

2022 APS North Central Division Meeting Schedule

Tuesday, June 21

Registration open 8:00-6:00 (Douglas Room)

- **9:00 – 12:30 p.m.--Careers 101 panel (Morrill and Thomas Rooms combined)**
 - Interviews are a critical step in the hiring process, but there are tips and tricks to ensure a successful interview. This workshop will provide students and early career professionals with an overview of the process and guidelines for preparing for job interviews in academia, government, and industry. The workshop includes an interactive mock interview session using common interview questions and a panel of experts from industry and academia. Lunch is provided by our industry sponsors.
- **1:00 – 4:00 p.m.--Challenges and Opportunities in Plant Health Education: Building Sustainable Teaching Networks (*Pre-registration required*) (Merlin Room)**
 - The goal of this workshop is to start building a common framework for plant pathology education based on themes that are currently taught and any gaps that are identified, and to start formulating a plan for developing and sharing curriculum resources.
- **1:00 – 5:00 p.m.--Microscopic Adventures: A Hands-on Dive into the Nematode Species of the Corn/Soybean Soil Community (*Pre-registration required*) – UNL Campus**
 - This 3-hour workshop will provide an opportunity to explore the plant-parasitic nematodes and other commonly encountered trophic groups in the soils of the Great Plains. The workshop will feature a field guide and other aids to sort through the murky depths of nematode diversity
 - *Transportation will be provided from Graduate to UNL East Campus*
- **1:00 – 2:30 p.m.—Introduction to Python for Plant Pathologists (*Pre-registration required*) (Carson Room)**
 - The introduction to Python for Plant Pathologists workshop will cover basic Python syntax, reading in and working with data, troubleshooting strategies, and important libraries for working with biological data. This workshop will demonstrate tools and strategies attendees can apply to their own research and data analysis. Practice examples will be given as well as time to play around with Python on your own. Please bring your computer along.
- **3:00 – 4:30 p.m.--Introduction to R for Plant Pathologists (*Pre-registration required*) (Carson Room)**
 - The Introduction to R for Plant Pathologists workshop will cover data structures in R, working with tabular data, installing packages, troubleshooting, and important R libraries for visualizing and manipulating data. Attendees will develop a strong foundation in R that can be used for handling their own biological data. Practice examples will be given as well as time to use the program on your own. Please bring your computer along.
- **5:30 p.m.--Welcome Reception (Ardis Ballroom)**
 - Heavy hors d'oeuvres and drink tickets provided
- **7:30 p.m.--Graduate Student Social – (Boiler Brewing Company)**

Wednesday, June 22

Registration open 7:30-5:00 (Douglas Room)

- **8:00—8:20 Welcome, Webinar Symposium Review, and Day Overview (Ardis Ballroom)**
- **8:20-10:00 Student Presentations (Moderator: Deanna Funnell-Harris)**
 - **8:24 – 8:36** Evaluation of the *Stenocarpella* sp. population causing Diplodia ear rot on corn in Kentucky. **N. Anderson**, K. Wise; University of Kentucky
 - **8:36 – 8:48** High Resolution Melting (HRM) based marker development for wheat leaf rust resistance gene *Lr34*. **S. Kaur**, T. Pennington, E. Conley, A. Green, J. Kolmer, J. Anderson, U. Gill; North Dakota State University
 - **8:48 – 9:00** Determinants of Virus Variation, Evolution, and Host Adaptation. **K. LaTourrette**, H. Garcia-Ruiz; University of Nebraska-Lincoln
 - **9:00 – 9:12** Management of frogeye leaf spot and target spot in soybeans. **E. Zuchelli**, H. Kelly; University of Tennessee
 - **9:12 – 9:24** Effect of incubation temperature on severity of Sclerotinia leaf blight of sugar beet. **M. Z. R. Bhuiyan**, L. E. del Rio Mendoza, D. K. Lakshman, A. Qi, M. F. R. Khan; North Dakota State University
 - **9:24 – 9:36** The *Magnaporthe oryzae* serine/threonine protein kinase Rim15 controls autophagy-dependent TOR reactivation to drive fungal growth in living rice cells. **N. Dulal**, R. Wilson, R. Rocha, Z. Gong, G. Li; University of Nebraska-Lincoln
 - **9:36 – 9:48** Assessment of hard squash cultivars for resistance to crown rot caused by *Phytophthora capsici* and sugar content. **D. Perla**, M. Hausbeck, Z. Hayden; Michigan State University
 - **9:48 – 10:00** Sensitivity of *Diaporthe aspalathi*, *D. caulivora* and *D. longicolla* causing soybean disease to Azoxystrobin fungicide. **B. M. Sureshbabu**, K. Mohan, B. Kontz, T. Allen, G. C. Bergstrom, K. Bissonnette, C. Bradley, J. Buck, M. Chilvers, H. Kelly, N. Kleczewski, A. Koehler, D. Malvick, S. Markell, D. Mueller, D. Smith, S. Subramanian, D. E. P. Telenko, K. Wise, F. Matthew; South Dakota State University
- **10:00--10:30 Break**
- **10:30-12:00 Student Presentations (Moderator: Deanna Funnell-Harris)**
 - **10:36 – 10:48** Ascochyta blight in North Dakota field pea: the pathogen complex and its fungicide sensitivity. **D. Fonseka**, J. Pasche, S. Markell, M. Ebert; North Dakota State University
 - **10:48 – 11:00** Expression of dual antimicrobial peptides in wheat through wheat streak mosaic virus enhanced antimicrobial activity against BLS disease of wheat. **S. Pal**, S. Tatineni, S. Wegulo, D. Funnell-Harris; University of Nebraska-Lincoln
 - **11:00 – 11:12** Foliar fungicide use for soybean disease management across crop reporting districts in Nebraska. **A. Mane**, T. Jackson-Ziems, S. Everhart; University of Nebraska-Lincoln
 - **11:12 – 11:24** Aggressiveness of *Xanthomonas translucens* pv. *undulosa* Isolates and Differential Reaction Among Spring Wheat Varieties in Controlled Environment. **A. Hangamaisho**, E. Byamukama, D. Yabwalo, S. Ali, B. Bleakley; South Dakota State University

- **11:24 – 11:36** Using weather conditions to time fungicide application intervals for control of *Pseudoperonospora cubensis* on cucumber. **M. Uebbing**, M. Hausbeck; Michigan State University
- **11:36 – 11:48** Evaluating the Effects of the Biological Control, Afla-Guard, on Mycotoxins in Bt and Non-Bt Corn Hybrids. **A. McLaughlin**, H. Kelly; University of Tennessee
- **11:48 – 12:00** Determination of Soybean Cyst Nematode (SCN) Virulence Phenotypes in Indiana. **R. Critchfield**, L. Zhang; Purdue University
- **12:00-1:00 Lunch (Douglas Room)**
- **1:00-2:15 Student Presentations (Moderator: Hernan Garcia-Ruiz)**
 - **1:00 – 1:12** Multilocus sequence typing and phylogenetic analysis of *Xanthomonas translucens* strains causing bacterial leaf streak in wheat and barley. **I. Bankole**, Z. Liu, V. Chapara, R. Curland, E. Hong; North Dakota State University
 - **1:12 – 1:24** Performance and Profitability of Fungicides for Managing Frogeye Leaf Spot on Soybean in the United States: a Meta-analysis. **J. Barro**, E. M. Del Ponte, T. Allen, J. Bond, T. Faske, C. Hollier, Y. Kandel, D. Mueller, H. Kelly, N. Keczewski, P. Price, E. Sikora, C. Bradley; University of Kentucky
 - **1:24 – 1:36** Evaluation of ergot resistance in hard red spring wheat varieties in North Dakota. **L. Lux**, A. Friskop, B. Hansen, J. Halvorson; North Dakota State University
 - **1:36 – 1:48** Resistance to Azoxystrobin (QoI) Fungicide in *Diaporthe* species from Sunflower (*Helianthus annuus*) in the Northern Great Plains. **K. Mohan**, N. Braun, R. Harveson, S. Markell, F. Matthew, H. M. Rekabdarkolaee; South Dakota State University
 - **1:48 – 2:00** COVER CROP IMPLICATIONS ON THE SOIL FAUNAL COMMUNITY. **S. Pate**, H. Kelly, L. Schumacher ; University of Tennessee
 - **2:00 – 2:12** Modification of phenylpropanoid pathway can improve resistance to Fusarium head blight of wheat. **S. Singla**, D. Funnell-Harris, Z. Duray, S. Wegulo, S. Sattler, L. Bernhardson, P. O'Neill, R. Dill-Macky; University of Nebraska-Lincoln
- **2:15-2:45 Postdoc Presentations (Moderator: Hernan Garcia-Ruiz)**
 - **2:15 – 2:30** Nematode-protectant Seed Treatment Effects on Soybean Cyst Nematode Populations in the Field and in the Greenhouse: A Multi-state Study. **J. De Oliveira Barizon**, A. Tenuta, T. Jackson-Ziems, E. Adee, D. Telenko, C. Harbach, K. Bissonnette, D. Smith; University of Missouri
 - **2:30 – 2:45** *Macrophomina phaseolina* microsclerotial density pathogenicity on soybean and soybean variety influence on charcoal rot. **R. Akinrinlola**, H. Kelly, A. Mengistu; University of Tennessee Knoxville
- **2:45-3:00 – Break**
- **3:00-4:00 – Posters – Authors present at odd number posters (Perkins Room)**
- **4:00-5:00 – Posters – Authors present at even number posters (Perkins Room)**
- **6:30 -10:00—Banquet—Bar to open at 6:30 and dinner to begin at 7:00 (Ardis Ballroom)**

Thursday, June 24

- **9:00 – 10:30 a.m.—Business meetings (Carson Room)**