

Wednesday, July 11th, 2018 | Vendor area 8 am - 7 pm -- Anheuser-Busch Hall, Crowder Courtyard

GENERAL SESSION: Edison Theater

8:30 am - Conference Opens - Welcome, Opening Comments | Bob Sears - HAS President

8:45 - 9:35 am - The Long and Optimistic View of Honey Bee Health | Marla Spivak, PhD, University of Minnesota

9:40 am - 10:30 am Mite Management Matters | Dennis vanEngelsdorp, PhD, University of Maryland

10:30 - 11:10 **BREAK | Anheuser-Busch Hall, Crowder Courtyard**

Breakout Sessions in Anheuser-Bush Hall, Seigle Hall, and McMillan Café

	Anheuser-Busch 202 - Morris	Anheuser-Busch 204 - Jordan Foundation	Anheuser-Busch 305 - Cullenbine	Anheuser-Busch 306 - Zorensky	Anheuser-Busch 309 - Trial Courtroom	Anheuser-Busch 310 - Bryan Cave Moot Courtroom	Seigle 301	Queen Rearing McMillan Café	Queen Rearing Apiary	Apiary 1	Apiary 2
11:10 - 12:00	MiteCheck	Bee Math An Interactive Practical Workshop	Back to the Basics on Keeping Bees Alive	Small Scale Queen Rearing	Medicinal Benefits of Honey		Dissections and Examinations for Tracheal Mites and Nosema: Bring Your Own Bee Samples	Selecting for Behavioral Resistance to Varroa Destructor		Using Chemical Products for Varroa Control	Basic Hive Inspection - Reading Frames
	Rebecca Masterman Bee Squad	Dewey Caron	Jennifer Berry	Grant Gillard	Kirsten Traynor		Mike Goblirsch and Thomas Webster	Krispn Given		Kathleen Prough	Kent Williams

LUNCH | Danforth University Center (DUC)

1:30 - 2:20	Colony Autopsy: Identifying and Preventing Common Causes of Winter Loss	Beekeeping Practices that Work	Biology of the Individual Honey Bee	Progress Toward Biological Varroa Control	Making and Marketing A Wider Variety of Honey Products		Honey Bee Anatomy - The Inside Story	Queen and Drone Biology	Beetography Part 1, Field Work	Three-Step Process for Controlling Varroa	Five over Five Frame Cell Starter/Finisher
	Bee Squad Ana Heck, Bridget Mendel Lee, Jenny Warner	Dennis vanEngelsdorp	Keith S. Delaplane	Jim Masucci	Tim Tucker		Mike Goblirsch and Thomas Webster	Mike Wilson	Zachary Huang	Mike Seib	Dorothy Morgan and Dwight Wells
2:35 - 3:25	Propolis and Bee Health	Passion to Profession for the Stationary Beekeeper	Tropilaelaps Mites, A Fate Worse Than Varroa	Medical Issues in the Apiary: How to Prevent, Recognize & Address Part 1	Why Register Your Hives		Honey Bee Anatomy - The Inside Story	Cell Builder Overview (Requires Special Registration)	Preparing the Swarm Box (Requires Special Registration)	Gentle Beekeeping Basics	
	Marla Spivak	Freddy Proni	Samuel Ramsey	Dr. Michael Misko	Stephanie Regagnon		Mike Goblirsch and Thomas Webster	Mike Wilson, Krispn Given and Dave Shenefield	Mike Wilson, Krispn Given and Dave Shenefield	Bee Squad Ana Heck, Bridget Mendel Lee, Jenny Warner	

BREAK | Anheuser-Busch Hall, Crowder Courtyard

4:00 - 4:45	Drivers of Colony Losses, What the Data Actually Shows	How to Detect and Correct Queen Problems	Hive Tracks, Keeping Track of Your Hives	Medical Issues in the Apiary: How to Prevent, Recognize & Address Part 2	Rediscovering Comb Honey		Dissections and Examinations for Tracheal Mites and Nosema: Bring Your Own Bee Samples		Preparing the "Open Flight" Starter Finisher System (Requires Special Registration)	MiteCheck	Basic Hive Inspection - Reading Frames
	Dennis vanEngelsdorp	Phil Craft	James Wilkes	Dr. Michael Misko	Ray Nabors		Mike Goblirsch and Thomas Webster	Mike Wilson, Krispn Given and Dave Shenefield		Rebecca Masterman Bee Squad	Kent Williams

Mexican Dinner | College Hall

MOVIE: Ulee's Gold | Edison Theater

6:00 - 7:15

7:45

Thursday, July 12th, 2018 | Vendor area 8 am - 7 pm -- Anheuser-Busch Hall, Crowder Courtyard

GENERAL SESSION: Edison Theater

8:30 am - Conference Opens - Welcome, Opening Comments | Bob Sears - HAS President

8:45 - 9:35 am - Integrating Hive Management with Evolution and Ecology | Keith S. Delaplane, PhD, University of Georgia

9:40 am - 10:30 am - Varroa Feeds on Hemolymph and Two Other Alternative Facts | Samuel Ramsey, PhD, University of Maryland

10:30 - 11:10 BREAK | Anheuser-Busch Hall, Crowder Courtyard

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	Anheuser-Busch 202 - Morris	Anheuser-Busch 204 - Jordan Foundation	Anheuser-Busch 305 - Cullenbine	Anheuser-Busch 306 - Zorensky	Anheuser-Busch 309 - Trial Courtroom	Anheuser-Busch 310 - Bryan Cave Moot Courtroom	Seigle 301	Queen Rearing McMillan Café	Queen Rearing Apiary	Apiary 1	Apiary 2
11:10 - 12:00	Mind Your Beeswax: The "Other" Gift of the Bee	Progress with Breeding and Biology of VSH Bees	Fighting for Our Bees	Past, Present and Future of US Organic Agriculture	Canola Story: Benefits to Beekeepers	Panel Discussion: What Do We Know About Bees and Pesticides, What Do We Not Know and How Do We Know It	Making Wax Candles and Ornaments	Beetography Part 2, Working with Bee Photographs		Gentle Beekeeping Basics	Making Nucs
	Martin Marklin	Jeff Harris	Jennifer Berry	Matthew J Grieshop	Greg Sekulic	May Berenbaum, Keri Carstens, Caydee Savinelli, Julie Shapiro, Marla Spivak	Joy Stinger	Zachary Huang		Bee Squad Ana Heck, Bridget Mendel Lee, Jenny Warner	Kent Williams

12:00 - 1:30 LUNCH | Danforth University Center (DUC)

1:30 - 2:20	Pheromones: Understanding Colony Communication Part I	What Are You Seeing? Pollen, Nectar, Eggs, Larva, Disease	Bee MD - Identifying Hive Problems, An Interactive Workshop	How Do German Beekeepers Keep Their Winter Losses Below 5%	Insect Pollination: Co-Evolution from the Flower's Perspective		What You Need to Know About Varroa Mites			Setting Up Polystyrene Hives	How To Light a Smoker and Keep it Lit
	Bee Squad Ana Heck, Bridget Mendel Lee, Jenny Warner	Kathleen Prough	Dewey Caron	Kirsten Traynor	Sandra Arango-Caro		Mike Goblirsch			Dorothy Morgan	Mike Seib
2:35 - 3:25	Hives, Tribes and Networks-How Ideas Spread and Why Beekeepers Have Such a Big Impact on Culture	Bee & Butterfly Habitat Fund: A Program to Help You Plant Pollinator Habitat	Bridging the Pesticide Divide Between Gowers and Beekeepers	Honey Bee Health Coalition -How Stakeholders from Across Agriculture are Collaborating on Bee Health	Fungicide Effects on Bees		Feeding Honey Bees	Queen Rearing Grafting (Requires Special Registration)	Preparing Grafting Frames, Then Start to Graft (Requires Special Registration)	Mite Sampling Demonstration	Pheromones: Understanding Colony Communication Part II
	Vance Crow	Peter S. Berthelsen	Jeff Harris	Julie Shapiro	May Berenbaum		Zachary Huang	Mike Wilson, Krispn Given and Dave Shenefield	Mike Wilson, Krispn Given and Dave Shenefield	Tammy Horn-Potter	Bee Squad Ana Heck, Bridget Mendel Lee, Jenny Warner

3:25 - 3:50 BREAK | Anheuser-Busch Hall, Crowder Courtyard

4:00 - 4:45	Pollinators and Pesticides Stewardship	Nuc Production and Transportation Using a 6-Frame System	APHIS National Honey Bee Survey-Missouri Preliminary Results	Insect Pollination: Co-Evolution from the Flower's Perspective	Bees and Pesticides in the Missouri Bootheel		Different methods of Checking for Varroa Mites	Continue Grafting and Discussion (Requires Special Registration)	The Ups and Downs of Varroa Management	Finding a Queen That Doesn't Want to be Found
	Caydee Savinelli Keri Carstens	Tim Tucker	Doug LeDoux	Sandra Arango-Caro	Ray Nabors		Mike Goblirsch	Mike Wilson, Krispn Given and Dave Shenefield	Bee Squad Ana Heck, Bridget Mendel Lee, Jenny Warner	Grant Gillard

6:00 Brews and Bees Anheuser - Busch

Friday, July 13th, 2018 | Vendor area 8 am - 7 pm -- Anheuser-Busch Hall, Crowder Courtyard

GENERAL SESSION: Edison Theater

8:30 am - Conference Opens - Welcome, Opening Comments | Bob Sears - HAS President

8:45 - 9:35 am - Oxalic Acid Extended Release Study and Results | Jennifer Berry, Honey Bee Program, University of Georgia

9:40 am - 10:30 am - Panel Discussion: How Technology is Shaping the Future of Pollinators, Ecology and Agriculture

Moderator: Julie Shapiro, Senior Policy Director, Keystone Policy Center
 May Berenbaum, PhD., Department Head, University of Illinois
 Robert T. Fraley, PhD., Executive Vice President and Chief Technology Officer of Monsanto Company
 Peter H. Raven, PhD., President Emeritus, Missouri Botanical Garden

10:30 - 11:10 | **BREAK | Anheuser-Busch Hall, Crowder Courtyard**

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11:10 - 12:00	Candlemaking Fit for the Pope	Canola Story: Benefits to Beekeepers	Honey Bee Health Coalition Using the "Tools for Varroa Management" Guide	Science-Based Risk Management of Pesticides and Bees	Hive Tracks, Keeping Track of Your Hives		Making Wax Candles and Ornaments			The Ups and Downs of Varroa Management	Making Nucs
	Martin Marklin	Greg Sekulic	Dewey Caron	Daniel Schmehl	James Wilkes		Joy Stinger			Bee Squad Ana Heck, Bridget Mendel Lee, Jenny Warner	Kent Williams

12:00 - 1:30 | **LUNCH | Danforth University Center (DUC)**

1:30 - 2:20	Drama Queens Part I	Varroa Anatomy: Why It Matters to Your Bees.	Keys to Getting the Best Possible Pollinator Habitat	Confessions of a Beekeeper's Wife - Tales from the Farmer's Market	Growing Into Small Scale Pollination and Honey Production, Including Bottling and Labeling		What You Need to Know About Varroa Mites		Check Queen Cells for Acceptance (Requires Special Registration)	Hive Inspection	Queen Rearing for the Backyard Beekeeper
	Bee Squad Ana Heck, Bridget Mendel Lee, Jenny Warner	Samuel Ramsey	Peter S. Berthelsen	Nancy Gillard	William Palmer		Mike Goblirsch		Mike Wilson, Krispn Given and Dave Shenefield	Tammy Horn-Potter	Kent Williams
2:35 - 3:25	Organic Insect Pest Management: Challenges and Opportunities	Biology of the Honey Bee Colony	Progress Towards Biological Varroa Control	Natural Beekeeping	Halting the Unstoppable Swarm		Creamed Honey from Start to Finish			What Are You Seeing? Pollen, Nectar, Eggs, Larva, Disease	Drama Queens Part II
	Matthew J Grieshop	Keith S. Delaplane	Jim Masucci	Jeff Harris	Kirsten Traynor		Sharon Gibbons and Chris Gibbons			Kathleen Prough	Bee Squad Ana Heck, Bridget Mendel Lee, Jenny Warner

3:25 - 3:50 | **BREAK | Anheuser-Busch Hall, Crowder Courtyard**

4:00 - 4:45	Colony Autopsy: Identifying and Preventing Common Causes of Winter Loss	Why Register Your Hives	Rediscovering Comb Honey	Hives, tribes, and networks-how ideas spread and why bee keepers have such a big impact on culture	Passion to Profession for the Stationary Beekeeper		Different methods of Checking for Varroa Mites			Traveling with 48-hour Queen Cells	Mite Sampling Demonstration
	Bee Squad Ana Heck, Bridget Mendel Lee, Jenny Warner	Stephanie Regagnon	Ray Nabors	Vance Crow	Freddy Proni		Mike Goblirsch			Dorothy Morgan and Dwight Wells	Tammy Horn-Potter

6:00 | **ZooBee St. Louis Zoo**