

News of the Day

It has been announced that the new nickel will have Thomas Jefferson's likeness in place of the well-known buffalo. On the opposite side will be seen the reproduction of Jefferson's home. The motto, "In God we trust," will be on one side and the usual lettering on the other side.

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A laboratory in Vienna, Austria, has made a type of glass that can be bent or rolled up like a piece of cardboard.

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A new variety of glass has been produced by French manufacturers. It is so tough that it can be nailed to the wall, drilled, or sawed without danger of fracture.

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A glass hotel in Lancaster, England, demonstrates the possibilities of this material as a construction base. The external walls and interiors of public rooms—even the floors and furniture—are of glass of varied colors.

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Invisible glasses—small lenses that slip under the eyelids—are something new. They are suggested for the benefit of those to whom regulation spectacles are undesirable.

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The discovery of a vegetable 2,000 times as sweet as sugar was recently reported at a science convention at St. Louis.

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It has been announced that a Chicago hospital may follow the Russian example of draining blood from persons killed accidentally to be stored and used for transfusions. Such blood remains useful for from three to four weeks.

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England has recently developed an anti-aircraft gun capable of hurling shells four miles high.

Scientific studies of criminals show that a desire for expensive clothes makes reform difficult.

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In a recent exhibit at the Boston University School of Theology was a device for an automobile that flashes a white light on the dashboard when the car is going fifteen miles per hour, flashes a green light at twenty-five, a red light at forty, and plays "Nearer My God to Thee" on a music box, at sixty miles an hour.

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Antares has dropped to second place among stellar dignitaries as a result of Dr. Otto Struve's discovery at Yerke's observatory of a new star measuring four million miles through the center. It is so large that if its center were placed at the hub of our solar system it would engulf all of the planets up to the last and most remote pair, Neptune and Pluto.

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A Johns Hopkins professor, R. W. Wood, has reported the discovery of a new explosive so sensitive it can be set off by a fly lighting on it.

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Rat's milk has been found to be much richer in fat and protein content than cow's milk.

ENGLISH CLASS EDITS CRIER

Social Committee Sponsors Varied Entertainment

Herbert Hewitt Master of Ceremonies

Ivan Teel conducts singing

The social committee presented two hours of delightful entertainment Thursday evening, February 3. The program, impromptu style, consisted of songs, readings, and instrumental numbers.

A lively community sing conducted by Ivan Teel started the evening off with manifest enthusiasm. Herbert Hewitt, as master of ceremonies, introduced the various entertainers in their turn. A few old familiar songs that were sung by everyone at the close, climaxed by "Good Night Ladies" ended the season of fun.

Vocal solos were given by Frances Woo, Betty Province, Frances Harris, William Ludwig and Roland Stephens. Ivan Teel whistled the beautiful strains of "In the Garden

(Continued on page 4, col. 3)

Putnam Conducts Combustion Test

Mr. W. Putnam, an engineer of the Tennessee Electric Power Company, recently conducted a combustion test on one of the boilers at Central Heat. According to this test, the boilers at the plant are being fired efficiently—considering the age and condition of the boilers. The average flue gas analysis was: Carbon dioxide 9.9%, Oxygen 7.5%. One pound of coal burning under the boilers will convert almost seven pounds of water to steam at an average temperature of 329 degrees.

The boiler on which this test was run is Number Three, one of the two Erie City Horizontal Return Tubular boilers which were installed in a battery during the summer of 1936. Previous to the test, the boilers had been cleaned and overhauled.

Dr. Clark Addresses Student Body

"Syphilis is a disease, not a disgrace." So ran the theme of an address given by Dr. Clark, former director of syphilis education for the State of Tennessee, before 350 students, faculty members, and friends at chapel on the evening of February 2, Wednesday.

Aided by slides and a talking machine, Dr. Clark explained to the audience the need of educating the general public to the fact that syphilis is killing more people annually than either tuberculosis or typhoid fever.

After the lecture and slides by Dr. Clark, Dr. Thorpe told the audience that Davidson County is putting on a campaign to stamp out venereal diseases in all its localities and to put before the public the true facts concerning these diseases. Davidson County is the only county in the United States which has a health officer whose time is devoted exclusively to venereal diseases.



Sallie V. Sutherland

Class Dedicates Issue to Dean S. V. Sutherland

Widely Experienced in Many Schools

The wide and varied experience of Mrs. Sallie V. Sutherland as teacher and missionary worker since she and Dr. Sutherland first took charge of the Old Mission School at Minneapolis, Minnesota, has led her to many responsible positions.

Miss Sallie Bralliar was born near Richmond, Iowa, on a 160-acre farm. As a child she was very frail. In all her girlhood days everyone thought she would never live. Miraculously due to the good grace of health reform, she now owes her radiant health. At the age of ten she went to Knoxville, Iowa, to live with an older sister for two or three years. Here at Knoxville, she continued her schooling, going home during the summer vacation months. Later she moved to Eldon, Iowa, where she was graduated from the twelfth grade. From here she went to Battle Creek College and finished what is now known as a junior college course. Soon after being graduated she married E. A. Sutherland and immediately they took charge of the Old

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Record Crowd Enjoys "Grass"

Norman Allen's "Bombing of Panay" Co-featured in Senior Presentation

On Thursday night, January 27, the senior class of Madison College presented some interesting and instructive moving pictures. There were three short reels and one four-reel picture.

The short reels were "The Graf Zeppelin Around the World," "The Sinking of the Panay," and "Navy Sharks."

Following these short films was the main picture, "Grass." This picture was a portrayal of the life of a people who live in Arabia. The hardships these people undergo make the little things we call trials seem nothing.

The senior class is giving one movie a month. If the rest of them are as good as the first one, they will be something to look forward to in the months that are to come.

E. M. Bisalski Tours Southern States

Vitality Foods Displayed

After many days and nights of intensive work, Mr. E. M. Bisalski, general manager of Madison Foods, started for the Florida territory on Tuesday, January 25. He drove down to Birmingham, thence to Atlanta, where he spoke to The Vitality Health Food Club, and made a demonstration of several Madison soybean foods. His effort was well rewarded by the lively interest shown by the business men and others attending the meeting.

He then drove to Orlando, Florida, with Albert West, the young man who is to learn the sales work. He plans to go to Miami to make demonstrations in several stores there. He will feature Soy-Koff, Krema O'Soy Crisps, and Krema O'Soy Milk.

Mr. Bisalski expects an enthusiastic response largely due to the fact that he has a new window display featuring all three foods. These attractive displays are being made up by Mr. George Simonds, the artist who has recently joined the Madison Foods organization.

Miss Bessie McCorkle, Mr. Bisalski's secretary, revealed the plans for his trip as follows: "He will spend ten days in Miami demonstrating Madison Foods, and then supervising a Soyburger sandwich stand at the Central Florida Exposition in Orlando from February 14-19.

"The Pennsylvania Railroad 'Roof to Rail' Soybean Exhibit Car will also be stationed at the exhibition for the entire time. Madison Foods are in this car, and we expect a far-reaching interest as a result of thus concentrating the attention of all Orlando and its visitors on the healthful soybean."

Christman Chosen Editor-in-Chief for Rhetoric Edition

English Classes Combine to Publish Issue

The Freshman Composition and Rhetoric class of Madison College, under the leadership of Mrs. S. V. Sutherland and Mr. L. J. Larson, has published this issue of the PEPTIMIST CRIER.

Each of the three sections of the Composition class has shared equal responsibility in the preparation of material for the paper. The members of each section elected as editor, Donald Christman, and two associate editors, Roy Bowes and Alexander Watson, from their respective groups. From the material submitted by the class, these officers have endeavored to select well-written, informative articles which would uphold the standards of our paper.

It is certain that without the direction, suggestions, and helpful criticisms which the class received from its faithful and talented instructors, the results would have been far inferior to the paper which now claims your attention. Both Mrs. Sutherland and Mr. Larson have cooperated untiringly with their students to make this publication profitable to the contributors and pleasure to the readers.

How well the class has succeeded in its attempt, will be left to the judgment of the readers. It was felt that such an undertaking would offer an outlet for some of the work being done by the Composition class, and would also motivate the students to do more and better quality writing.

Agricultural Dept. Boasts Fine Dairy

Each month 4000 gallons of milk and 150 gallons of cream are supplied by the college dairy to both Madison College and the Madison Sanitarium. The dairy, which also has an up-to-date delivery service, consists of a registered herd of 68 cows and two bulls.

The milk barn is a modern, well-ventilated building. The milk room, where the milk cans and other equipment is kept, is located about 50 feet from the barn. A covered runway with a cement walk leads from the barn to the milk room.

From the barn the milk is taken into the milk room where it is both pasteurized and homogenized.

The milk tester who comes once each month not only tests each cow's milk for the percentage of butterfat, but also keeps a record of each cow's production, and makes out a feed list for her according to this production.

In addition to the monthly visits of the milk tester, a health officer also comes at intervals to examine the dairy.

The college dairy serves about 50 homes daily besides supplying the college and the sanitarium.

CALENDAR

February 11, 1938

5:15 P. M. Vespers—Laymens Extension League

February 12, 1938

11:00 A. M. Church Speaker, Dr. E. A. Sutherland

February 17, 1938

7:30 P. M. Entertainment: Faculty Talent

February 18, 1938

5:20 P. M. Vespers

February 19, 1938

11:00 A. M. Church

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Editor-in-chief.....JOSEPH H. BISCHOFF

Business manager.....FRANK E. JUDSON

STAFF FOR THIS ISSUE

Editor-in-chief.....DONALD R. CHRISTMAN

Business manager.....LESTER FAY LITTELL

Associate editor.....ROY BOWES Associate editor.....ALEXANDER WATSON
Campus editor.....VIRGINIA MILLER Literary editor.....IONA LARSON
Nursing editor.....GLEN BARTELL Religious editor.....STELLA PAJAKOWSKI
News editor.....NED ZACHARIAS Feature editor.....HENRY WHITHAM
Editorial Adviser.....LEWIS LARSON

Proofreaders.....EVA RUTH MARLEY

EUNICE DEVORE

Stenographers.....IVA FLEMING

HUGH STINCHFIELD

Did You Know—

That all of Mrs. E. G. White's books and manuscripts have been moved from her estate at St. Helena, California, and will eventually be placed in the new Theological Seminary?

That enough products can be made from the soybean, alone, to fill a table fifteen feet long and five feet wide?

That accidental deaths cost the nation 106,000 lives in 1937, including an annual all-time high of 39,700 in the traffic field? The total bill for this carelessness is estimated to be \$3,700,000.

That one hundred and seventy automobiles are stolen in the United States each day?

That fish and other aquatic creatures do not drink water?

That the first bathtub in the United States was called a menace to health by doctors?

That the rat population in this country is about the same as the human population?

That kissing is taboo in Tibet? (Perhaps that is best because few Tibetans wash from the day they are born to the day they die.)

That there are more pyramids in Mexico than in Egypt?

That the estimated expenses of maintaining the Dionne quintuplets is \$1,000 a month?

That from his first shave to his last the average man shaves over twenty square miles of face?

That women write more than 40,000,000 letters a year to American newspapers inquiring about rules of etiquette, beauty aids, the care of babies and affairs of the heart?

That France claims she has no mosquitoes?

That the average freight train in the United States is forty-six cars long?

That the most congested residential section in the whole world is in the Harlem section of Manhattan Island, near East River? In one city block here there are living, at present, 2,700 persons.

That the smallest lens in some nine-lens microscopes, a perfect hemisphere; is so tiny that not long ago one was carried away from a manufacturer's bench by an ordinary house fly?

That two hundred thirteen religious sects are officially recognized in the United States, according to the latest count of the Bureau of Religious Statistics?

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The Mail Box

Dear Editor:

The subject of swimming is not as enthusiastically greeted during these freezing months, as in the scorching days of summer.

To enjoy the privileges of a campus swimming pool in summer, now is an opportune time to roll up the sleeves and do more than talk, for faith without works would fail to materialize the pool.

The "ole swimmin' hole" at the river surely sounds good, but what of its dangers? Also there is the dread that one must thumb his way swimming, unless provided with a car.

With a "campus pool," there is something to look forward to. Also it would be an inducement for students to come to Madison, for not many of our schools provide a swimming pool where young folks can enjoy the great out-of-doors.

Since there are many reasons we should have a swimming pool, let us, as a student body, help Charles Derby boost this good project.

An Interested Student

From the Library

According to the records of the librarian, 1915 students and teachers used the library last week, and the total circulation of books for the week amounted to 900.

The 80 new books, which have come in since January, cover a wide variety of subjects ranging from the history of lace to Oriental literature.

"The Quest for Literature" by J. T. Shipley, Ph.D., is a survey of literary criticism and theories of the literary forms, while "Oriental Literature" is a translation from the original Persian by David Shea and Anthony Frazer. Other books in the field of literature include "Hebraic Literature," a translation, by M. H. Harris, "A Literary History of the American People," and an "Anthology of Classic Christian Literature."

New biographies are "Genghis Khan," by Ralph Fox, "George Washington Himself," by Fritzpatrick, and "Lincoln, Emancipator of the Nation," by Hill.

One of the most interesting books in the field of art is Moore's book on lace. The volume gives the history and description of many kinds of old lace, and profuse illustrations lend an added charm to something that has always carried romance.

A bust of John Milton, author of "Paradise Lost," the "Areopagitica," the "Sonnet on His Blindness," and many other popular and well-loved pieces of literature, has been

presented to the Druillard Library by Miss Florence Hartsock, college registrar and associate English instructor.

Have You Read?

The Great Good Man by William E. Barton

The story of the life of Abraham Lincoln is given with clearness and detail, intermixed with the humor and fun of his life. The happenings at the White House are written in a very interesting manner, giving quotations from some of his private letters and documents, thus giving the reader good information as well as enjoyment from the book.

As a boy the most important service to his family that Abe could do was to ride the horse to mill. While the boys waited for their turn they played marbles, and Abraham never lost his liking for the game. Many more interesting incidents are told about the life of Lincoln, such as some of the events surrounding his babyhood and those concerning his days at the White House.

Abraham Lincoln was a great good man as the title implies. He was godly and true. In everything he did, he did it to the best of his ability. He was a man of keen insight and a deep thinker. Spinning yarns was a great hobby of his, one which he inherited from his father. He was always kind and considerate of others, a perfect gentleman.

Lincoln

He was rugged, courageous, and honest;

He stood for America's best.

He courted the world's crucial findings,

Nor was wanting, whatever the test.

His birthplace Kentucky's rude cabin;

His school-house the great chimney corner;

His playthings the ax and the maul.

For outings, he went down the river

With a flatboat on many a trip.

It was there his great heart learned

to pity

The slave 'neath the task-master's whip.

He was postmaster, merchant, surveyor;

He was student of Blackstone and Kent,

And his voice in the court and on platform,

Was for freedom wherever he went.

Thus he lived on the Illinois prairie,

Till his fame reached the bounds of his state,

And the people demanded his service

In a place only filled by the great.

With his pen he gave freedom to millions,

While his heart bore, of grief, full its share.

In a moment his life's work was ended;

But the Union was saved ere he died.

—Selected

Men's Senate

After the opening exercises of Men's Senate February 1, all present were pleased to see four young ladies take places on the platform.

Patricia Sullivan introduced Bessie Schultze who told of her "ideal young man." Audrey Hill sang a ballad depicting the undesirable type of husband. Miss Sullivan read a poem entitled, "A Woman's Choice."

To conclude the program Miss Hill sang "Try a Little Tenderness," accompanied by Miss Kinnison on the accordion.

Nursing Notes

The following report comes from the hospital workers: "The sanitarium and hospital are full. There is a waiting list of applicants. Patients are coming from many states."

Mrs. Moore, the head nurse, is taking a much needed rest. Before her departure the Student Nurses Association, with Miss Elizabeth Cross acting as spokesman, presented her with a small gift, in an endeavor to express to her their appreciation of her work and help.

Hugh Stinchfield says, "A nurse must have the patience of Job, the endurance of an ox and the ability to smile at all times. The nurse must be a diplomat. In other words, he must learn how to get his patient to do, usually, just the opposite of what the patient wants to do. The nurse must be able to smile no matter how much the patient may annoy him."

The regular meeting of the Student Nurses Association was held Tuesday evening, February 1, in the sanitarium parlor. About twenty-five of the students in the nursing class were present. Mr. Faudi,

president of the body, was in charge and Dr. Johnson spoke to the group concerning the little known pituitary gland.

The freshman nurses wore their new uniforms for the first time January 15. The uniforms are solid blue with white aprons. After coming off duty the nurses take off their aprons and wear the blue dress with a white silk tie.

After completing two months of work in the surgical department, Quinto Miller, senior nurse, was transferred February 1 to the diet kitchen for a month of practice in dietetics.

Who Knows?

Eleven years ago this spring Colonel Lindbergh made his famous flight across the Atlantic. This act of bravery won for him the admiration of every true American.

Nineteen hundred years ago the Saviour of the world came from heaven to earth. By giving his life for a lost world he won the hearts of thousands, yes millions.

Great heroes of the past have always had a great vision and a great perseverance. It is not always the most talented who succeed. Undaunted courage with a grim determination is the secret of success.

The world's work is not yet finished. The challenging future lies ahead. There are still others to come forth who will exert a molding influence upon a crumbling civilization.

Student friends, it may be from our own college, hid away among the rolling hills of Tennessee, that some youth will yet stand forth as brilliant lights.

Personality

A happy personality must be rooted in goodness and generosity. "The things of the spirit" must come from within, otherwise you will fail.

Don't be afraid to be original and individual. Originality is one of the stepping stones to success.

Don't be a brag. If you come from a "best family" forget it. It isn't who your ancestors were but what kind of an ancestor you are getting ready to be that really counts.

The greatest people of all the ages did not come from "the best families" according to history.

Avoid sentimentality. Most people despise "sugary" slushy compliments.

To make friends get yourself interested in other people instead of trying to get people interested in you.

Don't be stubborn, even if you know you are right. Don't be mulish, be approachable, adaptable; be big enough to overlook differences and disagreements; eliminate conceit. No really great person ever thought he was better than other people.

Be an optimist if you want people to like you, and don't use your friends as a dumping ground for your woes.

The Value of Tact

The golden rule is the finest definition of tact in all literature.

Tact is just that common-sense thing of getting along with other people. It is the quality that makes men and women lovable. Tact means: the perception of the feelings of others and the kindest consideration for them. Some people are born with quick perception and innate kindness, but with most people tact is the result of training.

A tactful person keeps the social machinery running smoothly, while tactless people are forever "throwing a monkey-wrench into the machinery."

Tact makes a ready man. It is knowing how, when, and where to act and speak. It wins friendship without ostentation, and secures wealth without wrong. If you cannot work with other people and are constantly making enemies instead of friends the fault must be within yourself; you are lacking in tact.

Orison Sweet Marden said, "Some people show want of tact in resenting every slight or petty insult, however unworthy their notice. Others make Don Quixote's mistake of fighting a wind-mill by engaging in controversies with public speakers and editors, who are sure to have the advantage of the final word. One of the greatest elements of strength in the character of Washington was found in his forbearance when unjustly attacked or ridiculed."

Pioneer Days at Madison College

Druillard Library Latest Campus Addition

By Iva Fleming

Ten miles above Nashville the Cumberland River makes a curve known as "Neelly's Bend." A short distance from there was an old estate known as the Nelson property, which was part of the original grant to the Neelly family. It was at this location in the summer of 1904 that a company of teachers and students began a school to train workers for service among the mountain people.

The place did not have much to recommend it to the founders as they sat out upon the rocks, wondering if a school could ever be established here. The soil on the uplands, although rich, was shallow and had washed away, leaving only the bare rocks. In places there was baked clay. The buildings were run down, and in general the situation appeared hopeless.

In May of the year before, Dr. E. A. Sutherland and Dr. P. T. Magan had been searching for a location for a school. It was their intention to go back into the mountains and do local work. However, Mrs. E. G. White told them the work should be in a more prominent place and that it should be near Nashville, the center of interest in the South. The pioneers were urged by Mrs. White to have faith in God to supply their needs, and undoubtedly they have followed this counsel.

Dr. E. A. Sutherland, Dr. P. T. Magan, Miss M. Bessie DeGraw, and Mrs. N. H. Druillard had long labored together in school work, and now they were to continue in this new enterprise. During the summer eleven students from Emmanuel Missionary College joined them to fill places as instructors. E. E. Brink was the first of these.

Neither teachers nor students came for worldly advantage but for the sole purpose of doing God's work. This they did with all their might. Everyone was busy, and although some of their jobs may not have been exactly in their lines, they did them with a will. Dr. Magan did the plowing and Dr. Sutherland churned the butter. It was Miss DeGraw's job to drive to town in the cart to deliver the produce.

What was known as the "Old House" was the chief building on the place, but since the former ownership had not been released, the servant quarters in the carriage house above the stables had to serve as a place to live in. Later on the new students were put there. As it was really a test of character and endurance until they could be moved to better quarters, the students christened it "Probation Hall." This has now disappeared and its place taken by the new laundry.

It is interesting to note some of the old landmarks still to be seen, although many of them have disappeared. Most of the students are familiar with the drinking fountain which stands between Gotzian Home and the laundry. Formerly there was an old windmill on the same foundation which is to be seen at the present time. The water contained lime and sulphur, and students, so we are told, did not enjoy the taste of the water. New students probably did not get their quota of water until they had become accustomed to it.

Simplicity was outstanding. The plainest of food was served and was chiefly what could be raised on the

place. The rudest of furniture was used. They had tables of planks and dressers of boxes. Things such as steam heat and electricity just did not exist in those days.

Instead of having a few large buildings the cottage plan was adopted. This accounts for the Cabin Courts as we know them today. Whenever enough money was accumulated, another cottage was added with a small amount of expense. Gotzian Hall, Kinne Hall, and the sanitarium buildings were among the first structures on the campus.

The unique beginning of the sanitarium is a matter of great interest. There seemed to be no possibility just at that time to do much in the way of medical work. However, the foundation was laid. The first nurses' class of five girls, under the direction of Mrs. Druillard, was held in a room that was also used for sleeping. Water for treatments was heated in a pot in the fireplace. Dietetics, hydrotherapeutics, and psychotherapy were studied under unusual conditions—an accomplishment which would be an inspiration to all pioneer endeavors.

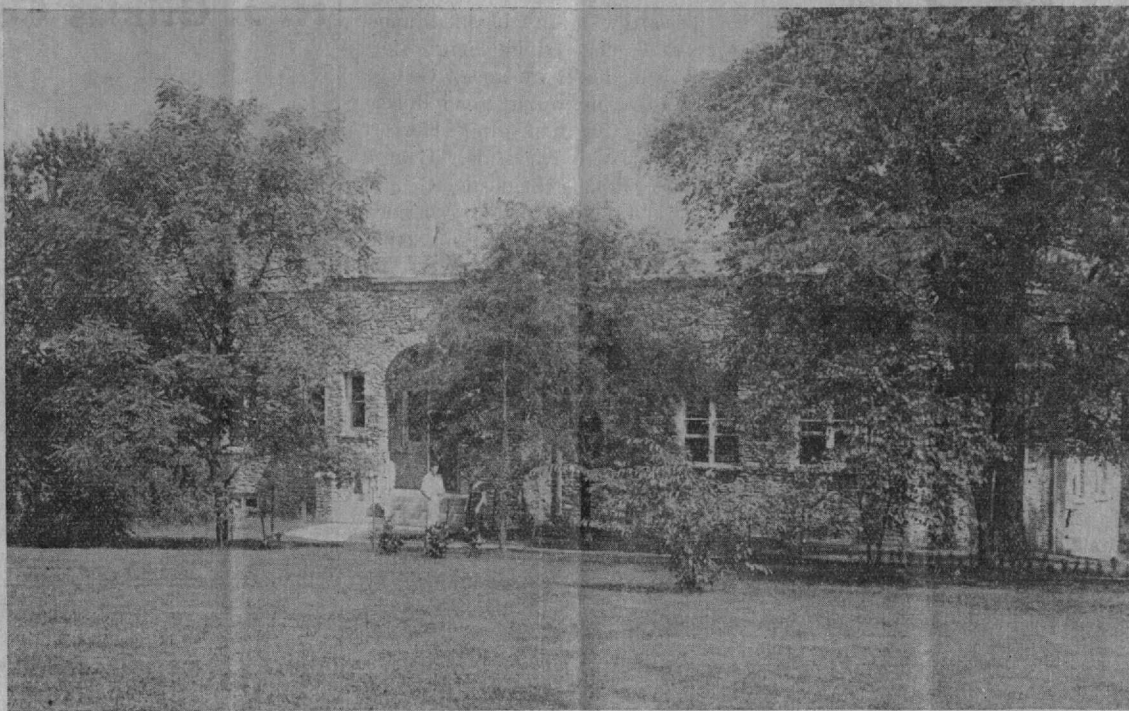
One day a man from Nashville came out, said he wanted a quiet place to rest and regain his health, and begged to be taken in. He offered to sleep on the porch and eat with the family if only he might be allowed to stay. It seemed as though he could not be turned away, so a corner of the porch was curtained off for him. After receiving a healthful diet, plenty of rest, fresh air, and sunshine, he was restored to health and returned to his work.

It seemed that God was giving instruction that medical work should be started—and so we have the birth of the Madison Rural Sanitarium and Hospital. The location was pointed out by Mrs. White and is practically the same spot on which the sanitarium buildings now stand.

Those who have recently come to Madison do not realize the changes that have taken place down through the years. It is hard to picture the grounds without such structures as the science building, the demonstration building, or the latest addition, the Druillard Library. What an asset this last is to our campus!

Many of the things that Madison

Our College Library



Built of native stone by student labor, Druillard Library stands as a memorial to the works and efforts of those who founded Madison College. Accepting the sacrifices which have been made, students now enjoy the privilege of studying in this new structure.

Dedication

(Concluded from page one)

Mission School at Minneapolis, Minnesota. While there, she not only taught, but acted as preceptress. Also she took classes in art and advanced German at the University of Minnesota. Next year they went to Battle Creek College, she as teacher of German and her husband as Bible teacher and preceptor of boys. Next year Walla Walla College opened with her husband as President and she as a teacher and in general charge of the women's work, personally attending to most of the matron's work. During the years Mrs. Sutherland was at Walla Walla, she taught art.

In the fall of 1896 Mrs. Sutherland and her husband went back to Battle Creek College, where he was President and she again taught German and art.

She and her husband were prime movers in discontinuing the use of meat on tables and Walla Walla College opened without serving meat on the tables, which policy it has held to this day. Although they met great opposition in this movement, finally Battle Creek and other schools discontinued the use of meat in diet.

Mrs. Sutherland as co-leader with her husband has led three great reforms in this denomination: *First*, a non-flesh diet; *second*, opening of church schools; *third*, movement of practical education from the cities out into the country. A fourth one which is now in progress is the union of sanitarium work with school work, under one management.

Mrs. Sutherland was one of the first teachers in cooking and Home Economics in any of our colleges. She conducted the vegetarian cafeteria in Nashville for five years.

students now enjoy were made possible through the gifts of benevolent people who were glad to aid youth in securing an education. One of these benefactors was Josephine Gotzian, who was a great friend of this institution.

It must be a great experience to see an institution grow from a crude beginning to a college of which the students and instructors have a right to be proud.

Did You Know—

(Concluded from page two)

That physicians tell us that the human heart pumps enough blood in one day to fill an ordinary railroad tank-car?

That you can break your neck now, and live? By means of a new bone-surgery technique, the lives of nineteen with broken necks have been saved in the past few months.

That the world's first comprehensive museum of surgery is to be located in New York City, under the name, "The Millicent R. Gearst Foundation?"

That the best medical care is now provided free to all citizens of the Irish Free State? The money is provided by the millions of pounds which come to the state through the Irish Sweepstakes.

That the country of Chile furnishes ninety per cent of the iodine used in the world?

That there will be a World's Fair in San Francisco in 1939, and also one in New York, the same year?

That banks are now using cellophane coin wrappers? This enables tellers to count the money inside without unwrapping the rolls.

That the longest period of solar eclipse lasted seven minutes?

That there are people who use old moving picture reels to extract silver from?

That the coldest planet is about one thousand degrees Centigrade?

That there are over eight thousand sorts of apples?

That altogether in one year New York made one hundred million pairs of shoes?

That human nerve impulses run about one hundred feet a second?

That a moth has about 27,000 eyes?

Seminar Election

In the special election held Friday evening, January 28, in the Student Evangelists Seminar, Fay Littell was appointed as leader, with Calvin Kinsman as his assistant.

The new officers met with Elder H. J. Welch and formulated plans for a progressive and interesting program to last through the middle of the summer quarter.

It is the object of the seminar to instruct and provide practice for students taking regular Bible classes and for those engaged in outside missionary activities.

Farm Yields Large Fruit Crop

Campus Limestone Used to Cover Top Soil

1800 bushels of pears, 1000 bushels of apples, and 12½ tons of grapes were grown on the two farms owned by Madison College at Ridge-top, Tennessee, and at Union Hill, Tennessee, and also here on the campus.

Of the 787 acres that the college owns here at Madison College, only 200 acres are in cultivation; the rest is in woodland and pasture land. This year the college reports a crop of 100 tons of soybeans and alfalfa hay. Of the seven varieties of soybeans grown, 90 bushels were threshed for table use.

The corn crop totaled 1600 bushels and consisted of eight different varieties of corn. The largest yield reported per acre was 66 bushels of Neal's Paymaster. The college also threshed 925 bushels of wheat and 700 bushels of barley.

This past season the farm seeded 14 acres to alfalfa, making a total of 20 acres in this type of hay. The land was top-dressed with two tons of crushed limestone to the acre. A total of 35 tons of lime—all obtained from the campus—was crushed, testing 93 per cent available.

A new team of 1500-pound mules was purchased this year, making a total of 11 mules and seven head of horses.

During the winter the young men who work on the farm, are occupied in making repairs, in barn instruction, and in preparing for the farm spring work. They have built 820 rods of new fence.

Vesper Service

At the vesper hour, Friday, January 28, Mr. Leland Straw presented the choir in the first of a series of monthly vesper concerts.

Mr. Straw has been endeavoring to use the various music talents, thus adding greatly to the religious services.

Stereopticon slides were used to illustrate some of the songs in which the congregation joined in singing.

Alain de Vore played "Meditation" from "Thais" by Massenet, as a violin solo.

High Pressure Sap

Ever since botanists knew that sap was carried from the roots of a tall tree to the leaves at its top they have wondered what force was responsible for this transportation. One theory held was that pressure in the roots acted as a pump from below. The trouble with this was that no pressures could be measured higher than 1.4 atmospheres, which would not do for trees taller than 46 feet. Lately accepted as the most satisfactory explanation is the Cohesion theory, in which it is supposed that suction created at the top by evaporation is transmitted through a Cohering column of water under tension all the way down to the roots.

Last week Dr. Philip Rodney White, of the Rockefeller Institute Princeton Laboratories, took a long stride toward solving the problem, and incidentally spilled much wind from the sails of the Cohesion theorists, by announcing that he had found enormous pressure in the roots of tomato plants—pressures high enough to serve tomato plants hundreds of feet tall. The trouble with previous pressure experiments, it appeared, was that they were made on dead or dying roots. At Princeton, Dr. White has an apparatus which keeps

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North East West South

Frank King, from Bozeman, Montana, one of the college's most recent students, assisted in extricating the bodies of the ten victims of the late air tragedy which occurred in Bridger Canyon near Bozeman.

Construction has begun on a road to connect a new group of cottages being built by Mrs. Lida F. Scott with the highway.

Mr. T. Irville Rush, a former student of Madison, now located at Red Boiling Springs, Tennessee, was on the campus Sunday, January 30.

Dr. and Mrs. Lew Wallace and their two boys, accompanied by Miss June Bender and Miss Charlotte Faye Stewart, spent the week-end in North Carolina.

Edythe Covington and Pauline Burke spent the week-end visiting friends at Collegedale.

Sarah Ann Goodge recently fell and broke her ankle. She is at present confined to her home with her leg in a cast.

Madison Squirrels

"Oh, look!" shouted a little boy as he clung to his mother's hand.

"See, what does that little squirrel have in his mouth?" The little boy was with a group of guests who were walking over the campus. Upon coming closer to the little grey bundle of fur they discovered that he held a corn stick firmly in his mouth. There he sat very calmly devouring his dinner that he had managed to swipe. Maybe it was from a patient's tray who didn't have such a good appetite.

The squirrels about the campus make the number of the school family total rather large. Everywhere you look you can see them hopping around in the trees, climbing on the sanitarium roof and even venturing inside if a door should happen to be left open.

The little squirrels are very gentle and will often eat from one's hand if he approaches them very quietly. But after investigating and not finding anything he will soon scamper away.

When the ground is covered with snow, as it often is in winter, the little squirrels, unlike other wild animals, suffer very little, because they have enough forethought to store up plenty of food for winter. When a squirrel has more than he wants to eat at one time he places part of it back for future use.

If you have never noticed these little fur friends of ours who live with us on the campus, try observing them more clearly. They might appreciate a nut.

Miss Williamson, Miss Darrow, Miss Ritchie, and Miss Carleton, senior nurses at Madison, have gone to affiliate with the Cincinnati Children's Hospital, Cincinnati, Ohio.

Miss Canaday, Miss Rice, Mrs. Covert and Miss Leslie have again joined the Madison Nursing School after returning from the Children's Hospital.

Gordon Creighton and Roy Carpenter, sophomores at Emmanuel Missionary College, Berrien Springs, Michigan, spent the Sabbath of February 5 here.

Mr. and Mrs. Harry Sorensen were welcome visitors on the campus February 4.

Dr. J. N. Owens, fourth year medical student of Vanderbilt University and interne at the Madison Sanitarium, is at the Vanderbilt Hospital in Nashville, recovering from an appendectomy.

Out Patient Clinic Shows Increase

A large number of patients have patronized the Madison Hospital Out Patient Clinic since its establishment in July, 1937. The patients have the full facilities of the hospital at their disposal, the X-ray service, and the laboratory, surgical, dental, hydrotherapy, and diathermy departments.

The clinic forms an important part in the nurses' training curriculum in the development of efficient, alert, and tactful personalities among the nurses, and in the giving of needed training in courteous service to the public and immediate comprehension and ability to handle emergencies.

In addition, the Out Patient Clinic serves three other purposes: immediate medical attention for those seeking relief, instructive service for the prevention of disease, and an opportunity for spreading the health message.

Justice may be defined, that virtue which impels us to give every person what is his due. In this extended sense of the word, it comprehends the practice of every virtue which reason prescribes, or society should expect. Our duty to our maker, to each other, and to ourselves, are fully answered if we give them what we owe them. Thus justice, properly speaking, is the only virtue; and all the rest have their origin in it. —Goldsmith

Entertainment

(Concluded from page one)

of Tomorrow." Instrumental numbers were rendered by Henry Burleigh with his harmonica, George Simonds on his guitar, John Robert with an accordion, and Herbert Hewitt with his trombone. George Simonds, Roland Stephens, George Hoyt, and Quinto Miller combined their talent into an appealing string instrumental number. Alva Burske, Raymond Osborne, and Richard Pleasants starred in a harmonica trio.

Loud and prolonged applause after every number showed the audience's great appreciation. Practically every performer was called back for an encore.

High Pressure Sap

(Concluded from page three)

detached roots live indefinitely by supplying them with nutrient fluid. When he attached glass tubes carrying columns of mercury to his tomato roots, the mercury went up until it indicated a pressure of more than eight atmospheres (125 pounds per square inch) at which point the powerful roots broke his apparatus.

The Cohesion theory cannot be entirely shelved, because water will rise in stalks from which the roots have been eaten away, indicating suction from above. But Dr. White, speaking at the American Association for Advancement of Science convention in Indianapolis, showed clearly enough that root pressure could serve as an adequate explanation for sap transportation in the tallest known trees, and to that extent botanical theory must be revised. His colleagues considered his announcement so important that they awarded him the annual \$1,000 prize conferred for the best paper among hundreds at the A. A. S. mid-winter meeting.

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