Faculty Senate Update
Christopher G. Maples, Interim Chancellor
October 18, 2018
FOR TODAY’S MEETING

- Chris will cover:
  - Enrollment outlook
  - Strategic plan compacts
    - Student Success
    - Research and Scholarly Works
- Robert will cover:
  - Leadership updates
  - Leveraging internal resources for strategic goals
FALL 2018 BY THE NUMBERS
8,607 students: 6,848 undergrads and 1,759 grads

74% Missourians
16% out-of-state
10% international

76% men
24% women

74% white
14% minority
10% international
2% not specified
OUTLOOK FOR FUTURE ENROLLMENT

(16%) White, non-Hispanic
(14%) Black, non-Hispanic
64% Hispanic
23% Asian/Pacific Islander

Figure 7. Actual and projected numbers for public high school graduates, by race/ethnicity: School years 1997–98 through 2022–23
OUTLOOK FOR FUTURE ENROLLMENT

- Will have to recruit in different places
- Will have to recruit differently
- Will have to recruit different populations

Figure 8. Projected percentage change in the number of public high school graduates, by state: School years 2009–10 through 2022–23
NEW STRATEGIC PLAN

- Student Success
- Research and Creative Works
- Engagement and Outreach
- Inclusive Excellence
- Planning, Operations, and Stewardship

“To think creatively, we must be able to look afresh at what we normally take for granted.”

George Keller
STUDENT SUCCESS: WHERE WE ARE

6-YEAR GRADUATION RATES

Technological Research Universities

- MIT: 94%
- California Inst. of Tech.: 89%
- Georgia Inst. of Tech.: 89%
- Renselaer Polytechnic Inst.: 85%
- Stevens Inst. of Tech.: 83%
- Colorado School of Mines: 83%
- Clarkson University: 78%
- Illinois Inst. of Tech.: 74%
- Michigan Technological Univ.: 72%
- New Jersey Inst. of Tech.: 67%
- Missouri S&T: 64%
- Florida Inst. of Tech.: 64%
- U of Alabama-Huntsville: 60%
- New Mexico Inst. Mining & Tech.: 49%
- Others: 42%
STUDENT SUCCESS: WHERE WE ARE

4-YEAR GRADUATION RATES

Technological Research Universities

- MIT: 85%
- California Inst. of Tech.: 82%
- Rensselaer Polytechnic Inst.: 79%
- Clarkson University: 61%
- Colorado School of Mines: 58%
- Florida Inst. of Tech.: 55%
- Stevens Inst. of Tech.: 43%
- Georgia Inst. of Tech.: 42%
- Illinois Inst. of Tech.: 39%
- Michigan Technological... 32%
- New Jersey Inst. of Tech.: 28%
- Missouri S&T: 28%
- U of Alabama-Huntsville: 23%
- New Mexico Inst. Mining &... 23%
- New Mexico Inst. Minining &... 20%
RESEARCH PROFILE: WHERE WE ARE

RESEARCH EXPENDITURES (IN MILLIONS)

Technological Research Universities

<table>
<thead>
<tr>
<th>Institution</th>
<th>Expenditures (in millions)</th>
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<tbody>
<tr>
<td>MIT</td>
<td>946</td>
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<tr>
<td>Georgia Inst. of Tech.</td>
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<td>New Jersey Inst. of Tech.</td>
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<td>Clarkson University</td>
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RESEARCH PROFILE: WHERE WE ARE

RESEARCH EXPENDITURES PER FACULTY MEMBER, ENGINEERING

Technological Research Universities
RESEARCH GOALS FOR 2023

> R1, highest classification in Carnegie Classification
> Raise S&T’s research profile
> Leverage external partnerships & inter-institutional collaborations within UM System & beyond
> 10 faculty receive nationally recognized awards (e.g., NSF CAREER awards, National Academies, etc.)
> $70M annual research expenditures
> 750 Ph.D. enrollment
> Increase citations by 15%, publications by 10%
> New nationally recognized, externally funded research centers
RESEARCH SUCCESS: HOW WE WILL IMPROVE

> Post-doctoral scientists serve as PIs on research projects
  • Successful post-docs transition to Research NTT Faculty
> Increase number of Research NTT Faculty
> Creative programs for faculty support
  • S&T Agility Program
> Break away from sameness of workload
  • My experience: really good researchers want time and ability to build programs
  • Distribute workload to facilitate more teaching or more research, as appropriate
> Increasing services from Office of Sponsored Programs, freeing faculty from administrative tasks
OUR FUTURE BELONGS TO US

✓ We are part of Missouri’s only research university system
✓ We have the opportunity to work collaboratively with each other, across the system and with other research-focused universities and colleagues
✓ As part of a system, we can and should be a valuable, distinctive partner and collaborator
✓ We owe it to ourselves, our students, our alumni and our region to research, educate and apply what we learn
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George Keller