

PROJECT ADMINISTRATION DATA SHEET



ORIGINAL



REVISION NO. _____

Project No./(Center No.) G-33-699 (Q5383-0A0)

GTRC/GIT

DATE 4 / 20 / 87Project Director: Dr. R.A. PierottiSchool/Center ChemistrySponsor: DHHS/PHS/NIH/DIVISION OF RESEARCH RESOURCESAgreement No.: Grant No. 1S10 RR03420-01Award Period: From 4/1/87 To 3/31/88 (Performance) 6/30/88 Reports

Sponsor Amount:

New With This Change

Total to Date

Contract Value: \$ _____ \$ 180,000Funded: \$ _____ \$ 180,000Cost Sharing No./(Center No.) G-33-326/(E5383-0A0) Cost Sharing: \$ 19,000Title: Shared-Use NMR Spectrometer

ADMINISTRATIVE DATA

OCA Contact E. Faith Gleason

1) Sponsor Technical Contact:

Marjorie A. Tingle, Ph.D. (301)496-6743Director, Biomedical ResearchSupport Program, Division of ResearchResources, National Institutes of HealthBldg 31-Room 5B23, 9000 Rockville Pike,Bethesda, MD 20892

2) Sponsor Issuing Office:

Mr. Robert S. Dickenson (301) 496-9840Office of Grants and Contracts ManagementDivision of Research ResourcesNational Institutes of HealthWestwood Building-Room 240, 533 Westbard Ave.Bethesda, MD 20892

Military Security Classification: _____

ONR Resident Rep. is ACO: _____ Yes x No

(or) Company/Industrial Proprietary: _____

Defense Priority Rating: _____

RESTRICTIONS

See Attached NIH 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 GIT

COMMENTS:

COPIES TO:

SPONSOR'S I.D. NO. 02,108.001.86.016Project Director
Research Administrative Network
Research Property Management
AccountingProcurement/GTRI Supply Services
Research Security Services
Contract Support Div.(OCA)(2) PAT
Research CommunicationsGTRC
Library
Project File
Other _____

SPONSORED PROJECT TERMINATION/CLOSEOUT SHEETDate 6/3/88Project No. G-33-699School MLX ChemistryIncludes Subproject No.(s) N/AProject Director(s) R. A. Pierotti~~ETC~~ GITSponsor DHHA/PHS/NIH/DRRTitle Shared-Use NMR SpectrometerEffective Completion Date: 3/31/88(Performance) 6/30/88 (Reports)

Grant/Contract Closeout Actions Remaining:

☐ None☒ Final Invoice or Copy of Last Invoice Serving as Final☐ Release and Assignment☒ Final Report of Inventions and/or Subcontract:

Patent and Subcontract Questionnaire

sent to Project Director ☐ Already submitted☐ Govt. Property Inventory & Related Certificate☐ Classified Material Certificate☐ Other _____

Continues Project No. _____

Continued by Project No. _____

COPIES TO:

Project Director
Research Administrative Network
Research Property Management
Accounting
Procurement/GTRI Supply Services
Research Security Services
Reports Coordinator (OCA)
Program Administration Division
Contract Support Division

~~XXXXXXXXXXXXXXXXXXXX~~

Library

GTRC

Project File

Other _____

**Biomedical Research Support
Shared Instrumentation Grant Program
Division of Research Resources**

Final Progress Report

Grant No: 1 S10 RRO3420-01

Principal Investigator: Robert Amadeo Pierotti, Director
School of Chemistry
Georgia Institute of Technology
Atlanta, GA 30332

Funding Period: 1 April 1987 - 31 March 1988

Instrument: Varian Gemini-300 FT NMR Spectrometer

Total Purchase Cost: \$195,000.00

Total DRR Award: \$180,000.00

Other Sources of Funding: Georgia Institute of Technology

NARRATIVE

The School of Chemistry has purchased a Varian Associates, Gemini-300 Variable Temperature FT NMR equipped with a H-1/C-13 software switchable probe. The instrument is equipped for homonuclear decoupling and has pulse generation software for doing most 2-D experiments. Output devices include a Hewlett-Packard 7550A 8-pen plotter and 2225C ThinkJet Printer. The instrument has been operational since ca. 1 October 1987; there are currently about 50 trained operators in the School of Chemistry. The instrument was requested, and purchased, to provide routine H-1/C-13 for 8 NIH funded projects to five faculty in the department. This function is being served extremely well. The instrument is very user friendly and turn-around time is short. Indeed, there is sufficient time to provide considerable service to other research groups as well.

Dr. L. Gelbaum, a research scientist in the School of Chemistry's Centralized Instrumentation Facility, has responsibility for the maintenance and operation of the instrument and for the training of operators. He regularly consults with members of our faculty on problems in NMR spectroscopy and collaborates in joint research efforts with some faculty. Scheduling is by prior sign-up on a first-come basis. Usage records are maintained via an electronic log-book maintained by the instrument software. Repairs, when needed, will be handled by our electronics shop, which has five, full-

time technicians including an electrical engineer who is an expert in digital electronics.

The NMR spectrometer is currently being used in connection with projects concerned with design of new anticoagulant drugs, development of new drugs for treatment of emphysema, design of non-peptide enzymes, searches for new antibiotics and anti-tumors drugs from natural products, drugs for treatment of neurological diseases and in the design of stereochemically selective reactions that can be used in the synthesis of molecules with higher biological activity.