

14:11:28

OCA PAD AMENDMENT - PROJECT HEADER INFORMATION

12/21/94

Active

Project #: G-32-801
Center # : 10/31-6-T5421-0A0

Cost share #:
Center shr #:

Rev #: 4
OCA file #:
Work type : PUB SER
Document : GRANT
Contract entity: GTRC

Contract#: RH229-073/5199763
Prime # : S164B20010

Mod #: ADMIN.

Subprojects ? : N
Main project #:

CFDA: N/A
PE #: N/A

Project unit:
Project director(s):
DUNN E L

BIOLOGY
BIOLOGY

Unit code: 02.010.134
(404)894-8435

Sponsor/division names: UNIVERSITY OF GEORGIA
Sponsor/division codes: 400

/ ATHENS, GA
/ 009

Award period: 930303 to 940930 (performance) 940930 (reports)

Sponsor amount	New this change	Total to date
Contract value	0.00	22,611.00
Funded	0.00	22,611.00
Cost sharing amount		0.00

Does subcontracting plan apply ? : N

Title: EISENHOWER PROGRAM: ENVIRONMENTAL EDUCATION-ECOLOGY OF THE CHATTAHOOCHEE-...

PROJECT ADMINISTRATION DATA

OCA contact: Ina R. Lashley

894-4820

Sponsor technical contact

Sponsor issuing office

MS. PHYLLIS BRANNON
(404)241-4043

MS. KATHY S. MORRIS
(706)542-5971

UNIVERSITY OF GEORGIA
SCHOOL OF TEACHER EDUCATION
315 ADERHOLD HALL
ATHENS, GA 30602-7121

UNIVERSITY OF GEORGIA
OFFICE OF SPONSORED PROGRAMS
BOYD GRADUATE STUDIES RESEARCH CTR.
ATHENS, GA 30602-7121

Security class (U,C,S,TS) : U
Defense priority rating : N/A
Equipment title vests with: Sponsor

ONR resident rep. is ACO (Y/N): N
N/A supplemental sheet
GIT

Administrative comments -

ADMIN MOD TO UPDATE BUDGET TO REFLECT THE LAST "RESTRUCTURED" BUDGET
SUBMITTED TO UGA ON 10/11/94.

GEORGIA INSTITUTE OF TECHNOLOGY
OFFICE OF CONTRACT ADMINISTRATION

NOTICE OF PROJECT CLOSEOUT

Closeout Notice Date 01/05/95

Project No. G-32-801_____ Center No. 10/31-6-T5421-0A0_
Project Director DUNN E L_____ School/Lab BIOLOGY_____
Sponsor UNIVERSITY OF GEORGIA/ATHENS, GA_____
Contract/Grant No. RH229-073/5199763_____ Contract Entity GTRC
Prime Contract No. S164B20010_____
Title EISENHOWER PROGRAM: ENVIRONMENTAL EDUCATION-ECOLOGY OF THE CHATTAHOOCHEE-
Effective Completion Date 940930 (Performance) 940930 (Reports)

Closeout Actions Required:	Y/N	Date Submitted
Final Invoice or Copy of Final Invoice	Y	_____
Final Report of Inventions and/or Subcontracts	Y	_____
Government Property Inventory & Related Certificate	Y	_____
Classified Material Certificate	N	_____
Release and Assignment	N	_____
Other _____	N	_____
Comments _____		

Subproject Under Main Project No. _____

Continues Project No. _____

Distribution Required:

Project Director	Y
Administrative Network Representative	Y
GTRI Accounting/Grants and Contracts	Y
Procurement/Supply Services	Y
Research Property Management	Y
Research Security Services	N
Reports Coordinator (OCA)	Y
GTRC	Y
Project File	Y
Other _____	N
_____	N

NOTE: Final Patent Questionnaire sent to PDPI.

FINAL REPORT

G32-801

COPY SENT TO UGA

PROJECT DIRECTOR'S REPORT - GEORGIA FORM

E4-SD1

EISENHOWER HIGHER EDUCATION PROGRAM

1. Name of Project Director: Dr. E. Lloyd Dunn
Department: SCHOOL OF BIOLOGY
Georgia Institute of Technology
2. Institution: _____
Environmental Education: Ecology of the Chattahoochee River
System
3. Name of Project: _____

4. Type of Project: A B C D (Please circle one)
5. Beginning and Ending Dates of Project: APRIL, 1993 - Sept, 1994
6. Summary Description - attach only if substantially different from Abstract in proposal
SAME AS ABSTRACT
7. Names of School Systems Involved (if applicable)
Marietta City Atlanta City
DeKalb County Inner Harbour Hospital
Fulton County Devereux Foundation (GA)
8. Support for Project - Resources, Inkind, and Financial - from sources other than Eisenhower Higher Education

Source	Type of Amount of Support
<u>GA TECH, SCHOOL OF BIOLOGY</u>	<u>\$500, Supplies + Travel</u>
_____	_____
_____	_____

9. Results of Project (e.g., impact on teachers, curriculum, products). This has been requested by the Board of Regents. We will accept your judgement and relay it to the Regents in a report available to the public. Report on separate sheet if necessary (200-300 words would seem sufficient)

The teachers in the class were middle and high school teachers in the Atlanta metro area. They improved their understanding of basic ecological concepts and environmental issues, especially in the critically important areas relating to the water resources, ecology and human impacts on the entire Chattahoochee-Flint-Apalachicola Rivers and their watershed ecosystems including the Apalachicola Bay Estuary. They were exposed to enhanced methods with "hands-on" experience for training students in grades 7-12 in basic ecology and the application of these concepts to environmental issues, especially in local aquatic ecosystems. They met representatives from several local, state, and federal agencies, conservation groups, and universities and visited many field sites: all resources that are available for class field trips and class enrichment. They also developed or improved skills for collection of field samples and data and computer aided data processing and data presentation, and they improved skills for analytical problem solving in science and mathematics. They reviewed energy and nutrient flow through ecosystems and the effects of various pollutants on aquatic ecosystems. They learned to use field methods for measuring various parameters within lake and stream ecosystems, and how to analyze, interpret and present the data collected. A significant amount of class time was spent defining real-world problems and developing the analytical math and science techniques to solve these problems. Various sites along the rivers were visited through the field trips, and the students kept extensive records of observations, data collected and the directions for locating and using the sites with their own students. The overall goal was for the participants to apply their knowledge of ecological principles to the interpretation of their collected data as they attempted to understand the importance of the streams, rivers and lakes to the states bordering them and to the Apalachicola Bay Estuary into which they empty. Considerable attention was given to the historical uses and conditions of the aquatic ecosystems and to prediction of the future conditions based on current data and trends.

Participants learned to view the entire system and began to understand some of the important interrelationships among its various parts. They began to see that environmental impacts on the rivers in one area may have significant short and/or long term effects in other areas, and they have begun to incorporate these ideas and techniques into their teaching.

10. Signature



Date

Dec 19, 1994

PROJECT DIRECTOR'S REPORT - FEDERAL FORM

Project Number E4-SD1
(for office use only)

Attachment 1 - Project Directors

DWIGHT D. EISENHOWER MATHEMATICS AND SCIENCE EDUCATION IMPROVEMENT PROGRAM
HIGHER EDUCATION GRANT
Project Profile

(To be Completed by the Project Director and
Submitted with the Final Report)

Project Title Environmental Education : Ecology of the Chattahoochee River System
Dr. E. Lloyd Dunn
Project Director _____
Institution(s) Georgia Institute of Technology

Information About Your Project: (Check all that apply)

1. Subject Area: Math _____ Science ✓ Math/Science _____
Other _____ (Specify) _____
2. Grade Level: Elementary _____ Middle ✓ Secondary ✓
Postsecondary ✓
3. Training was Provided by Faculty From:
Schools/Colleges of Education 1
Schools/Colleges of Art & Science 2 K-12 Schools _____
4. Average Contact Hours Per Participant: 50 (e.g., 45 or 20 hours)
5. Type and Amount of Credit Awarded to Participants:

	<u>Amount</u>		
Graduate Credit	<u>1</u>	<u>2</u>	Quarter
Undergrad. Credit	<u>7</u>	<u>3</u>	Hours
Recertification, Renewal, or Inservice Credit	<u>6</u>	<u>5</u>	" "
Non-credit	<u>4</u>	<u>0</u>	S.D.U.
6. Project Funding Amount (include in-kind Support) from:
Eisenhower _____ Local Schools _____ Other \$500
GA. TECH
SCHOOL OF BIOLOGY
Supplies; Travel

7. Public School Districts (LEAs) Represented By Participants: (list names of LEAs below or attach a list)

Marietta City

ATLANTA City

De Kalb County

Fulton County

8. Private Schools Represented By Participants: (list names of schools below or attach a list)

Inner Harbour Hospital

Devereux Foundation (Ga.)

9. Institutions of Higher Education Involved in the Project:

Name of Institution

Type of Institution*

GEORGIA TECH

Public - 4 year

* Use the following designation: Public 4-year, Private 4-year,
Public 2-year, Private 2-year

10. Number of Other Agencies Involved in the Project:

Private Industry	<u>1</u>
Museums	<u>1</u>
Libraries	<u> </u>
Educational TV Channels	<u> </u>
Professional Societies	<u> </u>
State Agencies	<u>2</u>
Other (describe) <u>Fed. Agencies</u>	<u>2</u>
<u>Conservation Groups</u>	<u>3</u>

11. Total Number of Teachers Participating in the Project: 6
(include all educational personnel such as supervisors, principals, etc.)

12. List the number of teacher participants by Gender, Ethnicity, Position, Certification Status, and Type of School:

Male 4 Female 2 Not Reported _____
American Indian _____ Asian _____ Black 1 Hispanic _____
White 5 Other _____ Not Reported _____
Classroom teachers 5 Supervisors/Coordinators 1
Principals _____ Preservice teachers _____ Others 12
Public School Personnel 4 Private School Personnel 2
Number fully certified in subject area 4
Number endorsed (not fully certified in subject area) 1

13. Total Number of Students Indirectly Served Through This Project: 385
(Include here all students of teachers who participated in the project)

14. List the number of Indirect Student Participants by the Following Categories:

Male 202 Female 183 Not Reported _____
American Indian 2 Asian 6 Black 253 Hispanic 5
White 119 Other _____ Not Reported _____
Gifted and Talented 73
Migrant 22
*Economically Disadvantaged 172
Handicapped 34
Limited English Proficient 24
Urban 49 *Suburban 335 ****Sparsely Populated 6
(and small city) (rural)

15. Total Number of Students Directly Participating in the Project: 0

16. List the Number of Direct Student Participants by the Following Categories: N.A.

Male _____ Female _____ Not Reported _____
American Indian _____ Asian _____ Black _____ Hispanic _____
White _____ Other _____ Not Reported _____
Gifted and Talented _____
Migrant _____
*Economically Disadvantaged _____
Handicapped _____
Limited English Proficient _____
Urban _____ *Suburban _____ ****Sparsely Populated _____
(and small city) (rural)

TEACHER PARTICIPANT QUESTIONNAIRE - GEORGIA FORM
EISENHOWER HIGHER EDUCATION PROGRAM

1. Date: April, 1993 - Sept. 30, 1994
2. Name of Institution: Georgia Institute of Technology
3. Name of Project: Environmental Education: Ecology of the
Chattahoochee River System
4. Number of Years of Teaching Experience: Range 1-25: Mean 10.7
5. With regard to your professional development this project was of:

Considerable Value	Some Value	Little or No Value
<u>5 responses</u>	<u>1 response</u>	
6. Please complete the Federally required form: Attachment - 2
Participating Teacher - you can and should make estimates of the
requested numerical data.
7. Comments:

Summary

Attachment 2 - Participating Teachers

DWIGHT D. EISENHOWER MATHEMATICS AND SCIENCE EDUCATION IMPROVEMENT
PROGRAM

HIGHER EDUCATION GRANT PROGRAM

Participant Profile - Teachers and Other Educational Personnel

(To be Completed by Participating Teacher [or other educational
personnel] and submitted to the Project Director)Title of Project: Environmental Education: Ecology of the Chattahoochee River SystemSponsoring Organization: Georgia Institute of Technology

To the Participant: The following information is needed so that we can
complete a federal report on our project and its participants. All
information will be kept strictly confidential.

Please provide the following information about yourself:

Gender Male 4 Female 2Ethnicity: American Indian _____ Asian _____ Black 1Hispanic _____ White 5 Other _____ Specify _____

Are you Certified or Endorsed in the Subject Area of this Project?

Certified:	Yes	<u>4</u>	No	<u>1</u>
Endorsed	Yes	_____	No	<u>1</u>

Current Position: Classroom Teacher 5 Supervisor/Coordinator 1

Principal _____ Preservice Teacher _____ Other _____

School Where you Currently Teach: _____

School District (LEA): _____

Location of Your School:

Urban** 1 Suburban*** 5 Sparsely Populated **** _____

Please provide the following information about the students you currently teach (or will be teaching in the coming year) in the subject area covered in the project:

Total Number of Students You Teach in this Subject Area: 385

Number of Students of Each Gender: Male 202 Female 183

Number of Student of Each Ethnicity: Amer. Indian 2 Asian 6

Black 253 Hispanic 5 White 119 Other

Number of Student Who Are From the Following Groups/Area:

Gifted and Talented	<u>73</u>	
Migrants	<u>22</u>	
Economically Disadvantaged*	<u>112</u>	
Limited English Proficient	<u>24</u>	24
Handicapped	<u>34</u>	
Urban**	<u>49</u>	
Suburban***	<u>335</u>	
Sparsely Populated****	<u>6</u>	

Use your state's commonly used definitions of the above terms. If you need guidance, the following definitions are suggested:

- * Students eligible for free or reduced-cost lunch.
- ** Student attending a school located in a community with a population of 50,000 or larger.
- *** Student attending a school located in a community with a population of 2,500 to 50,000.
- **** Student attending a school located in a community with a population of less than 2,500.00.

FINAL

FINANCIAL STATUS REPORT

(Short Form)

(Follow instructions on the back)

FINAL

1. Federal Agency and Organizational Element to Which Report is Submitted THE UNIVERSITY OF GEORGIA		2. Federal Grant or Other Identifying Number Assigned By Federal Agency RH229-073/5199763		OMB Approval No. 0348-0039	Page 1	of 1 pages
3. Recipient Organization (Name and complete address, including ZIP code) GEORGIA TECH RESEARCH CORPORATION 400 10TH STREET, N.W., ROOM 270 ATLANTA, GA 30332-0415						
4. Employer Identification Number 58-0603146		5. Recipient Account Number or Identifying Number G-32-801/T5421-0A0		6. Final Report <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		7. Basis <input checked="" type="checkbox"/> Cash <input type="checkbox"/> Accrual
8. Funding Grant Period (See Instructions) From: (Month, Day, Year) 03/03/93		To: (Month, Day, Year) 09/30/94		9. Period Covered by this Report From: (Month, Day, Year) 03/03/93		To: (Month, Day, Year) 09/30/94
10. Transactions:				I Previously Reported	II This Period	III Cumulative
a. Total outlays				-0-	19,634.83	19,634.83
b. Recipient share of outlays				-0-		
c. Federal share of outlays				-0-	19,634.83	19,634.83
d. Total unliquidated obligations						-0-
e. Recipient share of unliquidated obligations						-0-
f. Federal share of unliquidated obligations						-0-
g. Total Federal share (Sum of lines c and f)						19,634.83
h. Total Federal funds authorized for this funding period						22,611.00
i. Unobligated balance of Federal funds (Line h minus line g)						2,976.17
11. Indirect Expense						
a. Type of Rate (Place "X" in appropriate box) <input type="checkbox"/> Provisional <input type="checkbox"/> Predetermined <input type="checkbox"/> Final <input type="checkbox"/> Fixed						
b. Rate N/A		c. Base		d. Total Amount		e. Federal Share
12. Remarks: Attach any explanations deemed necessary or information required by Federal sponsoring agency in compliance with governing legislation. Questions concerning this report should be directed to: Ms. Dale C. Turner (404) 894-5521						
13. Certification: I certify to the best of my knowledge and belief that this report is correct and complete and that all outlays and unliquidated obligations are for the purposes set forth in the award documents.						
Typed or Printed Name and Title David V. Welch, Director, Grants and Contracts Accounting				Telephone (Area code, number and extension) (404) 894-2629		
Signature of Authorized Certifying Official 				Date Report Submitted 11/03/94		