

# The Daily Tar Heel

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For This Issue

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## THIS WOULD BE A TONIC FOR EXAMINATIONS

**T**OREADOR . . . en garde!" defiantly rang out on the still air of Kenan stadium. The summer audience thrilled with Bizet's entire song of the Toreador. Now again: "Ridi Paggiacco! . . ." and Martinelli voiced Leoncavallo's immortal passage.

Last summer it was that sound engineers rigged up the amplification system in Kenan stadium to bring to hundreds of listeners, seated under the stars, masterpieces from the music department's disc collection. Summer school officials found the program eminently popular—and, incidentally, quite inexpensive. Right now we have the same records, the same sound engineers, the same enthusiasm for good music, more than twice the number of students to enjoy the programs—and the same twinkling stars. Nothing stands in the way.

If the "Y" or Graham Memorial would lead the way, there could easily be at least two evenings for Caruso to sing in Kenan before examinations start us studying.

## TAKE A LOOK AT SOME CAROLINA SCIENTIFIC ACHIEVEMENT

**S**O SELDOM DOES the opportunity to examine the long-run achievements of University present itself. The appearance of R. W. Madry's little article in the new Alumni Review showing that the "University Has a Rich Scientific Atmosphere" certainly is welcomed.

Here we go beating out collective breasts like intellectual Tarzans—o. k. Mr. Madry:

The recent convention of the American Chemical Society served to focus attention on notable achievements in science that have been made by faculty members at the University of North Carolina where the convention was held.

It was at this venerable institution, first state university in the country to open its doors to students, that the first college observatory in America was established in 1832 with instruments imported by President Caldwell.

Here was issued in 1924-25 by Deniston Ohmsted, afterwards Professor of Mathematics and Natural Philosophy at Yale, what is said to have been the first published report of any geological survey in the United States.

### Elisha Mitchell

Of considerable note in those early days was the scientific work of Dr. Elisha Mitchell, particularly in geology and geography. Dr. Mitchell devoted much of his time to exploring and measuring the heights of mountains. It was in 1837 while verifying his measurements concerning the highest point east of the Rockies (the mountain which bears his name) that Dr. Mitchell lost his life.

"During this early period prior to 1856 North Carolina was deservedly famous for the scientific researches of three eminent scientists," reports Dr. Archibald Henderson, the mathematician and literature in a survey made recently.

### Spider King

He referred to Dr. Lewis David Von Schweinitz of Salem, Dr. Nicholas Marcellus Hentz of the University, a pioneer in entomology, "then recognized as the highest authority on American spiders"; and Dr. Moses Ashley Curtis, of Hillsboro, famous botanist, pronounced by Professor Asa Gray the leading mycologist in the United States at that time.

With the reorganizing of the University following the War between the States important scientific research was virtually impossible under the depressing conditions of scanty equipment and meagre income. Dr. Henderson holds that "the modern period of immense productivity and research of international significance really began with the founding of the Elisha Mitchell Scientific Society at Chapel Hill in 1883. The four founders of this Society were Francis P. Venable, Joseph A. Holmes, R. H. Graves, and J. M. Gore.

### Space Forbids

As Dr. Henderson points out in his survey, "any attempt to cover the scientific activities of the University would

bog down under the mountainous weight and volume of publication."

Space here forbids more than a mere mention of several outstanding developments in recent years.

It seems significant that the University has furnished two of the past presidents of the American Chemical Society: Dr. Francis Preston Venable and Dr. Charles Holmes Herty. The achievements of both men are rated tops in the chemistry world.

### Bunsen Burner

Dr. Venable, who was President of the Society in 1905, devised a new form of Bunsen burner, the same in principle as in general use today. Regarding his invention he said in a magazine article of that time: "The main feature is that the supply of gas is regulated at the base of the burner by a milled wheel and that this supply is diminished only at the issuing jet inside the chimney."

Dr. Venable evidently did not then recognize the great money value of this modification of the burner, since for six burners he sold the right of their manufacture and sale.

At different intervals, 1880-1900—Dr. Venable served as head of the University Chemistry Department. He was president of the University from 1900-1913.

Dr. Herty, another former head of the Department who attended the recent convention, was President of the American Chemical Society in 1915-16. His recent development of a process for making newsprint from slash pine apparently presages a revolution in the manufacture of newsprint.

To chemists acquainted only from a distance with the University, the names of Baskerville, Herty, Venable, Bell, Wheeler, Cameron and Mack are perhaps the most familiar. Dr. Charles Baskerville was head of the Department at the turn of the century. In 1904 he went to New York where his reputation continued to advance.

Dr. Frank K. Cameron, who was honorary chairman of the convention, is well known throughout the country for his plan for converting cotton into oil and alphasellulose. He and a group of associates have had considerable success with experiments whereby cotton is planted broadcast and mown and baled like hay. If it can be perfected the process should revolutionize cotton production and bring greater profits to farmers.

### Dye Work

Dr. A. S. Wheeler, who served as head of the Department until 1934 when ill health forced him to resign, had won an enviable reputation for his work in dyes.

Chemistry has played an important role in the curriculum of the University since it first opened its doors to students in 1795. In those humble beginnings the University offered a course in chemistry, geometry, astronomy, and natural and moral philosophy. Since then the University's Chemistry Department has undergone a steady expansion until today it enjoys the distinction of having one of the best equipped plants and ablest faculties in the country.

### Dr. MacNider

Dr. William deB. MacNider, Kenan Research Professor of Pharmacology in the School of Medicine has won wide recognition for his original investigations in diseases of the kidney. The New York Academy of Medicine awarded him the Gibbs prize in 1931 and a year later the Southern Medical Association presented him with its achievement medal.

As a result of his investigations over a period of years, Dr. MacNider has discovered that tissue cells damaged by chemical poisons have less resistance to second attacks if they are regenerated in complete or perfect form. When the cells are regenerated in an imperfect form the organ develops greater resistance, Dr. MacNider said. This theory is of particular significance in the treatment of acute Bright's disease.

### Dr. Coker

Prominent in biological research is Dr. Robert E. Coker, head of the Zoology Department, now serving a three-year term as Chairman of the Division of Biology and Agriculture of the National Research Council and recently named President of the Ecological Society of America.

Important research in sponges has been made by Dr. H. V. Wilson, emeritus head of the Zoology Department, whose work has attracted international attention.

### Dr. Henderson

Although he is perhaps better known as biographer-in-chief of Bernard Shaw, Dr. Archibald Henderson, head of the Mathematics Department, is regarded as an authority on the Einstein theory of relativity and has made important contributions of his own to that theory.

Contradictory theories held by some other geologists, Dr. W. F. Prouty, head of the Geology Department, and a group of associates announced recently that, as a result of extensive surveys and experiments covering several years, they had obtained "convincing proof" that the numerous elliptical shaped bays and lake basins in the coastal plain areas of North and South Carolina were "formed by the impact of massive meteorites striking the earth at a comparatively small angle to the horizontal."

### Cosmic Ray Particles

Chemists attending the meeting had the opportunity to see in operation cloud chamber apparatus for photographing the tracks of cosmic ray particles and particles from radioactive substances. This apparatus was constructed by Dr. A. E. Ruark, head of the Physics Department, and Creighton Jones.

In recent years Dr. Earle K. Plyler, also of the Physics Department, and his colleagues have been very active in studying the nature of dissolved substances by the use of infrared rays. Work of this kind is done with infrared spectrometers. These instruments show what wave lengths of infrared light are absorbed by substances placed in the path of the infrared rays; and for measurements of the absorption of the rays, information can be obtained as to the structure of the molecules in the substances under investigation.

In Engineering Prof. T. F. Hickerson has shown marked originality in designs for structural frameworks to withstand unusual shocks and in tests for determining the strain of highway culverts.

Dr. W. C. Coker, Kenan professor and head of the Botany Department, is widely recognized as an authority in this field, and Dr. John N. Couch has won unusual recognition in this country and abroad for his rare skill in discovering new species.

### Public Health

The University was recently designated by the government as the training center for public health officers for the Southeastern states, and Dr. M. J. Rosenan, formerly head of public health at Harvard, was placed in charge of a newly-created Division of Public Health here.

Were there space the achievements of many others might be listed—such as Dashiell and Bagby in psychology, Stuhlman in physics, Howell, Beard, and Burlage in pharmacy; Totten in botany, Baily in sanitary engineering, Beers in zoology, Brown and Lasley in mathematics; George and McChesney in medicine and numerous others.

# CARO-GRAPHICS by MURRAY JONES JR

**DO YOU KNOW YOUR STATE?**

**FUNERALS**  
PRIVATE FUNERALS WERE AGAINST THE LAW IN N.C. BEFORE 1715

**FOOTBALL**  
FOOTBALL AS PLAYED AT THE UNIV. OF N.C. IN THE 1880'S HAD A HUNDRED MEN ON EACH SIDE

**DID YOU KNOW THAT JOHN LAW, REGISTER OF DEEDS IN ORANGE CO. FOR 65 YRS DID NOT DRINK WATER DURING THE LAST 40 YRS OF HIS LIFE, AND NEVER ATE A TOMATO?**

THIS YEAR THE OWNERS OF THE SUMMER RESORTS IN WEST N.C. MADE \$50,000,000

• THE EDITORS OF CARO-GRAPHICS INVITE YOU TO SEND IN INTERESTING FACTS ABOUT YOUR COMMUNITY •

## "Say The Word" Opens Tonight

(Continued from first page) The background can be seen a large poplar tree and the statue of a Confederate soldier with a gun in his hands.

Grouped under the light post the students bewail the conditions in a school where there are no coeds. The following afternoon there is a meeting of the executive board of the university. Funds are short; where to get them is the question. It is learned that by putting a sophomore (the board protests in horror) at the head of the executive board, five million bucks can be had.

### Coed Admission

The sophomore will accept the proposition only on the condition "that we have coed admission." Geddie Monroe plays the sophomore, Quadrangle Jones.

The romantic element of the plot gets underway in the next scene after the coeds have been admitted. A boy meets a coed.

Playing leading roles are Geddie Monroe, Nancy Schallert, Mary Lillian Speck, Stanley Van Cise, Audrey Rowell, Sue Southland, and Lillian Hughes. Bert Halperin is chairman of the executive board of the university.

Other parts include Tom Story, Paul Wallach, Julius Hilfman, Henry Bluestone, Horace Johnson, Kenneth Fishback, Arthur Daniel, Frances Roughton, Stanley Schneeweis, Reed Sarraff, Berta Arnold, and Peggy Hampton. Featured in a trio are Frank Turner, Harry Barlett, and Bernard Fink.

### Chorus

The men and women's chorus include Berta Arnold, Beatrice Boyd, Beth Greene, Peggy Hampton, Lillian Hughes, Frances Roughton, Marguerite Wallace, Arthur Daniel, Bernard Fink, Kenneth Fishback, Jules Hilfman, Tom Myers, Frank Turner, and Paul Wallace.

Members of the board are Reed Sarraff, Maurice Edwards, Ross Scroggs, Edgar Hinton, Clarence Joyce and Fred Tunick.

Music and lyrics were written by David Lieberman, Fred Tunick, Geddie Monroe, George Jaffe, Anson Scott, and Sanford Stein. Dialogue was composed by Stein, David Kerly, Schneeweis from the story by Fred Tunick, Carl Fistel and David Liebermann.

### Musical Director

Musical director for the production is Liebermann; orchestrations by James Fuller, W. Lee Mack, Norman Bennett; lighting, Joseph Feldman; technical director, Walter Preston; choreography, Christine Maynard, Dwight Brown, Ernest Vandenberg, and Henry Bluestone; business manager, Joe Murnick; advertising manager and editor of the twelve page play-bill, Bert Halperin.

## CPU Celebrates Year's Achievements

(Continued from first page) investigation of charges made by Brewster against Congressman Cochran of a voting bribe, Brewster said, "I felt exactly the same as I did when Insull tried to put the screws on me in Maine. At that time I was defeated for the senate and congress and went through a veritable hell because I fought Insull. But when it comes to a fundamental issue of that kind and someone tries to use a club on me, there is only one answer—tell them to go to hell and do the opposite."

A large audience of students, faculty, townspeople, and outstanding political figures are expected tonight to hear new angles on the supreme court issue presented when tongues of two strong politicians battle-clash in Hill hall's arena.

## French Staff Will Do Play

(Continued from page one) Hansen. The cast will be made up of faculty members and graduate students, including Mrs. H. R. Huse, Mrs. Leroy Smith, Mrs. Charles Looney, Dr. Urban T. Holmes, Dr. J. C. Lyons, Dr. Leon Wiley, Dr. F. C. Hayes, L. L. Barrett, George Adams, Lawrence Cheek, Fred Allred, and Bob Coker.

The other play, a drama of a shell-shocked veteran's crime, will be acted by Mary Stokes, Lucy Watson, Hank Stockton, Hugh Foss, Robert Nachtmann, Paul Quinn, Stuart Ficklen, Henry Bluestone, and Stuart Gregg.

## Rushing Rules Are Published

(Continued from page one) summer are to be considered violations of the council's edicts, and will make the offending house liable to a penalty.

Henry Clark, president of the council, stated that fraternity houses are subject to some of the phases of the Social Security act, and urges house officers to get further information from the local postmaster.

The council will meet tonight at 7 o'clock in Graham Memorial, and the election of officers for the coming year will be held. Both old and new members of the council should attend tonight's meeting.

## Coenen Will Speak Tonight

(Continued from first page) two years ago, when he came to this country.

Frank Turner, president of the club wishes to announce that all students who have lived more than two years outside the United States or who were born in some foreign country, are eligible and welcome to become members of the club.

**SAND AND SALVE**  
By Stuart Rabb

### DANGEROUS COMPANY

According to press releases, the Republican congressmen have joined Senator Bailey's against - the - court - packers. Washington writers call the union a "coalition."

How cohesive the new group will be Mr. Bailey himself probably does not know. One thing is certain, the addition of the Republican bloc has given Mr. Bailey's coalition a new flavor. Mr. Bailey comes up for reelection next year. To the palates of his constituency, this G. O. P. taint may be bitter. Or if the President admits defeat and backs down it may not be so bitter.

The only trouble is that Mr. Roosevelt doesn't back-up easily. Except, of course, when he advocates economy.

## Radio Today

- WBT—1080 kc. (CBS)  
7:30—Al Joelson, Martha Raye.  
8:30—Jack Oakie's College.  
10:15—Tommy Dorsey's Orchestra.  
10:30—Lennie Hayton's Orchestra.  
11:10—Frank Dailey's Orchestra.  
11:30—Isham Jones Orchestra.
- WPTF—680 kc. (NBC)  
8:00—Ben Bernie
- WDNC—1500 kc. (CBS)  
7:30—Southern Gentlemen Orchestra.  
10:30—Gus Arnheim's Orchestra.

## Comer, Olsen Begin Instruction

(Continued from page one) abilities and functions of the office and methods of record keeping, and Cate will explain to the new treasurers the laws of the Student Audit bureau.

The courses are open to all newly-elected campus officers of any and all activities, including fraternities. The instruction beginning this afternoon will continue at the same time through Thursday.

## Smith Will Go To Switzerland

(Continued from page one) or 40 college men and women from all parts of the world.

Mark Orr, Carolina senior who was named with Smith to represent the University in the national selection by a local faculty committee was appointed an alternate by the New York authorities.