



CEOSE Mini-Symposium on Institutions Serving Persons with Disabilities in STEM

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NTID – A National Treasure

- Created by Public Law 89-36
- Began operations in 1968
- A College of Rochester Institute of Technology
- Direct instruction (AAS) plus support (BS/MS)
- Extensive Services
 - 122 Sign Language Interpreters
 - 55 C-Print Captionists
 - 300-400 Notetakers





NTID – Students Served

- All 50 states
- 12,000 since 1968
- 1,343 students in 2007-2008 (up 7.4%)
 - 1,184 d/hh students
 - 159 hearing students
- RIT has 15,000 total students





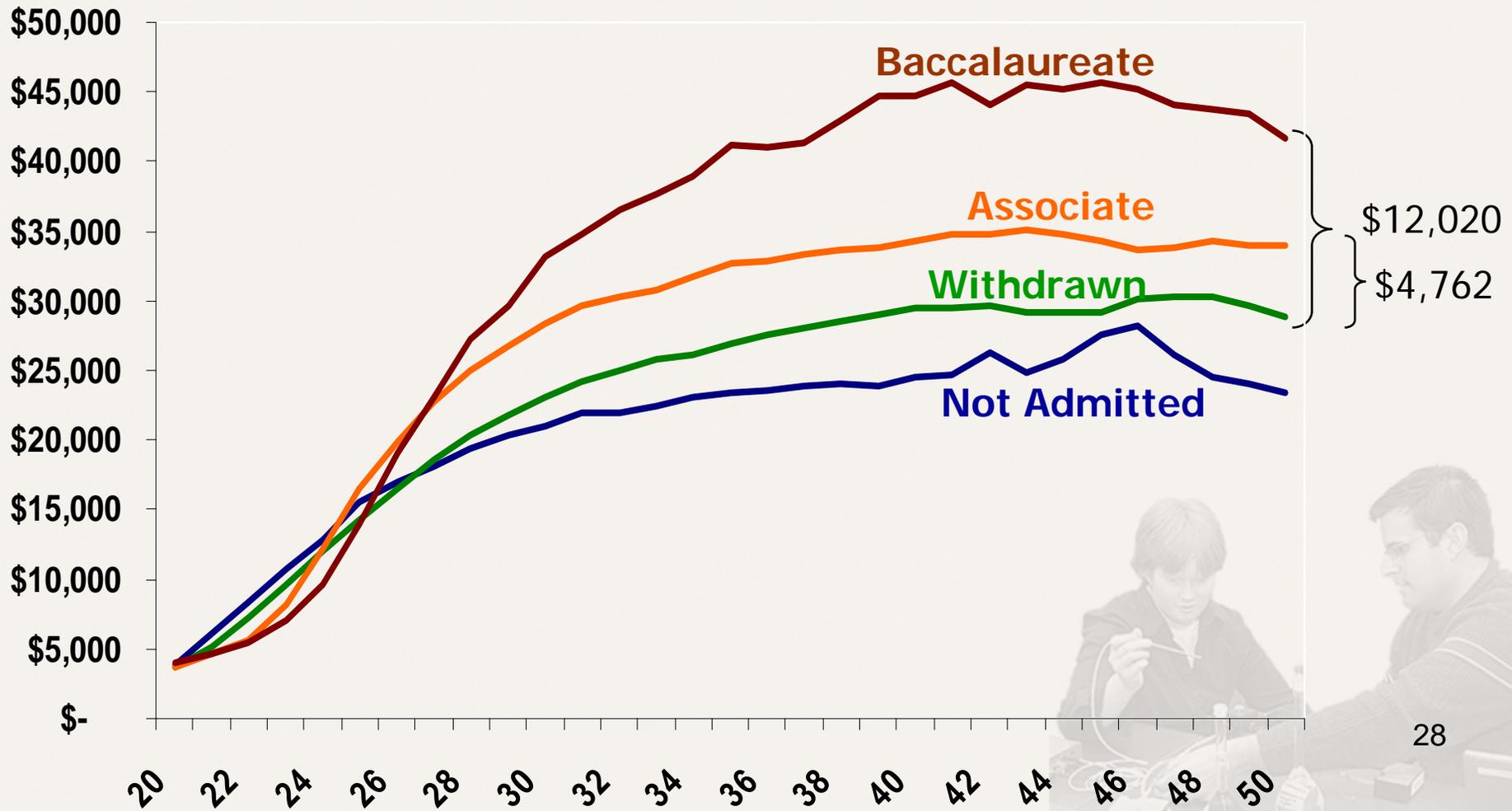
Impact: Student Success

- Graduation Rates
 - 49% Associate
 - Compares to 25% at other 2-year colleges
 - 70% Baccalaureate
 - Compares to 64% for RIT hearing students
- Placement Rate
 - 95% of graduate (BLS methodology)





Impact: Earnings (Median)





Samples of STEM Majors at NTID

- Computer & Info Studies
- Engineering Studies
- Lab Science Technology
- MS in Secondary Education (Math/Science Scholarships)





STEM Majors in Other RIT Colleges

- Applied Science & Technology
- Computing & Information Sciences
- Engineering
- Science
- Arts & Imaging Science





STEM Outreach: Pre-College Students

- Explore Your Future
- MATHCOUNTS
- National Science Fair
- Steps to Success
- TechGirlZ





STEM Outreach: Post-College Adults Deaf Initiative In Technology (DiiT)

- Provided training for adults, faculty updates, revised curriculum
- NSF funded for two three-year cycles (total \$1.3 M)
- 60 workshops 400-500 attendees to date
- Ideal NSF project:
 - Startup funds from NSF
 - Now integrated into NTID





Deaf Initiative In Technology (DiIT)





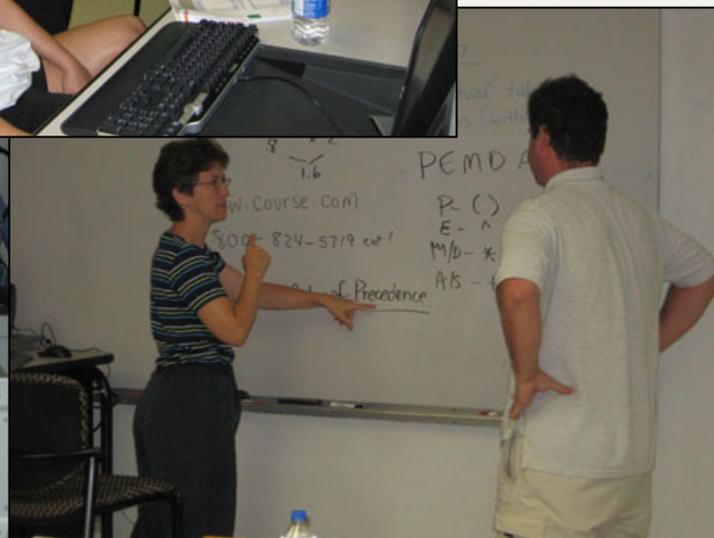
STEM Outreach: *Project Fast Forward*

- Increase d/hh students pursuing post-secondary education in computer fields
- Dual credit for information technology courses offered in high school
- NTID trains high school teachers
- NSF funded three-year grant award for \$749,337





Project Fast Forward





Other NSF Support for NTID STEM

- “Speech to text systems: comparative analysis...”(Lalley)
- “Supporting d/hh students in STEM... with remote speech-to-text services” (Stinson)
- “Create a cyber-community to advance d/hh individuals in STEM” (Clymer symposium)
- Examples of other NSF support:
 - Cyberinfrastructure (proposal pending)
 - Four funded projects on interpreting research (Marschark)





NSF Should Continue

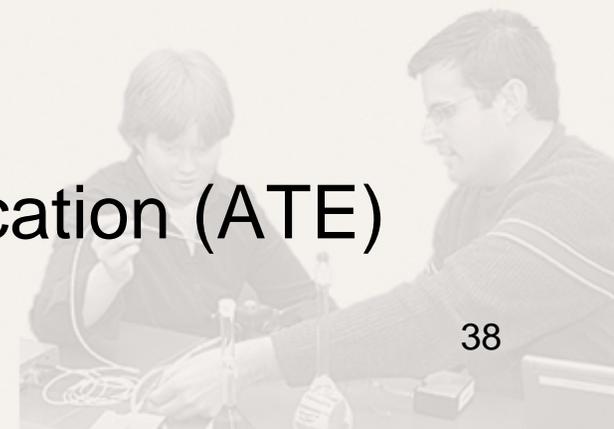
- Inclusive efforts
- Inclusion of “underrepresented”
- NSF visits to d/hh campuses
- Planning grants
- Funding for deaf-related programs
- Disabled funding support (interpreters)





NSF Could Address

- “Sustainability” fund out-years after grants end
- Share STEM opportunities with Deans
- Better pre-college preparation (*Fast Forward*)
- Critical STEM areas at NTID
 - Transfer/articulation
 - Outreach to Jr/Sr high schools
 - Future careers
- Fund Advanced Technology Education (ATE) center on deafness at NTID





NTID – A National Treasure

