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Spinach downy mildew in winter tunnel production 2017 UWEX Commercial Vegetable Production Guide A3422 is now available Updated agenda for UWEX/WPVGA Grower Education

Conference Stevens Point

Calendar of Events

January 22-24, 2017 – WI Fresh Fruit & Vegetable Growers Conf. WI Dells February 7-9, 2017 – UWEX/WPVGA Grower Ed. Conf., Stevens Point, WI March 1, 2017 – UWEX Processing Vegetable Crops Meeting, Hancock, WI

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Spinach downy mildew detected in Wisconsin tunnel production systems: Downy mildew of spinach caused by the oomycete pathogen *Peronospora farinosa* f. sp. spinaciae, has been confirmed in several season extension production systems of Wisconsin this past Fall and currently this Winter. Many vegetable crops can get downy mildew, but this particular pathogen infects just spinach and possibly some Chenopodium weed species. While this disease may have been around in previous years without a confirmed diagnosis, this is the first year in which multiple locations across the state have experienced the disease with such severity. Dr. Meg McGrath of Cornell University Long Island Horticultural Research and Extension Center has developed a very informative website for further information on this disease (symptoms, fungicides for conventional and organic systems), including a link to confirmed reports. http://livegpath.cals.cornell.edu/2016/11/15/disease-alert-spinach-downy-mildew/

Dr. Brian Hudelson of the UWEX Plant Disease Diagnostic Clinic and I are glad to assist with diagnosing and providing recommendation for managing this disease. Cultural management approaches can provide some control, but because the season extension systems cool, moist, and contain highly concentrated plantings of susceptible spinach, fungicides may be necessary to control this disease. There is some varietal resistance that can be utilized but resistance is dependent upon the right combination of variety and likely pathogen strain.



Photos courtesy of Dr. Meg McGrath, Cornell University Long Island Horticultural Research and Extension Center, Riverhead, NY.

The 2017 A3422 Commercial Vegetable Production in Wisconsin Guide is now available for 2017. As in past years, the guide can be downloaded for free (link below) or a hard copy can be purchased from UWEX Learning Store for \$10.

https://learningstore.uwex.edu/Assets/pdfs/A3422.pdf

2017 UWEX/WPVGA Grower Education Conference has an updated agenda: February 7-9, 2017: University of Wisconsin Extension/Wisconsin Potato & Vegetable Growers Association Grower Education Conference, Holiday Inn Convention Center, Stevens Point, Wisconsin

Coordinated by the Wisconsin Potato and Vegetable Growers Association and University of Wisconsin Extension. The detailed agenda follows in this newsletter.

Agenda for the conference and details on the industry show, as well as registration and lodging information can be found online:

http://wisconsinpotatoes.com/admin/wp-content/uploads/2017/01/AGENDA-2017-1.pdf

2017 UW Extension & WPVGA Grower Conference

Tuesday, February 7, 2017 Holiday Inn Hotel & Convention Center, Stevens Point WI

	Holiday Inn Hotel & Convention Center, Stevens Point WI					
Time	General Session - <i>Moderator T. Houlihan</i> Expo 1 and 2					
7:30 - 8:20	Registration					
8:20 - 8:30	Welcome and opening remarks - Tamas Houlihan, Executive Director, Wisconsin Potato and Vegetable Growers Association, Antigo, WI					
8:30 - 9:00	Water Resources in the Central Sands: Balancing Supply and Demands for Today and Tomorrow - Elizabeth Stapleton / Jim Drought, Hydrogeologist, GZA GeoEnvironmental, Inc., Waukesha, WI					
9:00 - 9:30	Towards developing potato varieties resistant to necrotic viruses - Walter DeJong , Professor, Cornell University, NY					
9:30 - 10:30	Morning Break - Visit Exhibit Hall/Poster Session					
10:30 - 11:00	Connections between geology and groundwater in the Central Sands of Wisconsin - David Hart, Program Leader, Hydrogeologist, Wisconsin Geological and Natural History Survey, Madison, WI					
11:00-11:30	Groundwater Issues in Wisconsin - Russ Rasmussen, Deputy Administrator, Division of Water, Wisconsin Department of Natural Resources, Madison, WI					
11:30-12:00	Frontiers in the remote sensing of agriculture - Phil Townsend, Professor, University of Wisconsin - Forest and Wildlife Ecology, Madison, WI					
12:00 - 1:15	Lunch: Legislative Update - (1) Ron Kuehn, DeWitt Ross & Stevens, (2) Feeding America Update					
Breakout Sessions	Expo 1 Water Quality Moderator - R. Groves	Expo 2 Water and Natural Resource Conservation Moderator - K. Schroeder	Sands/Spruce Soil Microbial Ecology and Plant Health Moderator K. Williams			
1:30 - 1:50	Russ Groves & Ben Bradford - Pesticide detections in central WI groundwater	Robert Smail - Water stewardship through targeted conservation planning	Jose Pablo Dundore - Managing soil microbiomes post-fumigation to enhance potato health and yields			
1:50 - 2:10	Chuck Bolte - Reducing phosphorus runoff on the Antigo flats	Mallika Nocco - Estimating crop ET at different spatiotemporal scales	Ann MacGuidwin - Life in the rhizosphere: the nematode perspective and implications for managing root health			
2:10 - 2:30	Stan Senger - Results summary of targeted well sampling	Paul Mitchell - Economic impact of irrigated agriculture in Wisconsin	Richard Lankau - Trade offs and synergies in microbially mediated functions for potato crops			
2:30 - 3:30	Afternoon Break - Visit Exhibit Hall/Poster Session					
Breakout Sessions	Expo 1 Nutrient Management Moderator- M. Ruark	Expo 2 Bringing Value to Agriculture Moderator - Associate Division	Sands/Spruce Variety Improvement Moderator- J. Endelman			
3:30 - 3:50	Judy Derricks - Nutrient management and other practices relating to soil health		Maria Caraza - Using image analysis to quantify skin set and color in red potatoes			
3:50 - 4:10	Matt Ruark - How nitrogen fertilizer recommendations for potato are made	WPVGA Associate Division - 5 min presentations featuring new technologies and approaches in agricultural management of potato and vegetable production systems.	Walter DeJong - What's new from the Cornell potato breeding program			
4:10 - 4:30	AJ Bussan - Comprehensive look at potato crop fertility		Jeff Endelman - Advanced selections from the UW potato breeding program			
4:30 - 8:00	Wisconsin Seed Potato Improvement Association and WPVGA Associate Division Reception					

2017 UW Extension & WPVGA Grower Conference Wednesday, February 8, 2017						
Holiday Inn Hotel & Convention Center, Stevens Point WI						
Time	General Session - <i>Moderator J. Wyman</i> Expo 1 and 2					
8:00 - 8:30	Potatoes USA - Ross Johnson, Global Marketing Manager					
8:30 - 9:00	Potatoes USA Industry Update - Blair Richardson, Chief Executive Officer, Potatoes USA					
9:00 - 9:30	Tracking Dickeya in North America - Gary Secor, Professor, North Dakota State University					
9:30 - 10:30	Morning Break - Visit Exhibit Hall/Poster Session					
10:30 - 11:00	Wetlands and water management in agricultural landscapes - Tracy Hames, Executive Director, Wisconsin Wetlands Association, Madison, WI					
11:00 - 11:30	Germplasm development for diploid potato breeding - David Douches, Professor, Michigan State University, East Lansing, MI					
11:30- 12:00	Overview and update of Wisconsin's high capacity well application process - Adam Freihoefer, Section Chief, Div of Environmental Management, Water Use Section Madison, WI					
12:00 - 1:15	Lunch - (1) John Keeling, NPC, and (2) Industry Appreciation Awards					
Breakout Sessions	Expo 1 Potato Disease Updates Moderator A. Gevens	Expo 2 Market Development and Food Safety Moderator D. Rady	Sands/Spruce Wisconsin Muck Meeting Moderator K. Williams			
1:30 - 2:00	Wisconsin Room: Madhu Jamallamudi, Agrometrics, "How to use and benefit from the new potato grade slip reports system."					
1:30 - 1:50	Amanda Gevens - Updates on late blight findings and management	Dana Rady & Deana Knuteson -Healthy Grown Program: updates for 2017	Lindsey J. du Toit, Washington State University - It takes two to tango: Management of Stemphylium leaf blight and downy mildew in the onion leaf blight complex.			
1:50 - 2:10	Brooke Babler - Dickeya diagnostics: examining conventional PCR tests	Paul Zedler - Conservation in agricultural landscapes				
2:10 - 2:30	Gary Secor - Seed handing and treatments for decay management	FSMA - Produce Safety and Preventive Controls	Sofia Macchiavelli-Giron - Silver scurf control with at-plant and seed-applied fungicides for control of potato diseases			
2:30 - 3:30	Afternoon Break - Visit Exhibit Hall/Poster Session					
Breakout Sessions	Expo 1 Disease Resistance Moderator K. Schroeder	Expo 2 Remote Sensing and Imaging Technologies Moderator P. Bethke	Sands/Spruce Wisconsin Muck Meeting Moderator K. Williams			
3:30-3:50	Dennis Halterman - Using new genetic tools to identify potato resistance genes	Shelley Jansky, Paul Bethke and Felix Navarro - Remote Sensing: tools of the trade. Remote Sensing: current and future applications. Remote Sensing - Panel Discussion: where do we go from here	Brian Nault, Cornell University - Onion insect pest management update			
3:50 - 4:10	Ana Cristina Fulladolsa-PVY resistance in North American potatoes					
4:10 - 4:30	David Douches - Progress in breeding for Late Blight, Scab and PVY resistance		Mike Copas - Re-designing research priorities in muck soil vegetable systems			
5:15 - 6:00	Social Hour					
6:00 - 10:00	WPVGA Associate Division Banquet					

2017 UW Extension & WPVGA Grower Conference

Thursday, February 9, 2017

Holiday Inn Hotel & Convention Center, Stevens Point WI

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Time	General Session - Moderator W. Stevenson Expo 1 and 2			
8:00 - 8:30	Jeff Endelman, UW Horticulture - Potato breeding and genetics			
8:30 - 9:00	Matt Ruark, UW Soil Science - Nitrogen use efficiency in the potato variety Goldrush			
9:00 - 9:30	Ann MacGuidwin, UW Plant Pathology - Predicting nematode "hot spots" within fields			
9:30 - 10:00	Alex Crockford, WCSP Director - Enhanced disease detection methods and certification			
10:00 - 10:15	Morning Break			
10:15 - 10:45	Russ Groves, UW Entomology - Evidence for delayed emergence in CPB - management implications			
10:45 - 11:15	Jed Colquhoun, UW Horticulture - Weed management and potato desiccation update			
11:15 - 11:45	Amanda Gevens, UW Plant Pathology - Unique early blight and brown spot pathogen ecology and management considerations			
11:45 - 12:15	Felix Navarro, UW ARS - Performance of new potato varieties under limited N and deficit irrigation			
12:15	Adjourn - and Thanks for your Attendance and Participation			
1:00	WPVGA Annual Meeting			