

THE

TarHelium



A Publication of the North Carolina Section of the American Chemical Society

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February 1987

What is a Chemist Today?

A Lecture by

Dr. Mary L. Good

President, American Chemical Society, 1987

President, Engineered Materials Research, Allied-Signal, Inc.

Wednesday, February 18, 1987

University of North Carolina — Chapel Hill

Sponsored by

North Carolina Section, ACS

Social Hour

5:30 p.m.

Carolina Inn, Chapel Hill

Dinner

6:30 p.m.

Carolina Inn, Chapel Hill

\$14 members/\$7 students

Lecture

8:00 P.M.

207 Venable Hall

The University of North Carolina, Chapel Hill

(Directions to the Carolina Inn and Venable Hall on page 3)

Members and guests are welcome at both the lecture and dinner; however, if attending the dinner, please make reservations by 5:00 p.m. Friday, February 13. In Chapel Hill call Debbie Edwards at 962-2172; in Durham call Sue Dickerson at 684-2414; in Raleigh call Joyce Dunn at 737-2545; in Fayetteville call Sandra Smith at 486-1500. To cancel reservations, please call Joyce Dunn in Raleigh at 737-2545.

Mary L. Good

President, American Chemical Society
President, Engineered Materials Research, Allied-Signal Inc.

Mary Good was born in Grapevine, Texas, in 1931 and grew up in Arkansas. She graduated from the Arkansas State Teachers College (now the University of Central Arkansas) in 1950 with a B.S. in Chemistry and the highest scholastic standing in her class. In graduate school at the University of Arkansas Fayetteville, she majored in inorganic and radiochemistry, earning a M.S. in 1952 and a Ph.D. in 1954.

She began her professional career as instructor of chemistry at Louisiana State University (LSU) at Baton Rouge in 1954 and became full professor at the University of New Orleans in 1963. She served as Boyd Professor of Chemistry at the University of New Orleans, 1974-78, and Boyd Professor of Materials Science at LSU-Baton Rouge, 1978-80.

In 1980, Dr. Good took an industrial position as Vice President and Director of Research with UOP Inc. Since then, she has led the transition to corporate research center for the Signal Companies and now to Allied-Signal's Engineered Materials Research Center. She broadened and deepened the center's research capabilities, developing major programs in materials science, biotechnology, separations science, and materials-by-design.

Her research interests include spectroscopic techniques applied to materials characterization; solid state and surface chemistry; characterization of the chemical, physical, and environmental properties of antifouling marine coatings containing organometallic toxicants; marine corrosion; preparation and characterization of transition metal complexes that exhibit low dimensional magnetic properties; and complex chemistry of ruthenium and the characterization of supported ruthenium catalysts.

Dr. Good has authored approximately 100 articles in refereed technical journals, several publications on science policy and research strategy, and one book. A recipient of the ACS Garvan Medal, Dr. Good has held many local and national ACS offices and has served on numerous advisory committees and editorial boards.

What is a Chemist Today?

Abstract

In these days of rapidly changing technology, scientists trained as chemists are choosing to work in non-traditional new fields such as materials science and biotechnology. We call them genetic engineers, molecular biologists, chemical biologists, chemical physicists, and materials designers. What does this mean for the future of chemistry: research opportunities, education, and public perception?

Actually, the distinctions are not new. There are simply many more of them. Chemistry has never been separate from the rest of science. Our classifications have become more precise as our technologies have grown more diverse and sophisticated. The secret is in how to participate in new, exciting research areas using the same old essential skills of chemistry combined with the new molecular skills to make programs go. Materials-by-design is a good example of how the chemist fits into the new technology.

DIRECTIONS TO THE CAROLINA INN AND VENABLE HALL

From Raleigh, take Highway 54 west to Chapel Hill. From Durham, take US 15/501 to Highway 54 in Chapel Hill; turn heading west. Immediately after passing Kenan Laboratory on the right, Highway 54 will turn right. The Carolina Inn is located immediately on the left and Venable Hall on the right.

EXCERPTS FROM THE EXECUTIVE COMMITTEE MEETING MINUTES December 3, 1986

The Safety Committee's Chairman, Bernie Spielvogel, reported discussions about the problem of disposing waste from high school chemistry laboratories. Advertising a chemical exchange program in *TarHelium* was suggested by Executive Committee members.

A newly formed Academic-Industrial Interface Committee is headed by George Wyman. This committee's function will be to provide information on education opportunities for chemists in our area and arrange for advanced level chemistry courses for persons who work full time, provide ways of facilitating collaboration between academic and industrial institutions, promote chemistry, improve the image of chemists, and form a Speakers' Bureau.

Monica Nees, Chairman of the Education Committee, reported that the Statistics short course was very successful; fifty students enrolled.

Possible ways to participate in National Chemistry Day, November 6, 1987, were discussed. Collaboration with the N.C. Museum of Life and Science and contacting Governor Martin about becoming involved in National Chemistry Day were proposed.

FUTURE ACS MEETINGS

The March ACS meeting will be held on St. Patrick's Day, Tuesday, March 17, 1987, in the Computer Science Department at UNC-Chapel Hill. Dr. Frederick P. Brooks will be the speaker on molecular modeling with computer graphics. After his presentation, Dr. Brooks has arranged for some demonstrations.

The April ACS meeting will be the Meeting-in-Minature held at Duke University on Saturday, April 11, 1987. The Section is receiving some outside support for the Meeting-in-Miniature, and we hope to make it special this year.

The ACS and Triangle Chromatography Discussion Group are cosponsoring the 4th Triangle Chromatography Symposium and Exhibition at the McKimmon Center in Raleigh on Thursday, May 14, 1987. A one day workshop on narrow bore and capillary gas chromatography is scheduled the day before. Look for future details to appear in a later *TarHelium*.

NATIONAL CHEMISTRY DAY FRIDAY, NOVEMBER 6, 1987

The North Carolina Section is planning to participate in the National Chemistry Day celebration in November. Anyone with suggestions for activities or a willingness to help organize them should contact the Chairman, William Switzer at 737-2945.

DR. KIRK ABBEY SPEAKS TO THE POLYMER GROUP

Dr. Kirk Abbey from Lord Corporation will speak to the Polymer Group on Thursday, February 12. His topic will be "Reactive Dimers of Methacrylates by Metal Catalyzed Chain Transfer." Thursday, March 12, Dr. H. James Harwood from the University of Akron will speak. The title of his talk is "Solvent Effects in Copolymerization." All meetings are held at the North Carolina State Faculty Club. Everyone is invited to the talk at 7:30, but please make reservations if you plan to attend the social hour at 5:30 or dinner at 6:30. Call Dr. Ray Kirby at 543-8043 (RTP) or Dr. Fred Robinson at 469-6760 (Cary).

PROPOSED OPERATING BUDGET FOR 1987
North Carolina Section
American Chemical Society

	1987 Proposed		1987 Proposed
Revenues		Meals Expenses	
Annual ACS allotment	6984.00	Meals	3000.00
New Member Commissions	100.00	Meeting-in-Miniature	1000.00
Local Section Dues	2100.00	Social Hours	400.00
Publications, Advertisements	1000.00	Rooms	0.00
Meals (total meals revenue)	2500.00	Miscellaneous	50.00
Receipts from short courses	3000.00	Total Meals Expenses	4450.00
Interests, dividends		Publications — <i>TarHelium</i>	
Savings Account	770.00	Printing	3200.00
Certificate of Deposit	1881.56	Postage	2700.00
Donations, contributions	1500.00	Total Publications	5900.00
Rebate from ACS		Newsletters and Announcements	0.00
for Councilor travel	375.00	Awards, Scholarships	
Other: From Sinking Fund	800.00	Centennial Scholarship	1500.00
Total Revenues	21010.56	High School Chemistry	1000.00
		Total Awards	2500.00
Expenses		Travel Subsidies to Councilors	750.00
Administrative Expenses		Travel Subsidy/Fee LS Officers	
Travel	0.00	Conference Fee	0.00
Miscellaneous	150.00	Travel Expenses	0.00
Total Administrative	150.00	Total Officer's Conference	
		Expenses	500.00
Committee Expenses		Other (Contingency)	560.56
High School	500.00	Total Expenses	21010.56
Safety	150.00	NET GAIN (LOSS)	0.00
Publicity	300.00		
Archives	200.00		
Academic/Industry Interface	150.00		
National Chemistry Day	500.00		
Total Committee Expenses	1800.00		
Total Administrative +			
Committee Expenses	1950.00		
Subsidies to subsections			
Polymer Group	200.00		
N.C. Academy of Science	0.00		
Total Subsidies	200.00		
Short Courses			
Honoraria	1700.00		
Incidental Expenses	400.00		
Total Short Courses	2100.00		
Local Meetings			
Honoraria	300.00		
Travel Expenses	1100.00		
Miscellaneous	200.00		
Meeting-in-Miniature	500.00		
Planning Retreat	0.00		
Total Meetings	2100.00		

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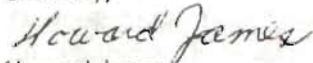
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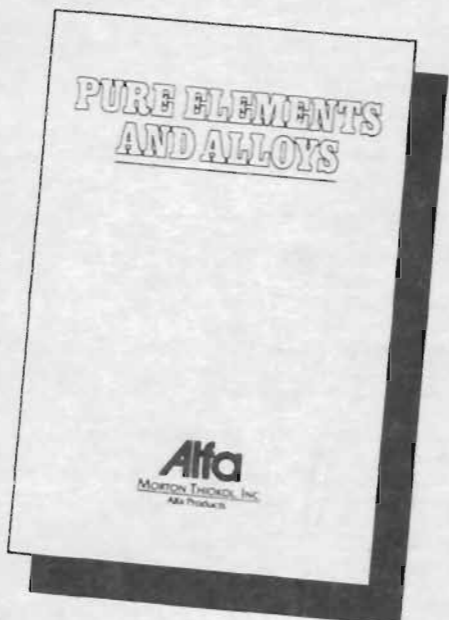
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