

# **COLUMBIA PLATEAU WIND EROSION / AIR QUALITY PROJECT ANNUAL MEETING**

Red Lion Hotel, Richland, WA  
December 13-14, 2001

**OVERVIEW** -- The Columbia Plateau Wind Erosion/Air Quality Project is a broad scale research and implementation program to enhance the agriculture and air quality of the Pacific Northwest. The focus is to explore regional agricultural air quality issues, including PM-10 and 2.5 dust and smoke emissions, best management practices, and human health concerns. Featured speakers at the Dec. 13-14 meeting include USDA and university scientists, agricultural producers, and agency personnel. They will review recent research results, discuss current farming practices and future needs of local growers, and define new priorities for agricultural air quality research.

The project is sponsored by a number of federal and state agencies and universities including: USDA Cooperative States Research, Education and Extension Service; USDA Natural Resource Conservation Service, Washington State Department of Ecology; USDA Agricultural Research Service; US Environmental Protection Agency; Washington State University; and University of Idaho

**WHO SHOULD ATTEND** -- All persons interested in farming, wind erosion, agricultural burning, and air quality will benefit by attending this annual technical review. Interact with agency managers, scientists, growers, and staff from the Pacific Northwest and nationally. For more information contact Bill Schillinger at 509-235-1933, e-mail (schillw@wsu.edu), or Keith Saxton at 509-335-2724, e-mail (ksaxton@wsu.edu).

## **AGENDA**

### **Thursday Dec. 13**

- 8:30 Registration, coffee, juice & roles
- 9:00 Welcome, introduction and announcements -- Moderator: Bill Schillinger, WSU Crop & Soils
- 9:10 CP3 Project status & activities review

### **Cropping Systems Research for Air Quality**

- 9:20 A climatic perspective of the 2001 drought - Claudio Stockle, WSU Bio Sys Eng
- 9:45 Economics of conservation cropping systems - Doug Young, WSU Ag Econ
- 10:10 Dryland and irrigated cropping systems research - Bill Schillinger, WSU Crop & Soils
- 10:35 Break
- 10:50 The Ralston integrated spring cropping project - Frank Young, USDA-ARS
- 11:15 On-farm testing of dryland farming practices - Aaron Esser, WSU Coop. Extension
- 11:40 Grower technology access for wind erosion control - Roger Veseth WSU and U of I.
- 12:00 Lunch

- 1:00 Reconvene and announcements -- Moderator: Keith Saxton, USDA-ARS
- 1:05 Farming with drought in the Horse Heaven Hills - David Roseberry, Grower
- 1:25 The CP3 grower direct-seed cropping project - Gary DeVore, Adams Cons. Dist.
- 1:40 News from the PNW Direct Seed Association - Ron Jirava, Grower
- 2:00 Farming with drought in north-central Oregon - Bill Jepsen, Grower
- 2:20 Farming with the wind update - Bob Papendick, WSU Crop & Soils
- 2:35 Break

### **Regional Soil Data**

- 2:55 Irrigated cover crop analysis - Bill Pan and Bruce Frazier, WSU Crop & Soils
- 3:15 Eureka Flat: the engine for geologic dust production in eastern Washington - Mark Sweeny and Alan Busacca, WSU Geology and Crop & Soils
- 3:35 Soil quality and wind erosion - Ann Kennedy, USDA-ARS

### **Air Quality Impacts**

- 3:55 Tri-cities dust and smoke experiences - Dave Lauer, Benton County Air Authority
- 4:05 Recent air quality in Spokane - Ron Edgar, Spokane County Air Authority
- 4:15 Air quality issues in the Columbia Plateau - Scott Downey, EPA, Seattle
- 4:30 Agricultural air quality update - Bob Saunders, WA/DOE, Olympia
- 4:45 Adjourn
  
- 6:00 Social and no-host bar
- 6:45 Banquet dinner
- 7:30 Wind erosion environmental impacts in Uzbekistan - Mansur Amonov, visiting prof., WSU Civil & Env Eng
- 8:00 Adjourn

### **December 14, 2001**

- 7:30 Coffee, juice & rolls
- 8:00 Announcements -- Moderator: Candis Claiborn, WSU Civil & Env Eng

### **Measurement and Prediction of Dust Emissions**

- 8:05 Development update of the WEPS model - Larry Wagner, USDA-ARS, Manhattan, Kansas
- 8:35 New intensive field measurement system and fall 2001 events - Jim Kjelgaarde and Keith Saxton, USDA-ARS
- 9:00 Calibration of particulate measuring devices - Irra Sundram and Candis Claiborn, WSU Civil & Env Eng
- 9:20 Advances in regional particulate predictions - Brian Lamb, WSU Civil & Env Eng
- 9:40 Break

### **Residue Field Burning Tests for Air Quality Definitions**

- 10:00 Emissions from field burning of cereals - Mark Schaaf, Air Sciences, Portland,

OR

10:30 Emission tests of grass stubble - Bill Johnston, WSU Crop & Soils

10:50 Particulate emission rates from wheat stubble - Ramil Dhammaphla and Candis Claiborn, WSU Civil Eng

11:10 Open discussion on future project directions (Schillinger and Saxton, moderators).

11:45 Adjourn

**DIRECTIONS** to the Red Lion Hotel, 802 George Washington Way, Richland, WA ---

Take exit 5b, George Washington Way off of I-82, continue North on George Washington Way two miles. For reservations call 509-946-7611 and reference "WSU-CP3" to ensure your rate and room availability before December 5.

**REGISTRATION** -- Full registration (meetings, one lunch, breaks and banquet) is \$65, but partial registration options are available. Registration is requested by December 6. For more registration information, contact: Cindy Warriner, WSU Cooperative Extension, 210 W Broadway, Ritzville, WA 99169, Phone 509-659-3214, Fax 509-659-3303, E-mail ([warriner@wsu.edu](mailto:warriner@wsu.edu)).