

# LOUIS STOKES OKLAHOMA AMP

Louis Stokes Oklahoma Alliance for Minority Participation in  
Science↔Mathematics↔Engineering↔Technology



**2001 Report for  
Performance Effectiveness Review**

**To  
Division of Education and Human Resource Development  
Alliances for Minority Participation**

**at  
NATIONAL SCIENCE FOUNDATION  
ARLINGTON, VIRGINIA**

**30 November 2001**

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**Oklahoma Alliance for Minority Participation  
"PROGRAM EFFECTIVENESS" REVIEWS (P.E.R.)**

**October 30, 2000**

**The National Science Foundation  
4201 Wilson Blvd. ROOM 815  
Arlington, VA 22230**

## PERFORMANCE EFFECTIVENESS REVIEW 2001

### Louis Stokes Oklahoma Alliance for Minority Participation in Science, Mathematics, Engineering, and Technology

The Louis Stokes Oklahoma Alliance for Minority Participation (LS-OKAMP) was established in 1994 to address the critical under representation of minority students pursuing baccalaureate degrees in Science, Mathematics, Engineering, and Technology (SMET). In Phase I (1994-1999), eight partners comprised the Alliance; in the current Phase II (1999-2004), there are ten partners. The remaining 19 Oklahoma institutions are LS-OKAMP affiliates, and a representative number of participating students matriculate on these campuses.

The primary goal of LS-OKAMP is to increase *by 15% annually* the number of underrepresented minorities enrolled and graduating in SMET fields. Realization of this goal is attributable to many factors, including recruitment of qualified students; strong academic and social/emotional support programs; participation in summer research opportunities; mentoring and interactions with SMET faculty and graduate students; active involvement in professional meetings and societies; and peer networking. Critical transitional bridge programs - from high school to college and from two year to four-year colleges and universities - play a vital role in recruitment and retention efforts. LS-OKAMP strongly emphasizes retention efforts and documents reasons for program attrition. A frequent reason for attrition is change of major to health science fields or other majors that are not supported by the AMP program.



Earl D. Mitchell, Jr., Project Director

The following table compares, over a six-year period, SMET graduation rates by race at 1) the 9 public LS-OKAMP institutions, and 2) at 119 other colleges/universities including LS-OKAMP institutions

	White/Asians	Blacks	Hispanics	American Indians
<b>9 LS-OKAMP Institutions</b>	<b>31%</b>	<b>18%</b>	<b>23%</b>	<b>28%</b>
<b>119 colleges/Universities</b>	<b>40%</b>	<b>21%</b>	<b>25%</b>	<b>26%</b>

From data prepared by Theresa Y. Smith, Director, Center for Institutional Data Exchange and Analysis, The University of Oklahoma; LS-OKAMP Program Evaluator

Phase II of LS-OKAMP began with a baseline graduation number of 438. At the end of the first year (1999-2000), a total of **510** baccalaureate degrees in SMET fields were awarded; and at the end of year two (**2000-2001**), **571 LS-OKAMP students earned SMET degrees. This difference of 61 degrees is equivalent to a nearly 12% increase over the preceding year, and a 10% increase above the expected number.** Throughout Phase II, LS-OKAMP aims to continue its annual increases in the attainment of baccalaureate degrees in SMET by minority students, and continue to motivate and prepare students for graduate school.

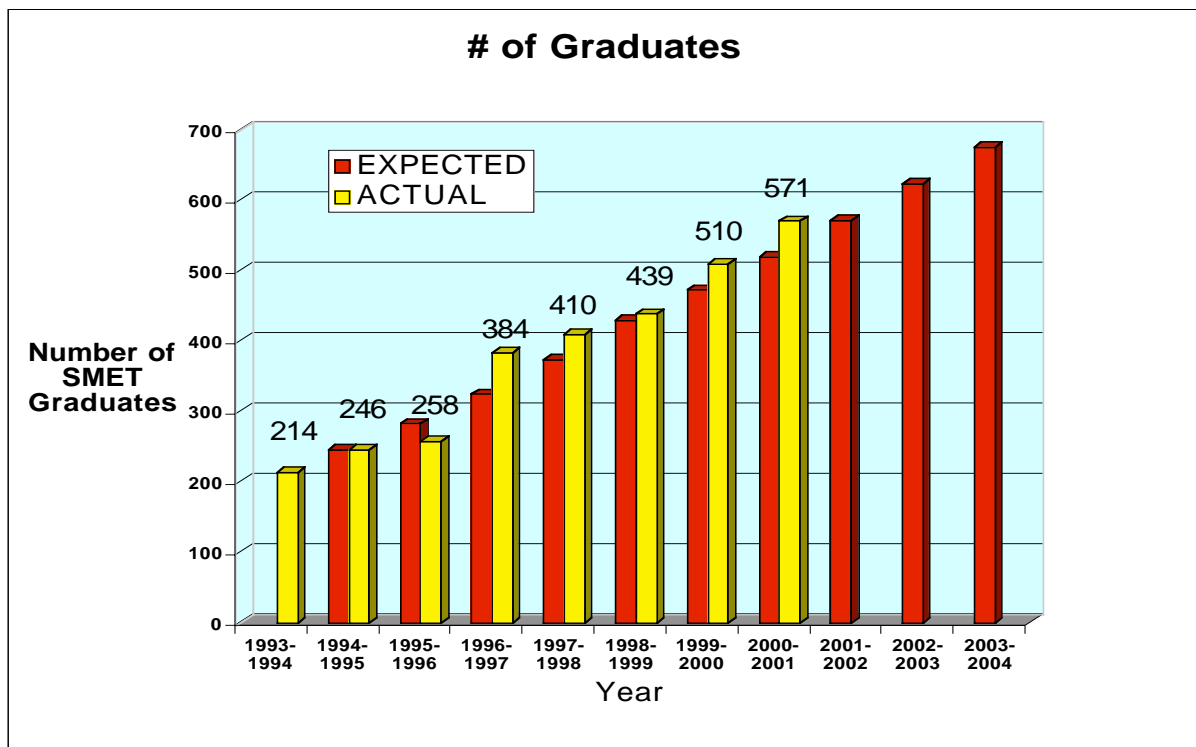
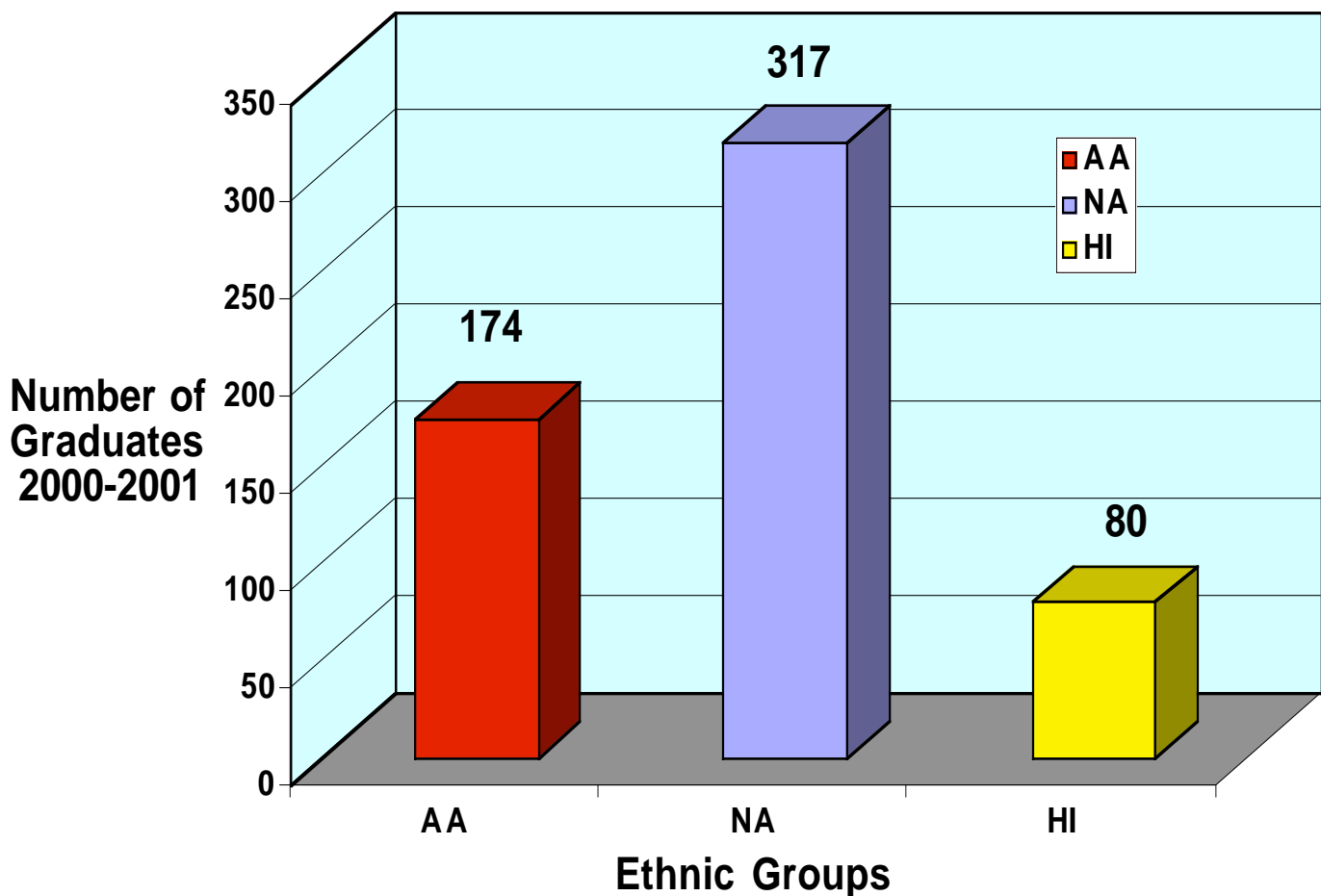


Figure 1. Baccalaureate degree in SMET fields from the 1999 baseline of 438. This includes all Partner and Affiliate institutions that are participants in the Louis Stokes Oklahoma AMP program. (Numbers do not include Pacific Islanders).

Figure 2 shows that **American Indians earned 55.5% or 371 of the total; Blacks earned 30.5% (174); and Hispanics, 14%.** Most of the degrees were in *engineering and related technology (28%), life/biological sciences (24%), and computer and information sciences (21%).* Other disciplines in which degrees were awarded were *mathematics (nearly 13%), agricultural sciences (8%), and chemistry (6%).* Sixty-one percent or 348 of the degrees were awarded to males and 39% or 223 to females.

## Ethnic Distribution



Science, engineering, and technology profoundly influence the quality of life. Through ongoing research and technological advancements, our society is on the receiving end of advanced healthcare, improved environmental quality, improved security measures, new developments in food production and processing, and advanced educational tools and techniques. These are but few of the mandates that dictate the need for a highly skilled technical workforce. To meet increasing workforce needs, potential researchers must be

sought from populations that are rapidly growing but are seriously underrepresented in the scientific marketplace. Traditionally, African Americans, Native Americans, and Hispanics have made up a small percentage of the technical workforce. While these groups collectively comprised 24% of the US population in 1997, they comprised only 7% of the 1997 science and engineering workforce. It is projected by the US Census Bureau that by 2005, ethnic minorities will comprise 47% of the population; and along with women and immigrants, 85% of workforce entrants.

### **LS-OKAMP HAS ESTABLISHED LINKS AS FOLLOWS:**

***Higher Education Departments of All Federally Recognized Tribes in the State of Oklahoma:*** As the primary focus of LS-OKAMP is to recruit and retain Native Americans in SMET disciplines, contact has been established with higher education offices of all 38 federally recognized tribes and is maintained through telephone calls, mail outs, and personal contacts.

***Multicultural Development and Assessment Center (MDAC) at Lead Institution:*** LS-OKAMP participates in activities coordinated by MDAC that focus on Native American, African American, Hispanic, Native Pacific Islander, and other student organizations. These organizations and programs include AISES (American Indian Science and Engineering Society); NASA (Native American Student Association); BSO (Black Student Orientation); HSA (Hispanic Student Association); Fall Orientation; Scholars' Day (for high school juniors and seniors); Multicultural Encounter Day, and Project Success.

***Community colleges:*** Five (5) Alliance partners are directly aligned in some way with community colleges. Through reciprocal campus visits, resource sharing, and one-on-one contacts, LS-OKAMP plays a role in recruiting participants for various SMET programs on their respective campuses.

***Affiliate Four-year Colleges:*** Participating scholars, during 2000-2001, included enrollees at the following affiliate institutions: *St. Gregory's College; Oklahoma Christian University; Oklahoma City University; University of Science and Arts of Oklahoma; and Northeastern Oklahoma University.*

***TRIO Upward Bound Program:*** At three partner campuses, Upward Bound students are in contact with OKAMP students through tutoring and special activities. This one-on-one and small group interaction has afforded opportunities to talk about each aspect of OKAMP, and has therefore aided recruitment success.

***Graduate School Preparation:*** Students are strongly encouraged to participate in career fairs held each semester on respective campuses and to maintain direct contact with graduate school representatives. The graduate school staff from Oklahoma's three

comprehensive universities (*Oklahoma State University, University of Oklahoma, and University of Tulsa*) are accessible to all colleges and universities within the state. At the 2001 Research Symposium, Michael Hepplar, (Assistant Director of the OSU Graduate College), presented a graduate school preparatory workshop. Mr. Hepplar works consistently with OKAMP scholars at OSU in preparation of their graduate school portfolios.



Mike Hepplar emphasizes graduate school preparation

**EPSCoR (Experimental Program to Stimulate Competitive Research):** Seven (7) Alliance students and two (2) staff were funded by EPSCoR to attend the 15<sup>th</sup> National Conference on Undergraduate Research (NCUR) in Lexington, KY, Spring 2001; Attendees were: *Quentin Smith, Oklahoma State University; JoAnne Gonzalez, Southwestern Oklahoma State University; D'Moyer Smith, Langston University; Kiemba Knowlin, Cameron University; Liz Turner and Jalisha Booth, University of Central Oklahoma; and Terry Tidwell, University of Tulsa.* Accompanying students were OKAMP staffers, *Avelia 'Baya' Crynes (University of Oklahoma) and Yousif Sherif (Oklahoma State University).* In November 2001, OKAMP freshmen and sophomore women participated in the EPSCoR "*SMET Career Options Conference*" held at Oklahoma State, at which there was an OKAMP exhibit.



LS-OKAMP at NCUR 2001

## **STRUCTURED COLLABORATIONS**

- University of Central Oklahoma has received funding for a Computer Science, Mathematics, and Engineering Scholarship Program which encourages creative and scholarly research
- Oklahoma State University OKAMP student (John Castro) participated in a 10-week research training program at the Stanford Linear Accelerator Center; program is a cooperative effort between NSF and DOE
- Students at East Central University received academic and financial benefits as student assistants in the NSF-funded Eisenhower programs
- LS-OKAMP and EPSCoR work cooperatively in efforts to attract minorities and women to SMET majors; through EPSCoR funding, OKAMP students participated in National Conference for Undergraduate Research (NCUR) in spring 2000.
- Two University of Oklahoma students participated in NSF-sponsored REU projects at the University of Cincinnati, summer 2001.

## **ARTICULATIONS AT PRE-COLLEGE AND COMMUNITY COLLEGE LEVELS**

- OKAMP participants and staff take part in high school recruitment efforts at high schools, and interact with groups and individuals visiting the various campuses. At the University of Central Oklahoma, for example, OKAMP has aligned with the Upper Bound Program which allows close and frequent contact with three high schools having high minority enrollments;
- Campus Coordinators maintain direct contact with a number of high school science teachers and Tribal educational offices, particularly for recruitment of summer bridge program participants;
- The University of Oklahoma has a *roving transfer advisor* that visits all junior/community colleges on a regular basis. Two of these colleges, in close proximity, are visited on the average of once per week.

## **COURSES OR PROGRAM COMPONENTS DEVELOPED**

While partner institutions develop and share information about programs designed to meet specific needs, partner institutions do not utilize these programs, per se. For example, the University of Oklahoma implements an orientation course for freshmen and transfer students. While the course is designed to enhance personal and professional development, it also stresses developing such skills as resume' development, interview training, career awareness and academic success. Tutoring and other academic support vehicles are provided.

*Oklahoma State University* has recently implemented a **Tier System** in efforts to further meet student needs at various levels of academic progress. Tier Systems take advantage of well-established components such as Cadre meetings (small group), Scholars meetings (large group), and faculty mentoring, while also creating new components such as the Professional Orientation Workshops. The Cadres offer a chance for Tier I students (freshmen and sophomores) to visit the research laboratories of faculty from various SMET fields. Tier II students (sophomores and juniors) begin to engage in



research with a faculty mentor. Tier III is designed for upperclassmen with well-defined academic and career goals. At this stage, students can explore advanced research opportunities, participate in Professional Orientation Workshops, or choose an approved combination of the two. The Workshops seek to provide juniors and seniors with the information and tools that are needed to actively pursue graduate education in a SMET field. In addition to strongly promoting graduate studies, the workshops also focus on employment strategies. The final tier (Tier IV) allows seniors the freedom to design their own program with approval of the Coordinator. At this level, students are expected to vigorously prepare for graduate studies and/or the job market.

### **SHARED RESOURCES**

Partners share intellectual resources via telephone and email communications, and in more formal ways at Alliance meetings and Annual Research Symposia. The latter afford wonderful opportunities for partners and affiliates to highlight program achievements and discuss new ideas and future outlooks.

#### ***PARTICIPATION IN 2001 LSAMP WINTER WORKSHOP AT THE SMITHSONIAN***

The National Museum of Natural History (NMNH), in partnership with LSAMP, hosted a 1-week workshop, *"Scientific Partners Joining the Smithsonian Community"* in January 2001. Two person teams (consisting of student and program administrator) from 15 LSAMP Centers were in attendance. Representing LS-OKAMP were **Catrina Hughes**, Langston University sophomore, and **Zola Drain**, Program Manager. *LSAMP representatives worked directly with NMNH scientific staff to facilitate placement of future students in Smithsonian -sponsored research at their home institutions. Interactive planning sessions were held with Smithsonian administrative and scientific staff that focused on developing an institutional plan for the NMNH to become a national leader in supporting the increase of minority students achieving careers in the natural history fields.*





### **LSAMP PROGRAM DIRECTOR VISITS LS-OKAMP**

Dr. A. James Hicks, NSF Senior Program Director for LSAMP, scheduled an Administrative visit with Alliance students and administrators on April 18, 2001. Nine (9) of the 10 partner institutions were in attendance along with special guests that included former OKAMP students, faculty mentors, and staff members from various departments that are vital to program success. In his presentation, Dr. Hicks gave a detailed **NSF/HRD overview and emphasized LSAMP expectations**. A closed session, "*Can We Talk*" was held with students; as well as a meeting with OKAMP staff and administration.



# SIXTH ANNUAL RESEARCH SYMPOSIUM

September 21, 2001, Oklahoma State University





## ***STUDENT ACHIEVEMENTS AND INVOLVEMENTS***

### **EAST CENTRAL UNIVERSITY (ECU)**

**Awards:** *Best Poster* (Loretta Rush) - Oklahoma Academy of Science meeting, Fall 2000; *Winner of \$1500 stipend* (Jason Childress) in research competition at the Environmental Health Research Association Annual Education Conference (July '01, Atlanta)

**Scholarship Recipients** in Physics and Math: Erin Bevil, Heather Schlotthauer Hannah, Kevin Bishop, April Hendley, Jon Cloud,

**Professional/Academic Memberships:** Sigma Pi Sigma Physics Honor Society; Society of Physics Students; Astronomy Club;

**Internships:** The Ohio State University (Summer Undergraduate Physics Institute)

**Professional Presentations:** Society of Physics Students 2000 Zone 12 Meeting at ECU; Oklahoma Academy of Sciences 2000 Meeting; Regional Regents Research Day; AAPT-AOK Section 2000 Meeting (Fort Hayes State University, Hayes KS); 6<sup>th</sup> Annual LS-OKAMP Research Symposium

**Campus Volunteerism:** Oklahoma Science/Engineering Fair; Computer laboratory assistance; free tutoring in general physics and physical science; assisted with building of ECU observatory during summer 2000; held viewing nights at ECU Observatory (which attracts large numbers from throughout community); Majors Fair for high school seniors; donations to community Thanksgiving baskets.



Dr. Carl Rutledge , right, and OKAMP staff at ECU

### **UNIVERSITY OF OKLAHOMA (OU)**

- 17 students received OKAMP stipends in 2000-2001 academic year, with 13 earning GPA's between 3.00 and 4.00. Three (3) had 4.00 averages for the year;
- Four (4) scholars received corporate scholarships (as have 3 scholars in the past); three (3) scholars carry the #1 academic ranking for their respective class and major;
- Four (4) scholars participated in Summer 2000 internships

- *Shiloe Bear* made presentation at Spring 2001 Alliance meeting on research done at the Mueller Institute for Biomechanics in Bern, Switzerland
- Jennifer Coffey presented paper at the annual Research Symposium (Fall '01), entitled "*Does a Natural Wetland Improve Mine Drainage Water Quality?*"
- **Professional societies include:** American Indian Science and Engineering Society; National Society of Black Engineers; Society of Hispanic Professional Engineers, Association of Computing Machinery; Society of Women Engineers; American Indian Chemical Engineers; National Society of Collegiate Scholars; American Society of Mechanical Engineers; and the OU Engineers' Club;
- Jennifer Coffey made presentation at LS-OKAMP Research Symposium;
- **Campus/community volunteerism:** *Not a required service, but an encouraged one in which many students participate. One example is Joseph Garfield who renders extensive service in his church community, assisted with organizing a community petition to increase flood protection, assists at the local public library, and helps pre-college students in the computer lab;*
- **Summary of graduates:** Of the 75 students that have at some point participated in OKAMP, 21 have earned the BS degree, 4 anticipate graduation in Spring 2002, and an additional 19 are progressing toward their degree. Some of these students have been truly outstanding. **A problem that must be addressed is the financial sacrifice that students make when they pass up employment opportunities to go to graduate school - especially engineering graduates. A number of students have seriously considered graduate school right up to the last semester, but for various reasons chose full time employment.**



Avelia 'Baya' Crynes, assistant to Campus Coordinator, OU

## NORTHWESTERN OKLAHOMA STATE UNIVERSITY (NWOSU)

**Research:** Susie Hull participated in summer research project involving isolation of parthenolide (widely used as herbal remedy for arthritis and migraine from Feverfew, a plant known to have medicinal properties).

**Professional Meetings:** Elizabeth Fox attended the Intel International Science and Engineering Fair 2001 in San Jose, CA. She was a sponsor for winners of the NWOSU Science Fair.

**Summer 2000 Bridge Program:** Two (2) Native American participants - Keith Dale and Jessica Bullcoming completed College Algebra and are currently NWOSU enrollees

**Volunteerism:** Elizabeth Fox worked beyond required hours in Computer Science lab; Buster McClish served as liaison between OKAMP and Campus Coordinator, was math tutor, and is currently president of the NWOSU Math Club; Randy Hamilton and Kristy Yount assisted with biology labs; Anthony Thomas & Eric Charles tutored members of NWOSU basketball in mathematics;



Susan Hull, research intern, NWOSU

## LANGSTON UNIVERSITY

**Research:** Eleven (11) research projects were carried out by OKAMP students last summer at the Louisiana Universities Marine Consortium; University of Oklahoma Health Science Center; University of Oklahoma, and Langston University. Students involved were: *Robert Billingslea; Victor Harris, T'Aire Wallace; Barry Trotter; Angie Jungermann and Haja Raddar; Daquant Hornbeak and Tiffany Hutcherson; James*

*Patterson; Manssa Muhammad, Teremun Rider; DeMoyer Smith; T. Harris; S. Braggs, and Brandon Mayes.*

- Curtrina Hughes represented Oklahoma Alliance at the 2001 LSAMP Winter Workshop at the Smithsonian;
- D'Moyer Smith attended the 2001 NCUR meeting in Lexington, KY;
- Ten students attended the 2001 Annual Joint Meeting of Beta Kappa Chi Scientific Honor Society, the National Institute of Science, and the Brookhaven Semester Program held in Atlanta; 4 oral presentations were made;
- Eight (8) oral and three (3) poster presentations were made at the LSOKAMP Annual Research Symposium



NOTE: Langston University students and faculty; student at extreme right is Affiliate Scholar at St. Gregory's College

## UNIVERSITY OF CENTRAL OKLAHOMA (UCO)

**Research:** Elizabeth Turner was summer intern at the Dean McGee Eye Institute and completed the first two phases in a multi-phase process in creating a transgenic mouse expressing the human protein, Cre-recombinase. Elizabeth has received an OCAST stipend to continue the internship.

Several OKAMP scholars participated in Regional Research Day hosted by UCO.

**Professional Meetings:** Jalisha Booth-Petties and Elizabeth Turner attended the 2001 NCUR meeting in Lexington; Alan DeArman made a presentation at a Microbiology conference in Orlando, Summer '01





Dr. Dan Endres, UCO Coordinator, and students

## SOUTHWESTERN OKLAHOMA STATE UNIVERSITY (SWOSU)

- **Participants:** Five (5) current participants, all majoring in the natural sciences
- **Presentations:** Beta Beta Beta Regional Conference; Oklahoma Academy of Science Meeting, Fall '00; LS-OKAMP Annual Research Symposium; OK Regional Undergraduate Research Fair; National Conference for Undergraduate Research
- **Mentorship Program:** OKAMP participants involved with faculty research projects in paleontology, computer modeling, and history of women mathematicians
- **Academic Clubs & Professional Societies:** Beta Beta Beta Biology Society; SWOSU Chemistry and Biology Clubs;
- **Campus Activities/Volunteerism:** Freshmen orientation; tutoring; campus blood and food drives; community assistance with elderly programs; campus Panorama events



JoAnn Gonzales, sophomore, SWOSU

## CAMERON UNIVERSITY



- Participants in the Annual Research Symposium were *Sabrina Rubino, Jacque Davies, Aurelo Roig, Alishia Fields, Evette Woodley, Robert Merriweather, Rose Culhane, and Tiffany Miller*
- OKAMP students recently participated in the following two additional meetings: Oklahoma Academy of Science, which was held at Cameron, and Regional Universities Research Day at the University of Central Oklahoma.
- Kiemba Knowlin attended the Lexington, KY NCUR meeting, Spring 2001



Cameron students, Dr. Ted Snider, Coordinator (3<sup>rd</sup> from l), Cameron Administrator

## UNIVERSITY OF TULSA

- Terry Tidwell attended NCUR 2001
- Oral Presentations at the 6<sup>th</sup> Annual Research Symposium were made by Crystal Redden, Jim Arrowood, Matthew Morgan, and Andrew Aquirre; Posters were presented by Austin Abu, Brian Wilson, Terry Tidwell, John Green, and Ferrell Riley



Joel Gonzalez, graduate assistant, highlights LS-OKAMP activities at UT

## SOUTHEASTERN OKLAHOMA STATE UNIVERSITY (SEOSU)

### ***Summer Interns:***

- *Aquatic Biology:* Dominic Barrett, SEOSU, Dr. Tim Patton;
  - *OSU Forest Research (Idabel, OK):* Matt Skinner and Clay Alford
  - *Department of Chemistry:* Athena Dawson and Rebecca Johnson, with Dr. John Wright, SEOSU
  - *Chemistry Department:* Gerald Love, with Dr. Tim Smith, SEOSU
  - *Department of Botany:* B.J. Bench, with Dr. Stan Rice, SEOSU
  - *US Army Corp of Engineers at Lake Texoma:* Joshua Wingfield and Melissa Morales
- Interns participated in the Annual Research Symposium*

***Graduates:*** Gerald Love; Kari Scaggs; and Melissa Morales



Dr. Tim Patton (2<sup>nd</sup> from l) with 2 SEOSU students; right, UT student and graduate assistant

## **OKLAHOMA STATE UNIVERSITY (LEAD INSTITUTION)**

**Summer Bridge Program:** Fourteen (14) in-coming Freshmen participated in the 2001 Summer Bridge Program, enrolling in either College Algebra (Math 1513) or Trigonometry (Math 1613) and English Composition (English 1113). Achievements are as follows:

- GPA for College Algebra - 3.625
- GPA for Trigonometry - 3.5
- GPA for English - 3.14
- Overall GPA: 3.357
- 12 students earned GPA of 3.00 or higher
- 10 students made either the President's or Deans' List of Distinguished Students
- 4 students earned GPA of 4.00
- One participant, Donna Tyungu, was named a Gates Foundation Millennium Scholar



Bridge Program participants

**Summer Internship Program:** 12 participants gained research experience at various universities and corporations across the nation. Research location and participants were as follows:

- *Oklahoma State University:* Tiffany Frieze, Tara Denay Hamm, Edward Hara, Leslie Hara, Thomas Patten, and Anna Spicer
- *Stanford University:* John Castro
- *Stillwater Designs (Stillwater OK):* Patrick McLean
- *OK Department of Transportation:* Quentin Smith
- *Celanese Technical Center, Corpus Christi, TX:* Juan Molina
- *Oklahoma Gas & Electric Company, Oklahoma City:* Kervin Colbert
- *Entrepreneurial Technology Apprenticeship Program at the National Technology Transfer Center, Wheeling Jesuit University, Wheeling VA:* Mark Clytus



Tiffany Frieze, research intern in Dr. Carol Bender's lab, OSU

**Scholars Program:** Currently, 60 scholars are supported, which is a 65% increase from fall a year ago. Among outstanding senior participants and their activities are:

**Rachel Allen (Zoology):** Native American Student Association (NASA), Campus Life Advisory Board, MDAC Scholarship recipient, Multicultural Engineering Peer Award, American Indian Science & Engineering Society (AISES)

**Lorna Carter (Chemical Engineering):** Native American Scholarship Fund Scholar, OK State Regents for Higher Education OHLAP Scholar, AISES, Nat'l Society of Black Engineers (NSBE) officer, Women in Engineering Mentoring Program, Residence Hall Association

**Juan Molina (Chemical Engineering):** Chemistry Dept. Teaching Assistant; Latin American Student Association, Academic Team of Excellence, Hispanic Student Association, Am. Institute of Chemical Engineers, Latin and Dancing Cultural Club, Society of Hispanic Professional Engineers (SHPE), Omega Chi Epsilon Chemical Engineering Honor Society, has completed 4 summer internship

**Johnnetta Nesbitt (Chemical Engineering):** National Society of Black Engineers (officer), Council of Partners Multicultural Engineering Scholarship, Omega Chi Epsilon Chemical Engineering Honor Society, Delta Sigma Theta Sorority (President), summer internships at CONOCO and OK Natural Gas, Afro-American Student Association, American Institute of Chemical Engineers

**Mita Young (MIS) -** Regents Distinguished Scholar, Regent Enhancement Scholarship recipient, Lew Wentz Foundation Scholarship, Phillips Petroleum Scholarship, Mortar Board Honor Society, Golden Key Honor Society, Nat'l Honor Society of Collegiate Scholars, Omicron Delta Kappa Honor Society, Phi Eta Sigma Honor Society, Presidential Classroom Scholar, Internat'l Group Executive Committee, Off-campus Senator, Minority Executive Committee, Big 12 Conference Delegate

*In addition to organizations included above, LS-OKAMP students are involved in: Alpha Phi Omega Service Fraternity, Am. Assoc. of Airport Executives, Amer. Instit. Of Aeronautics and Astronautics, Amer. Society of Mechanical Engineers, Beta Kappa Chi Scientific Honor Society, National Institute of Science, Institute of Industrial Engineers, Burning Black Gospel Choir, Minority Women's Association, Women in Lifelong Leadership, Women in Engineering, Architecture, and Technology; Toastmasters International, Society of Black Engineers, Technologists, and Architects; OK City Youth Leadership Exchange Program, NAACP, Muslim Student Association; College of Engineering, Architecture, and Technology Student Council.*

**Volunteerism:** American Red Cross, Big Event Community Service Day, Big 12 Leadership Conference, Family Resource Center, Homeless in Stillwater, Humane Society, 'Into the Street', Kindergarten Mentor, Muscular Dystrophy Association, Academic Mentor, Project Success, Reading Buddies, and Stillwater Animal Shelter. *The vast majority of OSU OKAMP students engage in volunteer and philanthropic endeavors through church and other community organizations.*





Brent Adams, OSU Campus Coordinator

## **GRADUATE SCHOOL PARTICIPATION:**

- 1) Billy Gaston - LU; MS earned in computer science, OSU; PhD in progress, OSU
- 2) Byron Quinn - LU; MS earned, biochemistry, OSU; PhD student, OSU
- 3) Erma Simms - LU; MS in progress at OSU, Comp. Sci. & TeleComm
- 4) LaToya Penny - LU; MS program in progress, OSU, comp. sci
- 5) Bobby Gramling - LU; MS student, OSU,  
biochemistry
- 6) Chris Lee - LU; MS program, UCO, chemistry
- 7) Leah Turner-Gramling - LU; Ph.D. program,  
OUHSC, Pharmacy
- 8) Latricia Fitzgerald - LU; Ph.D. program,  
Biochemistry, Meharry Med. College;
- 9) Daniel Wilson - TU; Ph.D. program, comp. sci.,  
Carnegie Melon
- 10) Matt Jefferson - OU; OU graduate student in  
Engineering
- 11) Bruce Williams - ECU; MS earned, Engineering, OU
- 12) Jennifer Mann - ECU; MS earned, Univ. of AR Math
- 13) Ryan Birkenfeld - OSU; MS earned
- 14) Brett Cowan - OSU; MS earned, OSU, Civil Eng;
- 15) Cara Cowan - OSU; MS in progress, Mech. Eng., OSU
- 16) Edward Daniel - MS earned; Ph.D. in progress, OSU, Mech. Eng.
- 17) Joseph Jones - OSU; MS earned, Civil Eng.
- 18) Dawn Knight - OSU; MS in progress, Civil Eng, OSU
- 19) Kristi Perryman - OSU, MS in progress, Envir. Sci. OSU