



# Dispersal Notes

September 2015 News flyer



## Department of Plant Pathology and Microbiology Iowa State University

### Announcements

Welcome all new members of the department this Fall! This is our monthly newsletter, which covers department news from the previous month. Please forward any content, questions or comments to the newsletter editor, Augustine Beeman ([aqbeeman@iastate.edu](mailto:aqbeeman@iastate.edu)).

### Calendar

September 8<sup>th</sup>: Seminar, Dr. Nadezhda Fursova, Head of the Antimicrobial Agents Laboratory, Department of Molecular Microbiology, The State Research Center for Applied Microbiology and Biotechnology, Obolensk, Russia, "Two branches of Klebsiella evolution: hyper-virulence and multi-drug resistance."

September 15<sup>th</sup>: Seminar, Dr. Chiliang Chen, postdoc in Beattie and Halverson labs, "Revealing bacterial and fungal microbiota associated with soybean roots".

September 22<sup>nd</sup>: Seminar, Dr. Lina Rodriguez Salamanca, ISU PIDC diagnostician, "Characterizing a new disease of celery".

September 29<sup>th</sup>: Seminar, Dr. Sam Markell, Department of Plant Pathology, North Dakota State University, "Developing management tools for sunflower rust".

### Awards and Honors

Thomas Baum was awarded the Noel T. Keen Award for excellence in molecular plant pathology at this year's APS meeting.

Greg Tylka was named a Fellow of APS at this year's APS meeting.

Augustine Beeman received the Harold "Sande" McNabb Travel Grant to attend the APS annual meeting.

### New People (say hello!)

Meina Li started as a postdoc in the department in Wei Wang's lab.

Courtney Bozman started as a Master's student in Gary Munkvold's lab.

Chelsea Harbach started as a PhD student in Greg Tylka's lab.

Muhammad Raza started as a PhD student in Drs. Nutter and Leandro's lab.

Lauren Washington started as a Master's student in Gary Munkvold's lab.

### Recent Publications

Byamukama, E., Robertson, A.E., Nutter, F.W. 2015. Bean pod mottle virus time of infection influences soybean yield, yield components and quality. *Plant Disease* 99: 1026-1032

### Stories

#### Graduate Organization hosts Dr. Axel Elling as speaker for departmental retreat

The Plant Pathology Graduate Student Organization held this year's retreat on August 28<sup>th</sup> at Story County Conservation Speaker. The invited speaker, Dr. Axel Elling (pictured), is an ISU alumnus who spoke at the retreat about his experience in academia and industry. Dr. Elling, who studied with Dr. Thomas Baum on molecular plant-nematode interactions, is currently the Team Nematology Lead at Bayer Crop Science, where he is in charge of all aspects of nematology research. Previously, he was an Assistant Professor at Washington State University, in the department of Plant Pathology. A number of department personnel were able to meet with him during his two day trip.



Dr. Axel Elling speaking to the department.

#### Alison Robertson and Daren Mueller host field day at FEEL for department members.

Drs. Alison Robertson and Daren Mueller hosted a field trip on August 11<sup>th</sup> for members of the department interested in getting a first hand look at diseases in both corn and soybean fields. The day included a disease ID quiz, disease ID scavenger hunt and a visit to a local farmer's field.



Field trip attendees in search of sick plants.

#### Roger Wise travels to Denmark and Germany to advance rust and mildew research

Roger Wise traveled to Denmark and Germany to advance rust research from July 2<sup>nd</sup>-12<sup>th</sup>. At Helsingoer, Denmark, Wise presented an invited talk at The International Cereal Rusts and Powdery Mildew Conference. His talk was entitled, "To sense or not-to-sense: Expression of Blumeria effector repertoires on barley loss-of-function mutant hosts". Additionally, he traveled to Gatersleben, Germany to meet will collaborator Dr. Patrick Schwizer and gave an Institute lecture. Wise and others used these meetings to facilitate the cutting edge research currently being done to manage cereal rusts and powdery mildews.

#### Plant and Insect Diagnostic Clinic featured on Des Moines news station

The Plant and Insect Diagnostic Clinic, (PIDC) was recently featured on the Des Moines TV station Channel 13 news. The piece, entitled, "ISU Clinic Acts as Emergency Room for Sick Plants", can be found at this link: <http://whotv.com/2015/07/28/isu-clinic-acts-as-emergency-room-for-sick-plants/>

### Snapshots



Thomas Baum (left) receiving his award for being named a fellow of the Society of Nematologists (SON), by Byron Adams (right), current president of SON, at the annual meeting of the society, held at Michigan State University in East Lansing, Michigan from July 19<sup>th</sup>-24<sup>th</sup>. Photo credit: Jon Eisenback, Virginia Tech Univ.



Greg Tylka (center) receiving his award for being named a fellow of The American Phytopathological Society (APS) by Rick Bennett (right), former president of APS and George Abawi (left), at the annual meeting of the society, held in Pasadena from August 1<sup>st</sup>-5<sup>th</sup>. Photo credit: APS.



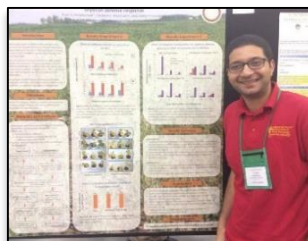
Yuba Kandel taking disease notes in his soybean research plots.



Lina Rodriguez Salamanca (left), Laura Jesse (center) and Catie Irwin (right) representing The Plant and Insect Diagnostic Clinic at the Iowa State Fair. They fielded questions, educated people about clinic services and held a Facebook photo contest.



Department members on the August 11st field day, examining sick plants for a plant ID quiz.



Noor Abdelsamad presenting his research at the annual APS meeting in Pasadena, CA.



Department members playing a trivia game at the departmental retreat on August 28<sup>th</sup>.



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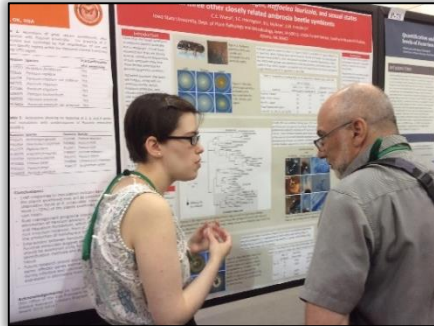


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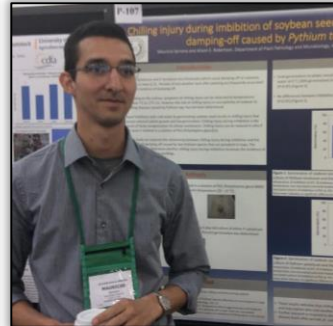
## Snapshots (continued)



Departmental heroes Stith Wiggs (left) and Yuba Kandel (right), cooking burgers and brats for the departmental retreat.



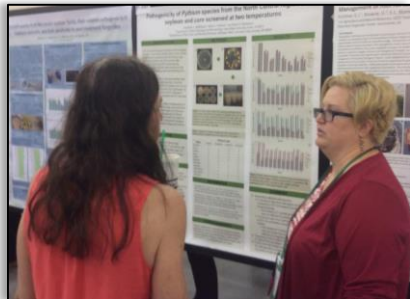
Caroline Wuest presenting her research at the annual APS meeting during in Pasadena, CA.



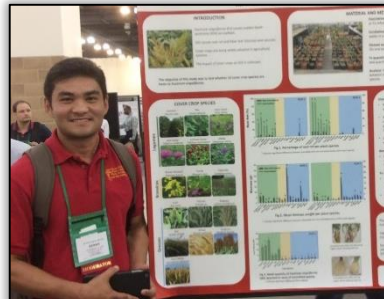
Mauricio Serrano-Porras presenting his research at the annual APS meeting in Pasadena, CA.



Sally Mallowa presenting her research at the annual APS meeting in Pasadena, CA.



Rashelle Matthiesen (right) presenting her research at the annual APS meeting in Pasadena, CA.



Renan Kobayashi-Leonel presenting his research at the annual APS meeting in Pasadena, CA.

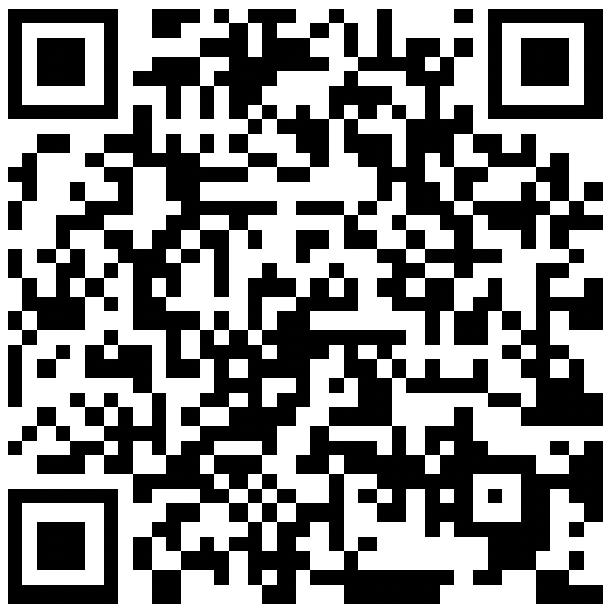


Lauren Washington (left) and Courtney Bozman (right), new graduate students in Gary Munkvold's lab, being introduced at the welcome reception seminar on August 25<sup>th</sup>.



Daniel Sjarpe, a new graduate student in Daren Mueller's lab, being introduced at the welcome reception seminar on August 25<sup>th</sup>.

## CHECK OUT OUR WEBSITE!



Use this QR code or go to [www.plantpath.iastate.edu](http://www.plantpath.iastate.edu)

## Diagnose it!

Prepared by: Ed Zaworski

The answer to last month's game was Goss' Wilt. The key symptoms of Goss's wilt are the necrotic tissue usually occurring on the leaf tips and along the outside edge. Goss's wilt also has a characteristic dark freckling in the lesion and a shiny and/or sticky surface. Bacterial streaming is the key to distinguishing Goss's wilt from northern corn leaf blight and confirmation can be done easily using an immunostrip assay.

Congratulations to last month's winner, Xavier Phillips. His prize was 5 lbs of potatoes, grown with care by the newsletter editor and his wife.

Host: Garlic

Observed symptoms: Appeared late in the season. The affected tissue is water soaked and has become necrotic. Additionally, sclerotia were found in the neck of the garlic.

Key Hint: Under humid conditions, grey felt-like growth appears.

Please send the answer to [aqbeeman@iastate.edu](mailto:aqbeeman@iastate.edu), with the subject line "Diagnosis!"

