

AD-A215 302

REPORT DOCUMENTATION PAGE

Form Approved
OMB No 0704-0188

This reporting burden for this collection of information is estimated to average 1 hour per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Ave Highway, Suite 1204, Arlington, VA 22202-4302, and to the Office of Management and Budget, Paperwork Reduction Project (0704-0188), Washington, DC 20503.

1. AGENCY USE ONLY (Leave blank)		2. REPORT DATE 12 Oct 84		3. REPORT TYPE AND DATES COVERED Final	
4. TITLE AND SUBTITLE SUPPORT OF PURCHASE OF A GAS CHROMATOGRAPHMASS SPECTROMETER				5. FUNDING NUMBERS 61102F 2917/A2	
6. AUTHOR(S) Robert West				7. PERFORMING ORGANIZATION REPORT NUMBER AFOSR TR- 89-1605	
8. PERFORMING ORGANIZATION NAME(S) AND ADDRESS(ES) University of Wisconsin Department of Chemistry 1101 University Avenue Madison, WI 53706				9. SPONSORING/MONITORING AGENCY NAME(S) AND ADDRESS(ES) AFOSR BLDG 410 BAFB DC 20332-6448	
10. SPONSORING/MONITORING AGENCY REPORT NUMBER AFOSR-83-0243				11. SUPPLEMENTARY NOTES	
12a. DISTRIBUTION/AVAILABILITY STATEMENT Approved for public release; distribution unlimited.				12b. DISTRIBUTION CODE	
13. ABSTRACT (Maximum 200 words) DTIC FLECTE DEC 07 1989 S B D					
14. SUBJECT TERMS				15. NUMBER OF PAGES 1	
				16. PRICE CODE	
17. SECURITY CLASSIFICATION OF REPORT unclassified		18. SECURITY CLASSIFICATION OF THIS PAGE unclassified		19. SECURITY CLASSIFICATION OF ABSTRACT	
				20. LIMITATION OF ABSTRACT	

NSN 7540-01-280-5500

Standard Form 298 (890104 Draft)
Prescribed by ANSI Std. Z39-18
298-01

89 12 05 072

FINAL REPORT

AFOSR-83-0248

SUPPORT OF PURCHASE OF A GAS CHROMATOGRAPHMASS SPECTROMETER

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1 JULY 1983 - 30 JUNE 1984

FINAL REPORT FOR AFOSR
Grant No. AFOSR-83-0248

This grant was used to purchase a Kratos Model MS-25 High Sensitivity GC-MS (Gas-Chromatograph-Mass Spectrometer) System. The computer system which is required to control the spectrometer and analyze the data was provided by the University of Wisconsin. The system was installed about seven (7) months ago and has been in heavy and constant use since its installation. The system is used primarily by graduate students for high resolution GC-Mass Spectroscopy studies. A majority of the students using the spectrometer are doing their graduate research under the direction of Professor Robert C. West.

Data collected with this instrument has played a vital role in research work which has resulted already in about a dozen publications. Because of the much higher resolution and higher sensitivity (compared with a GC-Quadrupole Mass Spectrometer) students have been able to solve molecular structure problems which would not have been possible with Quadrupole Mass Spectroscopy.

We have found the spectrometer to be easy to use by graduate students, and the software analysis programs are very user friendly. The instrument has proven to be very rugged and reliable. The little maintenance which has been required has been provided by the instrument engineering staff of the Chemistry Department.

Report Filed 12 October 1984
by Professor Thomas C. Farrar
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University of Wisconsin
Madison, WI. 53706

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