

# ALABAMA COMMISSION ON HIGHER EDUCATION

No Child Left Behind Act (NCLB)

P.L. 107-110, TITLE II, PART A/SUBPART 3

PROFESSIONAL DEVELOPMENT PROGRAM

IMPROVING TEACHER QUALITY: MASTERY OF CONTENT

## PROJECT DIRECTORY

FISCAL YEAR 2005-2006

## **ALABAMA COMMISSION ON HIGHER EDUCATION**

100 North Union Street

P.O. BOX 302000

Montgomery, Alabama 36104-3758

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Website: [www.ache.state.al.us](http://www.ache.state.al.us)

**ALABAMA COMMISSION ON HIGHER EDUCATION  
FY 2005-2006  
PROJECT DIRECTORY**

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# FOREWORD

**U**NDER AUTHORITY OF PUBLIC LAW 107-110, THE ALABAMA COMMISSION ON HIGHER EDUCATION (ACHE) IS AWARDING A TOTAL OF \$1,164,220 FISCAL YEAR 2005-2006 FEDERAL FUNDS FOR K-12 TEACHER PROFESSIONAL DEVELOPMENT.\* OF THAT AMOUNT, \$1,057,908 IS AWARDED TO CONTINUE LONG-TERM PROJECTS THAT RECEIVED FY2004-2005 PROFESSIONAL DEVELOPMENT GRANTS; \$106,312 IS AWARDED TO TWO NEW PROJECTS IN THIS PROGRAM. SIX PUBLIC UNIVERSITIES AND ONE PRIVATE UNIVERSITY RECEIVE THESE GRANTS TO SUPPORT PARTNERSHIPS BETWEEN UNIVERSITIES AND HIGH-NEED SCHOOL DISTRICTS. ONE PROJECT ALSO INCLUDES PARTNERSHIP 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 STATE CONTENT AND STUDENT PERFORMANCE STANDARDS, WITH EMPHASIS ON SERVING HIGH NEED LOCAL SCHOOL DISTRICTS.

IN THESE PROJECTS, K-12 TEACHERS RECEIVE 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. THE FOLLOW-UP OCCURS IN DIFFERENT WAYS FOR DIFFERENT PROJECTS 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 [EFRENCH@ACHE.STATE.AL.US] OR DR. JAMES CONELY AT (334) 242 2235 [JCONELY@ACHE.STATE.AL.US] 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](http://www.ache.state.al.us) IN "DEPARTMENTAL PAGES" UNDER "NO CHILD LEFT BEHIND – TITLE II."

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\*PROJECTS WITH FY 2005-2006 FUNDING INCLUDE ACTIVITIES FROM SPRING 2006 THROUGH SPRING 2007.

# AUBURN UNIVERSITY

## *CRITICAL THINKING AND PROBLEM SOLVING: A DISCRETE MATH LEADERSHIP INSTITUTE FOR K-8<sup>TH</sup> 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, AN EIGHT-DAY INSTITUTE AND THREE FOLLOW-UP SESSIONS WILL TRAIN UP TO 30 TEACHERS FROM 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 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

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221 PARKER HALL  
AUBURN UNIVERSITY AL 36489-5307

**TELEPHONE:** (334) 844-3746

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**E-MAIL:**                    [RODGEC1@AUBURN.EDU](mailto:RODGEC1@AUBURN.EDU)

**2006 INSTITUTE DATE:**

MAY 22 – JUNE 1 (EXCEPT MEMORIAL DAY)

**LOCATION:**

SELMA: LEARNING RESOURCE CENTER  
5570 WATER AVE.

**FOLLOW-UP DATES:**

OCTOBER 2006; FEBRUARY, APRIL 2007

[DAYS TO BE SELECTED AT THE 2006 SUMMER INSTITUTE ]

# JACKSONVILLE STATE UNIVERSITY

## *IMPACTSEED IV: 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; BLOUNT  
COUNTY; CALHOUN COUNTY; CLAY COUNTY; CLEBURNE COUNTY;  
ETOWAH COUNTY; GADSDEN CITY; GUNTERSVILLE CITY;  
JACKSONVILLE CITY; JEFFERSON COUNTY; OXFORD CITY; PELL  
CITY; PIEDMONT CITY; RANDOLPH COUNTY; ROANOKE CITY;  
TALLADEGA CITY; TALLADEGA COUNTY  
PRIVATE SCHOOL: THE DONOHO SCHOOL

IMPACTSEED IV ADDRESSES TWO PRESSING LOCAL PROBLEMS: (A) ABOUT 83% OF CHEMISTRY TEACHERS AND 94% OF PHYSICS TEACHERS ARE TEACHING OUT OF FIELD; (B) 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; (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 ZETILI, PROFESSOR

**ADDRESS:** DEPARTMENT OF PHYSICAL AND EARTH SCIENCES  
JACKSONVILLE STATE UNIVERSITY  
700 PELHAM ROAD NORTH  
JACKSONVILLE, AL 36265



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**E-MAIL:** [NZETTILI@JSUCC.JSU.EDU](mailto:NZETTILI@JSUCC.JSU.EDU)

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

**2006 INSTITUTE DATE:**

JUNE 5-16

**LOCATION:**

JACKSONVILLE STATE UNIVERSITY

**FOLLOW-UP DATES:**

FIVE SCHOOL-YEAR SATURDAYS TBA

# **SAMFORD UNIVERSITY**

## ***EXTENDED COMMUNITIES OF PRACTICE: MASTERY OF SCIENCE EDUCATION THROUGH LEADERSHIP***

**PARTNERS:** INSTITUTE FOR TEACHING AND STUDENT ACHIEVEMENT (ITSA) AT THE  
ORLEAN BULLARD BEESON SCHOOL OF EDUCATION AND  
PROFESSIONAL STUDIES

DEPARTMENT OF BIOLOGY, HOWARD COLLEGE OF ARTS AND  
SCIENCE

SOUTHEAST EISENHOWER REGIONAL CONSORTIUM FOR  
MATHEMATICS & SCIENCE AT SERVE

PUBLIC SCHOOL SYSTEMS: JEFFERSON COUNTY; FAIRFIELD CITY

EXTENDED COMMUNITIES OF PRACTICE: MASTERY OF SCIENCE EDUCATION THROUGH LEADERSHIP (MSEL) IS FOCUSED ON INCREASING PROFESSIONAL KNOWLEDGE AND STUDENT ACHIEVEMENT IN SCIENCE. BASED ON FORMATIVE LEADERSHIP THEORY, MSEL METHODS INCLUDE INSTITUTES AND WORKSHOPS, FACULTY STUDY GROUPS, COACHING AND MENTORING, AND TRAINING IN (1) USING DATA TO DRIVE DECISION MAKING; (2) INTEGRATION OF TECHNOLOGY; (3) LIFE SCIENCE CURRICULA; AND (4) LEADERSHIP DEVELOPMENT. THIS YEAR EXPANDS TO INCLUDE FOUR COHORTS OF TEACHER LEADERS IN THREE NEW SCHOOLS AND ONE NEW SCHOOL DISTRICT. ALL ARE ENGAGED IN DEVELOPING AND DELIVERING NEW STRATEGIES FOR TEACHING AND LEARNING SCIENCE. TEACHERS ALSO PARTICIPATE IN PRODUCING A REPLICATION MANUAL/TOOL KIT TO AID IN REPLICATING THE TRAINING AND DEVELOPMENT PROCESS TO BENEFIT OTHER TEACHERS.

**PROJECT DIRECTOR:** DR. DEBORAH CHILDS-BOWEN

**ADDRESS:** INSTITUTE FOR TEACHING AND STUDENT ACHIEVEMENT  
OBB SCHOOL OF EDUCATION AND PROFESSIONAL STUDIES  
SAMFORD UNIVERSITY  
800 LAKESHORE DRIVE  
BIRMINGHAM, AL 35229

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**FAX:** (205) 726 4301

**E-MAIL:** DACHILDS@SAMFORD.EDU

**2006 INSTITUTE DATES:**

APRIL 18

[OTHER DATES TBA]

**LOCATION:**

SAMFORD UNIVERSITY

**FOLLOW-UP DATES:**

[TBA]

# TROY UNIVERSITY—DOTHAN CAMPUS

## *WIREGRASS MATH AND SCIENCE CONSORTIUM*

**PARTNERS:** COLLEGE OF EDUCATION  
COLLEGE OF ARTS AND SCIENCE  
PAIGE (PARTNERSHIP ASSISTANCE IN GROWING EDUCATORS)  
PUBLIC SCHOOL SYSTEMS: DOTHAN CITY; EUFAULA CITY;  
HENRY COUNTY; HOUSTON COUNTY; OZARK CITY

THE WIREGRASS MATH AND SCIENCE CONSORTIUM PROMOTES INQUIRY-BASED MATH AND SCIENCE INSTRUCTION HIGHLIGHTING THE APPLICATION OF TECHNOLOGY. LANGUAGE ARTS/ WRITING AND CROSS-CURRICULAR CULTURAL ENRICHMENT STRATEGIES ARE PRESENTED TO DEMONSTRATE THE NEED FOR INTEGRATING ALL CONTENT AREAS. AEROSPACE ACTIVITIES ARE INCLUDED TO PROMOTE STUDENT INTEREST IN SUCH FIELDS AS ENGINEERING AND TECHNOLOGY. THE CONSORTIUM SUPPORTS A TEACHER'S ASSISTANCE CENTER ON THE TSUD CAMPUS, A "COMMUNICATION STATION" PAGE ON THE CONSORTIUM'S WEBPAGE AND "TEACHER PARTNERSHIP" ACTIVITIES FACILITATE THE DEVELOPMENT OF PROFESSIONAL LEARNING COMMUNITIES. 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

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**2006 INSTITUTE DATES:**

JUNE 28, JULY 13-14

**LOCATION:**

TROY UNIVERSITY DOTHAN

**FOLLOW-UP DATES:**

2006: SEPTEMBER 21, OCTOBER 24, NOVEMBER 17

2007: FEBRUARY 9

# UNIVERSITY OF ALABAMA AT BIRMINGHAM

*ALAHASP 2006-2007:*

*ALABAMA HANDS - ON ACTIVITY SCIENCE PROGRAM*

**PARTNERS:** SCHOOL OF EDUCATION  
SCHOOL OF NATURAL SCIENCES AND MATHEMATICS  
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; BESSEMER CITY;  
BIRMINGHAM CITY; GADSDEN CITY; HUNTSVILLE CITY;  
JEFFERSON COUNTY; LEEDS CITY; LIMESTONE COUNTY;  
MOBILE COUNTY; TALLADEGA COUNTY; TARRANT CITY  
PRIVATE SCHOOLS: DIOCESE OF BIRMINGHAM; HOPE ACADEMY;  
SPRING VALLEY SCHOOL  
BUSINESSES AND NON-PROFIT AGENCIES: BIRMINGHAM BOTANICAL  
SOCIETY; GULF COAST EXPLOREUM SCIENCE CENTER

ALAHASP IS AN INQUIRY-CENTERED, HANDS-ON ELEMENTARY SCIENCE EDUCATION PROGRAM PROVIDING PROFESSIONAL DEVELOPMENT ALIGNED WITH STATE AND NATIONAL STANDARDS FOR RESEARCH-BASED CLASSROOM MATERIALS, LEADERSHIP DEVELOPMENT, AND CONSULTATION SERVICES TO SYSTEM ADMINISTRATORS. SINCE 1995 THE PROJECT HAS SERVED OVER 10,200 K-6 TEACHERS IN 45 SCHOOL SYSTEMS. IN 2006-2007 THE PROJECT IS PROVIDING ONGOING SUPPORT OF SCIENCE REFORM IN SCHOOLS SERVED IN THE PARTNER SCHOOLS, CONDUCTING LEADERSHIP INSTITUTES FOR TEACHERS IN PARTNER SYSTEMS, ASSISTING ALL SCHOOL SYSTEM PARTNERS WITH LONG-RANGE PLANNING FOR CONTINUING PROFESSIONAL DEVELOPMENT OF THEIR TEACHERS, AND PARTNERING WITH THE UAB SCIENCE AND TECHNOLOGY HONORS PROGRAM FOR COLLABORATION BETWEEN BIRMINGHAM AREA ELEMENTARY TEACHERS AND UAB SCIENCE HONORS STUDENTS IN ORDER TO IMPROVE TEACHER AND STUDENT SCIENCE CONTENT KNOWLEDGE.

**PROJECT DIRECTOR:** DR. JOSEPH BURNS, ASSOCIATE PROFESSOR

**EDUCATION DIRECTOR:** MS. JOAN DAWSON

**PROGRAM MANAGER:** Ms. BEVERLY RADFORD

**ADDRESS:** ALAHASP, EB 121  
1530 3<sup>RD</sup> AVENUE SOUTH  
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[BURNS] [DAWSON] [RADFORD]

**INTERNET:** [HTTP://WWW.UAB.EDU/ALAHASP](http://WWW.UAB.EDU/ALAHASP)

**2006-2007 WORKSHOPS:** VIEW THE ALAHASP WEBSITE OR CALL/E-MAIL THE ALAHASP STAFF FOR CURRENT SCHEDULES.

# UNIVERSITY OF ALABAMA AT BIRMINGHAM

## *PROFESSIONAL DEVELOPMENT FOR CHEMISTRY TEACHERS USING ONLINE CONTENT AND HANDS-ON LAB EXERCISES*

**PARTNERS:** SCHOOL OF EDUCATION: DEPARTMENT OF EDUCATIONAL LEADERSHIP  
SCHOOL OF NATURAL SCIENCES AND MATHEMATICS,  
DEPARTMENT OF CHEMISTRY, SCIENCE IN MOTION  
CHEMISTRY PROGRAM  
PUBLIC SCHOOL SYSTEM: BIRMINGHAM CITY

THE OBJECTIVES OF THIS PROJECT ARE TO –

1. DECREASE THE NUMBER OF TEACHERS WHO ARE TEACHING OUTSIDE THEIR FIELD;
2. INCREASE THE TEACHERS' KNOWLEDGE OF MODERN ANALYTICAL INSTRUMENTATION, MATERIALS SCIENCE, FORENSICS, ORGANIC CHEMISTRY, AND BIOCHEMISTRY;
3. DEVELOP THE TEACHERS' PEER MENTORING SKILLS;
4. INTRODUCE THE PROCESS ORIENTED GUIDED INQUIRY LEARNING (POGIL) MODEL FOR LABORATORY INSTRUCTION; AND
5. INSTRUCT PRINCIPALS ON GOOD SCIENCE PRACTICES.

TO MEET THESE OBJECTIVES, THE PROJECT COMBINES ONLINE DELIVERED CONTENT, HANDS-ON LABORATORY SESSIONS, AND WORKSHOPS.

**PROJECT DIRECTOR:** DR. JACQUELINE A. NIKLES

**ADDRESS:** DEPARTMENT OF CHEMISTRY  
901 14<sup>TH</sup> STREET SOUTH  
BIRMINGHAM, AL 35294

**TELEPHONE:** (205) 934 8130

**FAX:** (205) 934 2543



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[NIKLES@UAB.EDU](mailto:NIKLES@UAB.EDU)

**2006 ONLINE COURSE DATES:**

AUGUST – DECEMBER [DATES TBA]

**SPRING 2007 FOLLOW-UP DATES:**

PRINCIPALS' WORKSHOP: [DATES TBA]

TEACHERS' SYMPOSIUM: [DATES TBA]

**LOCATION:**

UNIVERSITY OF ALABAMA AT BIRMINGHAM

# UNIVERSITY OF ALABAMA AT BIRMINGHAM

## *THE UNIVERSITY-SCHOOL PARTNERSHIP FOR SECONDARY SCIENCE*

PARTNERS:           CENTER FOR COMMUNITY OUTREACH DEVELOPMENT  
                              (CORD)

SCHOOLS OF MEDICINE, EDUCATION, PUBLIC  
HEALTH, AND NATURAL SCIENCES AND  
MATHEMATICS

PUBLIC SCHOOL SYSTEMS: BESSEMER CITY;  
BIRMINGHAM CITY; JEFFERSON COUNTY;  
TARRANT CITY

PRIVATE AGENCY: McWANE CENTER

THIS IS A TWO-PART PROGRAM IN MOLECULAR BIOLOGY FOR HIGH SCHOOL BIOLOGY TEACHERS DESIGNED TO IMPROVE EXCELLENCE IN SCIENCE TEACHING BY PROVIDING A HIGH LEVEL OF CONTENT, HANDS-ON RESEARCH, AND INSTRUCTION IN INQUIRY-BASED TEACHING. BIOTEACH IS A FOUR-WEEK LECTURE AND LABORATORY SUMMER COURSE AND ALSO INCLUDES AT LEAST TWO MEETINGS DURING THE ACADEMIC YEAR WITH BIOTEACH TEACHERS TO ASSESS THEIR PROGRESS AND PROVIDE MUTUAL SUPPORT FOR HANDS-ON TEACHING OF BIOLOGY, AND ASSIST IN SHAPING FUTURE BIOTEACH EXPERIENCES. THE PROJECT ALSO INCLUDES FIELD TRIP AND CLASSROOM IMPLEMENTATION PROGRAMS, DESIGNED ESPECIALLY FOR BIOTEACH TEACHERS.

**PROJECT DIRECTORS:**           DR. MARY WILLIAMS

**ADDRESS:**                       CENTER FOR COMMUNITY OUTREACH DEVELOPMENT  
  CH19, FIFTH FLOOR  
  UNIVERSITY OF ALABAMA AT BIRMINGHAM  
  933 19<sup>TH</sup> STREET NORTH  
  BIRMINGHAM, AL 35294

**TELEPHONE:**                   (205) 934 5125

**FAX:**                             (205) 934 5158

**E-MAIL:**

[WILWAG@UAB.EDU](mailto:WILWAG@UAB.EDU)

**2006 INSTITUTE DATES:**

BIOteach: JUNE 19 – JULY 14

**LOCATION:**

BIRMINGHAM: MCWANE SCIENCE CENTER

**FOLLOW-UP DATES:**

NOVEMBER 18, 2006 (10:00 A.M. – 3:00 P.M.)

APRIL 14, 2007 (10:00 A.M. – 3:00 P.M.)

PROJECT STAFF ASSISTANCE VISITS IN TEACHERS IN THEIR CLASSROOMS: TBA

# UNIVERSITY OF ALABAMA IN HUNTSVILLE

## *THE SUCCESS THROUGH ACADEMIC RESEARCH (STAR) PROJECT: THE INDEPENDENT STUDY SCHOLARSHIP PROGRAM*

**PARTNERS:** OFFICE OF INTERNATIONAL PROGRAMS  
DEPARTMENT OF EDUCATION  
INSTITUTE FOR SCIENCE EDUCATION  
PUBLIC SCHOOL SYSTEM: BULLOCK 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. THE PARTNERSHIP INCLUDES SPECIALISTS FROM ALL FIELDS OF TEACHING AND RESEARCH AT UAH UNDER THE GUIDANCE OF THE UAH OFFICE OF INTERNATIONAL PROGRAMS (OIP) AND A HIGH-NEED SCHOOL DISTRICT. THIS DISTRICT IDENTIFIES TEACHERS FROM ITS SCHOOLS WHO MEET MINIMAL CRITERIA OF EXCELLENCE AND INVITES 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. THE NATURE OF THE STUDY MAY BE VARIED AND MAY INCLUDE WELL PLANNED INDIVIDUAL RESEARCH PROJECTS OR FOREIGN STUDY ABROAD. ALL STUDY PROGRAMS INCLUDE PROFESSIONAL MENTORING AND FOLLOW-UP.

**PROJECT DIRECTOR:** DR. JOHN R. POTTENGER, DIRECTOR

**ADDRESS:** OFFICE OF INTERNATIONAL PROGRAMS  
UNIVERSITY OF ALABAMA IN HUNTSVILLE  
HUNTSVILLE, AL 35899

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**2006-2007 INDEPENDENT STUDY DATES AND LOCATIONS: FOLLOWUP:**

[VARIES BY TEACHER AND STUDY PROGRAM]

SPRING 2007 [DATE TBA]

# UNIVERSITY OF ALABAMA IN HUNTSVILLE

## *TEACHING THE FUTURE: MASTERY OF SCIENCE AND MATHEMATICS THROUGH SPACE EXPLORATION*

**PARTNERS:** COLLEGE OF LIBERAL ARTS  
DIVISION OF CONTINUING EDUCATION  
DEPARTMENT OF EDUCATION  
INSTITUTE FOR SCIENCE EDUCATION  
PUBLIC SCHOOL SYSTEM: COFFEE COUNTY; PERRY 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 9 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

**INTERNET:** [HTTP://WWW.CONED.UAH.EDU/EDUCATOR.CFM](http://www.coned.uah.edu/educator.cfm) [LINK: "EXPLORING SPACE"]

**E-MAIL:** [POTTENJ@UAH.EDU](mailto:pottenj@uah.edu)

**2006 SUMMER WORKSHOPS:**

JUNE 5-10, 2006  
JUNE 12-17, 2006  
JULY 17-22, 2005

**LOCATIONS:**

UNIVERSITY OF ALABAMA IN HUNTSVILLE;  
THE U. S. SPACE & ROCKET CENTER;  
REDSTONE ARSENAL

**FOLLOW-UP:**

SPRING, 2007 [DATES TBA]

# UNIVERSITY OF SOUTH ALABAMA / ALABAMA INSTITUTE FOR EDUCATION IN THE ARTS (AIEA)

## *COMPREHENSIVE ARTS EDUCATION: ALABAMA*

**PARTNERS:** COLLEGE OF ARTS AND SCIENCES  
COLLEGE OF EDUCATION  
PUBLIC SCHOOL SYSTEMS: DEPARTMENT OF YOUTH SERVICES;  
BALDWIN COUNTY; MOBILE COUNTY; MONTGOMERY COUNTY;  
SELMA CITY

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. A SERIES OF ONGOING 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*.

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**2006-2007 INSTITUTE DATES:**

**LOCATIONS:**

JUNE 19-24	INSTITUTE 2006	MONTGOMERY, AL
JULY 31-AUG. 4	DESIGNING INTEGRATED CURRICULUM, LEVEL I	MONTGOMERY, AL
AUGUST 3-4	DESIGNING INTEGRATED CURRICULUM, LEVEL II	MONTGOMERY, AL
*AUGUST 25, 26	<i>ARTS IN EDUCATION</i>	BALDWIN/MOBILE COUNTY
*SEPTEMBER 22, 23	<i>ARTS IN EDUCATION</i>	BALDWIN/MOBILE COUNTY
*OCTOBER 20, 21	<i>ARTS IN EDUCATION</i>	BALDWIN/MOBILE COUNTY
*NOVEMBER 3, 4	<i>ARTS IN EDUCATION</i>	BALDWIN/MOBILE COUNTY
*FEBRUARY 9, 10	<i>ARTS IN EDUCATION</i>	BALDWIN/MOBILE COUNTY
*MARCH 9, 10	<i>ARTS IN EDUCATION</i>	BALDWIN/MOBILE COUNTY
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*TENTATIVE		

***SUPER SATURDAYS:*** TBA

**MENTORSHIP DATES:**

SEPTEMBER THROUGH APRIL