

ASHS 2023

Orlando 

July 31 - August 4 • Caribe Royale Resort

## 2023 ASHS ANNUAL CONFERENCE AT-A-GLANCE



American Society for Horticultural Science

1018 Duke Street

Alexandria, VA 22314

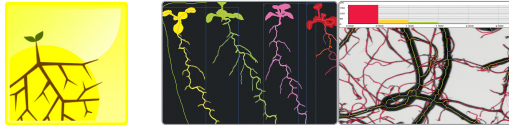
[ashs@ashs.org](mailto:ashs@ashs.org)

[ASHS.org](http://ASHS.org)

# High Performance Image Analysis Tools for Plant and Forest Sciences

## WinRHIZO™

Washed Roots and Arabidopsis Seedlings



## WinRHIZO™ Tron

Roots in the Minirhizotron Images



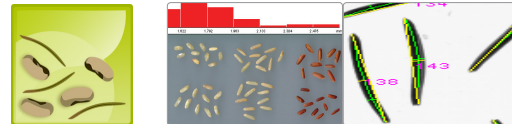
## WinFOLIA™

Leaf Area and Morphology



## WinSEEDLE™

Seed and Needle Morphology and Count



## WinSCANOPY™

Canopy Structure and Solar Radiation



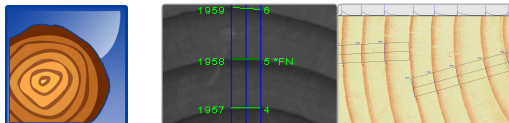
## WinCAM NDVI™

Color Area, NDVI and Basic Morphology



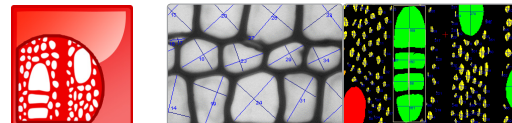
## WinDENDRO™

Tree Rings and Wood Density



## WinCELL™

Wood-Cell Structure Parameters



## 5 Good Reasons for Choosing our Products

1

### Perpetual Software Licences

- No need to budget licence renewals each year
- Use our products as long as you wish
- No activation and no internet connection required
- 32-bit and 64-bit versions included with each licence

2

### Software updated regularly

- Stay up to date with new features at low cost
- Increase precision and speed of analysis
- Update or upgrade software programs anytime even for old licences bought in 2000

3

### Free Technical Support

- Prompt since 1991
- Available via email
- Provided by our competent software engineers

4

### High Quality Hardware

- Optical scanners calibrated by our technicians for accurate scientific measurements
- Special lighting system for thick samples, e.g. roots, seeds, needles
- Positioning systems with trays and wood core holders for easy and rapid scanning of samples
- Blue reflectance target for wood density analysis
- Several software can share the same calibrated scanner and accessories
- Self-leveling mount with compact DSLR camera and calibrated fisheye lens for canopy analysis

5

### New Advantageous Discounts

- The more software programs you buy, the bigger the discount



[www.regentinstruments.com](http://www.regentinstruments.com)

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# 2023 ASHS Annual Conference

July 31-August 4 • Orlando, Florida

## General Information

**Conference Facilities:** all conference activities will take place at the Caribe Royale Resort, unless otherwise stated. Please check the conference app for the most up-to-date program details.

**Registration:** The conference registration desk is located at Caribbean Registration Counter East. Operation hours are:

Monday	12:00 pm – 6:00 pm
Tuesday-Thursday	7:30 am – 6:00 pm
Friday	7:30 am – 2:00 pm

## ASHS 2023 Mobile App:

The mobile app is available to view the entire ASHS Conference program in the Google Play and Apple Store. Search for ASHS 2023.

**Welcome Reception:** Monday July 31, 6:00 – 7:00 PM Caribbean III/IV/V; Badge or ticket required.

**Conference Central Hours:** Located in Caribbean III/IV/V, it houses the Career Center, Collaboration Center, Hort Theater, Exhibitors, Grab-and-Go-Lunch, Resume Reviews, Awards Gallery, Member Services and Coffee Breaks.

Tuesday	10:00 am – 5:00 pm
Wednesday-Thursday	8:00 am – 5:00 pm
Friday	8:00 am – 2:00 pm

**ASHS Café/Grab and Go Lunch:** Grab and go lunches will be available for sale in Conference Central, Tuesday through Friday, from 11:00 am – 2:00 pm

**Exhibits:** Exhibitors are located in Conference Central.

Tuesday	10:00 am – 2:00 pm
Wednesday-Friday	8:00 am – 2:00 pm

## Moderator Training Sessions:

Monday	5:15 pm – 6:00 pm	Caribbean II
Tuesday	8:00 am – 8:45 am	Caribbean VII

**Speaker Ready Room:** The Speaker Ready Room is located in Hibiscus.

Monday	12:00 pm – 6:00 pm
Tuesday-Thursday	7:00 am – 6:00 pm
Friday	7:00 am – 2:30 pm

**Tour Departures:** All Tours Depart from Convention Center Porte Cochere (Caribe Royale Orlando)

## Presidential Address and ASHS Annual Business Meeting:

Friday, August 4th, 9:00 am – 10:30 am in Caribbean I & II

## Pre-Conference Meetings:

Monday, July 31:

**ASHS Leadership Class II – Final Meeting; 8AM-12PM; Boca V**

**NE 1836 – NE2236; 8AM-5PM; Regents Boardroom**

**NE1835: Resource Optimization in Controlled Environment Agriculture; 9AM-3:30PM; Boca I**

**ASHS Leadership Class III – Initial Meeting; 1PM-5PM; Boca V**

## Pre-Conference Career Events:

Monday, July 31:

**Student Welcome: Conference Overview Session - For Graduate and Undergraduate Students; 12PM-12:45 PM; Caribbean II**

**Innovation in Horticulture: A Career and Professional Development Forum; 12:45-4:30; Caribbean II**

**Career and Graduate School Fair; 4:30-5:30pm; Caribbean I**

## Resume Review Hours:

Tuesday	11:00 am – 1:00 pm 2:00 pm – 4:00 pm
Wednesday- Thursday	10:00 am – 12:00 pm 2:00 pm – 4:00 pm
Friday	10:00 am – 12:00 pm



Sign up using the QR code above. Questions? See Angie Lower at the Career Center

**The ASHS Collaboration Center** will have a dedicated space at the conference where you can meet potential partners in person and begin planning your project. Sessions for specific topics have also been scheduled in Conference Central, Caribbean III/IV/V:

- Greenhouse and Controlled Environment Technologies  
Tuesday 12:30 pm – 1:30 pm
- Molecular Breeding, Biotechnology, and Phenotyping  
Tuesday, 2:00 pm – 3:00 pm
- Microbiome, Soil, and Substrates  
Wednesday, 1:00 pm–2:00 pm
- Emerging Technologies and Data Management  
Wednesday, 3:00 pm – 4:00 pm
- Consumer Horticulture and Marketing  
Thursday, 10:00 am–11:00 am
- Abiotic, Biotic and Bio Interaction  
Thursday, 12:00 pm – 1:00 pm

## ASHS Plants, People, Science Podcast Discussion:

Speakers: Lara J. Brindisi, Rutgers University and Curt R Rom, University of Arkansas – Tuesday, 3:15 PM - 3:45 PM, Hort Theater, Conference Central, Caribbean III/IV/V

**Certified Crop Advisors:** Sign-up Sheets for Workshop CEUs located at the Career Center in Conference Central

# Tuesday

\* Schedule is subject to change

8:00 am	9:00 am	10:00 am	11:00 am	12:00	1:00 pm	2:00 pm	3:00 pm	4:00 pm	5:00 pm	6:00 pm
Vegetable Breeding I <i>Caribbean VI</i>	Plenary & Awards <i>Caribbean I&amp;II</i>	Keynote: Tal Coley, FNGLA <i>Caribbean I&amp;II</i>	Industry VP Meet&Greet Collaboration Center	Administrators Luncheon <i>Antigua I &amp; II</i>	Fellows Screening Committee <i>Antigua 4</i>	Research VP Meet & Greet Collaboration Center	Opening Dinner & Tour: Amerigo Farms 4PM – 8 PM Buses leave from the Convention Center Porte Cochere			
Viticulture & Small Fruits Meeting <i>Antigua 3</i>	Meet the 2023 Award Recipients <i>Hort Theater</i>		Meet the 2023 Award Recipients <i>Hort Theater</i>	Plant Growth Regulation <i>Boca VI</i>	Technology Applics. in Horticulture 1 <i>Boca V</i>	Vegetable Crops Management 1 <i>Boca VII</i>				
	Viticulture & Small Fruits I <i>Boca VI</i>		Viticulture & Small Fruits I <i>Boca VI</i>	Greenhouse & Controlled Env. Technologies <i>Collab. Ctr.</i>	Growth Chambers & Controlled Env. 1 <i>Boca III</i>	Invasive Plants Research (INPR) Bus. Meeting <i>Antigua 3</i>				
	Nursery Crops 1 <i>Caribbean VI</i>		Nursery Crops 1 <i>Caribbean VI</i>	Produce Qual, Safety & Health Props. <i>Boca III</i>	Vegetable Breeding 1 <i>Boca VII</i>	Fruit Breeding 1 <i>Boca II</i>				
	Southern Region-ASHS Exec Committee Mtg <i>Antigua 4</i>		Southern Region-ASHS Exec Committee Mtg <i>Antigua 4</i>	Finance Committee Meeting <i>Antigua 4</i>	Molecular Breed. Biotechnology & Phenotyping <i>Collaboratn. Ctr.</i>	Viticulture & Small Fruits 1 <i>Boca IV</i>				
	Weed Control & Pest Management 1 <i>Boca VIII</i>		Weed Control & Pest Management 1 <i>Boca VIII</i>	Citrus Crops 1 <i>Boca I</i>	Teaching Methods Bus.Mtg. <i>Boca VI</i>	Plant Biotechnology 1 <i>Boca V</i>				
	Root and Rhizosphere Dynamics and Plant Phenotype Responses to Biosimulants in Controlled and Natural Conditions <i>Caribbean VII</i>		Root and Rhizosphere Dynamics and Plant Phenotype Responses to Biosimulants in Controlled and Natural Conditions <i>Caribbean VII</i>	Vegetable Crops Management 1 <i>Boca VIII</i>	Water Utilization & Management 1 <i>Boca I</i>					
	Citrus Crops 1 <i>Boca III</i>		Citrus Crops 1 <i>Boca III</i>	Postharvest 1 <i>Boca IV</i>	Hemp Research & Extension <i>Boca VIII</i>					
	Plant Nutrient Mgmt. <i>Boca IV</i>		Plant Nutrient Mgmt. <i>Boca IV</i>	Floriculture 1 <i>Boca II</i>	Tropical Hort. Crops 1 <i>Boca VI</i>					
	Growth Chambers & Contr. Env. 1 <i>Boca I</i>		Growth Chambers & Contr. Env. 1 <i>Boca I</i>	Organic Horticulture 1 <i>Caribbean VII</i>	Marketing & Economics 1 <i>Boca III</i>					
	Postharvest 1 <i>Boca V</i>		Postharvest 1 <i>Boca V</i>	Proactive and Reactive Control Strategies to Combat Invasive Species in the U.S. <i>Caribbean VI</i>	The Past, Present & Future of Horticulture Consulting <i>Caribbean VI</i>					
	Genetics & Germplasm <i>Boca II</i>		Genetics & Germplasm <i>Boca II</i>	Student Farms - Teaching Practical Skills and Integrating Teaching and Research <i>Boca VI</i>						
	Pomology 1 <i>Boca VII</i>		Pomology 1 <i>Boca VII</i>							

### Color Key

- Competitions
- General (Registration, Speaker Center etc)
- Hort Theater & Collaboration Center
- Innovation in Horticulture: A Career and Professional Development Forum
- Interactive Workshops
- Interest Group Special Topic Sessions
- Keynotes and Featured Sessions
- Meetings (Committees, Advisory Council etc)
- Oral Sessions
- Poster Sessions
- Tours and Social Events

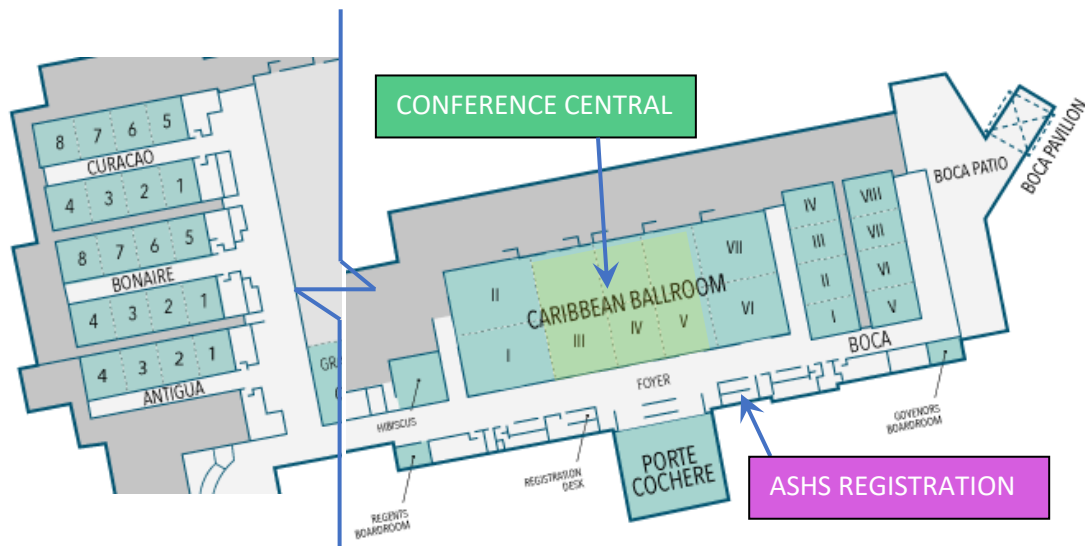




# Friday

7:00 am	8:00 am	9:00 am	10:00 am	11:00	12:00 pm	1:00 pm	2:00 pm	3:00 pm	4:00 pm	5:00 pm
	Citrus Crops 2 <i>Boca VIII</i>	Presidential Address & ASHS Annual Business Meeting <i>Caribbean I&amp;II</i>	Keynote: Jamie Ellis <i>Carib. I&amp;II</i>		Vegetable Breeding 4 <i>Boca VIII</i>	Herbs, Spices, & Medicinal Plants 2: Bioenergy and Co-Products: Hort Industry <i>Boca VI</i>				
	GrowthChamb. & Controlled Environ. 2 <i>Boca I</i>		PI Alpha Xi Photo Contest Results <i>Hort Theater</i>		Hemp Research & Extension 3 <i>Caribbean VI</i>	Pomology 3/History of Horticultural Science <i>Boca VII</i>				
	Human Issues in Horticulture <i>Boca II</i>			Growth Chambers & Controlled Environments 7 <i>Boca I</i>	Ornamentals/Landsc.&Turf <i>Boca V</i>	Genetics & Germplasm <i>Boca II</i>				
	Ornamental Plant Breeding <i>Boca V</i>			Water Utilization and Mgmt <i>Carib. VI</i>	Vegetable Crops Management 2 <i>Boca III</i>	Water Utilization and Management 4 <i>Caribbean VI</i>				
	Plant Growth Regulation <i>Boca VI</i>			Ecological Physiology <i>Boca III</i>	Comm/Consumer/Master Gardener/ Human Issues in Hort. <i>Boca IV</i>	Vegetable Crops Management 4 <i>Boca I</i>				
	Pomology 2: Tropical Horticult. Crops <i>Caribbean VI</i>			Organic Hort/ Nursery Crops/ Orchid <i>Boca II</i>	Public Hort; Teaching/Methods Administrators <i>Boca VII</i>					
	Vegetable Breeding 2 <i>Boca III</i>			Weed Control/ Pest Mgmt. 2 <i>Boca V</i>	Technology Applications in Horticulture <i>Boca II</i>					
	Viticulture & Small Fruits 2 <i>Boca IV</i>			Plant Biotechnology/ Horticultural Plant Reproductive Biology <i>Boca IV</i>	Fruit Breeding 3 <i>Boca I</i>					
	Weed Control and Pest Management 3 <i>Boca VI</i>			Temperate Tree Nut Crops 1 <i>Boca VII</i>		Tropical & Subtropical Horticulture Industry in the US: Challenges & Emerging Solutions <i>Caribbean VII</i>				
				Plant Nutrient Management 3 <i>Boca VI</i>		Growth Chambers & Controlled Environmts 8 <i>Boca V</i>				
				Citrus Crops 4 <i>Caribbean VII</i>		Local Food Systems 2 International Horticultural Issues & Networking 2 <i>Boca III</i>				
				Propagation <i>Boca VIII</i>		Technology Applications in Horticulture 2 <i>Boca IV</i>				
						Viticulture and Small Fruits 4 <i>Boca VIII</i>				

## ASHS CONFERENCE SITE MAP



**Thursday, August 3** ✨  
**6pm- 7:30pm**  
**Trivia Night and Student Awards Night!**  
**Caribbean I&II** ✨

FUN! PRIZES!

**Conference Games three ways:**  
 (See Member Services for details)

- 1 Find an ASHS 2023 sticker
- 2 Be the first to post 10 photos on our Google Photo Page
- 3 Play the Online Game in the ASHS 2023 App

**Wellness Station:** Complimentary Seated Massage  
 First-Come, First-Served.

Tuesday	11:00 AM – 4:00 PM
Wednesday	10:00 AM – 4:00 PM
Thursday	10:00 AM – 4:00 PM
Friday	10:00 AM – 1:00 PM

**Meet the VPs:** All attendees are invited to meet the division VPs, Member-at-Large, and Interest Group Officers to discuss your ideas and any concerns about ASHS in Caribbean III/IV/V – Collaboration Center.

- Industry Meeting – Tuesday, 11:00 am - 12:00 pm
- Research Meeting – Tuesday, 3:00 – 4:00 pm
- Education Meeting – Wednesday, 9:00 am - 10:00 am
- International Meeting - Thursday, 9:00am – 10:00 am
- Member-at-Large – Thursday, 1:00 – 2:00 pm
- Extension Meeting - Thursday, 2:00 pm – 3:00 pm

**ASHS 2023 Career Center: Is your organization hiring? Are you offering onsite interviews? Visit the Career Center for more information.**

### Hort Theater Highlights Tuesday, August 1

- 11:00AM – 12:00 PM Meet the 2023 Award Recipients
- 12:00 PM – 12:15 PM Exhibitor Talk: Recent Advancements in Stomatal Conductance and Evapotranspiration Measurements; LI-COR Biosciences
- 12:20 PM – 12:35 PM Exhibitor Talk: Plant Growth Chambers, Rooms and Controls System Solutions for Horticultural Science; Conviron
- 12:40 PM – 12:55 PM Exhibitor Talk: Malli Minerals International Product Line; Malli Minerals International, Inc.
- 1:00 PM – 1:30 PM Award Winning Science Across the Decades – Education; Curt R. Rom, University of Arkansas
- 1:30 PM – 2:00 PM Award Winning Science Across the Decades – Cross-Commodity; Daniel I. Leskovar; Texas A&M AgriLife Research and Extension Center
- 2:00 PM – 2:30 PM DEI initiative and What the Plans are for the Future; Eric T. Stafne, Mississippi State University Coastal Research & Extension Center, Heather Kirk-Ballard, Louisiana State U.
- 2:30 PM – 3:15 PM Insider Tips to Get a Faculty Position in Academia; Rhanuito Soranz Ferrarezi, University of Georgia
- 3:15 – 3:45 PM ASHS Plants, People, Science Podcast Discussion; Lara Brindisi, Rutgers U., Curt R. Rom, U. of Arkansas

### Wednesday, August 2

- 9:30AM – 10:00 AM FoodU: Linking Horticulture to the Campus Food System at Auburn University; Desmond R. Layne, Auburn University

### Hort Theater Highlights, continued

#### Wednesday, August 2 (continued)

- 10:10 AM – 11:00 AM Incorporating Civic Engagement into Your Courses; David Eliot Kopsell, Illinois State University
- 11:05 AM – 11:35 AM Exhibitor Talk: Ecomatik GmbH Germany Plant Sensing Equipment; Ecomatik GmbH
- 11:40 AM – 11:55 AM Exhibitor Talk: New Innovations from Apogee Instruments in 2023; Apogee Instruments Inc.
- 12:00 PM – 12:15 PM Exhibitor Talk - NEW CIRAS-4 Portable Photosynthesis System: The only system that offers RGBW-FR LED light units & single-step CO2 ramping in real-time without post processing; PP Systems
- 12:20 PM – 12:35 PM Exhibitor Talk: New Innovation from Metware; Metware Biotechnology Inc.
- 12:40 PM – 12:55 PM Exhibitor Talk: A Paradigm Shift of Orchid Supply; Lytone Enterprise
- 1:00 PM – 1:30 PM Award Winning Science Across the Decades – Fruit; Guo-qing Song, Michigan State University, Horticulture
- 1:35 PM – 2:30 PM Fields of Devotion - Science in Action Movie; Lara J. Brindisi
- 2:45 PM – 3:00 PM Exhibitor Talk: Precision Water by Weo: Redefining Water for Sustainable Agriculture; Weo LLC
- 3:00 PM – 3:15 PM Exhibitor Talk: Revolutionizing Plant Data Collection with the TreeTag from ePlant; ePlant

#### Thursday, August 3

- 10:15 AM – 11:15 AM ASHS Experience Forum: The ASHS Leadership Academy Class II Project; Mengmeng Gu, Colorado State U.
- 11:40 AM – 12:00 PM Exhibitor Talk: Do You Want to Work for Driscoll's? Logan McCollum, Driscoll's
- 12:00 PM – 12:20 PM Career Talk: From Calla Lilies to Cannabis - the Joys of a Non-linear Career in Horticulture; Brian E. Corr, Stepan Company
- 12:30 PM – 1:00 PM Career Talk: Developing and Maintaining a Professional Brand and Network; Brian Eugene Jackson, North Carolina State University
- 1:00 PM – 1:30 PM Award Winning Science Across the Decades – Vegetables; Derek W. Barchenger, World Vegetable Center
- 1:30 PM – 2:00 PM Award Winning Science Across the Decades – Extension; Justin Moss, Oklahoma State University
- 2:00 PM – 2:30 PM Why Publish with ASHS? Paul W. Bosland, New Mexico State University
- 2:40 PM – 3:40 PM ASHS Leadership Fellows Went to Washington: Come and Hear their Stories of Lobbying and Advocacy; Mengmeng Gu, Colorado State University, Matthew Bertucci, University of Arkansas, Wusheng Liu, North Carolina State University, Julie Campbell, The University of Georgia and Heather Kirk-Ballard, Louisiana State University

#### Friday, August 4

- 10:30AM -11:00 AM Paul Thomas Pi Alpha Xi Digital Photo Contest 2023 Results; Sonja Maki, University of Wisconsin, River Falls