

HLA HAPPENINGS

Issue 23-03 / January 20, 2023

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CALE BIGELOW RECEIVES THE WILLIAM DANIEL AWARD FROM THE SPORTS FIELD MANAGEMENT ASSOCIATION

Congratulations to **Cale Bigelow** for receiving the William Daniel Award on January 19 at the Sports Field Management Association (SFMA) Conference. Named for one of the four founders of SFMA, Dr. William Daniel set the pattern for educator/researcher involvement in SFMA. The partnership between educators and researchers and the sports turf managers who incorporate these advances in on-the-field applications is key to the progress of the industry. The Daniel Award recognizes an individual who has made significant contributions to the industry through research, teaching or extension.

ASHLEY ADAIR PRESENTED FOR WABASH COUNTY EXTENSION'S HOT TOPICS SERIES

Ashley Adair presented "Organic Gardening and Composting" for the Wabash County Extension Hot Topics Series on January 19, 2023. Extension educators Geoff Schortgen, Courtney Schmidt, and Krista Pullen have done a great job promoting this series. Over 100 participants joined the Zoom call with lots of great discussion.

HLA GRADUATE STUDENTS GAME NIGHT



On Wednesdays, the HLA Grad Students gather together to play board games at 5:30 pm. Everyone is invited to join.

KYLE DANIEL TO SPEAK AT INDIANA ARBORIST ASSOCIATION ANNUAL CONFERENCE

Kyle Daniel will be speaking at the Indiana Arborist Association Annual Conference on January 26th.

DR. RYAN PATRICK RECEIVED TRAVEL AWARD

Dr. Ryan Patrick (Postdoc/Li Lab) has received the Center for Plant Biology travel award (\$1000) and he plans to attend the World Petunia Day in Italy in summer 2023, where he will present his NSF funded work on epigenetic regulations of specialized metabolism and collaborate on the petunia genome sequencing project.

CAMILA ULLOA WILL PRESENT VIRTUAL SEMINAR

Camila Ulloa (MS/Torres Lab) will give a virtual seminar at the Iowa State University's Horticulture Department on Jan 23rd from 4:15 – 5:15 PM (Central Time). She will present "Characterizing the U.S. Salad Mixes Market: Environmental footprint attributes". These seminars are primarily attended by faculty and students but are open to the public and Master Gardener groups as well.

2023 HLA SPRING SEMINAR: DR. KURT RISTROPH



- Dr. Kurt Ristroph, Ph.D.
- Assistant Professor Agricultural and Biological Engineering, Purdue University
- Thursday January 26th, at 3:30pm, HORT 117 or Zoom
- "Organic nanocarrier formulations for improved uptake and translocation of agrochemicals following foliar administration"

Abstract:

Foliar administration of bioactive agents to plants is a highly desirable but historically inefficient method of promoting agrochemical internalization or trafficking to specific tissues. Many agrochemicals, when applied foliarly in the form of an aqueous dispersion, are poorly internalized into leaves and do not transit efficiently to other organs. Technology to improve agrochemical uptake and systemic distribution to vasculature, roots, or combinations of these is therefore highly desirable in the development of next-generation fertilizers, fungicides, pesticides, and other bioactives.

This talk will focus on my group's work adapting Flash NanoPrecipitation (FNP), a demonstrated pharmaceutical nanocarrier formulation technique, to encapsulate agrochemicals into organic nanocarriers for improved administration. We prepared a suite of nanocarriers spanning a range of sizes and surface chemistries and with a model agrochemical core 'payload,' then studied their uptake and translocation in 4-week old tomato plants. Internalization efficiencies up to 85% and translocation efficiencies up to 32% were observed, including significant nanocarrier trafficking to stem and roots that suggests a high degree of phloem loading. Our results shed light on the optimal properties of organic core-shell nanocarriers for foliar delivery and take steps toward adapting an industrially-viable large-scale pharmaceutical nanoformulation process to applications in agriculture and plant health.

SOUTHWEST INDIANA MELON AND VEGETABLE GROWERS ANNUAL MEETING

The Southwest Indiana Melon and Vegetable Growers Annual Meeting was held on Jan 20, 2023, in French Lick. The meeting is in conjunction with Illiana Watermelon Association Convention and attracts melon growers in southern Indiana and industry representatives across the country. **Steve Meyers** and the team presented Melon Weed Science Research Update at the meeting.

HLA BOWLING TEAM THIS WEEK

Our team **Split Happens** played against The Purdues Monday afternoon at Mike Aulby's Arrowhead Bowl for Week 18 of the Purdue Staff and Students league. We won all 8 points, placing our team in 6th place.

In the Women's Category, **Alexandra Jewell** placed 1st scratch game scoring a 217 and scratch series scoring a 543. She also placed 2nd with handicap game scoring a 270 and handicap series scoring a 702.

Ashley Adair tied for 9th with handicap series scoring a 660.

In the Men's Category, **Chris Adair** placed 1st with scratch game scoring a 223, placed 2nd with scratch series scoring a 550, placed 1st with handicap game scoring a 289, and placed 2nd with handicap series scoring a 748.

Robert Luecke placed 8th with handicap game scoring a 245 and placed 6th with handicap series scoring a 704.

SAVE THE DATE: INDIANA HORT CONFERENCE 2023



Newsletters

- Facts for Fancy Fruits: <https://fff.hort.purdue.edu/>
- Vegetable Crops Hotline: <https://vegcropshotline.org/>
- Purdue Landscape Report: <https://www.purduelandscape.com/>
- Greenhouse and Indoor Production of Speciality Crops: <https://mdc.itap.purdue.edu/newsearch.asp?subCatID=425%20&CatID=10>

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