resources, ecosystems and human development.

- 9:00 – 9:15 **Steve Kay**, Dean of Biological Sciences UCSD
Opening remarks
- 9:15 – 9:55 **Chris Field**, Carnegie Institution, Stanford, CA
“Natural and agricultural ecosystems in a changing world”
- 10:00 – 10:30 **Michael Hanemann**, UC Berkeley, Berkeley, CA
“The economics of water, or why do the rivers run dry?”
- 10:30 – 11:00 Refreshments in the foyer
- 11:00 – 12:00 **Peter Agre**, Johns Hopkins School of Public Health, Baltimore, MD
“Aquaporins in human physiology and disease”
- 12:15 – 1:00 Lunch provided in the Foyer for all who registered

Plant Growth and water use efficiency.

- 1:00 – 1:25 **Christophe Maurel**, CNRS Montpellier, France
“Water channel proteins and water uptake by roots.”
- 1:30 – 1:55 **Julian Schroeder**, UC San Diego, San Diego, CA
“Newly Identified Water Deficit and CO₂ Perception Mechanisms that Control Water Use Efficiency of Plants.”
- 2:00 – 2:25 **Theodore Hsiao**, UC Davis, Davis, CA
“Transpiration and crop growth in a high CO₂ world.”
- 2:30 – 2:55 **Francois Tardieu**, INRA, Montpellier, France
“Tolerance to water deficit: genetic and modeling approaches.”
- 3:00 – 3:30 Refreshments in the Foyer
- 3:30 – 3:55 **Philip N. Benfey**, Duke University, Durham, NC
“The response of regulatory and physical root networks to abiotic stress”

The Real World of improving crops.

- 4:00 – 4:25 **Oliver Ratcliffe**, Mendel Biotechnology, Hayward, CA
“Transcription factor based technology & new tools for future crop improvement”
- 4:30 – 4:55 **Michael Luethy**, Monsanto, St Louis
“Using Biotechnology to Develop Crops with Improved Yields Under Water Deficit Stress”
- 5:00 – 6:00 Reception in the Salk Institute Foyer