PROGRAM GUIDE

The

nfoAg

Welcome

CONTER CONTE The Premier Event in Precision Agriculture!

July 28-30, 2015 • Union Station • St. Louis, Missouri USA



General Information



Name Badges & Registration

Registration is required to enter all InfoAg 2015 program sessions and exhibit hall. Official conference name badges should be worn at all times.

The registration desk is open:

Monday, July 27	12:00pm - 6:00pm
Tuesday, July 28	7:00am - 6:00pm
Wednesday, July 29	7:00am - 6:00pm
Thursday, July 30	7:00am - 12:00pm

Hotel

All sessions and exhibits for InfoAg 2015 are at: **St. Louis Union Station Hotel** 1820 Market St. One Union Station St Louis, MO 63103 Phone: (314) 621-5262 Email: info@stlouisunionstation.com

Registration Includes

Registration packet

- Tuesday and Wednesday lunch
- Wednesday and Thursday breakfasts
- Refreshment breaks
- Reception Tuesday & Wednesday evenings

Receptions

PrecisionAg Tech Center Reception July 28 - 5:30pm - 7:30pm

PrecisionAg Tech Center Reception

July 29 - 5:00pm - 7:00pm

Exhibits

Exhibits are in the PrecisionAg Tech Center, located in the Midway

The exhibit hall is open during session breaks, breakfasts, lunches, and receptions.

Exhibit hall will open to attendees Tuesday at 11:00am. Exhibit hall will close Thursday at 9:00 am.

Website & App

InfoAg.org features additional details including presentation descriptions, speaker bios, and contact information for speakers and exhibitors. Access the complete InfoAg conference overview, create and manage your personal conference itinerary, and easily search speakers, exhibitors, and presentations with the InfoAg Conference App.





Available of

Certified Crop Adviser CEU Credits

Attendees may earn a possible sixteen CEUs through the program, four additional CEUs may be available through the tour; all CEUs have been submitted for approval by the International CCA Board.

Sign-in sheets will be available at each session.

Proceedings Online

Conference proceedings in the form of PDF slide sets from participating speakers will be posted to the website after the conference. Proceedings are not available in print or on CD.

If you have specific questions, contact: info@infoag.org

Post Conference Survey: infoag.org/survey

Pre-Conference Tour

The pre-conference tour will be Monday, July 27. The tour will leave Union Station at 9:00am and return by 5:00pm. The tour will visit three locations. Bus transportation, lunch, and beverages will be provided.

Stop 1: Lange-Stegmann Fertilizer Transload Facility and Soil Sampler Demonstrations

Stop 2: Sydenstricker, John Deere dealership in Moscow Mills, MO

Stop 3: UAS Demonstrations at Spirits of St. Louis RC Club

Access SSID: Doubletree Meeting Passcode: 1820

Internet



SCHEDULE At-A-Glance



Tuesday, July 28

7:00am – 6:00pm	Registration Open
9:00am – 11:00am	Opening Plenary Session Regency Ballroom ABC sponsored by IPNI
11:00am – 1:00pm	Lunch, Grand Ballroom DEF Exhibits, PrecisionAg Tech Center
1:00pm – 2:50pm	Concurrent Sessions
1:00pm – 2:50pm 3:30pm – 5:20pm	Concurrent Sessions Concurrent Sessions

Wednesday, July 29

7:00am – 6:00pm	Registration Open
7:00am – 8:00am	Breakfast, PrecisionAg Tech Center
8:00am – 9:50am	Concurrent Sessions
10:30am – 11:30am	PrecisionAg Plenary Session Regency Ballroom ABC
11:30am – 12:30pm	PrecisionAg Luncheon Grand Ballroom DEF sponsored by SST Software & Raven
12:30pm – 2:20pm	Concurrent Sessions
3:00pm – 4:50pm	Concurrent Sessions

Thursday July 30

5:00pm - 7:00pm

Thursday, July Ju	
7:00am – 12:00pm	Registration Open
7:00am – 9:00am	Breakfast, PrecisionAg Tech Center
9:00am – 10:50am	Concurrent Sessions
11:00am – 12:00pm	Closing Plenary Session Regency Ballroom ABC sponsored by IPNI

Reception, PrecisionAg Tech Center

Hands-On WORKSHOPS

The InfoAg Workshops provide the opportunity to go in-depth to a variety of topics.

The **Modus Standard** for soil sampling impacts many of the core activities in precision ag. This discussion of standards among users and potential users will contribute to the standard for the industry.

Ask the Futurist features keynote David Zach in an open discussion of identifying trends and what to do about them.

Precision Ag Teams focuses on the people part of precision ag with a discussion of roles, training programs and management ideas.

Decision Tools will be a hands-on workshop with computers ready to use the U2U agronomic decision tools created by a consortium of universities.

The **Innovation Forum** features six startups pitching their take on technology and how they see their niche in the marketplace. This new program element is designed to support entrepreneurs and attract interest from investors and other companies in up and coming technologies.

Precision Education focuses on the ability of colleges and universities to prepare students for jobs and careers in precision agriculture. Educators and industry representatives with an interest in better educated/trained employees are encouraged to attend.

Each workshop offers a unique topic. And the open disucssion format allows participants to fully explore topics of interest.

There is no additional fee to attend InfoAg workshops. No reservations are needed, but seating may be limited. **Workshops will be located just off the exhibit hall in the Midway Suites (behind the IPNI booth).**

WORKSHOPS:

- Modus Implementation
- ✓ Ask the Futurist
- Precision People
- Weather Agronomics
- Innovation Forum
- Precision Education

Workshop Schedule on page 7.

InfoAg

Program

TUESDAY, JULY 2	8, 2015	Regency C	Precision Irrigation	
9:00am to 11:00am Regency ABC	Opening Plenary Session Welcome to InfoAg 2015 Steve Phillips		Pixel Watering of Wine Grapes in California: Proof-of-concept Testing of a Modular Variable Rate Irrigation Prototype Luis Sanchez	
	20th Anniversary of the First InfoAg Paul Fixen		Precision Irrigation in the Southeast Lincoln Zotarelli	
	PrecisionAg Award Presentations Paul Schrimpf	Regency AB	<u>John Deere Showcase</u> Operations Center in MyJohnDeere	
	Thinking Like a Futurist <i>David Zach</i>	Midway Suites	Patrick Pinkston Workshop: Modus Implementation	
11:00am to 1:00pm	Lunch and Exhibits		(continued)	
Grand Ballroom DEF & Midway	sponsored by IPNI		Modus Standard Workshop Scott Murrell, Jason Ellsworth, Ignacio Ciampitti, Dave Nerpel, Aaron Hunt	
1:00pm to 1:50pm	Concurrent Sessions			
Grand Ballroom C	<u>1995-2015</u>	2:50pm to 3:30pm	Break in PrecisionAg Tech Center	
	20 Years in Review Harold Reetz		, ,	
	20 Years of Using Precision Ag Tools to Build a Knowledge-Based Business	3:30pm to 4:20pm	Concurrent Sessions	
		Grand Ballroom C	<u>Repeat: 1995-2015</u>	
Grand Ballroom AB	Ron Olson <u>Data Analysis for Agronomic Decisions</u>		20 Years in Review Harold Reetz	
	Agronomic Lessons from Data Analysis Dan Frieberg		20 Years of Using Precision Ag Tools to Build a Knowledge-Based Business Ron Olson	
Regency C	Precision Conservation	Grand Ballroom AB	Repeat: Data Analysis for Agronomic	
	4 Rs Are Not Enough		Decisions	
Adapting Manager	Jorge Delgado		Agronomic Lessons from Data Analysis	
	Adapting Precision Technologies to the Management of Soil Health	Decement	Dan Frieberg	
	Jason Warren	Regency C	<u>Science of Precision Ag</u> ISPA and Precision Agriculture around	
Regency AB	<u>SST Software Showcase</u> Data Synchronization: The Linchpin of		the World Nicolas Tremblay	
	Precision Ag Progress Matt Waits		ASA- Precision Ag Community Brenda Ortiz	
Midway Suites	Workshop: Modus Implementation	Regency AB	MapShots Showcase	
	Modus Standard Workshop Scott Murrell, Jason Ellsworth, Ignacio Ciampitti, Dave Nerpel, Aaron Hunt	педелсу но	MapShots Showcase Ted Macy	
2:00pm to 2:50pm	Concurrent Sessions	Midway Suites	Workshop: Ask the Futurist	
Grand Ballroom C	2015- 2035		Ask the Futurist	
Grand Ballroom AB	2015-2035: What's Coming for Precision Ag Marc Vanacht Variable Seeding		David Zach	
	Multi-Genetic Planting Jason Webster			
	Creating Accurate Management Zones for Reliable Variable Seeding Results Dave Scheiderer			

Program



4:30pm to 5:20pm	Concurrent Sessions	Regency AB	Gold Sponsor Showcase
Grand Ballroom C	Repeat: 2015-2035	insgenty no	Crop IMS: Turning Data Privacy in to Practice
	2015- 2035: What's Coming for Precision Ag		Don Bierman
	Marc Vanacht		Expectations of RTK Customers vs Realities of
Grand Ballroom AB	Repeat: Variable Seeding		RTK Service Providers <i>Andy Hill</i>
	Multi-Genetic Planting	Midway Suites	Workshop: Precision People
	Jason Webster	Mildway Sulles	Managing Healthy Precision Agriculture Teams
	Creating Accurate Management Zones for Reliable Variable Seeding Results		T. J. Stauffer
	Dave Scheiderer	9:00am to 9:50am	Concurrent Sessions
Regency C	Weather Data Sources	Grand Ballroom C	Farmer Perspective of the Future
	Decision Tools from U2U Jim Angel		Precision Technologies That Have Worked for Us and A Wish List for the Future
	Agrifying Weather Data: Making a Difference		Larkin Martin
	in Precision Farming <i>Tim Marquis</i>		Controlled Traffic, Drainage, and Input Management- Current and Future
Regency AB	GEOSYS Showcase		Opportunities Bob Stewart
	Future-Proofing Ag Technology Investments	Grand Ballroom AB	Yield Data Mining
MiducauCuitas	Matthieu Hyrien		Understanding, Analyzing, and Decision
Midway Suites	<u>Workshop: Ask the Futurist (continued)</u> Ask the Futurist		Making from Mapped Yield Data Raj Khosla
	David Zach	Regency C	UAS Update
5:30pm to 7:30pm	Reception in PrecisionAg Tech Center	ingenty e	Practical Approach to Unmanned Aerial Systems Chad Colby
		Regency AB	Raven Showcase
WEDNESDAY, JU			Innovations in Information and Input Management
7:00am to 8:00am	Continental Breakfast		Paul Welbig
8:00am to 8:50am	Concurrent Sessions	Midway Suites	Workshop: Precision People
Grand Ballroom C	Farmer Perspective		(continued)
	Observations from the Original Cyberfarmer John Reifsteck		Managing Healthy Precision Agriculture Teams T. J. Stauffer
Grand Ballroom AB	Precise Data Comes Before Big Data		
	Soil Sampling Done Right Tom McGraw	9:50am to 10:30am	Break in PrecisionAg Tech Center
Regency C	Remote Sensing Panel	10:30am to 11:30am	PrecisionAg Plenary Session
	Satellite System Innovations Ryan Schacht	Regency ABC	Rethinking Our Ag Biotech Message-They Love What We Do But They Just Don't Know It!

Blended Remote Sensing Options

Practical Applications of Remote Sensing Data

Aerial Platform Innovations

in Wine Grape Production

Max Bruner

Mark Zaller

Luis Sanchez

SS

Software

Kevin Folta

PrecisionAg Luncheon

sponsored by SST Software & Raven

11:30am to 12:30pm

Grand Ballroom DEF

What We Do... But They Just Don't Know It!

RAVEN

InfoAg conference

Program

WEDNESDAY, JU	LY 29, 2015 continued	Grand Ballroom AB	Depest Vield Data Mining
12:30pm to 1:20pm Grand Ballroom C	Concurrent Sessions <u>Innovations in Remote Sensing</u> Drone Applications in Modern Agriculture- Turning Pictures into Decision Support		Repeat: Yield Data Mining Understanding, Analyzing, and Decision Making from Mapped Yield Data <i>Raj Khosla</i>
Grand Ballroom AB	Kevin Price Refining the Soil Survey Functional Soil Maps for Precision Farming <i>Phillip Owens</i>	Regency C	Data Warehouses/ Exchanges Solving the Data Problem on the Farm Jason Tatge Data Warehouses/ Exchanges John Fulton
Regency C	Big Data in Context Agility and Co-Innovation: Accelerating Big Data and IoT for Farm Big Data Solutions Lisa Prassack Real-World Ag Big Data and Analytics Douglas Hackney	Regency AB	Gold Sponsor Showcase Managing Your Operation in the Cloud with AgFiniti Luke James Enabling Technology to Increase Uptime, Performance and Efficiency
Regency AB	Trimble Showcase The Value of Connectivity in Precision Farming Daniel Hedgecock, Devon Liss	Midway Suites	Jason O'Flanagan Innovation Forum
Midway Suites	Workshop: Weather Agronomics Decision Tools using Agronomic, Climatic, and Economic Information from U2U Jim Angel, Chad Hart		Spensa Technologies Johnny Park Asilomar Bio Travis Bayer Weed Control: Robotics and
1:30pm to 2:20pm	Concurrent Sessions		Agriculture Automation Ben Chostner
Grand Ballroom C	Repeat: Farmer Perspective Observations from the Original Cyberfarmer John Reifsteck	4:00pm to 4:50pm Grand Ballroom C	Concurrent Sessions Repeat: Innovations in Remote Sensing Drone Applications in Modern Agriculture-
Grand Ballroom AB	<u>Repeat: Precise Data Comes Before Big Data</u> Soil Sampling Done Right <i>Tom McGraw</i>	Grand Ballroom AB	Turning Pictures into Decision Support Kevin Price Repeat: Refining Soil Survey Functional Soil Maps for Precision Farming
Regency C	Data Issues Privacy and Security Principles for Farm Data Mary Kay Thatcher Iowa AgState Report on Digital Agriculture Matthew Darr	Regency C	Phillip Owens Space Tech Update NASA Data and Technology for Precision Ag and How to Get It Phyl Speser
Regency AB	Encirca Showcase Encirca Services- Working with a Trusted Advisor Justin Welch	Regency AB	AGOC not a Star Trek threat, but the Next Generation for Precision Ag Punch Moulton Gold Sponsor Showcase
Midway Suites	Workshop: Weather Agronomics (continued) Decision Tools using Agronomic, Climatic, and Economic Information from U2U Jim Angel, Chad Hart		iCropTrak- Mobile Processing That Rivals Your Desktop Aaron Hutchinson AgWorks: Changing the Conversation from Precision to Decision Greg Duhachek
2:20pm to 3:00pm	Break in PrecisionAg Tech Center	Midway Suites	Innovation Forum (continued)
3:00pm to 3:50pm	Concurrent Sessions	,	Location, Location, Location: Democratizing
Grand Ballroom C	Repeat: Farmer Perspective of the Future Precision Technologies That Have Worked For Us and A Wish List for the Future Larkin Martin Controlled Traffic, Drainage, and Input Management- Current and		High Accuracy RTK GPS in Precision Ag Tim Harris Granular Sid Gorham Farmobile Jason Tatge
	Future Opportunities Bob Stewart	5:00pm to 7:00pm	Reception in PrecisionAg Tech Center

Program

10:00am to 10:50am Concurrent Sessions



THURSDAY, JULY 30, 2015

7:00am to 9:00am 9:00am to 9:50am Grand Ballroom C	Breakfast in PrecisionAg Tech Center Concurrent Sessions Brazilian Precision Ag Brazilian Precision Agriculture in Perspective Fros Francisco	Grand Ballroom C Grand Ballroom AB	Argentinian Perspective Challenges and Opportunities of Precision Agriculture; A South American Perspective Adrian Fay Nitrogen Management Tools & Discussion
Grand Ballroom AB	Nitrogen Management Tools Nitrogen MGMT- Back to Basics		Adapt-N Harold van Es, Greg Levow
	Justin Welch Climate N Mark Shahinian	Regency C	Gold Sponsor Showcase Aerial Platform Innovations Mark Zaller
Regency C	Gold Sponsor Showcase FarmersEdge: From Boots to Bytes Patrick Crampton		The Top 3 Emerging Legal Issues That Will Impact the Precision Ag Business Joan Archer, Robert Wilkinson, Christopher Budke
	How FarmLogs Powers the Intelligent Farm Jesse Vollmar	Regency AB	Gold Sponsor Showcase
Regency AB	Gold Sponsor Showcase RapidEye Satellite Imagery on Demand Clint Graumann		Agrian's Unified Tool Set for Precision Management Nish Majarian
	Using NovAtel CORRECT and TerraStar for High Accuracy Applications Sara Masterson		Transforming Farming through Data Science- Ag's Next Revolution Randy Barker
Midway Suites	Workshop: Precision Education	Midway Suites	Workshop: Precision Education (continued)
	White Paper on Status of Precision Agriculture Education		Precision Ag Educators Group Meeting Terry Brase
	Terry Brase	11:00am to 12:00pm <i>Regency ABC</i>	Closing Plenary Session sponsored by IPNI Planet Labs: Imaging the Entire Planet.

Hands-On Workshops

TUESDAY, JULY	28, 2015	WEDNESDAY	, JULY 29, 2015	THURSDAY, J	ULY 30, 2015	
1:00pm to 2:50pm	Modus Implementation Scott Murrell	8:00am to 9:50am	Precision People T. J. Stauffer	9:00am to 10:50am	Precision Education Terry Brase	
	Jason Ellsworth Ignacio Ciampitti Dave Nerpel Aaron Hunt	12:30pm to 2:20pm	Weather Agronomics Jim Angel Chad Hart			
3:30pm to 5:20pm	Ask the Futurist David Zach	3:00pm to 3:50pm	Innovation Forum Johnny Park Travis Bayer Ben Chostner			
		4:00pm to 4:50pm	Innovation Forum (continued) Tim Harris Sid Gorham Jason Tatge			

Every Day

Robbie Schingler

PLANT NUTRITION PLANT NUTRITION



Keynote Speakers

David Zach - Sponsored by IPNI

Tuesday, July 28, 2015 • 9:00am



David Zach is one of the few professionally trained futurists on this planet, having earned a masters degree in Studies of the Future from the University of Houston-Clear Lake. Of course, this was way back in the 1980s, so it's pretty much history by now. Since then, Dave has worked with over 1400 associations, corporations and colleges offering insights on the personal and professional impact of strategic trends. In other words, he gives funny and thought-provoking keynote speeches on the future of technology, economics, business, education, demographics and society.

He reads a lot – and he reads a lot more about the past than he does about the future. He knows that change is vital but it's also overrated and in this time of tumultuous change, it's far more important that we find the things that don't change and shouldn't change. Tradition and change are really choices, and we are only prepared to choose wisely when we look far and wide for causes, implications and lasting value.

Dave has only had two real jobs; one with Northwestern Mutual and the other with Johnson Controls in the roles of environmental scanning and strategic planning. Along the way, he taught Future Studies in the School of Education at the University of Wisconsin-Milwaukee. Since 1987, he mostly sits and reads everything he can and then designs fascinating presentations that leave people either engaged in vivid conversations or quietly reflecting on what it all means. He gives talks about 50 times a year and really wishes he would write more. He is the author of two books, so far.

Dave is on the board of the American Institute of Architects and on the board of the American Chesterton Society. Past activities include: Wisconsin Small Business Development Center Advisory Council, AIA-WI Board, Future Milwaukee Advisory Board, Community Advisory Board for NPR station WUWM, board member of elnnovate, member of the downtown Rotary Club of Milwaukee, and chairman of the Goals for Greater Milwaukee 2000 Education Committee.

Kevin Folta - Sponsored by SST Software and Raven

Wednesday, July 29, 2015 • 10:30am

Kevin M. Folta is a Professor and the Chairman of the Horticultural Sciences Department at the University of Florida. His research uses state-of-the-art genomics approaches to identify novel genes that control important traits in small fruits, and led the strawberry genome sequencing project- producing the 12th plant genome sequenced. His laboratory also examines how plants interact with the light environment, how specific wavelengths of light may be applied to control development of high-value crop traits. He has been recognized with several prestigious awards such as the NSF CAREER Award, the University of Florida Research Professorship, and the HHMI Distinguished Mentor Award. A key part of his program is communicating science to non-scientific audiences, and training scientists how to effectively communicate scientific or controversial topics. BS/MS Northern Illinois University 1989/1992, Ph.D. University of Illinois at Chicago, 1998.



Robbie Schingler - Sponsored by IPNI

Thursday, July 30, 2015 • 11:00am



Robbie Schingler is the Co-Founder and President of Planet Labs. Prior to Planet Labs, Robbie spent 9 years at NASA. He helped to formulate the Small Spacecraft Office at NASA Ames Research Center and was Capture Manager for the Transiting Exoplanet Survey Satellite (TESS). Robbie had two tours at NASA Headquarters. He served as NASAs Open Government Representative to the White House; and the White House recognized NASA as a model for openness in government. Robbie also served on the founding team as Chief of Staff for the Office of the Chief Technologist at NASA – where he incubated \$650M Space Technology Program that focused on advanced technology. Robbie received a MBA from Georgetown University, a Masters of Science Space Studies from the International Space University, and a BS in Engineering Physics from Santa Clara University and was a 2005 Presidential Management Fellow.



GRIAN

FARMLINK

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AERIAL IMAGING MAPPING DATA

HUSCH BLACKWELL

TUESDAY, JULY 28, 2015 1:00pm to 1:50pm SST Software Showcase SST Software Data Synchronization: The Linchpin of Precision Ag Progress Matt Waits 2:00pm to 2:50pm John Deere Showcase **Operations Center in MyJohnDeere** JOHN DEERE Patrick Pinkston 3:30pm to 4:20pm MapShots Showcase **Map**Shots MapShots Showcase Ted Macy **GEOSYS** Showcase 4:30pm to 5:20pm Future-Proofing Ag Technology Investments GEOSYS Matthieu Hyrien WEDNESDAY, JULY 29, 2015 8:00am to 8:50am **Gold Sponsor Showcase** <u>CRÓP IMS</u> Crop IMS: Turning Data Privacy in to Practice Don Bierman Expectations of RTK Customers vs Realities of RTK Service Providers MvWav 📿 RTK Andy Hill 9:00am to 9:50am **Raven Showcase** Innovations in Information and Input Management VEN Paul Welbig 12:30pm to 1:20pm **Trimble Showcase rimble** The Value of Connectivity in Precision Farming Daniel Hedgecock Devon Liss 1:30pm to 2:20pm **Encirca Showcase** Encirca Services- Working with a Trusted Advisor encirca Justin Welch 3:00pm to 3:50pm Gold Sponsor Showcase eadei Managing Your Operation in the Cloud with AgFiniti Luke James Enabling Technology to Increase Uptime, Performance and Efficiency Jason O'Flanagan TECHNOLOGIES 4:00pm to 4:50pm **Gold Sponsor Showcase** CropTrak iCropTrak-Mobile Processing That Rivals Your Desktop Aaron Hutchinson AgWorks: Changing the Conversation from Precision to Decision AgWorks Greg Duhachek **THURSDAY, JULY 30, 2015** BlackBridge 9:00am to 9:50am **Gold Sponsor Showcase** RapidEye Satellite Imagery on Demand Clint Graumann Using NovAtel CORRECT and TerraStar for High Accuracy Applications Sara Masterson 9:00am to 9:50am **Gold Sponsor Showcase** (Regency C) FarmersEdge FarmersEdge: From Boots to Bytes Patrick Crampton How FarmLogs Powers the Intelligent Farm FarmLogs

Jesse Vollmar

Nish Majarian

Randy Barker

Mark Zaller

Randy Barker

Gold Sponsor Showcase

Gold Sponsor Showcase (Regency C)

Aerial Platform Innovations

Agrian's Unified ToolSet for Precision Management

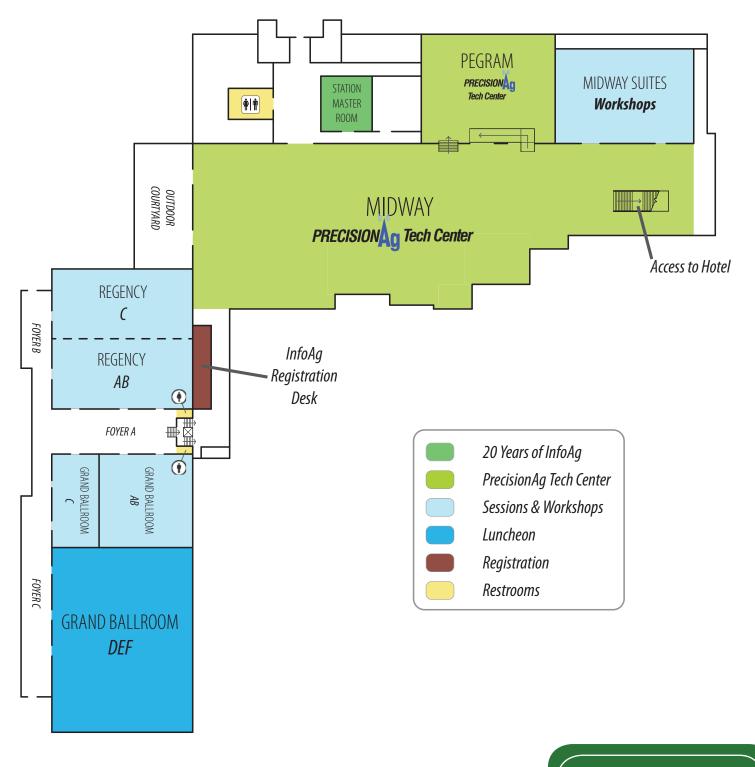
Transforming Farming through Data Science- Ag's Next Revolution

The Top 3 Emerging Legal Issues That Will Impact the Precision Ag Business

10:00am to 10:50am

10:00am to 10:50am





Internet Access

SSID: Doubletree Meeting

Passcode: 1820

Sponsors

















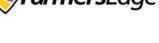
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InfoAg 2015 Sponsors



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