

Research Alliance for Minorities

Al Geist, Computer Science and Mathematics Division
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Summary

Outreach through the Research Alliance for Minorities program continues to identify students and faculty members in science, mathematics, engineering, and technology disciplines for summer internships and collaborative research in support of the long-term goal of increasing the number of underrepresented minorities with advanced degrees in the workforce. Developing and expanding research and educational relationships with historically black colleges and universities and other minority educational institutions is carried out through the Computer Science and Mathematics Division, Computing and Computational Sciences Directorate at the Oak Ridge National Laboratory.

The 2002 summer interns were comprised of six African American females, four African American males, and one Native American male. Schools represented included Alabama A&M University, City University of New York-York College (CUNY), Fisk University, Morehouse College, State University of New York-Binghamton (SUNY), Wofford College, and the University of Notre Dame. Research topics ranged from computational biology to computational materials science to parallel implementation of 3-D symmetric-Galerkin boundary integral methods and 3-D modeling for visualization. For a complete listing, please visit the individual student project pages at:

<http://www.csm.ornl.gov/Internships/students2002.html>)

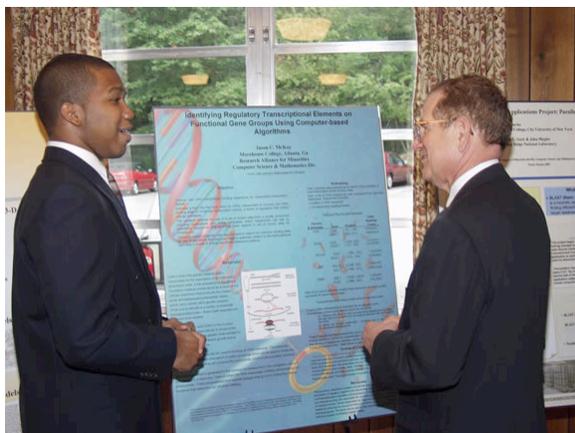
The 2002 summer interns had the distinct opportunity to discuss their research posters with Office of Science Director, Dr. Ray Orbach, during the closing banquet. Dr. Orbach gave an inspiring address and then talked with each student about his/her summer research project. Student posters

were displayed for parents and faculty members in attendance at the recognition banquet.



Tosin Adeyeye, Fisk University, discusses her project in acoustic detection modeling with Dr. Ray Orbach. The project was highlighted on TechLive in August 2002 and is aimed at early detection of the Asian longhorned beetle before it becomes a threat to U.S. forests. For further information see: (<http://www.techtv.com/news/scitech/story/0,24195,3397834,00.html>)

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Jason McKay, Morehouse College, discusses his project in computational biology with Dr. Orbach.

Feedback from family and faculty indicate that the program is having a positive impact: “. . . upon returning to the . . . University in September 2002, after a summer of working in your program, he was a different student - -enthusiastic and energized about engineering. He shifted into high gear and became very conscientious, persistent, and focused . . .”



Center for Computational Sciences staff member, Rebecca Fahey, discusses the central role of computing and educational opportunities at ORNL with a student.

More than 200 students and faculty members from 15 HBCUs visited ORNL for a “Day of Science” on November 18, 2002. (<http://www.csm.ornl.gov/DOS/>)

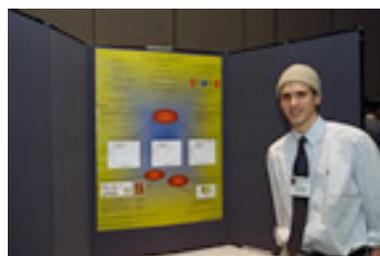
Three of the 2002 interns participated in the educational program offered during

SuperComputing02 in Baltimore, Maryland, November 2002.

Two of the 2002 students presented their research posters at the DOE Nanoscale Science Research Centers Workshop in Washington, DC, Feb. 26-28, 2003. (http://www.ornl.gov/doe_nsrc_workshop/summary.htm)



Lori Collins, CUNY, York College, at the DOE Nanoscale Science Research Centers Workshop



Dene Farrell, SUNY, Binghamton, at the DOE Nanoscale Science Research Centers Workshop

The Computer Science and Mathematics Division was recognized during a recent UT-Battelle awards ceremony for hosting and mentoring the greatest number of minority students across the Laboratory. The program coordinator was recognized with the Science Education Advocate Award.

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