H-STEM Building Update

University Senate Meeting
February 20, 2018
Jason R. Carter, AVPRD
Strategic Faculty Hiring Initiative

- 2006 Sustainability
- 2007 Computing
- 2008 Competitive Review Process

2008 Finalists:
- Energy
- Transportation
- Health*

* co-lead w/ BME faculty member

<table>
<thead>
<tr>
<th>Rank</th>
<th>University</th>
<th>NIH %</th>
</tr>
</thead>
<tbody>
<tr>
<td>51</td>
<td>North Carolina State</td>
<td>12%</td>
</tr>
<tr>
<td>51</td>
<td>Buffalo-SUNY</td>
<td>65%</td>
</tr>
<tr>
<td>51</td>
<td>U Kansas</td>
<td>73%</td>
</tr>
<tr>
<td>51</td>
<td>U New Hampshire</td>
<td>5%</td>
</tr>
<tr>
<td>55</td>
<td>Rutgers</td>
<td>44%</td>
</tr>
<tr>
<td>55</td>
<td>U Oregon</td>
<td>46%</td>
</tr>
<tr>
<td>55</td>
<td>U South Carolina</td>
<td>37%</td>
</tr>
<tr>
<td>58</td>
<td>Michigan Tech</td>
<td>3%</td>
</tr>
<tr>
<td>58</td>
<td>U Arizona</td>
<td>36%</td>
</tr>
<tr>
<td>60</td>
<td>Washington State</td>
<td>21%</td>
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<table>
<thead>
<tr>
<th>University</th>
<th>NIH %</th>
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<tbody>
<tr>
<td>MIT</td>
<td>48%</td>
</tr>
<tr>
<td>Georgia Tech</td>
<td>8%</td>
</tr>
<tr>
<td>Cal Tech</td>
<td>16%</td>
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<tr>
<td>Virginia Tech</td>
<td>13%</td>
</tr>
<tr>
<td>RPI</td>
<td>18%</td>
</tr>
<tr>
<td>Lehigh Univ</td>
<td>19%</td>
</tr>
<tr>
<td>Michigan Tech</td>
<td>3%</td>
</tr>
</tbody>
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Data from 2007 U.S. News & World Report and NSF Division of Science Resource Statistics
A Decade of Healthy Growth

7 new SFHI hires in 2009 & 2010:
1.4 Kinesiology, 1 Biomed Eng, 1 Chem, 1 Biology, 1 School of Technology, 1 Humanities, 0.6 Psychology

Currently 16 active NIH grants: $6,823,894
(NIH RePorter; February 2019)
PHF- MTU Partnership

PHF Endowed Professorships
- Community and Preventive Health
- Population Health
- Technological Innovations in Health

THE PARTNERSHIP
“Coming together is a beginning. Keeping together is progress. Working together is success.”
- Henry Ford

This proposal leverages the strengths, strategic missions, and financies of Michigan Tech and Portage Health Foundation to invest over $6.7 million* into health education and research over the next 5 years. The goal is to build a sustainable micropolitan community of wellness, health talents, high-caliber synergy and leadership.

* Does not include potential investment from state and university towards a requested $50+ million Health Sciences and Medical Engineering Building.

Three Endowed Professorships
- Community and Preventive Health
- Population Health
- Technological Innovations in Health

Health Research
- Seed research
- Commercialization
- Infrastructure/Core

Health Scholarships Interns Fellowships
- UG scholarship
- Research/Clinical Intern
- GRAD fellowship

SUBTOTAL
- $842,500 per year

TOTAL PARTNERSHIP
- $4,212,500 (5 year total)*

PHFoundation

Michigan Tech

$592,500 per year
- Salary & fringes
- Start-up costs

$250,000 per year
- Annual endowed payout
- Principle pay down

$110,000 per year
- Seed research
- Commercialization
- Infrastructure/Core

$100,000 per year
- Seed research
- Commercialization
- Infrastructure/Core

$140,000 per year
- UG scholarship
- Research/Clinical Intern
- GRAD fellowship

$140,000 per year
- UG scholarship
- Research/Clinical Intern
- GRAD fellowship

$500,000 per year

$2,500,000 (5 year total)
Making a Difference
Making a Difference

Talent Recruitment and Retention
• 20 of the 24 students with $1,000 per year scholarships remain enrolled in MTU health degrees.
• 12 of the 12 students with $8,000 per year scholarships remain enrolled in MTU health degrees.

84% 27 of 32 scholars are women
Next Steps in Building Programming

3-Tier Review of Programming Prioritization

- Faculty Committee (2 departmental reps from BME, BIO, CHEM, CHEM ENG, KIP)
- Chair/AVPRD Committee (Carter, Frost, Kirkpatrick, Joshi, Pradeep, Jaszczak)
- Executive Committee (Abbott, Huntoon, Reed, Sleeman)
Proposed Timeline for H-STEM
(subject to modification)

- **Planning Authorization**: December 2018
- **RFQ Development**: February-June 2019
- **Programming + Schematic Design**: June 2019-April 2020
- **Approval by State for Final Design + Construction**: April 2020
- **Design, Approvals and Bidding**: June 2020 - February 2021
- **Approval by State to Begin Construction**: May 2021
- **Construction (27 Months)**: May 2021 - July 2023
- **Ribbon Cutting Ceremony**: August 2023