The Florida Senate

COMMITTEE MEETING EXPANDED AGENDA

AGRICULTURE Senator Rouson, Chair Senator Bradley, Vice Chair

TIME:	Wednesday, October 13, 2021 9:00—11:30 a.m. <i>Toni Jennings Committee Room,</i> 110 Senate Building
MEMDEDO.	Constar Devices Chairs Constar Dradley, Miss Chairs Constars Avel

MEMBERS: Senator Rouson, Chair; Senator Bradley, Vice Chair; Senators Ausley, Boyd, Burgess, Perry, Polsky, Rodriguez, and Thurston

TAB	BILL NO. and INTRODUCER	BILL DESCRIPTION and SENATE COMMITTEE ACTIONS	COMMITTEE ACTION
1	Presentation on Artificial Intelligence a Florida/IFAS	and Precision Agriculture by the University of	Presented
2	Presentation on Extension Services S Natural Resources, and Food Systems	upporting Workforce Development in Agriculture, s by the University of Florida/IFAS	Presented
3	Florida A&M University Agricultural Inr	novation & Impact Presentation	Presented
	Other Related Meeting Documents		



Leading the Way in **Artificial** Intelligence and Precision Agriculture





Nathan S. Boyd

Artificial Intelligence

Deep Learning / Computer Hardware









The Technological Revolution



Objectives

- Give a few brief examples of University of Florida research that is transforming Agriculture
- Summarize potential impacts





Weed Management

- Weeds occur in non-uniform patches
- Technology to detect and identify
- Technology to treat only where weeds occur



Nutsedge Detection



Dr. Arnold Schumann



Detection and precision spraying POST herbicide on nutsedge in tomato

Areas where control valves opened to spray target nutsedge

Potential herbicide reduction: 44%







Dr. Shaun Sharpe











PATENT PENDING

BLUERIVER TECHNOLOGY

FormWi

Optimize Every Plant

Blue River Technology is building the next generation of smart agriculture equipment. We're introducing See & Spray technology, enabling a world in which every plant counts.



Disease, Insect, and Fertility Management



Hand-held Apps

- Economically feasible
- Rapid development

Dr. Arnold Schumann

Al-Based Smartphone Apps for Leaf Symptom Diagnosis

Arnold Schumann CREC, UF/IFAS

Iron deficiency

12:19 PM

③ 24.144.122.222:4021

(11)

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76% 🔳

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AT&T LTE



May 12, 2021 Florida Citrus Show





Leaf diagnosing with a smartphone web app:



6. Show result

5. Submit photo

4. Use photo



Two-Spotted Spider Mite Detection Using Al and a Smartphone

Dr. Wonsuk "Daniel" Lee





TSSM & egg detection results

Detection accuracy using a smartphone

	Precision	Recall	Av	erage Precisi	on
TSSM	0.59	0.67		0.62	
Egg	0.60	0.76		0.67	
Det	tection acc	uracy usi	ing a	computer	
	Precision	Recall	A	verage Precis	ion
TSSM	0.81	0.85		0.86	
Egg	0.86	0.92		0.93	

UF FLORIDA



Benefits of Al-based Technology

Precision technology can:

- Reduce agrochemical inputs
- Reduce production costs
- Reduce risk of crop damage
- Reduce reliance manual labor
- Improve farm income



Benefits of Al-Based Technology

Precision technology can:

- Reduce pesticide residues on food
- Reduce impacts on pollinators
- Enhance water and nutrient management
- Improve crop yields
- Decrease negative environmental effects



Crop Canopy Mapping / Trait Specific Breeding

Dr. Amr Abd-Elrahman / Dr. Vance Whitaker

Strawberry flower detection for early yield mapping

Dr. Wonsuk "Daniel" Lee





Automation



HARVEST CROO

Q.



Data Integration for Actionable Outputs **UF** IFAS 8 0 **Digital Platform** UF FLORIDA

UF/IFAS Al Initiatives

University of

Florid

\$70 M NVIDIA-UF PARTNERSHIP WITH UF HIRING 100+ FACULTY POSITIONS FOCUSED ON AI.

HIRE 13 AI POSITIONS FOCUSED ON 10 PRIORITY AREAS

CENTER FOR APPLIED ARTIFICIAL INTELLIGENCE IN AGRICULTURE



THANK YOU

For your interest

For your support

For helping Florida be the leader in the next agricultural revolution

UF/IFAS Extension Statewide Support of Workforce Development in ANR and Food Systems



Saqib Mukhtar

Associate Dean

State Program Leader for ANR

UF/IFAS Extension

An Equal Opportunity Institution.

UF IFAS Extension

-Pesticide S **Applicators** dien -Growers -Fishing Guides \triangleleft

-Food Handlers, Caterers, Food Service Managers

-Natural Areas Managers

-Aquatic/Natural Resources Managers

-Seafood **Inspectors & Processors**

-Inmates

-Workshops ds Metho -Seminars -Virtual Classes σ. -Hands on а П Training -Podcasts -Recorded Modules -Field Trainings

-Print Products Materials -Videos -Manuals а Education -Field trips -Projects

P-Certificate of 🕁 Completion -CEU's • -CC and CEU

IFAS Extension

Agriculture & Horticulture			
Program (Year)	Yearly Participation	Yearly Certificates/CEU's issued	
Pesticide Education (1970's)	> 2,700 Online enrollments ~6,000 exams administered	150,000 CEU's total License Issued by FDACS (4yrs)	
Precision Ag and AI (2017)	~1,000	10-20 CEU's/person CC (Drone Pilot prerequisite)	
Greenhouse management Online Training (2015)	• 2020: 787 enrolled • Lifetime 3,895	536 graduated (68%) CC and CEUs	
Farmworker Protection Education (2001, County Program)	>1,800 (6 yr. average)	Average of 1,290 Certificates issued over 6 years	
		UF IFAS Ex UNIVERSITY of F	

Agriculture & Aquaculture

Program (Year)	Yearly Participation	Yearly Certificates/CEU's issued
Aquatic Weed Control Short Course (1976)	~500	Up to 20 CEU's/person
Seafood Hazard Analysis and Critical Control Points (HACCP) Training (1997)	>250	CC issued by Association of Food and Drug Officials
Florida Friendly Fishing Guide Certification (2019)	~68	CC



Natural Resources

Program (Year)	Yearly Participation	Yearly Certificates/CEU's issued
Natural Areas Training Academy (2000: Nature Conservancy) (2008: Moved to Extension)	~160	CC
Florida Master Naturalist Program (2001)	1,000-1,500 graduates per year	CC and CEUs and credits toward Florida Educator Renewal Certification
Florida Friendly Landscaping- Green Industries BMPs (2002)	~5,600	Since 2006 Total Certified 60,073

UF IFAS Extension UNIVERSITY of FLORIDA

Food Systems

Program (Year)	Yearly Participation	Certificates/CEU's issued
Food Safety and Quality (2001)	~800	ServSafe [®] CC (5yrs) Florida Food Handler Credentials (3yrs)





Impacts of Extension ANR Workforce Development Education

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IMPROVING FLORIDA'S

Workforce, Economy, and Natural Resources

UF/IFAS Extension partners with state agencies, professional organizations, and pest management and landscaping businesses to provide training that helps thousands of **Florida's workers** improve their skills, knowledge and job opportunities.

Between 2007 and 2019:

UF/IFAS pesticide programs support:



*Direct benefit of \$20m due to salary differential (\$6,448 x 3,074) and additional \$42m in indirect benefits due to additional income being spent in the economy.

- Higher profits and lower costs for Green Industry businesses Reduced liability
- Less damage due to termites and bed bugs

 Reduced chemical exposure Safe and effective pesticide use · A safer water supply, safer environment





REDUCING Nitrogen Pollution in Florida Waters

Since 1993 the Florida-Friendly Landscaping[™] (FFL) program has partnered with the Florida **Department of Environmental** Protection (FDEP) to reduce pollution in Florida waters. Polluted runoff from rainfall or overwatering is a major source of excess nitrogen and a major contributor to poor water quality.¹ FFL is an integral component of many **Basin Management Action** Plans (BMAPs) and helps to reduce nitrogen loading into Florida waters.



 Reisinger et al. March 2020. Sources and Transformations of Nitrogen in Urban Landscapes. https://edia.ifas.ufl.edu/publication/ss681.
 ²020 IFAS Workload data.
 ²020 surveys conducted of FFL participants (N=472) and landscape professionals (N=225)
 ⁴Florida Department of Environmental Protection. June 2021. 2020 Statewide Annual Report on Total Maximum Daily Loads, Basin Management Action Plans, Minimum Flows or Minimum Water Levels, and Recovery of Prevention Strategies. https:// floridadep.gov/dear/water-quality-restoration/ content/statewide-annual-report.

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WATER QUALITY BENEFITS OF FLORIDA-FRIENDLY LANDSCAPING™

- FFL efforts prevented an estimated 114,650 pounds of nitrogen from entering Florida waters in 2020.
- 3,000 landscape professionals adopted one or more green industry best management practices (GI-BMP).²
- 15,000 adult participants in FFL Extension programs adopted one or more best management practices for residential landscapes.
- Every pound of nitrogen that FFL prevents from entering Florida waters saves \$500 or more in nitrogen removal costs, such as stormwater pond construction.⁴
- Estimated statewide annual savings of
 \$57.3 million

- Participants shared what they learned through FFL with 10 other people, on average.³
- 96% of landscape professionals reported using UF/IFAS green industry best management practices for fertilizer use, compared to just 60% before attending the FFL training.
- 93% of residential participants said they adopted one or more FFL water conservation practices.³

UF IFAS Extension





UF/IFAS Extension provides training opportunities for inmates at the Federal Correctional Complex, Coleman (FCC Coleman), a U.S. federal prison. Through horticulture and culinary programs, inmates can receive certificates such as

- the National Restaurant Association's ServSafe[®] and ManageFirst Professional[®],
- UF/IFAS Green Industries-Best Management Practices (GI-BMP), and
- the Florida Nursery, Growers and Landscape Association's Certified Horticulture Professional (FCHP).

UF/IFAS Extension programs at FCC Coleman are designed not only to provide credentials that are useful or required for employment, but also skills and assistance that improve an inmate's likelihood of being hired after release, thus reducing their chances of being reincarcerated.

Reducing Recidivism Through PROFESSIONAL DEVELOPMENT and CERTIFICATION

HIGH SUCCESS RATES Horticulture Culinary 98% of FCC Coleman **78**% students (57 out of 58) (62 out of 80) of received GI-BMP and medium security inmates and (72 out of 74) **61%** received FCHP certification (44 out of 72) of in 2019. high security inmates received ServSafe® and/or ManageFirst certificates in 2019.

LOWER RECIDIVESM 5.4% rate of recidivism among **500** FCC Coleman students who completed the horticulture program over the past 9 years VS._______the national average rate of

recidivism within 8 years of release from federal prison, which is

49.3%¹

-United States Sentencing Commission (2016) "The average annual cost of incarceration for each faderal inmate in 2018 was \$37,499 (Bureau of Prisons, Federal Register, November 2019). The estimated cost of incarceration is \$2,21,44figher recidivism rate (500 x 49.3% x \$37,499) vs. \$1M at the lower rate (500 x 5.4% x \$37,499).

Created June 2020

BIG SAVINGS FOR

TAXPAYERS

MILLION

savings due to

dramatically lower

recidivism rate.²

in estimated taxpayer

\$8.2


Thank you and Questions





Senate Agriculture Committee College of Agriculture and Food Sciences Innovation & Impact Presentation October 13, 2021

CAFS Academic Programs

Bachelor's Degree

- Agribusiness
- Agricultural Sciences with majors in:
 - > Agronomy
 - Animal Science
 - Entomology
 - Veterinary Technology
- Biological Systems
 Engineering
- Food Science

Doctoral Degree

- Doctoral Degree (Joint program with University of Florida)
 - Entomology

Master's Degree

- Agricultural Sciences majors:
 - > Agribusiness
 - Entomology
 - Plant Science, Soil and Water Sciences

International Agriculture

- International Agriculture Research, Outreach and Development
- International Education (Study Abroad) and Exchange Program





CAFS Research Programs

Center for Viticulture and Small Fruit (1978)

Goal: Conduct basic and applied research and provide service to promote development of viticulture industry in Florida.

Center for Biological Control (1999)

Goal: Development of ecologically based integrated pest management and management and mitigation of invasive alien species.

Center for Water Resources (1998)

Goal: Protect, improve, restore and maintain Florida's water resources through research, education, extension and technology transfer.

Brooksville Agricultural and Environmental Research Station (2015)

Goal: Conduct innovative agricultural and natural resource research, learning, outreach and extension services that will enhance the mission of Land-Grant system.

USDA Florida Forest Watershed Research Program

Goal: Enhance natural resource science research, education, and outreach at FAMU to better understand sustainable watersheds in the coastal plain region.



New and Innovative CAFS Agricultural Research and Outreach Projects

- Use of Microalgae and Cyanobacteria to Reduce Nutrient Loads to Surface and Groundwater Pollution and Algae Bloom – Center for Water Resources (FAMU, DEP, Algeteral Technologies)
- Climate Change, Adaptation, and Welfare Implications: A Study of US Agriculture National Center for Atmospheric Research Project – FAMU CAFS Agribusiness Program (FAMU, NSF)



 Development of Microbial Control Agents for Varroa Mites of Honey Bees – Center for Biological Control (FAMU, USDA/APHIS)



 Complete Sequence of Muscadine Grape Whole – Genome – Center for Viticulture and Small Fruit (FAMU, FSU)



Support Landowners and Research through Conservation to Increase USDA Opportunities and Programs – Brooksville Agricultural and Environmental Research Station (FAMU, USDA/NRCS)



CDAVIS

USDA AMS Grant Applicant Technical Assistance with Underserved Community Focus – Cooperative syngenta Extension Service (FAMU, UMES)



FLORIDA

- USAID Horticulture Innovation Lab Aims to Empower Smallholder Farmers International Programs (FAMU, UC Davis, Texas A&M, Michigan State, World Vegetable Center)
- Collaborative Microplastics Community Science Project UF Sea Grant Program Center for Water Resources / Cooperative Extension (FAMU, UF)

























- Provides research-based educational programs and direct technical assistance to Florida citizens with particular emphasis on underserved and limited resource audiences and communities.
- Broad-based reach to youth, adults, families, communities and small farmers













4-H/Youth Development	Agriculture and	Natural Resources	Community Resource Development	Family & Consumer Science
• Agri-STEM	• Beginning Farmers	Small Ruminants	Business Development	• Aging and Senior Living
 Citizenship/ Leadership 	Protected Agriculture	Small-Scale Livestock	• Community Asset Building	• Emergency & Disaster
Financial Literacy Entrepreneurship	(Hydroponic/ Aquaponic, High Tunnel)	Production Systems	(incl. gardening, landscape, arboriculture)	Preparedness Farm to School
Gardening	,			
Nutrition	 Sustainable Food Systems 		Heir Property	 Financial Literacy
• Youth & The Law	Vegetable Production		 Re-Entry& Certification Programs 	Nutrition



Agriculture Innovation in Reaching. Teaching. Serving.

Master Goat & Sheep Certification Program

Farm-to-School

Produce Safety, Horticulture, GI-BMPs, Arboriculture Certification Programs

(Farmers, Industry & Re-Entry)





. fi		The Florida Se	nate			
Oct 13/21		ARANCE	RECORD	UF/IFAS AI		
Meeting Date		Deliver both copies of th		Bill Number or Topic		
Senate Agriculture	Committee Senate p	professional staff conduc	ting the meeting	An and mant Dava da (if ann liash la)		
Name Nathan 1	30.yd		Phone	Amendment Barcode (if applicable)		
Address <u>14625</u> C	ounty Road 6	72	Email	nsboyd Gufl. Kdu		
Wimanma City	FL State	<u>33598</u> Zip				
Speaking: Sor	Against M Inform	ation OR	Waive Speaking	g: 🗌 In Support 🔲 Against		
PLEASE CHECK ONE OF THE FOLLOWING:						
I am appearing without compensation or sponsorship.		n a registered lobbyist, resenting:		I am not a lobbyist, but received something of value for my appearance (travel, meals, lodging, etc.), sponsored by:		

While it is a tradition to encourage public testimony, time may not permit all persons wishing to speak to be heard at this hearing. Those who do speak may be asked to limit their remarks so that as many persons as possible can be heard. If you have questions about registering to lobby please see Fla. Stat. §11.045 and Joint Rule 1. 2020-2022. JointRules. pdf (flsenate.gov)

This form is part of the public record for this meeting.

	The Florida Se	nate	
10-13-21 A	PPEARANCE	RECORD	UF/IFAS
Meeting Date Scrate Ag Gmiffce Committee	Deliver both copies of th Senate professional staff conduc		Bill Number or Topic Amendment Barcode (if applicable)
Name <u>5ABIB MUKHTA</u>	R	Phone77	-9-777-3352
Address 1020 McCarty I		Email	MUKhtareuflicly
City City State	32611 Zip		
Speaking: 🗌 For 🗌 Against 🚺	Information OR	Waive Speaking: [In Support 🗌 Against
PI	LEASE CHECK ONE OF TH	E FOLLOWING:	
I am appearing without compensation or sponsorship.	I am a registered lobbyist, representing:		I am not a lobbyist, but received something of value for my appearance (travel, meals, lodging, etc.), sponsored by:

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			The Florida Se	enate	
10.13	3.2021	APP	EARANCE	RECORD	
Meeting Date Agriculture Committee		Senat	Deliver both copies of the professional staff condu-	Bill Number or Topic	
1	Committee				Amendment Barcode (if applicable)
Name	Robert Taylor, Ph.D).		Phone (850)) 561-2644
Address	Florida A&M Univer	sity College	of Agricultur	e _{Email} rober	t.taylor@famu.edu
	Tallahassee	FL	32307		
	City	State	Zip		
	Speaking: For A	gainst 🗾 Infor	rmation OR	Waive Speaking:	In Support 🔲 Against
		PLEASE	E CHECK ONE OF TH	HE FOLLOWING:	
	n appearing without npensation or sponsorship.		am a registered lobbyist, representing:		I am not a lobbyist, but received something of value for my appearance (travel, meals, lodging, etc.), sponsored by:

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This form is part of the public record for this meeting.

		The	e Florida Sena	ate	
10.13	8.2021	APPEAF	RANCER	ECORD	
Agric	Meeting Date Deliver both copies of this form to Agriculture Committee Senate professional staff conducting the meeting		Bill Number or Topic		
	Committee				Amendment Barcode (if applicable)
Name	Satyanarayan E	Dev, Ph.D.		Phone (850)	561-2977
Address	Florida A&M Ur	niversity College of A	griculture	_ _{Email} satyar	narayan.dev@famu.edu
	Tallahassee	FL	32307		
	City	State	Zip	_	
	Speaking: 🔲 For	Against 🗹 Information	OR M	/aive Speaking:	In Support Against
		PLEASE CHEC	K ONE OF THE	FOLLOWING:	
	n appearing without npensation or sponsorship.	I am a reg represent	istered lobbyist, ing:		I am not a lobbyist, but received something of value for my appearance (travel, meals, lodging, etc.), sponsored by:

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			The Florida Se	nate	
10.13	3.2021	APPE	ARANCE	RECOR	D
Meeting Date Agriculture Committee			Deliver both copies of th rofessional staff conduc	Bill Number or Topic	
p	Committee				Amendment Barcode (if applicable)
Name	Vonda Richards	son		Phone <u>(</u>	850) 599-3546
Address	Florida A&M Ur	niversity College	of Agricultur	Ə Email V	vonda.richardson@famu.edu
	Tallahassee	FL	32307		
	City	State	Zip		
	Speaking: 🔲 For	Against 🗹 Inform	ation OR	Waive Speak	ing: 🔲 In Support 🔲 Against
		PLEASE C	HECK ONE OF TH	IE FOLLOWIN	G:
1 H 1	n appearing without npensation or sponsorship.		n a registered lobbyist, resenting:		I am not a lobbyist, but received something of value for my appearance (travel, meals, lodging, etc.), sponsored by:

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CourtSmart Tag Report

Room: SB 110 Case No.: Type: Caption: Senate Committee on Agriculture Judge: 10/13/2021 9:01:16 AM Started: Ends: 10/13/2021 10:14:42 AM Length: 01:13:27 9:01:20 AM Opening Remarks 9:01:22 AM Roll Call 9:02:12 AM Chair Rouson **9:02:36 AM** Tab 1 - Presentation on Artificial Intelligence and Precision Agriculture by Nathan Boyd, UF 9:14:58 AM Chair Rouson **9:15:04 AM** Senator Ausley with guestion 9:15:58 AM Nathan Boyd to respond **9:16:29 AM** Follow up by Senator Ausley 9:16:53 AM Nathan Boyd to respond 9:18:13 AM Senator Ausley with follow-up 9:18:28 AM Nathan Boyd to respond 9:18:37 AM Senator Boyd with comments 9:19:03 AM Nathan Boyd to respond **9:19:51 AM** Senator Rouson with comments 9:20:20 AM Nathan Boyd to respond **9:22:11 AM** Senator Ausley with guestion 9:22:42 AM Nathan Boyd to respond 9:23:31 AM Senator Ausley with comments 9:23:47 AM Senator Bradley with question 9:24:12 AM Nathan Boyd to respond 9:24:45 AM Senator Thurston with question 9:24:58 AM Nathan Boyd to respond 9:26:47 AM Senator Thurston with follow-up 9:26:57 AM Nathan Boyd to respond 9:26:58 AM Chair Rouson 9:27:17 AM Tab 2 - Presentation on Extension Services Supporting Workforce by Dr. Sagib Mukhtar, Associate Dean, UF 9:38:15 AM Chair Rouson 9:38:24 AM Senator Thurston with question 9:38:35 AM Dr. Mukhtar to respond 9:39:24 AM Senator Thurston with follow-up 9:39:40 AM Dr. Mukhtar to respond 9:40:30 AM Senator Thurston 9:40:37 AM Dr. Mukhtar to respond 9:41:12 AM Senator Ausley with question 9:41:24 AM Dr. Mukhtar to respond 9:42:40 AM Senator Ausley with follow-up 9:43:03 AM Dr. Mukhtar to respond 9:43:09 AM Chair Rouson 9:43:25 AM Tab 3: Presentation by Dr. Robert Taylor, Dr. Satyanarayan Dev, & Vonda Richardson,

FL A & M, Agricultural Innovation & Impact

- 9:50:19 AM Chair Rouson with question
- 9:50:33 AM Dr. Taylor to respond
- 9:52:09 AM Senator Thurston with question
- 9:52:16 AM Dr. Taylor to respond
- 9:54:12 AM Chair Rouson with question re: grapes
- 9:54:26 AM Dr. Taylor to respond
- 9:57:10 AM Senator Rouson with comment
- 9:57:19 AM Dr. Dev to continue presentation
- 10:01:40 AM Senator Thurston with question
- 10:01:50 AM Dr. Dev to respond
- 10:02:34 AM Senator Thurston with follow-up
- 10:02:46 AM Dr. Dev to respond
- 10:03:43 AM Senator Thurston with follow-up
- 10:03:47 AM Dr. Dev to respond
- 10:04:08 AM Dr. Richardson to continue presentation
- 10:10:02 AM Chair Rouson
- 10:10:05 AM Senator Thurston with question
- 10:10:25 AM Dr. Richardson to respond
- **10:12:57 AM** Senator Thurston with comments
- 10:13:21 AM Chair Rouson with comments
- 10:14:12 AM Chair Rouson with closing remarks
- 10:14:25 AM Meeting ajourned