

A C H E

ALABAMA COMMISSION ON HIGHER EDUCATION

NO CHILD LEFT BEHIND (NCLB)
P.L. 107-110, TITLE II, PART A/SUBPART 3
PROFESSIONAL DEVELOPMENT PROGRAM
IMPROVING TEACHER QUALITY: MASTERY OF CONTENT

PROJECT DIRECTORY

FISCAL YEAR 2006-2007

ALABAMA COMMISSION ON HIGHER EDUCATION

100 North Union Street

P.O. Box 302000

Montgomery, Alabama 36104-3758

Phone: 242-2135

Fax: 242-0268

Website: www.ache.state.al.us

ALABAMA COMMISSION ON HIGHER EDUCATION

FY 2006-2007

PROJECT DIRECTORY

Contents

Foreword	iii
Auburn University <i>Critical Thinking and Problem Solving :</i> <i>A Discrete Math Leadership Institute for K-8th Grade Teachers</i>	1
Jacksonville State University <i>IMPACTSEED V:</i> <i>Improving Physics and Chemistry Teaching in Secondary Schools</i>	2
Troy University <i>Comp II:</i> <i>Comprehension and Composition</i>	3
Troy University – Dothan Campus <i>Wiregrass Math and Science Consortium</i>	4
Tuskegee University <i>Utilizing an Inquiry Based Approach To Improve Teachers' Mastery of Content</i> <i>In Science and Mathematics in Greene and Wilcox Counties</i>	5
University of Alabama at Birmingham <i>ALAHASP 2006-2007</i> <i>Alabama Hands-On Activity Science Program</i>	6
University of Alabama at Birmingham <i>The University-School Partnership for Secondary Science Advancement</i>	7
University of Alabama in Huntsville <i>The Success Through Academic Research (STAR) Project:</i> <i>The Independent Study Scholarship Program</i>	8
University of Alabama in Huntsville <i>Teaching the Future:</i> <i>Mastery of Science and Mathematics through Space Exploration</i>	9
The University of South Alabama / Alabama Institute for Education in the Arts <i>Comprehensive Arts Education:</i> <i>Alabama</i>	10

Foreword

Under authority of Public Law 107-110, the Alabama Commission on Higher Education (ACHE) is awarding a total of \$1,148,604 Fiscal Year 2006-2007 federal funds to Alabama institutions for K-12 teacher professional development.* Of that amount, \$1,022,446 is awarded to continue long-term projects that received FY2005-2006 professional development grants; \$126,158 is awarded to two new projects in this program. Six public universities and one private university were awarded these grants to support partnerships between universities and high-need school districts. One also includes co-project leadership with a non-profit agency. All are designed to provide long-term, statewide professional development to improve teaching in Alabama public and private schools. A major objective is to achieve high student performance standards, with emphasis on serving high need local school districts.

These projects provide K-12 teachers with individual hands-on training in the most current technology and proven learning strategies. Projects also include follow-up sessions and technical assistance during the academic year after summer workshops to refresh, reinforce, and re-establish principles and techniques learned. Follow-up varies by project but usually includes one-day workshops during the school year and on-site observation/assistance visits to teachers in their schools. In addition, projects typically maintain continuing communication with on-line contact by e-mail, print material, and internet websites.

Expenses for administering these projects and for providing project materials are covered by the ACHE NCLB program along with support from the host institutions, private corporations, and government agencies. One ACHE NCLB grant supports teachers' independent research, including study abroad. Travel and related expenses for teachers participating in other projects are provided by sources other than ACHE NCLB funds.

Information on the objectives, schedules, and activities of these projects may be obtained from the project directors listed in this directory. For information on the administration of the higher education NCLB Program in Alabama, contact Dr. Elizabeth French at (334)242-2179 [Elizabeth.French@ache.alabama.gov] or Dr. James Conely at (334)242-2235 [Jim.Conely@ache.alabama.gov] in the Office of Institutional Effectiveness and Planning at ACHE, P. O. Box 302000, Montgomery, Alabama, 36130-2000. The Project Directory and additional information on this program are available online at <http://www.ache.state.al.us> in "Departmental Pages" under "No Child Left Behind – Title II."

*Projects with FY 2006-2007 funding include activities from Spring 2007 through Spring 2008.

Auburn University

Critical Thinking and Problem Solving: A Discrete Math Leadership Institute for K-8th Grade Teachers

Partners: College of Arts and Sciences
College of Education
Public School System: Dallas County

Based on a national program developed at Rutgers University, a five-day institute and three follow-up sessions will train teachers from Dallas County, a high need school district. The teachers join a community of others who have already participated in previous institutes, thereby developing a support group to encourage and challenge each other. An e-mail list-serve links them nationally to other teachers involved in the program. They are introduced to an array of applications based on deep math content to master during the program. Discrete Mathematics includes many math problems that are accessible to many different levels of teachers. It develops critical thinking skills and ideas of proofs. Included are many skills detailed in Courses of Study of the Alabama State Department of Education and the National Council of Teachers of Mathematics (NCTM Participants receive extensive materials each day to ensure that each teacher leaves the institute fully prepared to apply their learning in their own classrooms).

Project Director: Dr. Chris Rodger, Professor

Address: Mathematics and Statistics
221 Parker Hall
Auburn University AL 36489-5307

Telephone: (334) 844-3746

FAX: (334) 844-3611

E-mail: rodgecl@auburn.edu

2007 Institute Date:
May 24-25, 29-31

Location:
Selma: Learning Resource Center
5570 Water Ave.

Follow-up Dates:
To be determined at the Summer Institute.

Jacksonville State University

IMPACTSEED V: Improving Physics and Chemistry Teaching in Secondary Education

Partners: College of Arts & Sciences
College of Education and Professional Studies
Public School Systems: Anniston City; Attalla City; Autauga County; Blount County;
Calhoun County; Cherokee County; Clay County; Cleburne County; Gadsden City;
Guntersville City; Jacksonville City; Jefferson County; Pell City; Piedmont City;
Randolph County; Roanoke City; St. Clair County; Talladega County
Private School: Westbrook Christian School

IMPACTSEED V addresses two pressing problems: (a) the high number of physics and chemistry teachers who are not highly qualified, and (b) low achievement of students taking physical sciences. About 83% of chemistry teachers and 94% of physics teachers are teaching out of field; and regional student achievement in physical sciences is much lower than the state average. To resolve these problems, the project helps teachers to make physics and chemistry understandable and fun to learn within a hands-on, inquiry-oriented setting, and also to overcome the fear-factor for these subjects among students and teachers alike. Five components comprise the project: (1) an intensive two-week summer professional development program; (2) five technology workshops during the academic year; (3) sustained, year-round on-site support to the teachers; (4) year-round physics and chemistry hotlines to offer immediate support to the teachers when needed; and (5) a website to disseminate the results of the project and to list useful resources. IMPACTSEED offers hands-on, inquiry-based instruction with a strong correlation to the Alabama Course of Study and national standards with primary emphasis on having students discover rather than memorize and with teachers questioning rather than telling.

Project Director: Dr. Nouredine Zettili, Professor

Address: Department of Physical and Earth Sciences
Jacksonville State University
700 Pelham Road North
Jacksonville, AL 36265

Telephone: (256) 782-8077

E-mail: nzettili@jsucc.jsu.edu

Internet: <http://www.jsu.edu/depart/pes/physics/impactseed/>

2007 Institute Date:
June 4-15

Location:
Jacksonville State University

Follow-up Dates:
Five school-year Saturdays TBA

Troy University

Comp II: Comprehension and Composition

Partners: College of Education; College of Arts and Sciences
Public School Systems: Crenshaw County
Private School: Pike Liberal Arts School

This pilot project teams eight practicing tenth grade teachers in four high schools with pre-service secondary education candidates in a professional development sequence to create and implement a collection of graphic organizers designed to support the Alabama Courses of Study in tenth grade English and Social Science. Determination of the success of the project will be based on a comparison of baseline and end-of-implementation-year data from the tenth grade Alabama Direct Assessment of Writing and the Alabama High School Graduation Examinations in Reading and Social Science. Products created to support the project will be made available via a dedicated web presence.

Project Director: Dr. Marian J. Parker, Associate Professor

Address: College of Education
124 McCartha
Troy, AL 36082

Telephone: (334) 670-5661

Fax: (334) 670-3548

E-mail: mjparker@troy.edu

2007 Institute Dates:
June 12, 13, 14, 2007

Location:
Troy University, Troy campus

Follow-up Dates:
August 15, 2007
November 14, 2007
February 13, 2008

Troy University – Dothan Campus

Wiregrass Math and Science Consortium

Partners: College of Education
College of Arts and Science
University of Alabama in Huntsville “Space Exploration Program for Teachers”
NASA Marshall Spaceflight Center and Johnson Space Center
Alabama Peanut Producers Association
Public School Systems: Dothan City; Henry County; Houston County; Ozark City;
Fort Rucker Schools; Eufaula City Schools

The Wiregrass Math and Science Consortium continues to promote inquiry-based math and science instruction highlighting the application of technology. Reading, writing, and cross-curricular cultural enrichment strategies are utilized with the context of a year of aerospace studies in conjunction with the shuttle launches of STS-118 and STS-120. Activities with target schools include inquiry based studies written by participating teachers on peanuts and cinnamon basil seeds flown in space, a proposed downlink from the International Space Station, as well as emails to children in the Wiregrass area from space. “Teacher partnership” activities facilitate the development of professional learning communities as well as shared programs with other education institutions. School administrators are involved in an Educational Leadership Forum focusing on skills needed to initiate positive change. Special emphasis is placed on serving teachers from high-need school districts.

Project Directors: Ms. Christina Johnson; Ms. Sandy Armstrong

Address: College of Education
Troy University - Dothan Campus
P. O. Box 8368
Dothan, AL 36304

Telephone: (334) 983-6556, ext. 1371 or 1290

FAX: (334) 983-6322

E-mail: cljohnson@troy.edu [Johnson] / SanA99Aero@aol.com [Armstrong]

2007 Institute Dates (tentative):
June 25-26; July 26-27

Location:
Troy University, Dothan Campus

Follow-up Dates (tentative):
September 2007 [Leadership Dinner: date TBA]
October 8-12, 2007 [Birds and Flight]; [Sessions in areas schools]
November 10, 2007 [Aerospace Day]
January 2008 [Technology Workshop: date TBA]
March 2008 [Concluding Session]

Tuskegee University

Utilizing an Inquiry Based Approach to Improve Teachers' Mastery of Content in Science and Mathematics in Greene and Wilcox Counties

Partners: College of Education
College of Agricultural, Environmental, and Natural Sciences
Public Schools: Greene County; Wilcox County

The primary objective of this project is to increase student achievement in the sciences and mathematics at the middle and high school levels with a focus on 7th and 8th grades. In addition to summer institutes and ongoing meetings, the project includes specialty training for senior teachers at each school along with support from math/science leaders for each county, and administrators and university faculty. The curriculum is research-based consistent with State Standards for Professional Development and Technology Development. The goal is to ensure that highly qualified teachers are provided with innovative approaches for teaching science and mathematics to diverse students with administrative support and appropriate technology.

Project Director: Dr. Carolyn H. Gathright

Address: Department of Curriculum and Instruction
BIOE 70-407
Tuskegee, AL 36088

Telephone: (334) 727-8144

FAX: (334) 724 -4384

E-mail: gathright@tuskegee.edu
cmorris@tuskegee.edu

2007 Institute Dates:
July 9-13, 2007
July 23-27, 2007

Locations:
Wilcox County High School
Greene County High School

Follow-up Dates:
TBA

University of Alabama at Birmingham

ALAHASP 2007-2008: Alabama Hands-On Activity Science Program

Partners: UAB School of Education
UAB Science and Technology Honors Program
University of Alabama in Huntsville, Institute for Science Education
University of South Alabama (Science Education)
Public School Systems: Alabama School for the Deaf; Alabama School for the Blind; Birmingham City; Escambia County/Turtle Point Science Center; Gadsden City; Jefferson County; Leeds City; Limestone County; St. Clair County; Talladega County; Trussville City
Private Schools: Diocese of Birmingham; Hope Academy; Spring Valley School
Businesses and Non-Profit Agencies: Birmingham Botanical Society

ALAHASP is an inquiry-centered, hands-on elementary science education program aligned with state and national standards. Since 1994 the project has served over 7,000 K-8 teachers in 48 school systems across the state. In 2007-2008 the project will provide ongoing professional development, research-based curriculum (with materials), leadership development, and consultation services to system administrators. The UAB Science and Technology Honors Program will provide teams of Honors students to work with selected Birmingham Area elementary teachers participating in the ALAHASP program.

Faculty Advisor: Dr. Joseph Burns, Associate Professor

Co-Director: Mrs. Joan Dawson

Co-Director: Mrs. Beverly Radford

Address: ALAHASP, EB 121
1530 3rd Avenue South
Birmingham, AL 35294-1250

Telephone: (205) 934-6885 *or* 934-6843

FAX: (205) 996-7081 *or* 934-4792

E-mail: jburns@uab.edu / jdawson@uab.edu / bevrad@uab.edu
[Burns] [Dawson] [Radford]

Internet: <http://www.uab.edu/alahasp>

2007-2008 Workshops: View the ALAHASP website or call/e-mail the ALAHASP staff for current schedules.

University of Alabama at Birmingham

The University-School Partnership for Secondary Science Advancement

Partners: Center for Community Outreach Development (CORD)
UAB School of Education
Public School Systems: Bessemer City; Birmingham City; Chilton
County; Jefferson County; Tarrant City
Private Agency: McWane Science Center

Continuing a program that has already trained over 210 Alabama high school teachers in cutting edge science education, "BioTeach" is a four-week cell and molecular biology course that is offered this year to sixteen high school science teachers, who receive high level content knowledge, hands-on research, teaching experiences and training in inquiry-based teaching methods. In addition, "BioTeach Advance" is offered to teachers enrolled in the program more than five years ago to refresh and update their science content knowledge. Mentoring during the academic year unites all of these participating teachers to help them craft "best practices" for teaching and to provide their classes the opportunity for on-site laboratory experiences in CORD's GENEius Lab at Birmingham's McWane Science Center.

Project Director: Dr. J. Michael Wyss, Professor

Address: Center for Community Outreach Development
CH19, Fifth Floor
University of Alabama at Birmingham
933 19th Street North
Birmingham, AL 35294

Telephone: (205) 934-5198

FAX: (205) 934-5158

E-mail: jmwyss@uab.edu

Training Dates in 2007:
BioTeach: June 18 – July 16
BioTeach Advance: June 4-8; June 11-29; July 9-27

Location:
Birmingham: McWane Science Center

Follow-up Dates (Saturdays - 9:00-5:00):
September 22, 2007
February 9, 2008
April 27, 2008
Project staff assistance visits to teachers in their classrooms: TBA

University of Alabama in Huntsville

The Success Through Academic Research (STAR) Project: The Independent Study Scholarship Program

Partners: UAH Office of International Programs and Services
UAH Department of Education
UAH Institute for Science Education
Public School Systems: Washington County; Wilcox County

STAR provides meritorious Alabama K-12 teachers in “high need” schools with an opportunity for independent research and study in the subjects they teach to increase their expertise and teaching effectiveness. Teachers will be encouraged to develop plans for study or research in a foreign locale. The partnership includes specialists from all fields of teaching and research at UAH under the guidance of the UAH Office of International Programs and Services (OIPS) and two high-need school districts. The districts identify teachers from their schools who meet minimal criteria of excellence and invite them to apply for scholarships of up to \$3,000 each. Then if space is available, applications from teachers in all other Alabama districts are accepted. All study programs include professional mentoring and follow-up.

Project Director: Dr. John R. Pottenger, Director

Address: Office of International Programs and Services
Madison Hall, Room 137
University of Alabama in Huntsville
Huntsville, AL 35899

Telephone: (256) 824-6055

FAX: (256) 824-6142

E-mail: oiip@uah.edu

2007-2008 Independent Study Dates and Locations:
[varies by teacher and study program]

Follow-up:
Spring 2008 [Date TBA]

University of Alabama in Huntsville

Teaching the Future: Mastery of Science and Mathematics through Space Exploration

Partners: UAH Division of Continuing Education
UAH Department of Education
UAH Institute for Science Education
Public School System: Wilcox County
Government Agency: U. S. Space & Rocket Center

"Teaching the Future" is a space science education project to help Alabama teachers meet the objectives of the Alabama Courses of Study in science and mathematics, correlated with the Stanford 10 Achievement Test. The project introduces important historical, theoretical, and practical implications of space exploration for teaching science and mathematics, provides on-site, first-hand exposure to operational space facilities of the United States space program, and facilitates interaction with educational, government, and corporate personnel who are or have been involved directly with space exploration and science education. Workshops provide hands-on experiences for classroom implementation of relevant concepts, constructivist pedagogies, and teaching materials.

Project Director: Dr. John R. Pottenger, Director

Address: Division of Continuing Education
Educator Programs
Wilson Hall, Room 110
University of Alabama in Huntsville
Huntsville, AL 35899

Telephone: (256) 824 -6835

FAX: (256) 824 -6760

E-mail: space@cepo.conted.uah.edu

Internet: <http://www.coned.uah.edu/educator.cfm> [link: "Exploring Space"]

2007 Summer Workshops:
June 11-15, 2007
July 16-20, 2007

Locations:
University of Alabama in Huntsville;
The U. S. Space & Rocket Center;
Redstone Arsenal

Follow-up:
Spring 2008 [dates TBA]

University of South Alabama /Alabama Institute for Education in the Arts

Comprehensive Arts Education: Alabama

Partners: College of Arts and Sciences
College of Education
Public School Systems: Baldwin County; Mobile County; Montgomery County; Selma City
Private School: Saint James School, Montgomery
Non-Profit Agencies: Alabama Shakespeare Festival; Montgomery Museum of Fine Arts

Comprehensive Arts Education with its partner agencies and schools serves elementary and secondary classroom teachers statewide. While art is now part of Alabama's core curriculum, most art instruction at the elementary level falls to general classroom teachers. With AIEA as the only statewide comprehensive arts education professional development provider, this program provides sequential and intensive instruction in comprehensive arts education along with training in curriculum development and arts education advocacy. Highly qualified university faculty, nationally recognized teaching artists, and master teachers provide instruction, mentoring in the individual classrooms, and assistance with guided practice in final projects developed in this program. On-going SuperSaturday renewal sessions open to any former participants are conducted throughout the year. Project staff assures that all work is directly tied to appropriate national and state standards reflecting best practices identified in research and the *Alabama Arts Education Plan*.

Project Director: Martha Lockett, Executive Director, AIEA

Co-Director: Jeannette Fresne, Assistant Professor, University of South Alabama

Address: General Information and Workshops: Alabama Institute for Education in the Arts
One Festival Drive, Montgomery, 36117
Arts in Education: Department of Music, Studio 1072
Laidlaw Performing Arts Center
University of South Alabama
Mobile, AL 36688-0002.

Telephone: (334) 396 -2432 [Lockett] (251) 460 -6697 [Fresne]

E-mail: mlockett@artseducation.org [Lockett] jfresne@usouthal.edu [Fresne]

Internet: <http://www.artseducation.org>

USA/AIEA continues on page 12

2007-2008 Institute Dates:

June 25-30	Summer Institute
July 16-19	Curriculum Integration III
July 19	Curriculum Renewal I, II
August 24, 25	<i>Arts in Education</i>
September 21, 22	<i>Arts in Education</i>
October 19, 20	<i>Arts in Education</i>
November 2, 3	<i>Arts in Education</i>
February 8, 9	<i>Arts in Education</i>
March 7, 8	<i>Arts in Education</i>

Locations:

Montgomery, AL
Montgomery, AL
Montgomery, AL
Baldwin, Mobile County
Baldwin, Mobile County
Baldwin, Mobile County
Baldwin, Mobile County
Baldwin, Mobile County
Baldwin, Mobile County

AIEA SuperSaturdays: TBA

AIE Mentorship Dates:

TBA - September through April following each AIE session