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12. PERSONAL AUTHOR(S) William P. Weber			
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FIELD	GROUP	SUB-GROUP	
19. ABSTRACT (Continue on reverse if necessary and identify by block number) The necessary Components for a preparative gel permeation chromatography system were purchased. The system was assembled and is operating properly.			
20. DISTRIBUTION/AVAILABILITY OF ABSTRACT ☐ UNCLASSIFIED/UNLIMITED ☐ SAME AS RPT. ☐ DTIC USERS		21. ABSTRACT SECURITY CLASSIFICATION UNCLASSIFIED	
22a. NAME OF RESPONSIBLE INDIVIDUAL Dr Fred L. Hedberg		22b. TELEPHONE (Include Area Code) (202) 767-4963	22c. OFFICE SYMBOL AFOSR/NC

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UNCLASSIFIED

FINAL REPORT

Title: Preparative Gel Permeation Chromatography

AFOSR-TR. 89-1708

Period Covered: November 15, 1988 to November 14, 1989

Grant Number: AFOSR 89-0160

Principal Investigator: Professor William P. Weber

Department of Chemistry and

Loker Hydrocarbon Research Institute

University of Southern California

Los Angeles, CA 90089-1661

**Approved for public release;
distribution unlimited.**

Equipment Purchased:

All items as described in the original proposal, "Preparative Gel Permeation Chromatography," (see Appendix I) were purchased from Waters Millipore. All equipment has been received and is operating in an excellent manner.

REVISED BUDGET

		UNIT PRICE	TOTAL
<u>LIQUID CHROMATOGRAPHY INSTRUMENTATION</u>			
1. Tertiary Gradient System consisting of:			
(3) Model 510 HPLC Solvent Delivery Systems			
(1) Model 680 Automated Gradient Controller			
(1) Reference Valve Kit			
This includes Education Discount (17%)		\$16,979.00	\$16,979.00
2. Model 484 Tunable Absorbance Detector	(CAT. #80222)	\$ 6,700.00	
with Autozero Capability			
Less Educational Discount (17%)		1,139.00	
		<u>\$ 5,561.00</u>	\$ 5,561.00
3. Model U6K Universal Injector (2 each)	(CAT. #96200)	\$ 3,580.00	
(Cost: \$1790.00 each)			
Less Educational Discount (36%)		- 1,290.00	
		<u>\$ 2,290.00</u>	\$ 2,290.00
4. FOXY Fraction Collector with Interface	(CAT. #07440)	\$ 3,040.00	\$ 3,040.00
5. Model 820 Full Control Maxima System	(CAT. #19588)	\$12,000.00	
consisting of:			
NEC APC IV Computer with			
20 MB Hard Disk Drive			
Black & White Monitor			
NEC 660 R/W Dot Matrix Printer			
T063 and IEEE Interface Board			
I-200 SIM with Pump Control Board			
Microsoft Mouse			
Maxima Full Control Multi-System Software			
with Manual			
Less Special Sales Discount (5%)		- 600.00	
		<u>\$11,400.00</u>	\$11,400.00
6. I-200 Interface (SIM with 2 ch A/D)	(CAT. #88245)	\$ 2,500.00	
Less Special Sales Discount (5%)		- 125.00	
		<u>\$ 2,375.00</u>	\$ 2,375.00
7. Maxima GPC Software	(CAT. #194-1)	\$ 1,500.00	
Less Special Sales Discount (5%)		- 75.00	
		<u>\$ 1,425.00</u>	\$ 1,425.00
8. Styragel 500A Column (20mm x 122cm)	(CAT. #40969)	\$ 2,800.00	\$ 2,800.00
9. Styragel 10-3A Column (20mm x 122cm)	(CAT. #40970)	\$ 2,800.00	\$ 2,800.00
10. Styragel 10-4A Column (20mm x 122cm)	(CAT. #40972)	\$ 2,800.00	\$ 2,800.00
11. Styragel 10-5A Column (20mm x 122cm)	(CAT. #40974)	\$ 2,800.00	\$ 2,800.00
Less discount when you purchase \$3,000 worth of CPD supplies with above system. (See Items 8-11)		-750.00	- 750.00

		UNIT PRICE	TOTAL
12. Model 401 Refractive Index Detector	(CAT. #48503)	\$ 4,300.00	
Less Educational Discount valid until 12/23/88 (20%)		- 860.00	
		<u>\$ 3,440.00</u>	\$ 3,440.00
13. Phenyl Column (3.9mm x 15cm)	(CAT. #10636)	\$ 370.00	\$ 370.00
14. Silica Column (3.9mm x 15cm)	(CAT. #10025)	\$ 370.00	\$ 370.00
	<u>TOTAL</u>		<u>\$57,700.00</u>
<u>UNIVERSITY CONTRIBUTION</u>			
1. Model 484 UV Visible Detector	(CAT. #98582)	\$ 6,100.00	
Less Demonstrator Discount		- 1,105.00	
90 Day Warranty / Subject to Availability		<u>\$ 4,995.00</u>	\$ 4,995.00
2. Model 170 Preparative Sample Loader	(CAT. #31510)	\$ 4,995.00	
Less Special Sales Discount (5%)		- 249.75	
		<u>\$ 4,745.25</u>	\$ 4,745.25
3. Model 401 Differential Refractometer	(CAT. #70390)		
with IEEE Capability and External			
Temperature Control		\$ 3,440.00	\$ 3,440.00
	SUB-TOTAL		\$13,180.25
	California Sales Tax (6.5%)		856.72
	Shipping		363.03
	<u>TOTAL</u>		<u>\$14,400.00</u>