# Vegetable Crop Update

*A newsletter for commercial potato and vegetable growers prepared by the University of Wisconsin-Madison vegetable research and extension specialists*

**No. 29 – December 22, 2016**

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Update on special registration for Omega for WI potatoes
Agendas for upcoming winter education sessions

**Calendar of Events**

**January 10-12, 2017** – WI Agribusiness Classic, Madison, WI
**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

**Amanda J. Gevens, Associate Professor & Extension Vegetable Plant Pathologist, UW-Madison, Dept. of Plant Pathology, 608-890-3072 (office), Email: gevens@wisc.edu.**
**Veg Pathology Webpage: http://www.plantpath.wisc.edu/wivegdis/.**

**Update on Omega 500F 24(c) registration for management of powdery scab in Wisconsin potatoes:** The Wisconsin Department of Agriculture, Trade and Consumer Protection has reviewed and approved the 24(c) application for Omega 500F. The approved label is available online at https://datcp.wi.gov/Documents/SpecialUses.pdf

Omega 500F (fluazinam, ISK Biosciences/Syngenta) can be used in-furrow for management of potato powdery scab. The duration of the special registration is 11/16/2016 to 12/31/2020.

## 2017 Vegetable Conference Agendas and Information

**January 10-12, 2017:** Wisconsin Agri-business Classic (former Wisconsin Crop Management Conference), Alliant Energy Center, Madison, Wisconsin

Conference is coordinated by Wisconsin Agri-Business Association, University of Wisconsin Extension, and UW-College of Agriculture and Life Sciences.

Vegetable Crops Session is Thursday January 12, 2017 from 9AM to Noon in the Mendota I Room. Full meeting agenda can be found at: http://www.agclassic.org/program.html

**Vegetable Crops, Moderator: Scott Firlus, United Coop**

9:00-9:50AM: Vegetable Weed Management, Jed Colquhoun (UW-Madison)
Sustainability in US Specialty Crop Production, Paul Mitchell & Deana Knuteson (UW-Madison)
10:00-10:50AM: Nitrogen use efficiency in modern snap bean production systems, Matt Ruark (UW-Madison)
Vegetable disease update, Amanda Gevens (UW-Madison)
11:00-11:30AM: Neonicotinoid insecticides and IPM in processing vegetables, Russ Groves (UW-Madison)

Registration and other materials can be found online: http://www.agclassic.org/index.html

**January 22-24, 2017:** Wisconsin Fresh Fruit & Vegetable Growers Conference, Kalahari Conference Center, Wisconsin Dells, Wisconsin

Conference is coordinated by the Wisconsin Fresh Market Vegetable Growers Association, and University of Wisconsin Extension. For further information, please visit website or contact the Executive Director of the WFMVGA, Tiffany Chadwick, Phone: 608-235-5925, info@wisconsinfreshproduce.org or tiffany@chadwickconsultingllc.com

Vegetable Track is Monday and Tuesday January 23, 24, 2017. Registration information and other materials can be found at: http://eventmobi.com/wffvc2017/

**Monday, January 23, 2017**

**7:00AM** Conference Registration Opens

**7:00-8:30AM** Pre-purchased breakfast buffet

***Focus on Brassicas (cabbage, broccoli, kale, Brussels sprouts, etc.)***

**8:00-8:30AM** Dr. Amanda Gevens, UW-Plant Pathology – Managing blackrot in cabbage and other cole crops

**8:30-9:00AM** Dr. Russell Groves, UW-Entomology – Management of early season cabbage maggot and flea beetle in cole crops

**9:00-9:15AM** BREAK – Change Tracks as Needed

**9:15-9:45AM** Dr. Erin Silva, UW-Plant Pathology – Investigating the performance and diversity of kale and cucurbit varieties

***Focus on Weed and Irrigation Management in Vegetable Crops***

**9:45-10:15AM** Dr. Jed Colquhoun, UW-Horticulture – Mitigating and diagnosing herbicide injury on vegetable crops

**10:15-10:30AM** BREAK – Change Tracks as Needed – Trade Show Opens

**10:30-11:00AM** Dr. Ron Goldy, Senior Extension Educator, Michigan State University Extension – Managing vegetable health and fertility through irrigation strategy - Part I

**11:00-11:30AM** Dr. Ron Goldy, Senior Extension Educator, Michigan State University Extension – Managing vegetable health and fertility through irrigation strategy - Part II

**11:30-12:15PM** Annual Meeting

**12:15-1:00PM** Trade Show – LUNCH

**1:00-2:00PM** Trade Show

***Focus on Cucurbits (cucumber, melon, pumpkin, squash, etc.)***

**2:00-2:30PM** Dr. Mary Hausbeck, Michigan State Univ.– Managing Phytophthora crown and fruit rot in cucurbit crops, Part I

**2:30-3:00PM** Dr. Mary Hausbeck, Michigan State Univ. – Managing Phytophthora crown and fruit rot in cucurbit crops, Part II

**3:00-3:15PM** BREAK – Change Tracks as Needed

**3:15-3:45PM** Dr. Russell Groves, UW-Entomology – Predicting the arrival of striped cucumber beetle and squash vine borer

**3:45-4:15PM** Dr. Mary Hausbeck, Michigan State Univ. – Updates on cucurbit downy mildew in the Upper Midwestern region

**4:00-6:00PM** SOCIAL – Cash Bar in Trade Show

**Tuesday, January 24, 2017**

**7:00-8:30AM** Pre-purchased breakfast buffet

**7:30-12:00PM** Trade Show Open

***Focus on organic system approaches***

**8:00-8:30AM** Dr. Julie Dawson, UW-Horticulture – Updates from organic tomato variety trials for taste and quality

**8:30-9:00AM** Dr. Ruth Genger, UW-Plant Pathology – Organic potato variety update

| | |
|---|---|
| **9:00-9:15AM** | BREAK – Change Tracks as Needed |
| **9:15-9:45AM** | Dr. Amanda Gevens, UW-Plant Pathology – Updates on powdery mildew management in cucurbit crops |
| **9:45-10:15AM** | Mr. John Hendrickson, Grower & UW-Center for Integrated Agricultural Systems - Farm Financial Management Tools and Systems: Developing Routines and Making Record-keeping Purposeful |
| **10:15-10:30AM** | BREAK – Change Tracks as Needed – Trade Show Opens |
| ***Focus on biotechnology in agriculture*** | |
| **10:30-11:30AM** | Dr. Jeffrey Endelman, UW-Horticulture – Discussing Bioengineering and GMOs in the Marketplace |
| **11:30-12:00PM** | Grower discussion on GMOs and Bioengineering – panel |
| **12:00-1:00PM** | CONFERENCE ADJOURNS - Trade Show Closes |

**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/events/2017-grower-education-conference-industry-show/

# 2017 UW Extension & WPVGA Grower Conference

**Tuesday, February 7, 2017**

**Holiday Inn Hotel & Convention Center, Stevens Point WI**

| Time | General Session - *Moderator T. Houlihan*<br>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**<br>**Water Quality**<br>***Moderator - R. Groves*** | **Expo 2**<br>**Water and Natural Resource Conservation**<br>***Moderator - K. Schroeder*** | **Sands/Spruce**<br>**Soil Microbial Ecology and Plant Health**<br>***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 -** Eco-epidemiology of common scab infection |
| 2:30 - 3:30 | **Afternoon Break - Visit Exhibit Hall/Poster Session** | | |
| **Breakout Sessions** | **Expo 1**<br>**Nutrient Management**<br>***Moderator- M. Ruark*** | **Expo 2**<br>**Remote Sensing and Imaging Technologies**<br>***Moderator P. Bethke*** | **Sands/Spruce**<br>**Variety Improvement**<br>***Moderator- J. Endelman*** |
| 3:30 - 3:50 | **Judy Derricks -** Nutrient management and other practices relating to soil health | **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 | **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 | | **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 - *Moderator J. Wyman* Expo 1 and 2 | | |
|---|---|---|---|
| 8:00 - 8:30 | Potatoes USA - **Ross Johnson, Global Marketing Manager** | | |
| 8:30 - 9:00 | US Potato Board Industry Update - **Blair Richardson, Chief Executive Officer USPB** | | |
| 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 - 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** **Bringing Value to Agriculture** ***Moderator Assoc Division*** | **Sands/Spruce** **Wisconsin Muck Meeting** ***Moderator K. Williams*** |
| 3:30-3:50 | **Dennis Halterman -** Using new genetic tools to identify potato resistance genes | **WPVGA Associate Division -** 5 min presentations featuring new technologies and approaches in agricultural management of potato and vegetable production systems. | **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**

| Time | General Session - Moderator *W. Stevenson*<br>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** |