Joint annual meeting of the
Western Society of Crop Science
Western Wheat Workers
Western Education/Extension Research Activities (WERA97)
July 11-13, 2012
at Washington State University, Pullman, WA

**Wednesday July 11:**
Morning: Arrive, Check in. Conference hotel:
- Holiday Inn Express,
  1190 Southeast Bishop Boulevard, Pullman, WA 99163
  Phone: (509) 334-4437
The hotels have shuttles. If you will need to park on Campus, please let us know when you register.

Lunch on your own:

12:30-1:00 Registration.
- Registration: Emsinger Pavilion. Wilson Road, WSU Campus.
- WSU capus map: [http://campusmap.wsu.edu/campus-map/FULL/index.html](http://campusmap.wsu.edu/campus-map/FULL/index.html)

1:15pm Load busses for field tour.
Conservation farm and/or Cook farm:
Spillman Farm: Breeding, Pea and Lentil, Wheat, Barley. Rust and soil borne diseases.

Dinner on your own.
Thursday, July 12:
Both Hotels have continental Breakfast.

All events at Ensminger Pavilion.
Shuttle to Campus
Poster set up: Starting at 7:30 am on Campus

7:30-8:15: Late Registration, Coffee.
8:15: Welcome
8:20-8:55: Plenary session:
Climate Change and Cropping Systems: Sanford Eigenbrode

Student Oral Sessions -
Wheat grain quality
9:00-9:20 (id=75202) Evaluating Seed Dormancy and Preharvest Sprouting Resistance of an ABA Hypersensitive Mutant ZakERA0. . S. Martinez, E. Schramm, C. Steber, and K. Garland Campbell

10:00-10:25: Coffee break
Student Oral Sessions -
Crop production and management:
10:30-10:50: (id=75452) Maximizing Forage Production with Grass-Legume Mixtures of Tall Fescue, Orchardgrass, Meadow Brome, Alfalfa, Birdsfoot Trefoil, and Cicer Milkvetch in Three Ratios. . S. R. Cox, M. Peel, B. Waldron, G. Cardon, and E. Creech
10:50-11:10: (id=75454) Safflower Growth and Yield Response to Seeding Rate and Row Spacing. . J. Clark, C. Israelsen, M. Pace, and E. Creech
11:10-11:30: (id=75455) Teff Forage Yield and Quality As Influenced by Seeding Rate, Nitrogen Fertilization, and Harvest Timing. . T. Bingham, M. Laca, G. Cardon, K. Jensen, and E. Creech
11:30-11:50: (id=75886) Intercropping Dual-Purpose Winter Canola with Wheat and Peas. . C. Walsh, J. Brown, and J. Davis

12:00-1:00 Lunch at Ensminger Pavilion

Student Oral Sessions -
Plant response to Abiotic and Biotic stress
1:00-1:20: (id=75364) The Potential of Utilizing Brassicaceae Green Manure for Control of Soil-Borne Pests and Weeds. . B. Reid, J. Brown, J. Davis, and M. Wingerson
1:20-1:40: (id=75887) Use of Stem Reserve Carbohydrates to Predict Yield in Wheat. . J. Piaskowski and K. Garland Campbell
1:40-2:00: (id=75888) Agronomic Characteristics of Spring Wheat Accessions From the USDA National Small Grains Collection Evaluated Under Drought and Low Nitrogen Environments. . B. Bowman, J. Zhang, J. Wheeler, J. M. Bonman, H. Bockelman, and J. Chen
2:00-2:20: (id=74094) Molecular Mapping of Two Genes for Stripe Rust Resistance in Durum Wheat Germplasm Accessions PI 331260 and PI 480016. . P. Cheng and X. Chen

2:20-2:40: Coffee Break
2:40-3:30: Triticeae CAP update:
*Results from first year: (Speakers TBD)*
- Disease resistance
- Drought resistance
- NUE
- Genomics

3:30-5:10 State Reports:
- New cultivars
- Preliminary research notes
- Emerging Pest Problems
- Weed control issues
- Production issues
- Personnel Changes

5:15-6:30 Poster session - refreshments
6:30-8:00: Awards, Barbeque

**Poster Presentations:**

**Cropping Systems:**
- (id=75974) Establishing Forage Legumes with Companion Crop. E. Kimura, J. M. Krall, B. W. Hess, and A. M. Islam
- (id=75747) Developing Sustainable and Profitable Cropping Systems for North-Central Oregon. S. Machado, S. Petrie, and L. Pritchett
- (id=73825) Performance of Hard Red Winter Wheat in a Late-Planted, No-till Fallow Cropping System. L. Lutcher, D. Wysocki, and M. Flowers
- (id=72250) Relay Cropping in Winter Barley Feasibility. B. Brown
- (id=73794) Kentucky Bluegrass for Seed Production without Open-Field Burning. W. J. Johnston, R. C. Johnson, and C. T. Golob
- (id=75980) Tailoring Extension Education Efforts to Region-Specific Oilseed Production Zones in Washington State. K. Sowers, W. Pan, and D. Roe

**Crop Nutrition:**
- (id=75985) Ammonia Volatilization and Effect of Agrotain and SuperU on Winter Wheat Crops in Western Oregon. N. P. Anderson, M. D. Flowers, and J. M. Hart
- (id=71213) Evaluation of Sensor-Based Technologies and Nitrogen Sources for Improved Spring Wheat Production In Montana. O. Walsh and M. Westcott
- (id=71214) Effect of Nitrogen Sources, Rates, and Application Time On Spring Wheat Yield. O. Walsh
- (id=73629) Increasing the Efficiency of MAP and Urea Applied to Winter Wheat in Montana with AVAIL and Nutrisphere-N. G. Mooso, T. Tindall, G. Jackson, and H. Zhang

**Crop Water Use**

**Disease Resistance**
- (id=74101) Epidemics of Stripe Rust On Wheat and Barley and Races of Puccinia Striiformis Identified in the Western United States in 2010 and 2011. A. Wan and X. Chen
- (id=74998) Lignin As a Potential Defense Against Plant Parasitic Nematodes. A. L. Thompson
Friday July 13:
Both Hotels have continental Breakfast.

All events at Ensminger Pavilion.
Shuttle to Campus
8:00-8:15: Coffee.
8:15: Welcome and WSCS update: Mark Brick

Oral presentations: Crop management:
8:30-8:45: (id=73706) Dietary Fiber Content in Dry Bean Cultivars. . M. A. Brick, A. Kleintop, D. Echeverria, and H. Thompson
8:45 -9:00: (id=75891) Assessing Agronomic and Nutrient Managements On Yield and Quality of Canola in Eastern Canada. . D. K. Biswas and B. L. Ma
9:00-9:15: (id=73788) Spring Crops for the Palouse, Do Oilseeds Work? . S. O. Guy and M. Lauver
9:30-9:45: (id=74535) Reduced Population and Nitrogen Rate Effects On Corn, Conventional and Brachytic Dwarf Forage Sorghum Yield and Plant Composition. . M. Marsalis
9:45-10:00: (id=70913) Strategies for N Transfer From Alfalfa to Wheat. . L. Lauriault
10:00-10:15: (id=71133) Benefits of Intensified Cropping Systems. . R. Klein
10:15-10:30: Coffee break
10:30-12:00: WWW, WERA, WSCS Concurrent Business Sessions.

12:15-1:15 Lunch and depart.
Pullman based researchers will be around in the afternoon for additional field and laboratory visits.