1. REPORT FROM THE POTT COLLEGE OF SCIENCE AND ENGINEERING

Scott Gordon, dean of the Pott College of Science and Engineering, will present a report on the Southwest Indiana STEM (Science Technology Engineering Math) Resource Center (SwlSTEM).
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America's Failure in Science Education

The shortage of science and technology graduates threatens the U.S. economy, and Washington's help is badly needed to tackle this problem.

Figure 2-25.
First university degrees in S&E fields in selected countries, by region: 1999 or most recent year

- Engineering
- Natural sciences
- Social sciences

NOTES: Natural sciences include physics, chemistry, astronomy, and earth, atmospheric, ocean, biological, and agricultural sciences, as well as mathematics and computer sciences. Social sciences include sociology, psychology, and other social sciences.

See appendix table 2-13 for countries and economies included within each region.
Background

2006
Formation of Indiana Science, Technology, Engineering, and Mathematics Resource Network Concept

Late 2007
USI Selected as the SW Indiana Lead Institution
Funding (Statewide)

Overarching Goal

Help Indiana achieve its vision to be a national leader in student academic achievement in STEM disciplines and the in quality of its workforce.
A Regional Solution to a National Problem
Establishment of Southwest Indiana STEM Resource Center

- Developed goals and objectives
- Prioritized initiatives
- Began developing framework for staffing
- Obtained additional funding
- Late 2007 – began developing initiatives
Regional Approach
Funding

$150,000  per year

$600,000  over 3 years

$1,200,000  over 5 years

STEM Resource Endowment  $75,000
• Professional Development P-16
• STEM Camps P-12
• PTLW
• Competitions
  – Legos
  – Bridge-building
  – Science Fair
• Fostering Business/Industry Relationships
• Student Research Experiences
• Informal Education
• Demonstrations
• Career Exploration
• Advocacy
• Early Undergraduate Research

• Pathways Leading to Undergraduate Success in the Sciences (PLUSS) Program
Equipment/Instrumentation
Trucks
• Provide research grade equipment and instrumentation to regional K-12 schools
• Develop inquiry-based hands-on laboratories utilizing equipment in trucks
• Provide students with real-world science experiences
Pott College

“A Leader in Science, Technology, Engineering, and Mathematics Education”