CoSE All College Meeting
August 15, 2022
Welcome!

Provost Valerie Martin Conley
ISU Strategic Plan

Integrity
Honesty in our actions and words

Community
Fostering connections

Inclusivity
Valuing all and building a culture of belonging

Teamwork
Collaborating with compassion and respect

Shared Responsibility
All contributing to our success

Learning
Continuous growth and development
Reflections on higher education

• Our institutional reason for being is to educate/mentor students
• We prepare them for better lives for themselves and their families
• Large portions of our population should be able to see a college education as a pathway to a better life, rather than something that is restricted from them
• We collectively must emphasize the value of a college education
A downward trend continues

Even as Idaho spends millions of dollars on scholarships, incentives and programs to encourage high school graduates to continue their education, the state's "go-on rate" has fallen for four successive years. Here's a look at the "immediate" fall enrollment rate since 2014.

From: Idaho Education News
Reflections on higher education

• In the face of a demographic cliff successful institutions will be nimble and student focused
• Teaching and mentoring are directly informed by our research
• Research leads our faculty and students to discover new knowledge and applications
• This combination of quality education and novel research contributes to our students and society
Reflections on higher education at CoSE/ISU

• Our faculty and staff are committed to the education and success of our students
• Our students come to us as they are, not as we wish them to be
• Today’s students are more outcome oriented than previous generations
• To attract and retain students we need to tie an ISU education to tangible future opportunities
• Our curriculum should reflect an innovative and interdisciplinary world
Reflections on higher education at CoSE/ISU

- Covid has been disruptive
- Disruption causes anxiety
- Disruption also allows opportunity
- We need to practice kindness to our students and to ourselves
- At the same time we need to ask how we seize opportunities to change and improve
- As a college our power lies in our ability to transform the lives of our students
Our shared success

• Commitment to diversity and inclusion
  • 50% of TT hires in the past 4 years are women
  • Represents a net gain of 7 women
  • STEM IS U

• Supporting student success by adding three professional academic advisors during the past 3 years

• New cybersecurity certificate attracted 32 students in its first year

• New BS and MS degrees in Computer Engineering

• Enrollment is up in CS & ECE
Reflections on our shared success

• First ever ISU Disaster Preparedness and Response Conference unites CoSE, INL, CoH, and CoT
• Outreach to K-12 has resumed in earnest
• Successful line item request to add faculty to Nuclear Engineering
• CoSE faculty receive prestigious early career awards
  • Dr. Devaleena Pradhan—NSF CAREER
  • Dr. Kristin Lane—NIH New Innovator
  • Dr. Amir Ali—NRC Faculty Development
Reflections on our shared success

- Biology & Chemistry collaborate on $1.5 M NSF S-STEM award for transfer students
- Over $1 M in awards from NRC last year
- Partnership with INL is particularly strong
  - 7/9 CoSE departments with funded collaborations
  - ~$1.7 M in awards
- Substantial investment in start up packages is paying off!
Research Activity

Awards and Submissions

<table>
<thead>
<tr>
<th>Fiscal Year</th>
<th>Total Awards</th>
<th>Total Submissions</th>
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<tbody>
<tr>
<td>FY18</td>
<td>54</td>
<td>87</td>
</tr>
<tr>
<td>FY19</td>
<td>73</td>
<td>119</td>
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<tr>
<td>FY20</td>
<td>74</td>
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<td>FY21</td>
<td>85</td>
<td>104</td>
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<tr>
<td>FY22</td>
<td>80</td>
<td>97</td>
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Research Activity

Awards

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<tr>
<th>Year</th>
<th>Requested</th>
<th>Awarded</th>
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<tbody>
<tr>
<td>FY18</td>
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<td>FY20</td>
<td>$16.5</td>
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<tr>
<td>FY21</td>
<td>$19</td>
<td>$9.3</td>
</tr>
<tr>
<td>FY22</td>
<td>$26.3</td>
<td>$8.6</td>
</tr>
</tbody>
</table>
Top 10 Funding Agencies

- National Science Foundation
- Battelle Energy Alliance/ INL
- US Nuclear Regulatory Commission
- Idaho Department of Environmental Quality
- National Institutes of Health
- Idaho Department of Health and Welfare
- Idaho State Board of Education
- US Department of the Interior
- US Department of Energy
- US Department of Agriculture
College Updates
New Faculty
Searches since Fall 2019

Faculty other than Tenure Track

Biology
• Eliezer Schwarz
• Mary ‘Susan’ Marion
• Michael Swenson
• Sherry Adams

Chemistry
• Andrew Bernard
• Kate McMurtrey
• Necoline “Lena” Allen

Computer Science
• Larry Leibrock
• Jason Wright

Geology
• Ryan Anderson

Mathematics & Statistics
• Bryan Barclay
• Caleb Eknoian
• Crystine Chipman
• Daniel Korytowski
• Michael Marion
• Ronald Gonzales
New Faculty Searches since Fall 2019

Tenure Track

Biology
• Anirban Chakraborty
• Anna Grinath
• Brandon Peecook
• Heather Ray
• Josh Grinath
• Kathryn Turner
• Kristin Lane
• Rebecca Hale

Computer Science
• Farjana Eishita
• Leslie Kerby
• Minhaz Zibran

Elect & Comp Engineering
• Andrew Chrysler
• Mostafa Fouda
• Yaodan “Cindy” Hu

Mathematics & Statistics
• Jake Rhodes
• Patrick Rault

Geosciences
• Kendra Murray
• Kurt Sundell

Chemistry
• Cori Jenkins
• Leslie Nickerson

Mechanical Engineering
• Taher Deemyad
• Rajib Mahamud
Dean’s Office Update

- Dr. Rene Rodriguez, Associate Dean
- Dr. Patrick Rault, Chair of Mathematics & Statistics
- Dr. Marco Shoen, Chair of Mechanical Engineering
- Ms. Kirsten Broughton, Senior Accountant
- Mr. Logan McDougall, Exec Dir College Relations
- Mr. Cameron Brooks, Senior Director of Development
- Mr. Darin Rieske, Administrative Assistant
Development Update
STEM is U

- Scholarship program initiated in 2019
- Originally intended to support underrepresented groups
- Rewritten for state and federal compliance
- Umbrella scholarship that includes:
  - Thomas Ioerger Scholarship—$500,000 endowment pledged, supports one student for four years
  - North Wind Group—initial tranche of $60,000 endowed
  - Phoenix Copper—$3,000 annual, planned future endowment
  - STEM IS U—annual $33,000
Scholarships

-$2,604,569$ in scholarships for CoSE majors for AY 2021-22
-
Over $4$ M in scholarship endowments plus $500,000$ in pledges

Notable Scholarship Endowments
-
Thomas Sherwood Memorial $263,045$
-
The John and Mabel Brannelly Memorial $117,271$
-
Meadows Memorial Endowment $205,723$
-
James Morris Stream Ecology Endowment $693,161$
Dean’s Excellence Fund

• Current, non-endowed balance of $169,000
• Used to support a variety of student needs (e.g., tuition, books, research support) on an ad hoc basis
• We are seeking input on a more systematic way to support student enrollment and retention
• Please provide suggestions to Cam
CoSE Development Priorities

• Continue to boost scholarship support
• Identify and expand the donor base
• Develop industry partnerships for student support, internships, research projects & tech transfer
• Solicit funds for CoSE facilities and equipment
• Solicit funds for endowed professorships
• Please provide contacts to Cam
Outreach update

What we’ve done

• Revamped “What’s Happening...” Debuted in Feb.

• Started ISU STEM Connections in March

• Outreach events
  • CSI Transfer Fair
  • Bingham County Career Fair
  • CoT Tech Expo
  • Bengal Visit Day

• Joined LinkedIn in December 2021
Total Followers by Social Channel

Data as of August 5, 2022
Outreach update

• What can you do to help?
• Keep content/story ideas flowing
  • 28 news releases sent by CoSE in last year
• Participate in outreach events
• Follow, like, and share!
FY23 CEC (Change in Employee Compensation)

- Across the board 3% increase
- Hourly and annual minimum increases
  - Hourly minimum to $13
  - Annual minimum for exempt employees to $42,500
- Merit/Market increases

<table>
<thead>
<tr>
<th>ISU FY23 CEC Distribution Matrix for Classified Staff, Non-Classified Staff, and Faculty</th>
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</thead>
<tbody>
<tr>
<td>Compa-Ratio/Market Comparison</td>
</tr>
<tr>
<td>-------------------------------</td>
</tr>
<tr>
<td>At or above market/midpoint</td>
</tr>
<tr>
<td>85 - 99%</td>
</tr>
<tr>
<td>80 - 84.99%</td>
</tr>
<tr>
<td>75 - 79.99%</td>
</tr>
<tr>
<td>Less than 75% market/midpoint</td>
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</tbody>
</table>
Budget Overview

- CoSE appropriated budget for FY23 is $16,813,350
- Local budget of $1 million
  - Most of this is class fee revenue (self-balancing)
  - Includes ~$350,000 of F&A return
    - 1/3 passed through directly to originating department
    - 2/3 retained at college level to support
      - Departmental research support block grants
      - Continuing faculty start-up
      - CoSE IT
Budget Overview

• Grant Expenditure of $5,000,000 (approximate)
• Planned vacancy savings will be used to meet operational needs, including:
  • New faculty start-up
  • Moving expenses for new faculty
  • Adjunct support
  • Computer & Software support
  • Other internal strategic investments
• Strategic Investment Fund (from vacancy savings) ~$400,000
Strategic Investment – Big Ideas Wanted

- Interdisciplinary
- Innovative
- Transformative
- Sustainable
- Curriculum
- Pedagogy
- Research
- Mentoring
- Supports student enrollment & success
- Supports faculty and staff success
- Supports external funding
Strategic Investment – Big Ideas Wanted

- Talk to your colleagues
- Think big
- Proposal mechanism announced soon
- Please remember funds must be expended by June 30, 2023
Facilities Updates

• Dean’s Office new location-PSC 120
• Computer Science faculty offices—Colonial Hall second floor
• Renovation of PSC 106 is complete and is now the CS & ECE lab and grad student space
• Renovation of PSC 107 is complete and is Physics & general CoSE grad student space
• Renovation of LC 110 to be completed by end of August 2022
Facilities Updates

• Campus-led renovation for new student lounge in PSC 129 begins in August 2022

• Campus-led renovation for student lounge in PSC 204 underway, completed September 2022

• Campus-led renovation of Colonial Hall (Time frame TBD)
  • Bathrooms and Hallways
Facilities Updates

• College faces substantial additional needs for research space
  • GLS is near the end of functional life
  • Research space in IF is inadequate
  • Faculty demographics indicate additional need for research space, particularly for Engineering
• Current pre-programming effort on the IF campus
• Likely PBFAC request for funds for basement of PSC and the high bay in Lillibridge
• AA is requesting a CoSE list of teaching spaces for potential upgrade
On the Horizon

- Resumption of Donuts with the Dean
- ABET Accreditation year of record
- Potential Line Items FY24
  - Cybersecurity/Computer Science
  - Nuclear Energy
- New faculty mentoring program
- Progress towards CoSE strategic plan
- Data-informed enrollment management
  - College continues to face enrollment challenges
Communication

- Reach out
  - Colleagues
  - Chair
  - Associate Deans and Dean
- Invite the dean to a student group, research group or departmental meeting
- Share your success stories
- We all want what is best for our students and ISU
All College Reception

Meet at Goody’s
Pizza & soft drinks provided
No host bar
Q & A