The New Chemistry Building
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Continuing the tradition of excellence in chemistry education at Clemson University
“My purpose is to establish a college . . . which will afford thorough instruction in agriculture and the natural sciences . . . and combine physical and intellectual education.”

Thomas Green Clemson, Chemist
Founder of Clemson University
Nucleus of Scientific Education

From the beginning, chemistry has been at the nucleus of a Clemson University education in science. In fact, the University's founder, Thomas Green Clemson, was himself an eminent chemist who believed that only through formal scientific education would prosperity be secured. Mr. Clemson was a champion of the historical movement to establish scientific and agricultural education as a national priority. Although he never lived to see it, his dedicated efforts culminated in the founding of Clemson Agricultural College.

When Clemson opened its doors to the first entering class in 1889, many of those students received instruction in chemistry. Today, chemistry is still central to the education of a large majority of Clemson students. Almost half of the 77 baccalaureate degree programs offered at Clemson include courses in chemistry, the majority requiring eight or more semester hours. Chemistry is needed by students majoring in seven of the nine academic colleges at Clemson, and all engineering students take at least one course in chemistry.

The role of chemistry in a Clemson education is even more significant when you consider that the majority of enrolled students receive their first exposure to Clemson laboratory sciences in chemistry. Of the 2,916 entering freshmen in 1983, more than 1,600 were enrolled in chemistry courses. Thus, chemistry impacts at an early stage on the careers of more than 55 percent of all students. Taking into consideration the substantial number of other students who elect chemistry to satisfy a laboratory science requirement, chemistry directly affects the careers of more than 60 percent of all graduates. In an increasingly complex and technologically oriented world, the importance of this exposure to chemistry cannot be overemphasized.

The importance of chemistry at Clemson is not confined to campus boundaries. The chemistry program also plays a leading role in the economy of the state of South Carolina through the quality of the graduates produced and the research conducted. In South Carolina, the chemical and chemical-related industry accounts for a large portion of the state's economy. More than 100 corporations have major facilities in the state involving both production and research in chemicals or related areas. Clearly, Clemson's chemistry program is not only a nucleus to scientific education, but also is at the heart of the state's chemical industry.
Tradition of Growth and Outgrowth

The oldest building on campus today stands as proof of the founding role chemistry played at Clemson Agricultural College. Hardin Hall, the first chemistry building, was completed in 1890, just a year after the College opened its doors. Within 10 years the building was expanded, beginning a paradoxical tradition of a vibrant and healthy chemistry program ever growing—growing beyond the means of the facility that supports it. In 1912 the first baccalaureate degrees in chemistry were awarded, and around 1940 another addition to Hardin Hall was completed.

Less than 14 years later, with more students studying chemistry and more faculty members conducting more research, Hardin Hall twice-expanded could no longer contain the chemistry program. In 1951 the present chemistry building, Brackett Hall, was completed at a cost of $400,000. Then history began to repeat itself. Two years later, the first master's degree in chemistry was conferred, and in 1956 the University established the Ph.D. program in chemistry as one of its first three doctoral programs. Growth in undergraduate and graduate enrollment necessitated a major addition to Brackett in 1965. Once again, it seemed the chemistry program had a suitable home for many years to come.

Seven years ago, however, increasing-enrollments, expanded areas of research, technological changes and stricter safety standards began to require more space, and, importantly, different kinds of space. A study during 1977-79 investigating the possible renovation of Brackett Hall concluded that any renovation would be far too costly to meet current needs and safety standards.

Thus, in November 1980 the South Carolina Commission on Higher Education made construction of a new chemistry building at Clemson University the top higher education capital improvement priority in the state. The Legislature approved funding in June 1981, and the State Budget and Control Board released the funds a year later. Program planning for the new chemistry building began in December 1982.
Enrollment and Research Trends

CHEMISTRY ENROLLMENT FALL 1983
Total Enrollment in Classes 2,200

Undergraduate Majors
Graduate Majors

CHEMISTRY FACULTY RESEARCH PUBLICATIONS
1965-66 1981-82

CLEMSON UNIVERSITY ENROLLMENT
1965 1983

EXTERNAL RESEARCH FUNDING IN CHEMISTRY (Total Value of Grants)
1965 1983

$1,000,000

Note: 1965 is used as a base year because of the expansion of Brackett Hall that year.
The Funding Commitment

In a time of economic uncertainty, the State Legislature and the Governor made a commitment in 1980 of $11.6 million to fund the new chemistry building project. A two-year delay in release of funds and the corresponding escalation in the economy, however, has caused the original funding commitment to fall short of the current estimated need of $13.1 million.

Private gifts are needed to make up the $1.5 million difference—the difference between a good chemistry program at Clemson and an excellent one. Additional funding for state-of-the-art equipment and facilities is essential to the Chemistry Department's teaching and research endeavors. With modern laboratories and equipment, students can be properly trained for highly technical careers. And only by placing the most advanced equipment in this facility can a solid research base for the advancement of science be built.

The private commitment will enable the Chemistry Department to update its laboratory facilities and equipment and continue to enhance its instructional and research activities. A campaign is being coordinated through the Clemson University Foundation to achieve this goal of $1.5 million.

Commemorative Opportunities

As you consider participating in the Clemson University Chemistry Building Development Fund, please give serious thought to either a memorial or living tribute contribution. In this way, you will not only have strengthened the University's chemistry program, but your name or your company's will bear witness to your generosity and thoughtfulness. Gifts will be acknowledged by the placement of a permanent plaque suitably inscribed and prominently displayed.

Financial commitments to name an area of the new chemistry building are determined by the desirability of the facility as a tribute or a memorial and not by the actual cost of construction. Specific commemorative opportunities in the new chemistry building follow.
FIRST FLOOR

Named Area
Chemistry Learning Resource Center $75,000
Freshman Teaching Laboratories 25,000
Computer Center 20,000
Seminar Room 20,000

AUDITORIUM

Named Area
250-seat auditorium stands separate but adjacent to the main laboratory building $400,000

SECOND FLOOR

Named Area
Library $75,000
Research Laboratories 35,000
Teaching Laboratory 20,000
Faculty Lounge 20,000
### THIRD FLOOR

<table>
<thead>
<tr>
<th>Named Area</th>
<th>Minimum Contribution</th>
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<tbody>
<tr>
<td>Research Laboratories</td>
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<tr>
<td>Teaching Laboratories</td>
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<tr>
<td>Student Lounge</td>
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### FOURTH FLOOR

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<td>Research Laboratories</td>
<td>$30,000</td>
</tr>
<tr>
<td>Seminar Room</td>
<td>20,000</td>
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</tbody>
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Your Commitment

Clemson University stands as a model of what can be achieved through a careful blending of public and private commitments. The state has made its commitment toward excellence in chemistry education in South Carolina. All is in readiness: a strong tradition in chemistry, a dynamic chemistry program, internationally recognized faculty and staff, eager students. Only your generosity is needed.

You may share in reaching the $1.5 million goal for the new chemistry building by making a gift of cash, securities or property. Pledges are encouraged and may be extended over a period of up to three years. All gifts are tax deductible.

Members of the Clemson University Foundation staff are available to consult with you concerning plans for your gift. Write or call:

Clemson University Foundation
110 Daniel Drive
Clemson University
Clemson, South Carolina 29631
Telephone 803/656-2121

If you would like to know more about Clemson University's chemistry program or plans for the new chemistry building, contact:

Dean Henry E. Vogel
College of Sciences
119 Kinard Lab of Physics
Clemson University
Clemson, South Carolina 29631
Telephone 803/656-3472

or

Dr. Darryl D. DesMarceau
Head, Department of Chemistry
114 Brackett Hall
Clemson University
Clemson, South Carolina 29631
Telephone 803/656-3066
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