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PROGRAM

8:00 — 8:30 am

Registration & Light Breakfast

8:30 — 9:00 am

Welcome

Remarks by Secretary Karen Ross, California Department of Food & Agriculture

9:00 — 10:00 am

Impacts & Adaptation: What to Expect & How to Cope

What impacts on California agriculture can we expect to see as the climate changes? What are agriculture's best strategies for adapting and increased resilience to these changes? **Presenters:** Bryan Weare (Dept. of Land, Soil and Water Resources, UC Davis), Louise Jackson (Dept. of Land, Soil and Water Resources, UC Davis)

10:00 — 11:00 am

Taking a Whole Farm Approach to Climate Protection

Research is finding that it is essential to consider whole farming systems when evaluating the climate impacts of various farming practices in order to accurately evaluate the consequences. Getting the science right is a vital first step for guiding policy, best management practices, and incentive programs. **Presenters:** Charles Benbrook (The Organic Center), Michel Cavigelli (USDA Agricultural Research Service)

11:00 - 11:45 am

Policy Initiatives

Initiatives to watch for in 2011 include: Implementation of California's landmark climate change bill (AB 32); the 2012 Farm Bill; advocacy in Governor Brown's office; CalCAN sponsored legislation. **Presenters:** Jeanne Merrill (CalCAN), Tina Andolina (Office of Senator Lois Wolk), Rich Rominger (Farmer, former Director Cdfa, former Deputy Secretary USDA).

11:45 - 12:00 am

CalCAN Leadership Awards

Honoring two leaders who made valuable contributions to the field of climate change and agriculture in 2010.

12:00 — 1:00 pm

Lunch

— continued —

PROGRAM (continued)

1:00 — 2:15 pm Session A

Climate Benefits of Organic Farming (Ballroom)— A growing body of research shows that organic farming systems have lower global warming potential than conventional systems and offer other ecosystems services such as clean air and water and wildlife habitat. This session will summarize relevant research trends. **Presenters:** Michel Cavigelli (USDA ARS), Albie Miles (Dept. of Environmental Science, Policy & Management, UC Berkeley). Moderator: Claudia Reid (California Certified Organic Farmers).

Farm Power: On-Farm Renewable Energy (Conference Room A) — Farms are potential producers of renewable energy in the form of solar, wind, and biogas and will be needed to meet California's renewable energy targets. This session will focus on innovations and barriers to producing on-farm energy. **Presenters:** Russ Lester (Dixon Ridge Farms), Stacey Sullivan (Sustainable Conservation), Brent Morrison (Morrison and Company). Moderator: Jeanne Merrill (CalCAN).

Carbon & Cattle: Climate Benefits of Rangeland Conservation (Alumni Center AGR Room) — Rangeland conservation practices can sequester carbon on the vast acreages of grazing land in California. This session will explore the science and practical considerations for ranchers. **Presenters:** James Bartolome (Dept. of Environmental Science, Policy & Management, UC Berkeley), Whendee Silver (Dept. of Environmental Science, Policy & Management, UC Berkeley), Leslie Roche (Ecology Graduate Group, UC Davis). Moderator: Jo Ann Baumgartner (Wild Farm Alliance).

2:30 — 3:45 pm Session B

Soil Management: Impacts on GHG Emissions & Carbon Sequestration (Ballroom) — Short presentations will be made by several researchers exploring the role of nitrogen and carbon emissions in agriculture. Most of the session will be spent in discussion and Q&A with the researchers. **Presenters:** Johan Six (Dept. of Plant Sciences, UC Davis), Todd Rosenstock (Agricultural Sustainability Institute, UC Davis), Will Horwath (Dept. of Land, Soil and Water Resources, UC Davis). Moderator: Jeanne Merrill (CalCAN).

Dairies & Climate Change (Alumni Center AGR Room) — Livestock manure and digestive processes are responsible for nearly half of California's GHG emissions. Dairy cattle, a large portion of the livestock sector, deserve unique examination. This session will explore dairy practices with the greatest climate benefits. **Presenters:** Cindy Daley (College of Agriculture, Chico State University), Charles Benbrook (The Organic Center), Frank Mitloehner (Dept. of Animal Science, UC Davis). Moderator: Cindy Daley.

Calculators & Credits (Conference Room A) — Efforts are being made to quantify the impacts of various farming practices on GHG emissions and carbon sequestration. This session will explore the protocols being developed to enable growers to sell credits on the carbon market, as well as a GHG calculator tool developed by the wine industry. **Presenters:** John Garn (Viewcraft), Derik Broekhoff (Climate Action Reserve). Moderator: Dave Henson (Occidental Arts & Ecology Center).

4:00 — 5:15 pm Session C

Partnerships in Science & Practice (Ballroom) — Researchers and growers will share their stories of their collaborations on participatory research and what they are learning about climate-friendly production practices. **Presenters:** Ann Thrupp (Fetzer Vineyards), Louise Jackson (Dept. of Land, Soil and Water Resources, UC Davis), Tony Turkovich (Button & Turkovich Ranch), Johan Six (Dept. of Plant Sciences, UC Davis), Bill Burrows (Burrows Ranch). Moderator: Judith Redmond (Full Belly Farm).

Farmland Protection (Alumni Center AGR Room) — Conserving farmland has many climate benefits including limiting urban sprawl and its transportation-related emissions, and protecting land with carbon sequestration potential. This session will explore efforts to implement stronger farmland protection programs in California. **Presenters:** Darla Guenzler (California Council of Land Trusts), Chris Scheuring (California Farm Bureau Federation), David Shabazian (Sacramento Area Council of Governments). Moderator: Dave Runsten (Community Alliance with Family Farmers).

Technical Assistance for Producers (Conference Room A) — Experts from various agencies that provide technical support to producers will describe the programs they offer related to climate change adaptation and mitigation. **Presenters:** Rex Dufour (National Center for Appropriate Technology), Jeff Mitchell (Dept. of Plant Sciences, UC Davis), Roney Gutierrez (Natural Resources Conservation Service). Moderator: Luana Kiger (Natural Resources Conservation Service)

5:15 — 5:30

Closing Remarks (Alumni Center AGR Room)

5:30 — 6:30 pm

Wine & Cheese Reception (Alumni Center AGR Room)