

**COMMISSION ON UNIVERSITY SUPPORT
MEETING
January 20, 2022
Videoconference (via Zoom)**

Present: John Benner (Chair), Judy Alford, Alisha Ebert *for Bob Broyden*, William Dougherty *for Scott Midkiff*, Debbie Greer *for Ken Miller*, Ariel Heminger, Jon Clark Teglas, *for Chris Kiwus*, Jim Tokuhisa, Paul Winistorfer

Absent with Notice: Martha Glass

Absent: Michael Borowski, Holly Carroll, Jeff Earley, Bradley Klein, Kimani Jackson, Polly Middleton, Charles Phlegar, Patrick Pithua, Connie Stovall

Guests: Kristina Cook, Robin White

1. Welcome and Roll Call

Commission Chair, John Benner, called the meeting to order at 2:01p.m.; initiated introductions and roll call. A quorum was present.

2. Approval of Agenda

Proper motion was made, seconded, and unanimously carried to adopt the January 2022 agenda.

3. Approval of the December 2021 meeting minutes

Chair Benner noted that these minutes have been voted on electronically and can be publicly accessed on the Governance Information System on the Web (<http://www.governance.vt.edu>).

4. Old Business

No old business for discussion.

5. New Business

Guest Speaker

Dr. Robin White with the Department of Animal and Poultry Sciences, shared a presentation about sustainable precision animal agriculture platform within the Center for Advanced Innovation in Agriculture. A copy of Dr. White's presentation is incorporated herein and made a part of these minutes.

6. Updates from Committee Representatives

Campus Development Committee – No representative present for the meeting; no updates from the committee.

Energy and Sustainability Committee – Kristina Cook reported the Energy and Sustainability Committee is making progress with Resolution 2021-22A and they hope to be ready to present at our February meeting. They will continue

to be identified as a committee. John Randolph is the Interim Climate Action, Sustainability & Energy Director. Nick Quint, Alternative Transportation Manager, provided them with an overview and updates on several including bike rack replacements, EV charging stations and protected bicycle lanes. The 2021-22 Green RFP projects are under review. Next meeting is January 24, 2022.

IT Services and Systems Committee – William Dougherty reported they have not had another meeting but anticipates their next meeting to be soon. Forthcoming will be IT transformation town halls with a focus on governance structure.

Transportation and Parking Committee – No representative present for the meeting; no updates from the committee.

7. Acceptance of Committee Minutes

Campus Development Committee – No new minutes submitted to the Commission.

Energy and Sustainability Committee – December 20, 2021 minutes were submitted to the Commission and were unanimously accepted and approved.

IT Services and Systems Committee – No new minutes submitted to the Commission.

Transportation and Parking Committee - No new minutes submitted to the Commission.

8. Next Meeting Date

Next meeting date is February 17, 2022.

9. Adjournment

There being no further business and with proper motion, the meeting adjourned at 2:46pm.

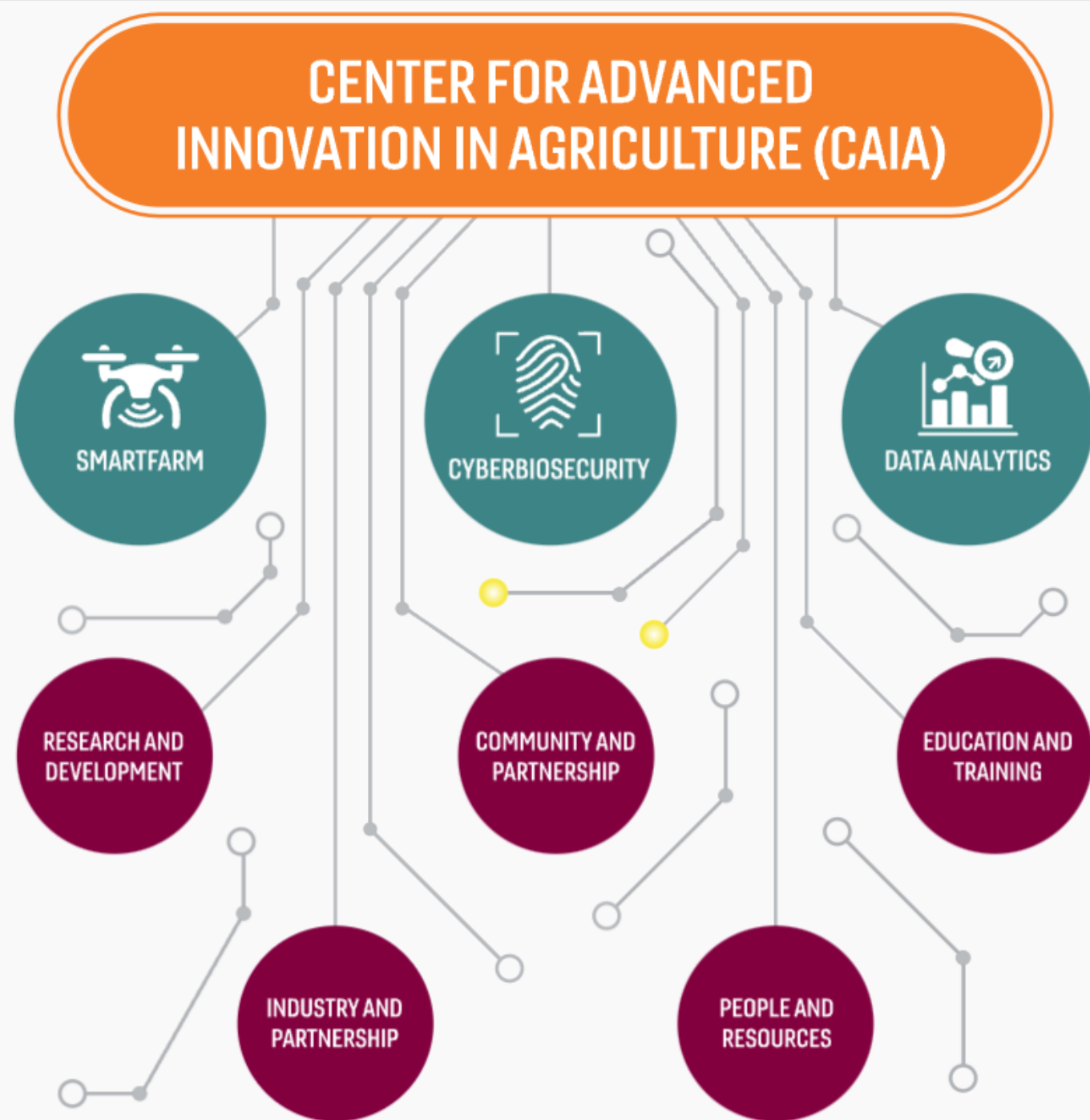
Sustainable Precision Animal Agriculture (SPAA) @ Virginia Tech

Robin R. White
rrwhite@vt.edu

Combating a Crisis

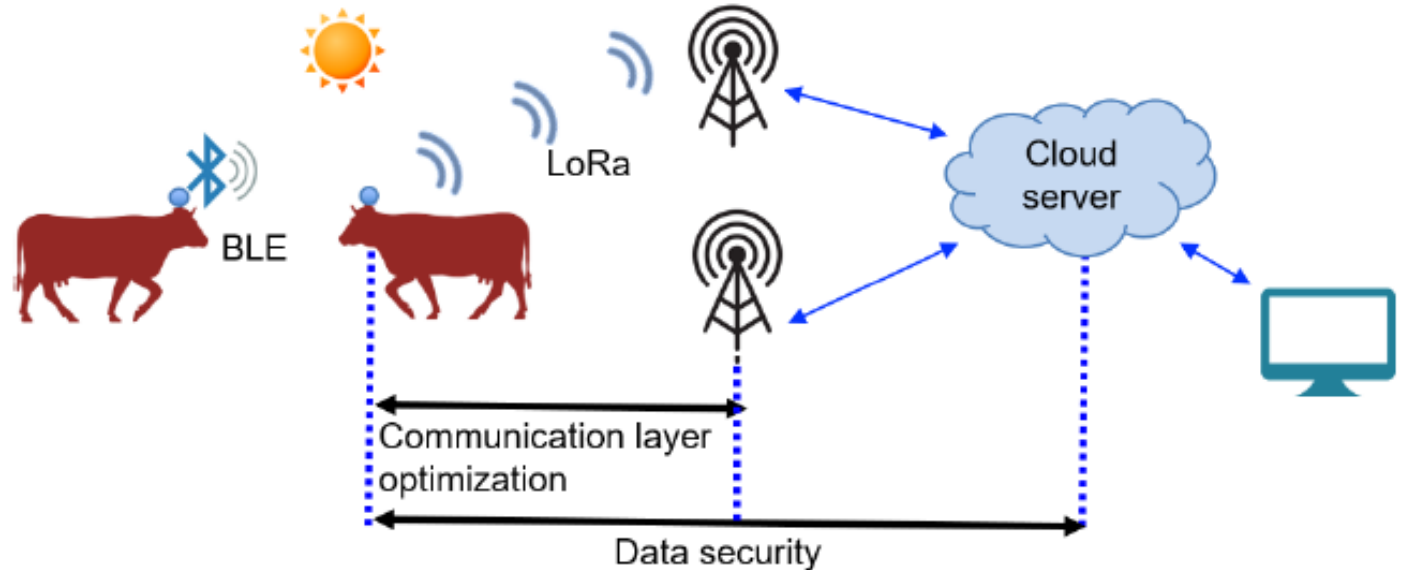


A global research leader in smart and secure agriculture technologies and data analytics for informed decisions.



Sustainable Precision Animal Agriculture

Innovating at the nexus of biology, engineering, computer science, data analytics, and social science for the purpose of advancing sustainability, resilience, policy, and management of animal-source food systems.



The Tripartite Mission

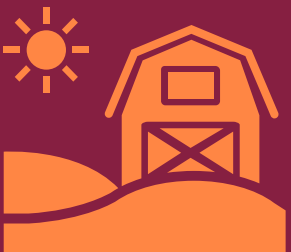


Renovating educational opportunities to:

1. Increase experiential learning
2. Build durable skills
3. Prepare graduates for new generation of agriculture careers

Solidifying the institutional excellence of Virginia Tech by:

1. Living “beyond boundaries” mantra with transdisciplinary solutions
2. Facilities and communities for talent recruitment
3. High *impact*, industry informed research



Elevating the *Ut Prosim* difference:

1. Communities of discovery (public/private)
2. Producer-inspired for affordability and accessibility
3. Inclusivity in agriculture: inspiring the next generation

SPAA Teaching Efforts



Renovating educational opportunities to:

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FST 5984—DATA ANALYTICS FOR FOOD AND AG SCIENCE SYLLABUS SPRING 202

INSTRUCTOR

Dr. Jacob Lahne (he/him)
HABB1, Office 402F
Office phone: 540-231-7428
jlahne@vt.edu
Office hours: **TBD**

COURSE DESCRIPTION

Programming, algorithmic thinking, and data analysis for research projects in food and agricultural sciences. Writing R scripts to import, clean, and wrangle data. Data visualization, exploratory data analysis, and inference using programmatic approaches.

TA

N/A

COURSE SYLLABUS APSC 2984 (VT) Animal Sensors

Instructors: Dr. Robin White
101 Food Science & Technology Building, Virginia Tech
509-701-9290
rrwhite@vt.edu

Course Rationale:

From precision livestock farming to “smart” pet technologies, the use of sensors and advanced data analytics is rapidly expanding. In order to stay current with these shifts in our industries, the future workforce will require cross-training between animal sciences, computer science, and engineering. The purpose of this course is to expose students with diverse backgrounds to the use of sensors and computation for animal monitoring applications.

SPAA Teaching Efforts



So we're targeting
the lower limb

SPAA Research Efforts

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SPAA Research Efforts



SPAA Research Efforts

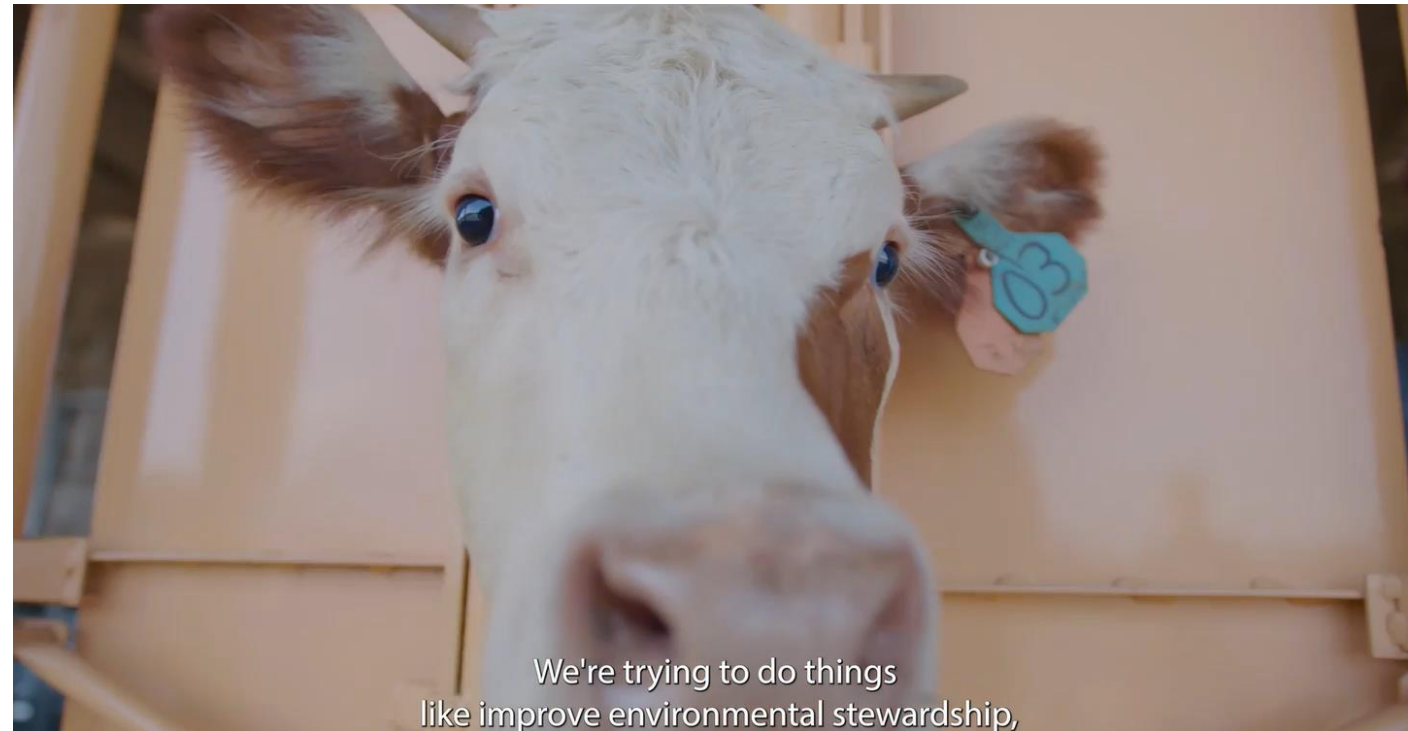


SPAA Extension Efforts



Elevating the *Ut Prosim* difference:

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We're trying to do things
like improve environmental stewardship,

SPAA Extension Efforts

Program: Women and Minorities in STEM Fields

Proposal Number: 2020-02330

Project Director: Hannah H Scherer

Proposal Title: Initiating the rural cyberbiosecurity workforce pipeline through empowering agricultural educators and supporting middle school girls

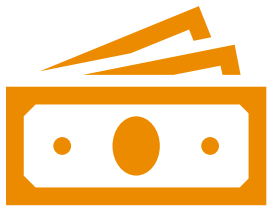


Where We Are...



- 30 faculty (COS, COE, CALS)
- Grown from CALS investment in team of 6 focused on testbed sites
- Programs very successful in obtaining federal funding over the last 12 months

... & Where We're Going



Questions/Comments

rrwhite@vt.edu