CEAS - All Hands Meeting

February 5, 2021
Announcements
Mid-engine Corvette - Engineering the 8th generation
featuring, Tadge Juechter, Executive Chief Engineer at GM for the Corvette

Thursday, February 25, 2021 at 5:30 pm
Virtual Event - Registration Required
For more information visit -WMich.edu/engineer/eweek
You are invited to tour the CEAS Annex on Kilgore Rd. on May 19, 2021.

BCRC facility walking-tour will consist of demonstrating the following:

1. **The United States only Dynamic Wind Uplift Table**
   Equipment that can simulate wind pressures associated with hurricanes and tornadic events

2. **Load Frame**
   Cyclic loading of shear walls associated with high wind/seismic loading events

3. **Instron:**
   Tensile testing equipment to test coupon/samples

4. **Tour** support facility space such as conference room, office space, etc.

5. During the walking-tour, we will discuss our current grant proposal submittal and our internal research as well as equipment validation testing

6. **Refreshments will be provided**

7. Tours are approximately 1 hour long and will run at 9am, 10:15 am, 11:30am, 1 pm, 2:15pm, 3:30pm, and 5pm.

Time slots and capacity is limited- 10 people maximum per tour so please include the number in your party when requesting a time slot. Please email tour requests to Tina Sivewright at Christina.r.gibson@wmich.edu. Thank you!
New Faculty and Staff
New Staff Member

Dean’s Office

Tamara Webb
Enrollment Assistant
Endowments

The John O. Hallquist Endowed Professorship in Mechanical and Aerospace Engineering - #1
$1 Million - to honor a tenure track faculty member with a rank of associate professor or higher

The John O. Hallquist Endowed Professorship in Mechanical and Aerospace Engineering - #2
$1 Million - to recruit a tenure track faculty member with a rank of associate professor or higher

B.S. in Industrial Engineering magna cum laude, 1970

(MS and PhD in ME from Michigan Tech)
Thank you Allin, Holly and Mike!

Western Michigan University
College of Engineering and Applied Sciences

Thank you, John Hallquist

Thanks to your generosity, the John C. Hallquist Endowed Professorships in Mechanical and Aerospace Engineering have been created. These are the first two endowed professorships at Western Michigan University’s College of Engineering and Applied Sciences. The endowed professorships provide an enduring source of high quality faculty talent that enhances and elevates the academic mission by providing exceptional teaching and mentorship to students.
Robert R. and Rhea B. Corrion Scholarship for Industrial and Entrepreneurial Engr
$255,144 – priority to non-traditional students

BS Industrial Distribution 1964
MS Industrial Supervision 1971
Robert R. and Rhea B. Corrion Scholarship for Engineering Student Teams
$255,144 - preference to solar team projects (Sunseeker)

BS Industrial Distribution 1964
MS Industrial Supervision 1971
New Opportunity

Interdisciplinary Team Excellence Enhancement Grant (ORI)

Deadline: March 22, 2021

Purpose of the RFA:
Creation of interdisciplinary research and creative scholarship groups around any topic that is likely to be supported by future external funding such as federal, state and private funding. Pre-existing groups may also apply.

Eligibility:
Any full-time tenured or tenure track faculty member(s) may apply on behalf of the group.

The group should have a minimum of 8 participating faculty and can include research and administrators with PI eligibility. The 8 “core” members must be affiliated with Western Michigan University, but members from outside WMU such as community groups, state agencies, national laboratories, W Med, etc. are also allowed.

Up to $100,000, must be used to support a series of activities with the goal to enhance interdisciplinary activities at WMU.

Up to $250,000 of additional funds can be requested for equipment purchase, repair and installation.
ENROLLMENT
### Spring Enrollments

#### WMU Headcounts

<table>
<thead>
<tr>
<th></th>
<th>Spring 2020</th>
<th>Spring 2021</th>
<th>difference</th>
<th>% difference</th>
</tr>
</thead>
<tbody>
<tr>
<td>Undergraduate</td>
<td>15,400</td>
<td>14,422</td>
<td>-978</td>
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<tr>
<td>Graduate</td>
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<td>3,769</td>
<td>-323</td>
<td>-7.9%</td>
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<tr>
<td>Total</td>
<td>19,492</td>
<td>18,191</td>
<td>-1,301</td>
<td>-6.7%</td>
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</tbody>
</table>

#### CEAS Headcounts

<table>
<thead>
<tr>
<th></th>
<th>Spring 2020</th>
<th>Spring 2021</th>
<th>difference</th>
<th>% difference</th>
</tr>
</thead>
<tbody>
<tr>
<td>Undergraduate</td>
<td>2,097</td>
<td>1,969</td>
<td>-128</td>
<td>-6.1%</td>
</tr>
<tr>
<td>Graduate</td>
<td>393</td>
<td>319</td>
<td>-74</td>
<td>-18.8%</td>
</tr>
<tr>
<td>Total</td>
<td>2,490</td>
<td>2,288</td>
<td>-202</td>
<td>-8.1%</td>
</tr>
</tbody>
</table>
## Fall and Spring Enrollments

### CEAS Headcounts – FALL

<table>
<thead>
<tr>
<th></th>
<th>Fall 2019</th>
<th>Fall 2020</th>
<th>difference</th>
<th>% difference</th>
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</thead>
<tbody>
<tr>
<td>Undergraduate</td>
<td>2,348</td>
<td>2,204</td>
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<tr>
<td>Graduate</td>
<td>463</td>
<td>363</td>
<td>-100</td>
<td>-21.6%</td>
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<tr>
<td>Total</td>
<td>2,811</td>
<td>2,567</td>
<td>-244</td>
<td>-8.7%</td>
</tr>
</tbody>
</table>

### CEAS Headcounts - SPRING

<table>
<thead>
<tr>
<th></th>
<th>Spring 2020</th>
<th>Spring 2021</th>
<th>difference</th>
<th>% difference</th>
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Preparations for Fall 2021

• **Good News**: Applications for Fall 2021 are up

• Moving into the next steps: *Yield and Retention*

• Tours in building are ramping up (one family at a time)

• How can we help?
  o Encourage students to enroll in classes
  o Engage with students and families
  o Clean up labs
Outstanding RSO Advisor Award
Outstanding RSO Advisor Award

Colin MacCreery
Computer Club
Outstanding RSO Advisor Award
Outstanding RSO Advisor Award

Brad Bazuin
Sunseeker
Outstanding Student Success Award
Outstanding Student Success Award

Tammi Smith
Outstanding Full Time Teaching and Mentoring Award
Outstanding Full Time Teaching and Mentoring Award

Decker Hains
Outstanding Part Time Teaching and Mentoring Award
Outstanding Part Time Teaching and Mentoring Award

Dania Alsaid
SRM Budget Model Update

(SRM = Strategic Resource Management)
SRM Budget Model

Information and Resources

• SRM Guiding Principles: https://wmich.edu/budgetmodel/principles

• SRM Rules: https://wmich.edu/budgetmodel/rules

• SRM is running in parallel with current model in 2020-2021:

• Official start in 2021-2022 (FY22)
  – units held harmless
Guiding Principles

1. Accountability
2. Adaptability
3. Balance
4. Central Funds Investment
5. Collaboration
6. Communication
7. Data
8. Full Cost
9. Governance
10. Incentives
11. Negative Outcomes
12. Predictability
13. Simplicity
14. Transparency
Revenue Allocation
• State appropriation allocated by college of primary program based on head count
• Undergraduate tuition allocated 100% to college of instruction based on student cr hrs
• Graduate tuition allocated to college of program of study based on head count
• Differential tuition allocated to college assessing the tuition
• Assigned Revenues (i.e., course fees, departmental revenues) allocated directly to unit

Cost Allocation
• Direct operating expenses will be allocated directly to each responsibility unit
• Costs for space, including maintenance, custodial services, utilities purchased and debt service, will be allocated based on net assignable square footage unless it is included as a direct expense to a unit
• Shared business resource space and unassigned space will be included in the central pool but shown as separate categories of space
• General fund service unit expenses (indirect expenses allocation) will be allocated to the college RUs and auxiliary units as part of the University Participation Assessment

University Participation Assessment = Tax = 42.81%

Strategic investment Allocation = Subvention = strategic rebalance of revenues
Interdisciplinarity @ WMU Update
Provost’s Call to Action

Using interdisciplinarity as our guide, we will reimagine and restructure Academic Affairs at WMU with an emphasis on replacing single-focus programs with collaborative, multi-disciplinary programs that solve complex, interconnected problems. This will:

- Enhance learning and discovery
- Create sustainable programs
- Balance workload
Information and Resources

• **Webpage:**  https://wmich.edu/interdisciplinarity

• **Provost’s Town Hall Slides:**
  https://wmich.edu/sites/default/files/attachments/u607/2020/Interdisciplinarity%202020.pdf

• **Online submission form:**
  https://wmich.edu/interdisciplinarity/proposals
Interdisciplinarity @ WMU

- CEAS Programs are Interdisciplinary by Design

- Examples of CEAS involvement outside of Floyd Hall
  - Cybersecurity
  - Data Science
  - Product Design and Innovation
  - Integrated Supply Management
  - Interdisciplinary PhD in Evaluation
  - Medical Engineering (and Biomedical Engineering proposal)
To meet the call

1. How can we better position or restructure our current processes, programs, courses, research, and service activities to better align with the size of our current faculty and funding?

2. How can we use the New Budget Model to support growth in our students, faculty, and staff through new strategies and potential restructuring?

Call for proposals with potential to:

- Enhance Teaching and Learning
- Promote Outstanding Scholarly Activities
- Increase Efficiencies and/or Decrease Costs

Consider Strategies at:

Course Level -- Program Level -- Unit Level -- College Level -- Institution Level
Timeline for the proposal process:

• Submission of **Round 1 proposals by February 22, 2021**. (online form is available)

• All proposals will be reviewed by our college-level committee and by the Academic Affairs committee.

• The Academic Affairs committee will consider feedback and recommendations from college-level committee and will **invite full proposals in mid-March**, with an **anticipated submission deadline in April**.

• Full proposals recommended for implementation will then be submitted for final approvals according to current governance practices.
Industry 4.0 refers to the means of automation and data exchange in manufacturing technologies including Cyber-Physical Systems, Internet of Things, big data and analytics, augmented reality, additive manufacturing, simulation, horizontal and vertical system integration, autonomous robots as well as cloud computing.

“Smart” __________
Energy consumption is constantly on the rise in the US and around the world. The world continues to need a reliable and affordable energy supply. This is increasingly recognized to require an increase in the number of sources of power, and more ways to store the power. In addition, power is always a national security issue, and the US needs to secure our electricity grid as well as assure it is up to date and stable.

- Energy Storage
  - Fred Upton - House committee on Energy and Commerce
  - Chairman of Subcommittee on Energy

- Grid Modernization
  - Stabenow - Committee on Energy and Natural Resources

- End Use

- Efficiency
  - Granholm - Department of Energy
  - Secretary (?)

- Environmental Impacts

- Renewable Energy

- Sustainability

- Security

- ?
  - Peters - Committee on Commerce, Science, and Transportation
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