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THE UNIVERSITY
OF
NORTH CAROLINA



THE RECORD

1901-1902

CHAPEL HILL
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CHAPEL HILL

RECENT IMPROVEMENTS.

The University grounds and buildings have been the scene of much activity during the past summer. A number of different gangs of workmen have been busied with the many improvements going on. The new dormitory, the Mary Ann Smith Building, begun in January, was pressed to completion by the opening day of the fall session. It was immediately filled by students, the 38 rooms contained in it aiding materially in accommodating the increased number of students.

Plasterers and carpenters have been at work on the Alumni Building and it will be ready for use before the close of October. This beautiful building provides fourteen new lecture rooms besides the administration offices. For several years some of the classes with their teachers have led a nomadic life wandering about in search of a recitation room. The enlarged faculty renders it still more difficult to arrange for the classes, and the sense of relief will be great when the new building comes into use.

Another set of workmen have been laying pipe and placing radiators in all the buildings installing the new heating plant. The system was adopted after consultation with government engineers in Washington and is the one in use in the Congressional Library and other new public buildings. It is the hot water system with forced circulation, and while one of the costliest to install, is the one that seemed to promise the most satisfactory results. The contractors are Evans, Admiral & Co., of New York. It may seem to some old students to have been unnecessary to have any central heating system, but the truth is the growth of the University has practically forced this upon us as a necessity. Three new buildings had to be heated and three old buildings had no chimneys nor other contrivances for heating, beyond dangerous flues or terra cotta pipes. There was, then, imperfect service, great danger from fire and heavy expense connected with the heating of about one-half the buildings, and so the new heating plant became a necessity.

The completion of the water works and sewerage has employed several sets of workmen. The abundant supply of excellent water is now fully distributed over the new buildings and partially over the old. The

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funds in hand did not admit of the introduction of water upon every floor of each building, but enough has been done to meet present necessities.

The Chapel has been re-roofed and the interior renovated; the old porch torn down and its materials carefully laid aside to be transferred to the east end over the present entrance. This porch will be rebuilt next vacation, and thus a worthy bit of the old architecture preserved and the appearance of the Chapel greatly improved.

The roof of Memorial Hall has been repaired; and needed portions of the work restored.

A new boiler house has been constructed as an addition on the west of the power house, and on the east a work shop and printing office erected. These very necessary structures are not architecturally beautiful but will doubtless be hidden by a more imposing building as the University grows.

On the edge of the campus the Sigma Nu fraternity has constructed a handsome hall.

The addition of two large dynamos, doubling the capacity of the Electric Lighting Plant, may also be noted as one of the improvements of the summer. Altogether, the amount expended in changes and improvements during the past few months has exceeded \$60,000.

ADDITIONS TO THE FACULTY.

Dr. James D. Bruner, the newly elected Associate Professor of Romance Languages, was born near Leitchfield, Ky. He entered the Johns Hopkins University in 1890 and took the degree of Doctor of Philosophy there in 1893, spending twelve months abroad during this time. In the fall of 1893, he was elected head of the new Romance department in the University of Illinois, where he remained two years. In 1895 he accepted the position of assistant professor of Romance Languages in the University of Chicago, and was head of the department. Upon the advice of his oculist he gave up his work for the past three years, but is now fully restored and ready for work again.

This division of Modern Languages leaves German with Prof. Toy and assigns French and Spanish to Dr. Bruner. It may be added that Dr. Bruner is well known among philologists on account of his researches and published papers.

Charles Lee Raper, who is to fill the Associate Professorship of Economics and History, was a student of Trinity College in 1888—1892, graduating with high honors in the latter year. He was an instructor at Trinity and professor in Greensboro Female College. In 1898 he entered Columbia University, winning later a university fellowship. For a year and a half he was one of the university lecturers at Columbia University. In 1900 he completed the examinations for the Ph.D. degree at Columbia University. In 1898 he published a work of 245 pages on "The Church and Private Schools of North Carolina," and he has ready for the press a monograph "A Study in English Colonial Government: North Carolina as a Royal Province."

Dr. Isaac Hall Manning was in June chosen by the Trustees to fill the newly created professorship of Physiology. Dr. Manning was born in Pittsboro, N. C., and is a son of the late Professor John Manning. He was a student of the University, and for a year assistant in Chemistry here. Having completed the medical course here, he went to the Long Island College of Medicine, graduating there with honor in 1897. For one year he remained as physician and surgeon in the Long Island College Hospital. He then accepted a position with the Atlantic Coast Line, and for more than a year has been in charge of their hospital at Rocky Mount. Dr. Manning has taken graduate work at the University of Chicago.

LECTURE COURSE, 1901-'02.

The lectures provided for 1901-'02 are unusually attractive. Few cities of fifty thousand inhabitants have so good a course. One or two additions, to include Mr. Hamilton W. Mabie, will be made. The dates already settled are:

Sept. 25th, Mr. A. W. Hawks, the humorist.

Oct. 12th, Hon. Thomas W. Mason.

Oct 24th, Hon. Thomas C. MacRae.

Nov. 5th, Mr. W. Hinton White, the well known traveller.

Nov. 21st, Prof. H. F. Linscott.

Jan. 4th, Professor Eugene C. Foster, "Liquid Air," with demonstrations.

Jan. 16th, Prof. Win. Cain, "Mathematics historically considered."

Feb. 13th, Dr. Paul Barringer, Chairman of the Faculty, University of Virginia.

Feb. 27th, Prof. Collier Cobb, "Sand Reefs of the Carolina Coast."

March 13th, Prof. Charles L. Raper.

April 16th, Grand Concert, by the Boston Sextette.

UNIVERSITY DAY.

University Day, Oct. 12th, was celebrated with enthusiastic interest. The services opened with prayer, offered by Rev. E. Pendleton Jones, of Owensboro, Ky.

President Venable spoke of the wonderful growth of the University from its beginning in 1793, when, at the opening, there was one building, one professor, one student.

He then introduced the speaker of the day, Honorable Thomas W. Mason, of Northampton, a graduate of the class of 1858, of whose ability, character and distinguished services his Alma Mater has long been proud. Colonel Mason's subject was "Useful Learning," as understood by the Founders, and as understood in our times. The eloquent and thoughtful address will be published in the next issue of *The Record*.

REORGANIZATION OF THE LIBRARY.

At the close of the Summer Normal School work was begun on the reorganization of the Library. The plan proposed was, first, to review and arrange the shelves carefully, and whenever possible gain shelf-room by removal of duplicates and little used matter to storage rooms. In this way some 5000 volumes, mostly government publications, have been transferred to a small room in the basement. Previously over 4000 volumes of periodicals had been removed to a balcony room in the west end of the library built for that purpose. In this way shelving has been gained for at least 6000 volumes and the over crowded cases allowed to expand. The next step was to classify and catalogue the works by the most approved methods. The Dewey or decimal system of classification was adopted and the services of a graduate of the Albany Library School secured. Within the six weeks ending Sept. 15, the English literature, the sociology and economics, and the fine arts have

been moved, classified and catalogued, in all about 4000 volumes, requiring the writing of 12000 cards. Also the Greek, Latin, Teutonic and Romance languages have been moved, and arranged on the shelves alphabetically by the surnames of authors. In all the changes, care has been taken to keep classes and allied topics together, so that now all the literatures stand together in the southwest side of the library, all falling in the class 800, e. g., American Literature 810, English 820, Teutonic 830, French 840, Latin 870, Greek 880, etc. So also Sociology, Economics proper, Law, Education, etc., have been placed together and now occupy most of the shelves in the first aisle to right of center. In re-writing the catalogue the difficulties of the average seeker have been kept in view. For each book there have been written an author card, a subject card and, when the subject card does not identify the title, a title card also. Many works also such as general essays have been analyzed and their contents catalogued. In a few days the library will have an index to its English and American language and literature, its economics, and fine arts, as completely worked out as the index to a valuable and carefully edited book.

During the winter this work will be continued by Mr. W. S. Bernard and necessarily will progress much more slowly than during the summer. At present the large and valuable accumulation of the Elisha Mitchell Scientific Society is undergoing classification in the balcony room at the East end of the library. When completed it will render accessible some of the most valuable matter in the library.

OPENING OF THE FALL TERM.

The attendance upon the University shows a most gratifying increase this session, indicating that a great step forward has been taken, not only in material equipment, which has increased by \$125,000 in the past two years, and in the faculty, where the number has been increased by 52 per cent, but also in the number of students who have come to get the benefits offered by the State through her University.

At the close of the opening week the registration stood at 503, which is to be compared with 397 last year; for the second week, the numbers were 531 for 1901, and 461 for 1900. The total catalogue number for the session last year was 524. The number at date of this publication is 545.

The following table gives a comparison of the *fall* registration for four years:

	Academic	Law	Medicine	Pharmacy	Total
1898-99	349	71	41	19	480
1899-1900	345	65	40	20	470
1900-1901	362	41	39	25	481
1901-1902	398	59	60	28	545

It must be borne in mind that the above numbers represent only the fall registration.

The academic students are compared with the last four years in the following table. For the years 1898-99 and 1899-1900 the total registration of the year is given, as the fall registration is not available.

	Graduates	Seniors	Juniors	Sophomores	Freshmen
1898-99	15	57	54	101	133
1899-1900	26	50	67	86	142
1900-1901	23	55	53	106	125
1901-1902	16	55	77	101	149

As to the age of the entering class, the youngest student is 15 years 9 months old, and the oldest is 36 years of age. The total number of students under seventeen at the University is 12.

The religious statistics show that there are 155 Methodists; 121 Presbyterians; 119 Episcopalians; 90 Baptists; 13 Christians; 7 Disciples; 7 Lutherans; 5 Moravians; 5 Hebrews. Several other denominations are represented by smaller numbers. About sixty per cent of all the students are members of churches. It is interesting to note that out of the last graduating class of fifty, thirty seven were members of churches, or a percentage of seventy four.

Fifteen states are represented besides North Carolina. The county leading in numbers is Orange, with 38; Mecklenburg has 35; New Hanover 23; Forsyth 19; Buncombe 16; Guilford 18; Wayne 14; and Wake 11.

THE UNIVERSITY OF NORTH CAROLINA.

The University of North Carolina, whose representatives won the championship of the South in the athletic games of Saturday last on the Tulane campus, has grown steadily in numbers and influence for good

since its re-opening after the civil war. During the earlier half of the century the graduates of the University, or of what was then known as "Chapel Hill," took and maintained, wherever they went, high rank in law, in politics, in medicine, in theology and in the profession of arms, and by their character and culture made no mean contribution to the enrichment of the South and Southwest. Throughout the civil war, when 110,000 North Carolinians—the largest number in proportion to its population furnished by any Southern State—enlisted under the stars and bars, the doors of the honored institution were practically closed, and the University was all but stripped of the means and equipment necessary to carry on its work. During the reconstruction period Chapel Hill's history was not without a sombre coloring. Yet of recent years, and especially during the last decade, the University has so grown in power and popularity that it has won honorable rank among the universities of the South. Though the institution is not heavily endowed, its high standard of scholarship and the ideals of right thinking and right living it inculcates have attracted students in large numbers to its doors. The friends of education everywhere will be gratified to learn that the people of North Carolina have at length recognized the constantly increasing usefulness of their University, and that they have highly resolved that an institution which is the distinct glory of the State shall be liberally supported in the work it has thus far so nobly carried on.—*New Orleans Times-Democrat.*

**ABSTRACTS OF THESES PRESENTED IN JUNE, 1901, FOR THE
DEGREE OF DOCTOR OF PHILOSOPHY.**

The Cone of the Normals and an Allied Cone for Central Surfaces of the Second Degree. By Archibald Henderson, A.B. 1898, A.M. 1899.

There are certain surfaces in space which are studied most easily perhaps when expressed in cartesian co-ordinates— x , y , z . The general equation of the second degree in these three variables includes within itself a limited number of surfaces, specialized and defined by giving certain relations to the constants involved. These surfaces are of two classes: central surfaces, that is, surfaces possessing a centre and non-central surfaces, those not possessing a centre. The central surfaces are

three in number—the ellipsoid, and the hyperboloids of one and two sheets respectively.

From any point, in general, in space six normals may be dropped to any one of these three central surfaces. These six normals all lie upon a cone of the second degree having the aforesaid point as vertex. This cone meets the required surface in a gauche curve of the third degree. Moreover the centre of the surface as vertex and this gauche curve of the third order as directrix uniquely determines another cone of the second degree.

In this dissertation is derived in its most general form, applicable to each equation of a central surface of the second degree, and in terms of the differential coefficients, the equation of the cone of the normals for central surfaces expressed by the most general equation of the second degree. Two separate methods are employed in the derivation of this equation, the maxima and the minima method of the Differential Calculus and the method peculiar to Solid Analytic Geometry.

There is also derived in its most general form, also applicable to each equation of a central surface of the second degree and in terms of the differential coefficients, the equation of the cone, vertex at origin and directrix the gauche curve defined by the intersection of the cone of the normals and the surfaces expressed by the most general equation of the second degree.

In addition, several novel methods for the derivation of the cone of the normals for surfaces of the second degree expressed in their simplest form are inserted.

Some Molecular Changes Caused by a Rise in Temperature. By James Edward Mills, A.B.(Davidson) 1896; A.M.(Davidson) 1900.

The energy absorbed by a gas when its temperature is raised is traced as far as possible in detail. Since it has been found that the gas laws apply to dissolved substances, it would follow that the energy absorbed by a liquid when its temperature is raised may to some extent be traced in the same way as was done for gases. Hence the energy of a liquid molecule being the same as the energy of a gaseous molecule the latent heat of vaporization must be expended in overcoming external pressure and the attraction between the molecules.

Assuming that this molecular attraction varies inversely as the square of the distance apart of the molecules, then the following relation should hold:

The cube roots of the density of the liquid minus the cube roots of the density of the gas at any two temperatures should bear to each other the same ratio as the latent heats less the energy expended in overcoming atmospheric pressure at the same temperature. The formula was tested with the following results:

Gas	Temperature	Ratio of densities	Ratio of Latent heats
CO ₂	} -25° to 0° C.	1.35	1.27
	} -25° to 22.04°	2.43	2.30
NO ₂	} -20° to 0°	1.22	1.10
	} -20° to 20°	1.71	1.51
SO ₂	} 0° to 30°	1.11	1.14
	} 0° to 65°	1.29	1.37
H ₂ O	} 0° to 100°	1.09	1.16
	} 0° to 200°	1.29	1.38

Eight measurements enter into each calculation and the agreement is perhaps as close as could be expected. In the case of carbon dioxide, nitrous oxide and sulphur dioxide, H. Crompton uses the same data to calculate the latent heat by an altogether different theory and it is shown that he obtained variations from the observed value in correspondence with the variations obtained above.

From the above theory we can obtain the relative measure of the molecular attractions. It was shown that, assuming the same law of attraction, we can obtain an approximate measure of the relative attractions in terms of the critical temperature, the critical density, and the molecular weight of the substance. If the ratio of the molecular attraction obtained in the two cases is a constant, then the assumed law of attraction must hold. The ratio of the attractions thus calculated for the four gases given above are 101, 100, 102, 115, an agreement that can hardly be accidental.

Other phases and results deduced from and bearing upon the above theory are discussed.

The conclusion was drawn theoretically that one third of the absolute temperature of the melting point of a substance multiplied by the specific heat of the liquid should equal the latent heat of liquefaction. Afterwards on looking up data to test this conclusion it was found that J.

W. Richards in 1893 had observed the fact while working on the specific heat of metals and had formulated the relation as an empirical observation, without attempting its explanation.

THE GRADUATES OF 1901.

Of the fifty-seven men who received degrees at the last Commencement, twenty-eight are now engaged in teaching. Seven of these are instructors or assistants at the University, the others in various schools of North Carolina, except four or five who are teaching in Virginia, South Carolina and Texas. One, a Master of Arts, is already a professor at Henry College, Texas. Many of these will, as usual, continue in educational work; others will, after a time, become ministers (five are known to be candidates for the ministry), lawyers, physicians, business men, manufacturers, etc. But it is worthy of note that this, like every other class sent out from the University, is helping earnestly in the cause of education.

Seven of the graduates are pursuing further studies, non-professional, in order to be more thoroughly fitted for their work in life. And only one of them has found it advisable to go to another institution for this advanced work.

Six are studying medicine; and the same number, law. Here, again, their own University is able to furnish as good advantages as are to be had elsewhere.

Four are engaged in engineering, electrical and civil, and in manufacturing.

Three are already practising lawyers; one is already a minister in charge of a congregation, and another will soon be.

One is in the insurance business. Every man of the fifty seven is at work. It is not easy to calculate the good that these men, trained in mind and character, will do for North Carolina. Their Alma Mater wishes them all success, and believes that each of them will be able to say, as her distinguished son, Zebulon B. Vance, said:

The thing that has been of most benefit to me all my life, is the fact that I was a student at the University of North Carolina.

AMONG THE ALUMNI.

Eugene M. Armfield, A.B. '88, always thoughtful of his Alma Mater's welfare, has endowed a scholarship in the University.

Darius Eatman, A.B. '97, has been awarded a five hundred dollar scholarship at Columbia University. He has been teaching in the Bingham School at Asheville since his graduation.

E. L. Neville, Ph.B. 1900, has resigned his position at Saxapahaw to accept the position of principal of the High School at Monroe, Louisiana.

Miss Marcia Latham, B.S. 1900, is an instructor in the San Antonio (Texas) Female College.

John M. Beall, '87, is the general agent of the Southern Railway for the Pacific States, with headquarters at the Palace Hotel, San Francisco.

O. D. Batchelor, Mangum medalist, '88, has recently located for the practice of law at Newport News, Va.

Dr. E. T. Bynum, '87-'88, who served as Adjunct Professor of History and Political Science in 1897, has been elected Professor of Modern Languages in Alleghany College, Pa.

Charles E. Maddry, a student of the class of '02, is Superintendent of Public Instruction for Orange county.

J. K. Stockard, '79-'80, is a regimental surgeon, on duty with the army in the Philippines.

Gideon J. Van Pool, Med. '98, has recently been appointed assistant regimental surgeon in the U. S. Army.

Among the younger Alumni, who are now officers in the U. S. Army, are: E. L. Gilmer, '86, George P. Howell and R. P. Johnston, '91, B. T. Simmons, '92, Frank Cooke, '95, W. P. Wooten, '96, O. H. Dockery, Jr., Law '93, and Edward Hill, Law, '92.

The late Major Matt Ransom Peterson, U. S. A., was a member of the class of '87.

J. T. Pugh, A.B. '93, and LL.B. Harvard 1900, has joined the well-known law firm of Boston, Messrs. Elder, Wait and Whitman.

Dr. Thomas R. Little has been appointed superintendent of the James Walker Memorial Hospital at Wilmington. He was recently resident physician at the Presbyterian Hospital in Philadelphia.

Messrs. Alexander, Currie, Foushee, Henderson, James, London, Scott, Speight, Ward, Warren and Webb, of the present State Senate, are alumni of the University; and Messrs. Allen of Columbus, Benbow, Bradsher, Carr, Craig, Duls, Gattis, Graham, Hoey, Hayes, Lawrence, Mann, Green, Patterson, Nichols, McKethan, Parker, Wilson, Shannohouse, Robinson of Guilford, Stubbs, Seawell, Welch, Harris of Northampton, and Winston, of the House of Representatives, are alumni of the University.

Rev. A. L. Phillips, A.B. '80, has accepted the position of General Superintendent of Sunday School work, and of Young People's Church work, in the Southern Presbyterian Church. His headquarters will be at Richmond, Va.

George Stephens, Ph.B. '96, is Vice President of the Southern States Trust Company, of Charlotte.

Hon. Samuel M. Gattis, Ph.B. '84, has been elected Attorney for the N. C. Railroad.

Eugene P. Withers, Ph.B. '88, is one of the leading members of the Virginia Constitutional Convention, which began its session in Richmond in July. It was largely due to the efforts of Mr. Withers that it was decided to hold the Convention.

Lieutenant George P. Howell, '99, has been promoted to a captaincy. He is stationed at St. Louis, Mo.

A. H. Price, '95, has recently been appointed Assistant U. S. District Attorney for the Western District of North Carolina.

Col. R. B. Creecy, A.B. 1835, is about to publish, through Edwards & Broughton, of Raleigh, "A Grandfather's Tales of North Carolina History." Captain S. A. Ashe writes in the *News and Observer* of the author and the book: "Colonel Creecy is now over eighty-six years of age, and he rounds up his lengthened life of usefulness by collecting for the benefit of posterity his recollections of men and events covering nearly three quarters of a century. Such a work necessarily has much historic value."

Captain James P. Coffin, A.B. '59, is cashier of the People's Savings Bank at Batesville, Ark. In the June number of *The University Magazine* he gave an interesting account of the occupation of Chapel Hill by Wheeler's cavalry at the close of the Civil War. It was at his suggestion that a body of troops was sent on from Morrisville to protect the property of the University.

The Outlook for August 3rd contained an article by Dr. Alderman on "Education in the South," which was read with special interest by his old students and colleagues. It sets forth clearly and ably "what has been done, and what needs to be done, in order to build up in the southern portion of our Union an educational system adequate to the needs of an industrial democracy fretted by a stupendous racial question." The picture of Dr. Alderman, printed with the article, is a very pleasing likeness of him.

At the meeting of the Commissioners of Agriculture of the Southern States, held at Hot Springs, Ark., Oct. 9th, Hon. Samuel L. Patterson, '68, was elected President for the coming year.

Richard S. Busbee, A.B. '98, has been promoted to the position of stamping clerk in the Charlotte office of the Southeastern Tariff Association.

A resident of Cambridge writes to *The Record*:

"The University of North Carolina has scored another success at Harvard. Mr. Peter Harden Eley, (1900 U. N. C., 1901 Harvard) won the championship for debating at Harvard last spring. First, in the annual debate between Juniors and Seniors he won the Surbridge silver cup; second, in the final debate for the inter-class championship between Seniors and Freshmen he won the \$250 gold Pasteur medal. He is from Williston, Tenn., but of N. C. stock, related by his mother's side to the Holt family.

The University students have all done well at Harvard, taking a stand creditable to themselves and honorable to North Carolina and to her University. Not one has lowered her standard for modesty, sobriety, diligence, and ability. That they have maintained this record successfully since, the following list will show. It has been compiled with care and is believed to be correct.

Battle, Wm. J., U. N. C. 1888, Harvard '92-'95—Prof. of Greek, Univ. of Texas.

Carr, Ed. P., U. N. C. 1896. Har. 1897-1900—Assistant in Philosophy, Harvard.

Currie, Geo. H., U. N. C. 1891, Har. '94-'96—Lawyer, State Senator.

Gatling, B. M., U. N. C. 1892, Har. '94-'95—Lawyer, Raleigh.

Horne, H. H., U. N. C. 1895, Har. '96-'99—Ass't Prof. of Philosophy, Dartmouth.

Lewis, J. Vol., U. N. C. 1891, Har. '92-'93—Prof. of Geology and Mineralogy, Clemson.

Long, Aug., U. N. C. 1885, Har. '91-'92—Prof. of English, Lawrenceville, N. J.

Love, J. L., U. N. C. 1884, Har. '89-'90—Professor of Math., Harvard, and Sec'y of Lawrence Scientific School.

Patterson, A. H., U. N. C. 1891, Har. '92-'93—Prof. of Physics, Univ. of Ga.

Pugh, J. T., U. N. C. 1893, Har. '96-1900—Bus. Manager of *Harvard Law Review*, Lawyer. Boston.

Shaw, H. B., U. N. C. 1891, Har. '94-'96—Prof. Electr. Eng., Univ. of Mo.

White, C. H., U. N. C. 1894, Har. '97-'98—Assistant, Harvard.

Williams, H. H., U. N. C. 1882, Har. '90-'92—Prof. of Philosophy, Univ. of N. C.

Wills, Geo. A., U. N. C. 1889, Har. '96-'98—Prof. of English, Mooney School, Franklin, Tenn."

MARRIAGES OF ALUMNI.

At Winston-Salem, August 21, 1901, by the Right Reverend Edward Rondthaler, Mr. J. Kenneth Pfohl, A.B. '98, and Miss Bessie Whittington.

At Roanoke, Va., Sept. 3, 1901, by Rev. J. L. Kibler, Dr. Joseph A. Morris, A.B. '87, and Miss Lizzie R. Martin, formerly of Chapel Hill.

At Arcola, Warren county, Oct. 16, 1901. St. Leon Scull, B. S. '85, and Miss Beaufort Davis.

At Chapel Hill, August 1, by Reverend N. M. Watson, Mr. J. E. Avent, A.B. 1901, and Miss Rosa S. Utley.

At Wilson, August 29, Dr. Herman H. Horne, A.B. 1895, and Miss Alice Elizabeth Herbert Worthington.

At Cleburne, Texas, July 30, 1901, Mr. Alexander Caswell Ellis, A.B. 1895, and Miss Mary Heard.

NOTES.

President Venable represented the University at the Yale bi-centennial celebration, Oct. 20-23.

On the 30th of October, Dr. Kemp P. Battle made the address in presentation to the State of the portrait of Captain Otway Burns, of the privateer Snap Dragon. Governor Aycock, of the class of '79, accepted the portrait in behalf of the State; and Judge Walter Clark, of the class of '64, presided at the exercises.

Mr. George M. McKie was appointed in September a member of the Honorary Committee for the Celebration in the United States of the Millennial of King Alfred the Great.

The system of graduate honors (*cum laude*, *magna cum laude*, *summa cum laude*) has been abolished. It had been intended that the regulation should go into effect during the year 1902-'03; but, at the request of the class of 1902, it will go into effect this year.

Of the forty-seven applicants for license to practise law, examined by the Supreme Court Sept. 30th, twenty-eight passed. Fifteen of these twenty-eight received their legal training in the Law School of the University.

Mr. John S. Pierson, of New York, has recently given to the University Library about fifty volumes on exploration and missionary work, chiefly in Africa and Asia. The collection is of much interest and value.

Dr. H. V. Wilson has recently published:

Marine Biology at Beaufort. American Naturalist, Vol. XXXIV, No. 401.

Notes on a Species of Pelomyxa. American Naturalist, Vol. XXXIV, No. 403.

Formation of the Blastopore in the Frog Egg. Anatomischer Anzeiger X VIII Band, Nos. 9 and 10.

The American Chemical Journal, for June, 1901, contains an article by Dr. A. S. Wheeler (in conjunction with Dr. H. B. Hill) *On the Reduction of Dehydromucic Acid.*

At the Denver meeting of the American Chemical Society and American Association for the Advancement of Science, Dr. Chas. Baskerville presented the following papers;

On the Existence of a New Element Associated with Thorium.

Some Hydrochlorated Sulphates, with I. F. Harris and Lionel Weil. These will appear in the *Journal of the American Chemical Society*.

Final Report of the Census Committee. Dr. Baskerville is Chairman of the Committee from the Council. This report will appear in detail in the Memorial Volume of the 25th anniversary of the founding of the American Chemical Society.

In *Science*, Aug. 2, 1901 appeared *A Basis of Scientific Thought* by Dr. Baskerville. He has been invited to lecture before the Chemists' Club in New York at some time during the winter.

Dr. Archibald Henderson, while in attendance at the Summer Quarter of the University of Chicago, addressed the mathematical club of that university. His paper was on the "Construction of the Circles Tangent to Three Given Circles." This celebrated problem of "Tactions," so called, has come down from the time of Apollonius of Perga (200 A. D.) who wrote a monograph "De Tactionibus," which unfortunately was lost. Gergonne gave an analytical proof in 1806, found in substance in Clebsch's "Vorlesungen uber Geometrie."

Dr. Henderson presented a purely geometrical proof, employing the principles of harmonic points, of the complete quadrilateral, of Desargue's Theorem of perspective triangles, of "Reciprocal Radii" and of poles and polars. He based his proof upon the methods of the modern "Geometrie der Lage" of Von Staudt, Reye, and Cremona.

Football prospects were not bright at the opening of the term. In the last ten days, however, the team has greatly improved, and the outlook is more hopeful. The games scheduled, and scores of those already played, are:

Oct. 12th, Oak Ridge, at Chapel Hill. The score was, University 28
Oak Ridge 0.

Oct. 16th, N. C. Agricultural and Mechanical College, at Chapel Hill.
Score, University 39, A. and M. 0.

Oct. 19th, Guilford, at Chapel Hill. Score, University 42, Guilford 0.

Oct. 26th, Davidson, at Charlotte. Score, University 6, Davidson 0.

Nov. 2nd, University of Georgia, at Atlanta. Score, University 27,
Georgia 0.

Nov. 4th, Auburn Polytechnic of Ala., at Auburn. Score, University
15, Auburn 0.

Nov. 16th, A. & M., at Raleigh.

Nov. 26th, University of Virginia, at Norfolk.

Nov. 28th, (Thanksgiving Day), Clemson, at Charlotte.

A CORRECTION.

The Necrology editor is glad to say that Colonel John M. Gallaway, reported a few months ago as dead, is alive and hearty. Another of the name, not a University man, died and the editor was informed that he was our good old friend.

NECROLOGY.

ARRINGTON, RICHARD TURNER, Warrenton. A.B., 1853. Commission
merchant, Petersburg, Va. Born 1832, died October 3, 1901.

AYCOCK, CHARLES BRANTLEY, JR., Goldsboro. Student 1899-1900.
Born December 28, 1883, died August 11, 1901.

BLOUNT, WILLIAM AUGUSTUS, Beaufort Co. A.B. 1844. Major C. S.
A Planter. Born October 6, 1823, died June 30, 1901.

CURRIE, JOHN DUNCAN, Bladen Co. A.B., 1861. Lieutenant C. S. A.
Member of General Assembly. Trustee of U. N. C. Merchant
at Clarkton. Born 1834, died July 16, 1901.

EURE, MILLS ROBERTS, Norfolk, Va. A.B., 1889. Lawyer. Member
of General Assembly from Gates Co. Vice-Consul at Victoria,
B. C. Born October 16, 1868, died at Greenville, N. C., Sept-
ember 17, 1901

- HYMAN, JOSEPH HENRY, Tarboro. A.B., 1855. Colonel C. S. A. Lawyer. Planter at Hendersonville, Texas. Died June, 1901.
- MACRAE, WILLIAM PLUMMER, Petersburg, Va. Student 1880-'81. A.B., University of Va. Teacher. Lawyer. Member of General Assembly of Va. Died July 26, 1901.
- MURPHY, WILLIAM, Spartanburg, S. C. Student 1850-'51. Episcopal minister in Eastern North Carolina and Maryland. Died in Maryland, August 29, 1901.
- NEWLIN, OLIVER STOCKARD, Saxapahaw. LL.B., 1898. Died July 14, 1901.
- RENCHER, WILLIAM CONWAY, Santa Fe, New Mexico. A.B., 1866, A.M., 1881. Lawyer. Journalist. Pittsboro, N. C. Died August 22, 1901.
- SAUNDERS, ELIJAH BEATTIE, Lilesville, Anson Co. Student 1883-'85. Merchant. Hotel-keeper, Rockingham, N. C. Born August 13, 1859, died August 12, 1901.
- THOMPSON, HENRY CLAY, Chapel Hill. A.B., 1857. Teacher. Farmer. Chief Clerk in United States Revenue Service. Born 1835, died October 5, 1901.
- WHITAKER, SPIER, Davenport, Iowa. A.B., 1861. Adjutant C. S. A. Lawyer. State Senator from Halifax Co., N. C. Chairman Democratic State Convention, 1888. Judge of Superior Court. Colonel in Spanish war. Born March 15, 1841, died at Raleigh, July 10, 1901.