Work in Progress: The Bridge to the Doctorate Experience

A Reflection on Best Practices and Project Outcomes

- T. Aktosun (UT Arlington)
- A. Arciero, B. Flores, H. Knaust (UT El Paso)
- C. Villalobos (UT Pan American)



The UT System Louis Stokes Alliance for Minority Participation (LSAMP)

- National Science Foundation (NSF) funding since 1992
- The University of Texas System Alliance consists of
 - Nine universities (UT Arlington, UT Austin, UT Brownsville, UT Dallas, UT El Paso, UT Pan American, UT Permian Basin, UT San Antonio, and UT Tyler), and
 - Five community colleges (El Paso Community College, Howard College, Midland College, Odessa College, San Antonio College)
- About 1,500 STEM at these campuses students have participated as LSAMP Research Scholars
- The Proven Method: Undergraduate Research

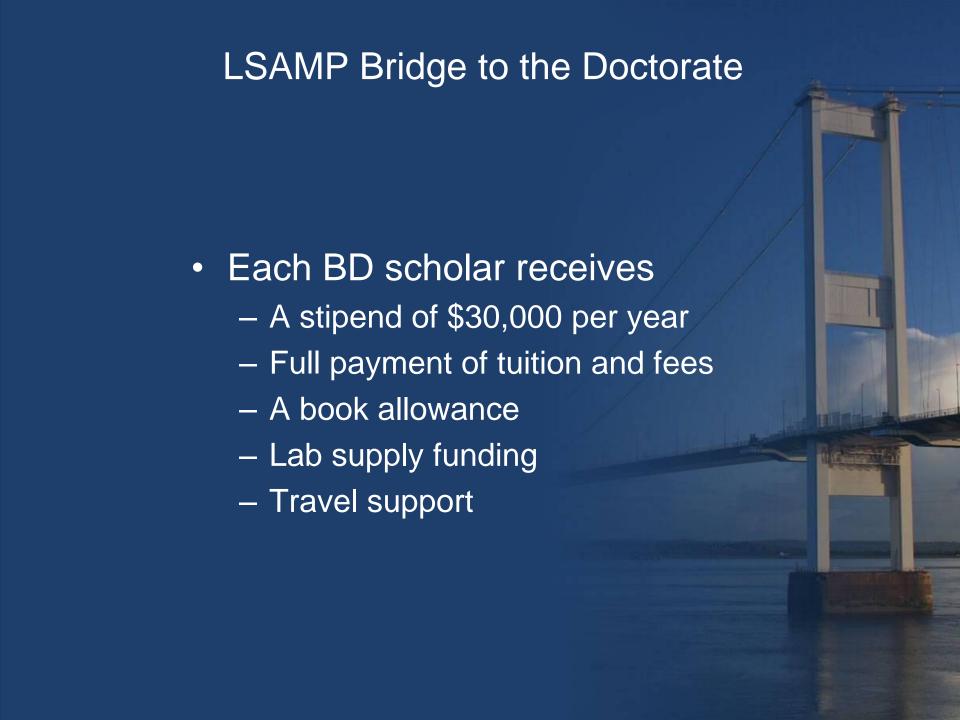
Louis Stokes, J.D.

LSAMP Bridge to the Doctorate

• In 2002, the NSF started funding of LSAMP Bridge to the Doctorate (BD) programs.

 Goal: To provide funding for LSAMP scholars for their first two years in a graduate program.

 Each Bridge to the Doctorate Initiative consists of a cohort of twelve students at one LSAMP Alliance institution.



UT LSAMP Bridge to the Doctorate

- The UT System Alliance has received funding from the NSF for seven cohorts:
 - Five cohorts at UT El Paso (2003-05, 2005-07, 2008-10, 2009-11, 2011-13)
 - One cohort at UT Pan American (2004-06)
 - One cohort at UT Arlington (2010-12)

Campus	Females	Males	URMs	Non- URMs
UT EI Paso	20	26	41	5
UT Pan American	10	2	9	3
UT Arlington	6	6	8	4

Selecting the BD Scholars I

- Extensive Recruitment
 - Locally (among students and faculty)
 - Nationwide among other LSAMP Alliances
- Goal: Creating a sufficiently large pool of applicants
- Two recruitment periods (Summer and Fall)

Selecting the BD Scholars II

- Application material (requirements similar to the NSF Graduate Research Fellowship program)
 - Cover letter
 - Resume
 - Transcript(s)
 - Statement of Purpose
 - Two letters of recommendation
 - Proposal of research work

Selecting the BD Scholars III

- Strong candidates are invited to a 30-minute interview with the program directors.
 - Phone interview is possible.
- Selection Criteria:
 - Strength of academic background
 - An established student-faculty mentor relationship
 - Strength of research proposal
 - Student's long-term goals & long-term planning; student determination & maturity
 - Communication skills
 - "New" graduate students

Selecting the BD Scholars IV

- Scholars accepted into the program sign an annual contract
 - Enrollment in a four-semester weekly BD Seminar
 - Maintaining full time student status during long and summer semesters
 - Maintaining a GPA of 3.5/4.0
 - Satisfactory progress towards degree completion
 - Participation in one NSF Joint Annual Meeting (professional development)
 - At least one presentation of scholar's research at a professional conference per year
 - Agreeing not to accept other employment

The BD Seminar I

- Goals:
 - 1. Mentoring
 - 2. Team-Building
 - 3. Dissemination of information
 - 4. Improving communication skills (written and oral)
- Four-semester sequence starting in the spring semester

The BD Seminar II

- Some Activities:
 - How to pick a faculty mentor
 - Funding opportunities beyond the BD program
 - How to apply for grants (guest lecturers)
 - Research papers
 - Academic and research misconduct
 - Post-Docs (guest lecturer, former LSAMP BD student)
 - How to apply for academic jobs
 - How to get tenure
 - "Ice cream socials"
 - "Challenge course"

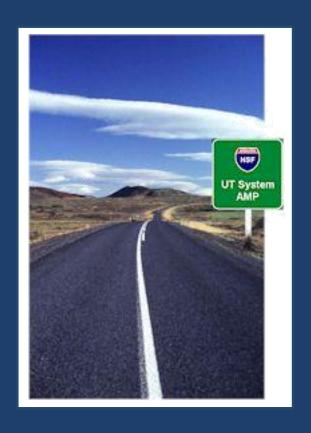
The BD Seminar III

- Deliverables:
 - Research power point presentations (1st and 3rd semester)
 - Laboratory visits (2nd semester)
 - Write a CV
 - Write a grant proposal summary

2009-11 Cohort Progress Report

- Total of 13 students
 - 5 students are in a fast-track Ph.D. program.
 - 5 students have completed a MS degree.
 - 3 students are currently enrolled in a Ph.D. program.
 - 1 student plans to enroll in a Ph.D. program.
 - 1 student accepted employment.
 - 2 students are pursuing a MS degree with plans to continue in a Ph.D. program.
 - 1 student stopped out.

Contact Info



Helmut Knaust

Department of Mathematical Sciences
The University of Texas at El Paso
El Paso TX 79968-0514

hknaust@utep.edu

http://lsamp.utep.edu

http://helmut.knaust.info/BD