

09:31:10

OCA PAD INITIATION - PROJECT HEADER INFORMATION

02/29/88

Active

Project #: G-35-699  
Center #: R6453-OA0

Cost share #: G-35-382  
Center shr #: F6453-OA0

Rev #: 0  
OCA file #:  
Work type : RES  
Document : AGR  
Contract entity: GTRC

Contract#: AGR DTD 880114  
Prime #:

Mod #:

Subprojects ? : N  
Main project #:

Project unit: GEO SCI Unit code: 02.010.140  
Project director(s):  
DAVIS D D GEO SCI

Sponsor/division names: ATLANTA UNIV CENTER / ATLANTA, GA  
Sponsor/division codes: 400 / 007

Award period: 870915 to 880914 (performance) 881214 (reports)

Sponsor amount	New this change	Total to date
Contract value	0.00	33,673.00
Funded	0.00	33,673.00
Cost sharing amount		18,045.00

Does subcontracting plan apply?: N

Title: A STUDY OF CHEMICAL TRENDS AND PROCESSES AS RELATED TO PHOTOCHEMICAL OXIDANTS

PROJECT ADMINISTRATION DATA

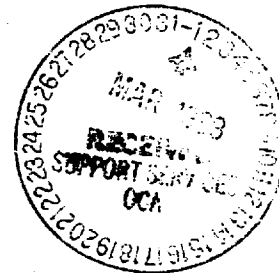
OCA contact: Ina R. Lashley 894-4820

Sponsor technical contact

Sponsor issuing office

(000)000-0000

ATLANTA UNIVERSITY CENTER  
(404)523-5150  
MS. LINDA ROBERSON  
360 WESTVIEW DR., SW  
ATLANTA GA 30310



Security class (U,C,S,TS) : U  
Defense priority rating : NA  
Equipment title vests with: Sponsor  
NONE PROPOSED.

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

Administrative comments -

LTR DTD 1/14/88 AUTHORIZES SUB-GRANT IAO \$33,673 THRU 9/14/88. THIS IS A SUB-GRANT UNDER NSF PRIME. NSF FL 200 WILL GOVERN.

GEORGIA INSTITUTE OF TECHNOLOGY  
OFFICE OF CONTRACT ADMINISTRATION

NOTICE OF PROJECT CLOSEOUT

Closeout Notice Date 05/30/90  
Original Closeout Started 01/05/90

Project No. G-35-699 \_\_\_\_\_ Center No. R6453-OA0 \_\_\_\_\_

Project Director BRADSHAW J D \_\_\_\_\_ School/Lab E & A SCI \_\_\_\_\_

Sponsor ATLANTA UNIVERSITY/ATLANTA, GA \_\_\_\_\_

Contract/Grant No. AGR DTD 880114 \_\_\_\_\_ Contract Entity GTRC

Prime Contract No. ATM-8703759 \_\_\_\_\_

Title A STUDY OF CHEMICAL TRENDS AND PROCESSES AS RELATED TO PHOTOCHEMICAL OXID

Effective Completion Date 890914 (Performance) 891215 (Reports)

Closeout Actions Required:	Y/N	Date Submitted
- Final Invoice or Copy of Final Invoice	Y	900507
Final Report of Inventions and/or Subcontracts	N	_____
Government Property Inventory & Related Certificate	N	_____
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

**ANNUAL REPORT**

**"A Study of Chemical Trends and Processes as  
Related to Photochemical Oxidants"**

**Submitted To:**

**Dr. John Hall**

**Atlanta University Center  
Dolphus E. Milligan Science Research Institute  
440 Westview Drive, S.W.  
Atlanta, Georgia 30310**

**Submitted By:**

**Dr. John Bradshaw  
Dr. Douglas D. Davis  
Dr. Scott T. Sandholm**

**Georgia Institute of Technology  
School of Geophysical Sciences  
Atlanta, Georgia 30332-0340**

During the first year of the sub-grant, Georgia Tech personnel aided in defining key components which have now been acquired by AUC personnel for construction of a Tunable Diode Laser System for the detection of gas phase hydrogen peroxide.

In addition to this effort, work has continued on refining the Kok/Lazrus method for determination of aqueous phase hydrogen peroxide. Plans for transferring this technology to AUC personnel during the second year are now underway.

A plan of action for providing base data support measurements at the Stone Mountain Field Sampling Site have now been finalized and should be implemented during the second year of this effort. Included in these plans are manpower to maintain the site with year round base data support measurements as well as to assist in the collection of rain water on a pseudo-continuous (event) basis.

**A Chemical Climatology of Photochemical Oxidants:  
Second Year Report**

**Submitted to:**

**Dr. John H. Hall, Jr.  
Atlanta University Center, Inc.  
Dolphus E. Milligan Science Research Institute  
Earth and Atmospheric Sciences Program  
440 Westview Drive, SW  
Atlanta, Georgia 30310**

**Submitted by:**

**Dr. John Bradshaw  
School of Earth and Atmospheric Sciences  
Georgia Institute Of Technology  
Atlanta, Georgia 30332**

## Second Year Report

During the second year effort, technology and equipment (on loan from Georgia Tech) was transferred to AUC personnel for the measurement of aqueous phase hydrogen peroxide ( $H_2O_2$ ). Routine measurements of aqueous  $H_2O_2$  are now being carried out at AUC under the direction of Dr. Robert Stickel. Final components for the tunable diode laser gas phase sensor were acquired (multi-pass white-all via AUC and optical table/I.R. monochrometer on loan from Georgia Tech) and transferred to AUC facilities, where phase 1 evaluation of the instrument is underway. Preparations are underway to provide accommodations and meteorological/chemical measurements in support of a Stone Mountain based field experiment now scheduled for Spring 1990.