

PROJECT ADMINISTRATION DATA SHEET



ORIGINAL



REVISION NO.

Project No. G-33-635DATE 6-18-82Project Director: H. O. HouseSchool/Dept ChemistrySponsor: DHHS/PHS/NIH - National Institute of General Medical SciencesType Agreement: Grant No. 1-R01-GM 30735-01Award Period: From 6-1-82 To 5-31-83 (Performance) 8-31-83 (Reports)Sponsor Amount: \$ 96,562 Contracted through:Cost Sharing: \$ 50,822 (G-33-322) GTRI/Title: Special Structural Features To Control Reactions

ADMINISTRATIVE DATA

OCA Contact Don Hasty

1) Sponsor Technical Contact:

Program Administrator:Dr Carl A. Kuebler(301) 496-7181Defense Priority Rating: N/A

2) Sponsor Admin/Contractual Matters:

Grants Management Specialists:Mrs Ann J. CaluseMr J. Caslow(301) 496-7166Security Classification: N/A

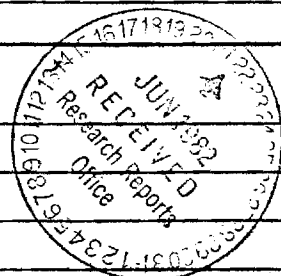
RESTRICTIONS

See Attached N/A Supplemental Information Sheet for Additional Requirements.

Travel: Foreign travel must have prior approval - Contact OCA in each case. Domestic travel requires sponsor approval where total will exceed greater of \$500 or 125% of approved proposal budget category.

Equipment: Title vests with Ga Tech

COMMENTS:



COPIES TO:

~~Administrative Coordinator~~ RAN
Research Property Management
Accounting
Procurement/EES Supply Services
FORM OCA 4:781

Research Security Services
~~Reports Coordinator (OCA)~~
Legal Services (OCA)
Library

EES Public Relations (2)
Computer Input
Project File
Other GTRI

SPONSORED PROJECT TERMINATION/CLOSEOUT SHEET

Date 10/12/83

Project No. G-33-635

School ~~xxx~~ Chemistry

Includes Subproject No.(s) NONE

Project Director(s) Dr. Herbert C. House GTR: ~~xxx~~

Sponsor EHS/PHS/NIH - National Institute of General Medical Sciences.

Title: Special Structural features to Control Reactions

Effective Completion Date: 5/31/83 (Performance) _____ (Reports)

Grant/Contract Closeout Actions Remaining:

- ☒ None
- ☐ Final Invoice or Final Fiscal Report
- ☐ Closing Documents
- ☐ Final Report of Inventions
- ☐ Govt. Property Inventory & Related Certificate
- ☐ Classified Material Certificate
- ☐ Other _____

Continues Project No. _____

Continued by Project No. G-33-645

COPIES TO:

Project Director
Research Administrative Network
Research Property Management
Accounting
Procurement/EES Supply Services
Research Security Services
~~Reports Coordinator (OCA)~~
Legal Services

Library
GTRI
Research Communications (2)
Project File
Other _____

SECTION IV

APPLICANT: REPEAT GRANT NUMBER SHOWN ON PAGE 1		GRANT NUMBER	
SECTION IV—SUMMARY PROGRESS REPORT		GM-30735-02	
PRINCIPAL INVESTIGATOR OR PROGRAM DIRECTOR (Last, First, Initial)		PERIOD COVERED BY THIS REPORT	
House, Herbert O.		FROM	THROUGH
NAME OF ORGANIZATION		06/01/83	05/31/84
Georgia Institute of Technology			
TITLE (Repeat title shown in Item 1 on first page)			
Special Structural Features to Control Reactions			

1. List all publications, not previously reported, resulting from work supported by this grant (author(s), title, page numbers, year, journal or book). List manuscripts separately as submitted for publication or accepted for publication.
2. Provide two reprints of publications not previously submitted to the awarding unit.
3. Progress Report. (See instructions)

(1) Publications:

1. "Enones with Strained Double Bonds. 7. Precursors for Substituted Bicyclo[3.3.1]nonane Systems," H. O. House, R. J. Outcalt, and M. D. Clifton, J. Org. Chem., **1982**, **47**, 2413.

Manuscripts Accepted for Publication:

1. "Enones with Strained Double Bonds. 8. The Bicyclo[3.2.1]octane System." H. O. House, J. L. Haack, W. C. McDaniel, and D. VanDerveer, J. Org. Chem., in press.
2. "Enones with Strained Double Bonds. 9. The 2-Phenyl-bicyclo-[3.3.1]non-1-en-3-one System," H. O. House, R. J. Outcalt, J. L. Haack, and D. VanDerveer, J. Org. Chem.
3. "Perhydroazulenes. 3. The Conformations of the 4-Ketoperhydroazulenes," H. O. House, P. C. Gaa, and D. VanDerveer, J. Org. Chem., in press.
4. "Perhydroazulenes. 4. The 6-t-Butyl-4-ketoperhydroazulene System," H. O. House, P. C. Gaa, J. H. C. Lee, and D. VanDerveer, J. Org. Chem., in press.

(2) Reprints: 2 reprints of publication #1 are enclosed.(3) Progress Report:

Our methods for generating the bicyclo[3.2.1]octenones and for generating and isolating 2-phenyl-bicyclo[3.3.1]nonenone have now been described (ms #1 and #2). Also, our work to determine the favored conformations of 4-ketoperhydroazulenes and to control the conformations with a 6-t-butyl substituent have been described (ms #3 and #4). In collaboration with Dr. W. S. Trahanovsky of Iowa State Univ., we are continuing our work to isolate and to study the chemistry of the more reactive bicyclo[3.3.1]nonenones and bicyclo[3.2.1]octenones. Our work in the perhydroazulene field is continuing with studies of the stereochemistry of various reactions with 4-ketoperhydroazulene systems that have known conformations. Work to prepare chiral reagents based upon 1,8-diphenylanthracene derivatives and work to develop a photostimulated intramolecular enolate alkylation reaction are now under way.