EESRB
Energy & Environmental Science Research Building
Discussion Agenda

EESRB Design Recap
1. Brief History of the Programming and Design Process
2. Current Floor Plans
3. Design Renderings
4. Construction Photos
5. Upcoming User Group Tours
6. Questions and Discussion
<table>
<thead>
<tr>
<th>Project Timeline</th>
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</thead>
<tbody>
<tr>
<td>Initial Programming</td>
<td>May 2013</td>
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<tr>
<td>Program Update</td>
<td>July 2018</td>
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<td>Request For Qualifications</td>
<td>August 2018</td>
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<td>Interview</td>
<td>October 2018</td>
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<tr>
<td>Program Verification</td>
<td>December 2018</td>
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<tr>
<td>Surge Design Phases</td>
<td>December 2018 – June 2019</td>
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<td>EESRB Design Phases</td>
<td>January 2019 – July 2020</td>
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<td>Surge Completion</td>
<td>December 2020</td>
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<tr>
<td>Anticipated EESRB Completion</td>
<td>April 2024</td>
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## Space Allocation Summary Timeline

<table>
<thead>
<tr>
<th>Section</th>
<th>Description</th>
<th>12/05/13</th>
<th>07/20/18</th>
<th>12/21/18</th>
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<tr>
<td>1.0</td>
<td>Herbert College of Agriculture</td>
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<td></td>
<td>Classrooms</td>
<td></td>
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<td></td>
<td>Informal Learning &amp; Collaboration</td>
<td>2,975</td>
<td>7,575</td>
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<td>2.0</td>
<td>Offices &amp; Dedicated Department Space</td>
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<td></td>
<td>Biosystems Engineering &amp; Soil Sciences (BESS)</td>
<td>8,180</td>
<td>8,030</td>
<td>8,785</td>
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<td></td>
<td>Entomology &amp; Plant Pathology</td>
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<td>8,523</td>
<td>8,915</td>
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<td></td>
<td>Forestry, Wildlife &amp; Fisheries</td>
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<td>16,386</td>
<td>16,395</td>
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<td></td>
<td>Plant Sciences</td>
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<td>15,670</td>
<td>14,583</td>
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<td>IACUC</td>
<td>OHP</td>
<td>OLAC</td>
<td>3,573</td>
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<td></td>
<td>Smith International Center</td>
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<td>1,500</td>
<td>1,470</td>
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<tr>
<td></td>
<td>Southern Research Station - Forest Inventory &amp; Analysis</td>
<td>9,760</td>
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<td>3.0</td>
<td>Building Support Spaces</td>
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<td>Building Support</td>
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<td><strong>Total Program NSF</strong></td>
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<td><strong>91,022</strong></td>
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<td><strong>Efficiency Ratio</strong></td>
<td>0.58</td>
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<td><strong>Total Program GSF</strong></td>
<td><strong>157,486</strong></td>
<td><strong>156,934</strong></td>
<td><strong>157,474</strong></td>
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MEETING NOTES

PROJECT NAME: UTIA Energy & Environmental Science Education Research Center
PROJECT NUMBER: 10218-03

DATE OF MEETING: October 10, 2012
MEETING LOCATION: See Meeting Schedule
PURPOSE: Program Progress Wrap-Up

PARTICIPANTS:
- Tim Forester, UTIA
- Yann McGough, UTIA
- Steve Glenshagel, UTIA
- Mike Puckett, UTIA
- Joe Cagle, UTIA
- Banu Abrahams, LAS
- Becky McDaniel, LAS
- Doug Mencitti, MIM
- Jeff Linn, NSA

EMAIL:
- tim.forester@tennessee.edu
- yann.mcgough@tennessee.edu
- steve.glenshagel@tennessee.edu
- mike.puckett@tennessee.edu
- joe.cagle@tennessee.edu
- banu.abrahams@nashville.edu
- becky.mcdaniel@architect.com
- doug.mencitti@architect.com
- jeff.linn@nashville.edu

DISTRIBUTION VIA:
- Larry Arrington, UTIA
- John Stancz, LAS
- Beni Karafintz, LAS
- Scott Web, MIM
- Jeff Linn, NSA

PRESENT: 11 (complete list in attachment. See September 10th meeting notes - 12-0860C-091012-wrap-up.doc)

REMARKS:

4. FSSB: a recently constructed building, the priority is to keep current spaces functions in FSSB rather than move them to the EESERC. The priority is to relocate existing functions in Ellington in the near EESERC.

3. Multi-Use Large Meeting Space (FSSB-growth replacement):
- May get additional funding/donations for this space, Board of Trustees meet in this space.
- The space should accommodate 500 occupant in a banquet style. The current Program accommodates 300 in lecture seating but not in banquet style – will add square footage.

6. Potential lessee from VPIA and NRC to be finalized in the near future.

7. If the budget is increased, will take additional time, approximately 6 weeks, to get approved.

8. Food Service: Currently including an area for a coffee shop – not required in our space, Mark wants to get approval.

9. Shell Space Options:
- As an option to keep initial cost down while planning for future needs, look at shifting out some space to fit-out in the future.

10. Need to make sure we are communicating with VPIA to see what we can do for them.

11. Next Steps:
- Update Space List and Space Diagrams (LAS)
- Look at reduced Program
- Program and Cost Estimate to Steve to present to Executive Committee.

ATTACHMENTS:

PREPARED BY: Barry M. Alarms, MLA
DATE PREPARED: October 22, 2012
04  May 2018 PROGRAM REVISIONS

1. Southern Research Station | Inventory & Analysis (9,760 NSF) has been removed from the program
2. Include Smith International Center (1,500 NSF)
3. Include College of Veterinary Medicine Classrooms (6,750 NSF)
4. Reduce standard Faculty Office size from 150nsf to 120nsf
5. Reduces overall sf of remaining office space by 2,220nsf [74 offices]
6. Increase Lobby size from 800nsf to 1,600nsf
7. Add 8 Small Collaboration areas for a total of 1,200nsf [150nsf each]
8. Renamed ‘Faculty-Student Commons’ to ‘Collaboration Areas – medium’; increase to 800nsf per room.
9. Increase size of Large Collaboration Space from 600nsf to 1,200nsf
10. Adjust Classroom net sf per person to 20sf for seminar, 25sf for classrooms, and 15sf for 500-person Conference Center

05 December 2018 PROGRAM REVISION SUMMARY

1. Reduced standard Faculty Office size from 120nsf to 100nsf and Technical/Part-Time Offices from 100nsf to 80nsf. Reallocated nsf to provide additional meeting spaces.
2. Revised standard lab module dimension from 10’-6” to 10’-4” to better coordinate with typical brick coursing.
3. Refined amount of Research Space for each Department and removed future lab growth.
4. Made minor updates to the quantity of offices for each department based on needs.
5. Increased size of CVM classrooms to accommodate universal access (ramps).
6. Refined Program of Surge Building.
## Exec Comm Meetings

1 – 11/5/2018 (attendees on right)
2 – 11/19/2018
3 – 12/17/2018

<table>
<thead>
<tr>
<th>Attendees</th>
<th>Departments</th>
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<tr>
<td>Dr. Tim Cross, Chancellor</td>
<td>UT Institute of Agriculture</td>
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<tr>
<td>Steve Glafenheim</td>
<td>UT Institute of Agriculture</td>
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<tr>
<td>Joe Cagle</td>
<td>UT Institute of Agriculture</td>
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<tr>
<td>Ashley Hull</td>
<td>UT Institute of Agriculture</td>
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<tr>
<td>Dan Smith</td>
<td>UT Facilities Services</td>
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<td>Thom Haeuptle</td>
<td>UT Facilities Planning</td>
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<tr>
<td>Misty Bailey</td>
<td>UT College of Veterinary Medicine</td>
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<td>Jim Thompson</td>
<td>UT College of Veterinary Medicine</td>
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<tr>
<td>Juan Jurat-Fuentes</td>
<td>UT Entomology &amp; Plant Pathology</td>
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<td>Karen Vail</td>
<td>UT Entomology &amp; Plant Pathology</td>
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<tr>
<td>Heather Means</td>
<td>UT College of Animal Sciences</td>
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<td>Scott Schlarbaum</td>
<td>UT Forestry, Wildlife &amp; Fish</td>
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<td>Jennie Swanson</td>
<td>UT Forestry, Wildlife &amp; Fish</td>
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<tr>
<td>Michael Essington</td>
<td>UT Biosystems Engineering &amp; Soil Sciences</td>
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<tr>
<td>Jake Nelson</td>
<td>UT Plant Sciences</td>
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<td>Annette Wszelaki</td>
<td>UT Plant Sciences</td>
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<tr>
<td>David Anderson</td>
<td>UT Large Animal Clinical Sciences</td>
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<td>Melissa Hines</td>
<td>UT Large Animal Clinical Sciences</td>
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<td>John Starr</td>
<td>Lord Aeck Sargent (LAS)</td>
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<tr>
<td>Kelly Headden</td>
<td>BarberMcMurry Architects (BMA)</td>
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<td>Angela Berrier</td>
<td>BarberMcMurry Architects (BMA)</td>
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Program Verification
Meetings

1 – 11/14-16/2018 (attendees on right)
2 – 11/27-29/2018
3 – 12/11-12/2018

PS
Steve Glafenhein
Joe Cagle
Thom Haupute
Dan Smith
Andy Pulite
Scott Senseman
David Butler
Jake Nelson
Dawn Seigel
John Sorochan
John Starr
Ben Elliott
Kelly Headden

Annex B
Steve Glafenhein
Joe Cagle
Thom Haupute
Dan Smith
Scott Sclairbaum
Joe Sarten
Bobby Simpson
John Starr
Ben Elliott
Brian Karlowicz
Kelly Headden

UT Institute of Agriculture
UT Institute of Agriculture
UT Facilities Planning
UT Facilities Services
UT Forestry & Wildlife
UT Ag Research
UT ETREC
Lord Aeck Sargent (LAS)
Lord Aeck Sargent (LAS)
BarberMcMurry Architects (BMA)

BESS
Steve Glafenhein
Joe Cagle
Thom Haupute
Dan Smith
Michael Essington
Julie Carrier
Haur Abdoulooumoune
Sindhu Jagadamma
Andrew Sherfy
Jeehoon Lee
Philip Ye
John Starr
Ben Elliott
Kelly Headden

UT Institute of Agriculture
UT Institute of Agriculture
UT Facilities Planning
UT Facilities Services
UT Biosystems Engineering/Soil Science
UT Biosystems Engineering/Soil Science
UT Biosystems Engineering/Soil Science
UT Biosystems Engineering/Soil Science
UT Biosystems Engineering/Soil Science
UT Biosystems Engineering/Soil Science
Lord Aeck Sargent (LAS)
Lord Aeck Sargent (LAS)
BarberMcMurry Architects (BMA)

OLAC/IACUC/OHP
Steve Glafenhein
Joe Cagle
Thom Haupute
Dan Smith
Brian Smaith
Ben Edendfield
Michael McIntee
Elizabeth Bailey
Frankie McCinnis
Jerri O'Rourke
Bryce Burton
Amy Knowles
Steve Crouch
John Starr
Ben Elliott
Brian Karlowicz
Kelly Headden

UT Institute of Agriculture
UT Institute of Agriculture
UT Facilities Planning
UT Facilities Services
UT Biosafety
UT CVM
UT CVM
UT IACUC
UT IACUC
UT OLAC
UT OHP
UT Safety Office
Lord Aeck Sargent (LAS)
Lord Aeck Sargent (LAS)
BarberMcMurry Architects (BMA)

EPP
Steve Glafenhein
Joe Cagle
Thom Haupute
Dan Smith
Darrell Hensley
DeWayne Shoemaker
Karen Vail
Zach Hansen
John Starr
Ben Elliott
Brian Karlowicz
Kelly Headden

UT Institute of Agriculture
UT Institute of Agriculture
UT Facilities Planning
UT Facilities Services
UT Entomology & Plant Pathology
UT Entomology & Plant Pathology
UT Entomology & Plant Pathology
UT Entomology & Plant Pathology
Lord Aeck Sargent (LAS)
Lord Aeck Sargent (LAS)
BarberMcMurry Architects (BMA)

FWF
Steve Glafenhein
Joe Cagle
Thom Haupute
Dan Smith
Scott Sclairbaum
Jennie Swanson
Lisa Muller
John Starr
Ben Elliott
Kelly Headden

UT Institute of Agriculture
UT Institute of Agriculture
UT Facilities Planning
UT Facilities Services
UT Forestry & Wildlife
UT Forestry & Wildlife
UT Forestry & Wildlife
Lord Aeck Sargent (LAS)
Lord Aeck Sargent (LAS)
BarberMcMurry Architects (BMA)

HCA/CVM
Steve Glafenhein
Joe Cagle
Thom Haupute
Dan Smith
Shelley Olin
Ricardo Videla
John Schafer
John Stier
Claudia Kirk
Bob DeNovo
John Starr
Ben Elliott
Brian Karlowicz
Kelly Headden

UT Institute of Agriculture
UT Institute of Agriculture
UT Facilities Planning
UT Facilities Services
UT CVM
UT CVM
UT CVM
UT Ag Science & Natural Resources
UT CVM
UT CVM
Lord Aeck Sargent (LAS)
Lord Aeck Sargent (LAS)
BarberMcMurry Architects (BMA)

+ ITS, MEP, SIC, Surge, Task Force
Project Summary

1 PROJECT – 2 BUILDINGS
$77.77M – Total Construction Budget

EESRB

- 5 Story - 157,500 gsf building
  - Research Labs + Lab Support
  - Teaching Labs + Prep Support
  - Department Suites
  - Faculty Offices
  - Graduate Assistant Write-Up Areas
  - 500 Person Auditorium
  - Tiered Lecture Halls (130 Person)
  - Classrooms (30 – 100 Person)

- Replaces an Existing Research Building
- Anticipated Completion – March 2024

Surge Building

- 2 Story - 20,000 gsf building
  - Research Labs + Lab Support
  - Faculty Offices (Private + Open)
  - Graduate Assistant Write-Up Areas

- Provides Swing Space during Construction
- Completion – December 2020
EESRB Program Summary

EESRB Program

- Herbert College of Agriculture (HCA) —— 500P Auditorium, Classrooms, Seminar Rooms
- 4 Departments
  - Biosystems Engineering and Soil Science
  - Plant Sciences
  - Forestry, Wildlife, and Fisheries
  - Entomology and Plant Pathology
  - Compliance Group
  - Smith International Center
  - College of Veterinary Medicine
- Public Areas
- Research Labs + Lab Support
- Teaching Labs + Prep Support
- Shared Equipment Areas
- Department Suites + Storage Needs
- Faculty Offices + GRA Write-Up Areas
- Office Suite
- Office Suite
- (2) 130 Person Tiered Lecture Halls
- Collaborative Areas, Living Room, Café
## Space Comparison

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<thead>
<tr>
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<th>Ellington</th>
<th>EESRB</th>
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<tr>
<td>Private Offices</td>
<td>89</td>
<td>116</td>
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<td>Classroom</td>
<td>7</td>
<td>15</td>
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<td>Research Labs</td>
<td>32</td>
<td>25</td>
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<td>Teaching Labs</td>
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<td>4</td>
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<tr>
<td>Informal Learning Seats</td>
<td>40</td>
<td>325</td>
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*Includes GRAs*

*Does not include GRAs*

*Includes CVM*
## Research Lab Space Growth

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<th>Research Lab NSF Proposed</th>
<th>Existing Ellington Research Lab NSF Total</th>
<th>% Increase</th>
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<td>BESS</td>
<td>6,200</td>
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<td>3,565</td>
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<td><strong>Sub-Totals</strong></td>
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<td>SURGE</td>
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<td><strong>Total</strong></td>
<td><strong>26,170</strong></td>
<td><strong>13,278</strong></td>
<td><strong>97%</strong></td>
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Design History  -  UTIA Masterplan
Floor Plans by Space Type
Floor Plans by Department
Ground Floor Department Plan
First Floor Department Plan
Third Floor Department Plan
Fourth Floor Department Plan
Exterior Design Renderings
FIRST FLOOR PLAN
LIVING ROOM
UPPER LEVEL FLOOR PLAN

GAP – WALL DISPLAY

WALL GRAPHIC | DISPLAY MONITOR
VIEW WINDOW | DISPLAY CASE
WALL GRAPHIC | DISPLAY MONITOR

VISUAL DISPLAY BOARD
Construction Photos
Construction Photos
Construction Photos
Construction Photos
Construction Photos
Construction Photos
Upcoming User Group Tours

- Friday, October 27\textsuperscript{th} @ 2:30pm
- Monday, October 30\textsuperscript{th} @ 3:00pm

Meeting location at the project trailer

Proper PPE is required.
- Vest and hardhats will be provided
- No shorts, skirts or open-toed shoes
Thank you!

Discussion