

New Mexico Alliance for Minority Participation

Program Overview

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New Mexico AMP Partnership

SUPPORTED BY:

- National Science Foundation
- State of New Mexico

PROJECT PERIOD:

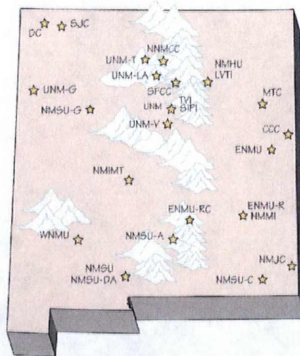
- Phase I: November 1, 1993—October 31, 1998
- Phase II: November 1, 1998—October 31, 2003
- Phase III: November 1, 2003—October 31, 2008

ALLIANCE PARTNERS:

- 21 two-year community colleges
- 6 four-year degree-granting universities

COLLABORATIVE PARTNERS:

- Other NSF-sponsored programs
- Industry & Government Agencies
- National Laboratories & Private Foundations



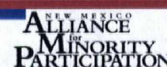
Target Areas and Program Activities

Program Activity	***** TARGET AREAS *****				
	Outreach, Recruitment, & Transfer	Undergraduate Education	Research and Graduate School Preparation	Faculty and Curriculum Development	Leveraging of Program Resources
Transfer Scholarships	X				
SMET 101 Course	X	X		X	
Undergraduate Research Assistantships			X		
Student Research Conference	X	X	X	X	X
Bridges to the Doctorate			X		
META/SCCORE	X	X	X		
Hewlett Foundation ESWI Project	X	X		X	X
CSEMS	X	X			X



Undergraduate Research Assistantship URA

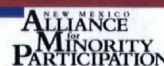
- Research with a faculty mentor
 - Graduate students
 - Peer undergraduates
- Professional development to prepare for professional presentations
- Past 5 years:
 - 534 URA students
 - 293 mentors
 - 245 presentations

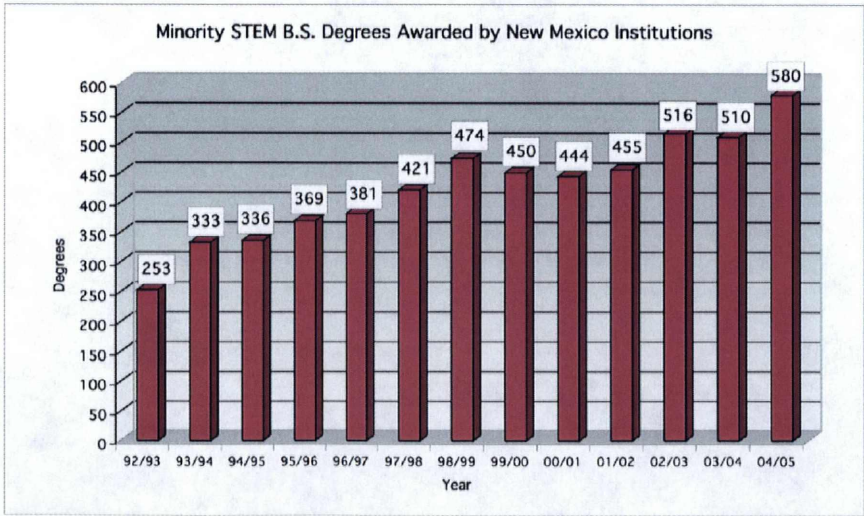


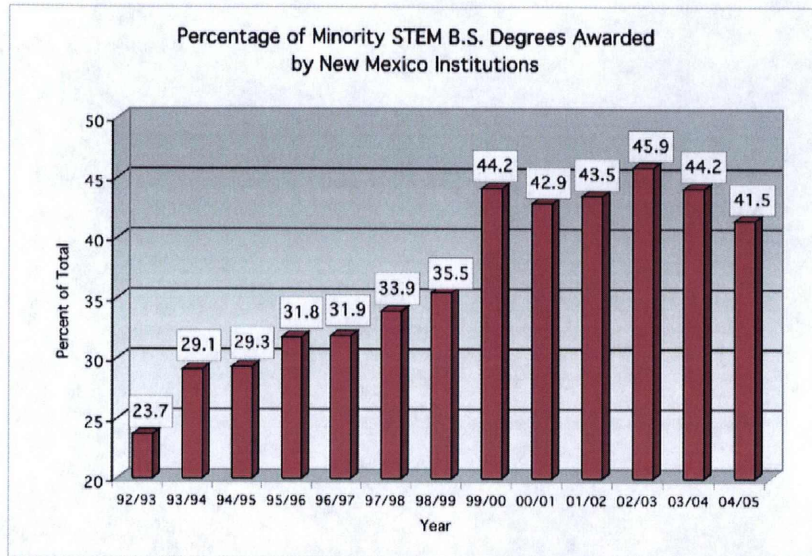


Student Research Conference

- Annual event:
 - Highlights university and community college student research
 - Pre and post workshops for community college students, transfer focus
 - Keynote speakers: morning – STEM & lunch – NM legislature
 - Professional panels (career focus)
 - Attended by New Mexico MESA students and teachers (workshops, competitions, and panels)
 - Collaboration with NMSU University Research Council (VPR introduces faculty scholarly/creative research awards and poster displays)
- Past 5 years: 1,354 attendees
 - 659 Students
 - 170 teachers and faculty
 - 259 MESA high school students
 - 266 other
 - 63 high schools, colleges, and universities

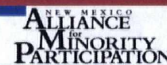






Bridge to the Doctorate

- Cohort I & II: 8/03-7/06
 - 22 Science and engineers
 - 9 in Ph.D.
 - 9 Ph.D. pending
 - 4 MS pending
- Cohort III: 8/05-7/07
 - 11 Engineers
 - 1 Science
- Cohort IV: 8/06-7/08
 - 12 Engineering and science students



Hewlett Foundation ESWI Project

- Freshmen Integrated Learning Community
 - Target audience: students at risk based on math placement (intermediate algebra)
- Fall Integrated Courses:
 - Engl 111, Freshman Composition
 - Math 120 or 121, College/Intermediate Algebra
 - Math 101 or 102, Supplemental Instruction
 - EE 109, How Things Work
 - SMET 101



Hewlett Foundation ESWI Project Outcomes

- Three cohorts to date; AYs 03/04, 04/05, 05/06 (N = 51)
- Two semester ILC student engineering retention; 72%
- Two semester ILC NMSU retention, 83%
- Historical engineering completion for Math 120/121 students; 20%
- Progression to Calculus I (cohorts I & II, N = 19)
- Progression to Differential Equations (cohort I, N = 6)
- Cumulative GPA: 2.7 vs 2.1 (one semester ILC)
- ILC minority engineering retention; 65%
- Math 120/121 supplemental instruction pass rate; 83% vs 51% (non-ILC control group)



Success is Guided by the New Mexico AMP Team!

- Institutional Contacts
- Rudi Schoenmackers, Co-Director
- Delia Valles, Co-Director
- Michele Auzenne, Program Manager
- Karen Luces, Public Information Coordinator
- Jeanne Garland, Special Projects Coordinator
- Gloria Vasquez, Program Accounts Coordinator
- Marty Lopez, SWTDI
- Joy Pugh, Records Specialist
- Student employees
- 5,269 STEM graduates

