GEORGE PROPP TO MAKE CONCERTS IN CHICAGO

Prof. Edward M. Geiger of the freshman class in history, has been invited to give a series of four concerts in Chicago, starting Dec. 15. Prof. Geiger's quartet, consisting of the following students: Mr. William Morris of Illinois, Dr. Mark F. Boyd of Ohio, Miss Julia Bennett of Michigan, and Mr. E. Whitford of Ohio, will be featured in the concerts. These will be held at the Institute of Country Life on Dec. 15th, 17th, 19th, and 21st.

IOWA MAGAZINE KNOws ALL OVER UNITED STATES

HIGH LITERARY METRY OF THE MIDLANDS EMBRACES YOUNG COMMENTS

In managed and edited by Iowa Men, Ames and Ames—maintains highest standards in Burton and Poetry

The staff of the Midland is making a special effort before the beginning of the new year to secure articles from the students in the country. The magazine is not only for the students of Iowa, but for all those who are interested in the Midland. Prof. Geiger has been given the task of handling the Midland for the first time.

CLOSE HALL HAS VARIED ACTIVITIES

THREE ORGANIZATIONS HOLD MEETINGS ON ONE AFTERNOON

Thursday was a busy day at Close Hall, meetings and social gatherings were held throughout the day. Among the events that took place were the meeting of the Midland group, the basketball game, and the meeting of the Iowa Magazine. The Midland group met in the afternoon.

The basketball game was held on the high school Y. C. A. court and featured some of the best players in the country. The game was attended by many students and faculty members.

At the Iowa Magazine meeting, students gathered to discuss the latest issues and contributions to the magazine. The meeting was held in the afternoon.

The Midland group's meeting that evening was attended by many students and faculty members. The meeting was held in the afternoon.

CLASS ENGINE STARTS JAN. 2

Classes: Saturday, Wednesday, Tuesday, and Thursday. The classes are held in the afternoon.

LEAP YEAR LIFE—SEVENTEEN YEARS NOVELLE SNAIL WILL SOON BE BRED

Manhattan Lice is to Die for Science

A. Thomas, assistant professor of zoology, has succeeded in breeding seventeen-year snail with the help of the new method of breeding. The snail is known as the "leap year life" snail.

THE DAILY IOWAN

IOWA WINS 33-15 FROM PEDAGOGUES TO OPEN SEASON

SHOW JAM—SHOES LOOK OF FRIDAY NIGHT FOR BOTH TEAMS

No Scores Made in First Six Minutes

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The midland schools teachers' agency of des moines, iowa, during the last twelve years has filled thousands of the best teaching positions west of the mississippi river. its terms are the most liberal offered, and through the confidence and respect of the employing officers, it is able to guarantee satisfactory service. write today for plans.

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SUNDAY, DECEMBER 11, 1910
THE DAILY IOWAN
Page Two

WHAT MEN LIVE BY

There will appear in this issue from day to day, descriptions from modern writers and speakers, letters from alumni and friends of the university, and statistics relative to men and institutions.

Since 1848 the number of college students in the United States has increased from 64,694 to 322,894. In 1848 there were 5,973 students in this country; today there are nearly 12,500. From 1848 to 1898 church membership increased from 3,000,000 to 30,000,000, a gain of about 10 per cent. While the population of the United States created in fifty years, the value of church property increased 500. Notwithstanding the small financial returns from pulpit services, the clergyman has increased at a greater rate than the number of physicians or lawyers. Today there are said to be 157,946 physicians in active practice, 121,149 lawyers and 133,360 clergymen.

"The showing indicates that religious workshops are not burdened by financial necessities; that, measured by membership, the divinity is growing faster than the population; that the value of church property in growing faster than the wealth of the people. Certainly an encouraging showing of spiritual growth in a country that is said to be given over largely to dollar chasing."

CHILCO protest at Des Moines will be a guest at the Napco Raysa Guest House this week end. While here she will attend the Delta Tau Delta dance.

Just received
a fresh supply

no other present
one half so filling
or acceptable
as a box of ours

Delicious candy

the habit of happiness
coming sunday at the
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at last a tooth paste that really cleans and
polishes down to the bone. it has exceptional
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des moines, iowa.

SUNDAY, DECEMBER 11, 1910
THE DAILY IOWAN
Page Two
EXPERIMENTS ON TUNGSTEN WAVES WITH RAY LIGHT

ELMER DEBUEHL OF PHYSICAL DEPARTMENT EXPERIMENTS IN RESEARCH ROOM

Has Novel Method of Determining X-Ray Wave Lengths of Tungsten—Substitution Metals to Determine Other Wave Lengths

The x-ray wave lengths of fission products are from 0.01 tenths to fifteen billionths of a centimeter long. Common light wave lengths from the same metal are from 5,640 to 18,000 angstroms long. In this comparison short wave length of X-rays that make them so practical in the work of determining the distance between atoms in crystals and the x-ray wave length of metals, which furnish D. H. Delbert, of the physics department, is carrying on in one of the research rooms.

Some Fine Figuring

Mr. Dvorak says that in these experiments he is able to detect in wave length differences that are less than one-hundredth of a second.

The Camera Used

The camera which he uses consists of a triangular box fixed, closed box about six inches thick with nine two feet long. Along one of the sides, a photographic plate may be inserted, and from the front opening extends a small metal tube, two feet in length, closed except for a narrow slit at each end. Before this tube is the x-ray tube. The Colloid tube, which is the best for the work and costs about four times as much as the ordinary kind, is used.

Just lines the box, before the film opposite the photographic plate, is a small plate of glass with a piece of rock salt crystal fused into it. The plate is mounted on an arm parallel to the slit and may be slowly turned by a mechanical arrangement. The X-rays from the Colloid tube strike the crystal and are reflected in the photographic plate.

How It Is Done

In the rock salt crystal the atoms are known to be arranged in the form of a lattice, thus making its possible plane of splitting. The rays striking the crystals penetrate practically a million of these planes, and each plane reflects a part of the rays back at the same angle at which they strike the planes. One thing to be considered is that unless the reflecting ray turns away from the incident, however, its effect is lost, and the only way of making a ray strong enough to be seen. When the rays strike the glass plate, part are immediately reflected and go ahead of those reflected from the next plane. To be harmonic, each reflected ray must be just one wave length or any integral number of wave lengths ahead of the following rays. The angle at which the crystal must be placed with respect to the incident ray to bring about this harmony is determined by experiment. When that angle is known, the distance between the planes of atoms may be computed, if the wave lengths of the incoming and known. Or if this angle and the distance become the planes are known, the wave lengths of the waves may be figured. Get the Result

The formula for the angle of reflection is similar to the formula for the distance between the planes has already been found out; so, when the angle at which it reflects is determined, the wave lengths of the incoming are known. By substituting other crystals and using the angle of the diffraction, the distances between their atoms may be computed, and by using rock salt crystal with other metals the X-ray wave lengths of those metals are determined in the same way.

The facility of the physical training department is giving a party at the women's gymnasium Monday evening for all girls who went out for football. T Notre pulling will be the diversion.

Prof. E. R. Lewis in attending a university institute at Chicago this week-end. Priorly he gave a series of lectures on the recent educational problems.

North Dakota, visiting delegate of Gamma Phi Beta sorority, is spending the week-end at the dam.

The regular Friday evening "Car" was held at the home of Mrs. W. J. Waite last evening. Little Fritzi and Gladys Bloomen's were chosen.

Julia Wise entertained the Delta Gamma chapter at a dinner party at her home on North Clinton Thursday evening. Christmas decorations were used. The evening was spent in dancing and music.

California and the End of a Delightful Journey

Your journey's end in golden California is a fitting climax to the delights of a trip on the "Golden State Limited"

"Californian"—superb limited trains. En route—El Paso, now the military center of the United States, Douglas, with its ghost smelters, Bisbee, the unique mining town, the Old Apache Trail and Roosevelt Dam. Over the direct line of lowest altitudes to Los Angeles.

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Automatic Check Signals

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Tickets, reservations, information on request.

H. D. HARBUR, Iowa City, Iowa

On route—the great military encampments at El Paso—largest since the Civil War—a thrilling and continuous journey every loyal American should see.

Edna Emmerich, senior in the University, is recovering at the University hospital from injuries which she received last Saturday evening, when struck by a car while attending the Nu Sigma Nu party and narrowly escaped breaking her shoulder.

Julia Swords, alumnus, is rapidly recovering from a most critical operation performed at the University hospital. The operation is in the interest of it.

Margaret N. North, visiting delegate of Gamma Phi Beta sorority, is spending the week-end at the dam.

"The white hope of American letters," says the Boston Transcript literary editor. The Monday is published in Iowa City.

Every University Student can be a subscriber. The Midland—A Twelve-Times Repeated Magazine of Real Individuality. Send the name and a check for $1.00 the year ($3.00 if you wish it yourself also).

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Umbrellas Hosiery Gloves

Finest Line of Handkerchiefs and Collars

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New Blankets, New Scarfs Center Pieces

See us before you buy.

H. A. Strub & Co.
Reserve a date for the
MILITARY BALL

Old Capitol Basement
Holds Many Mysteries

A giant padlock over four inches in diameter and over an inch in thickness locks the vault in the basement of the old capitol building. This padlock, no doubt a new one, is eighty years old, as it has been used for the purpose of locking this vault ever since the capitol was built. It was formerly painted black but this paint is worn off now, leaving the padlock brown with a few patches of black scattered over the surface. No indication of any patent can be found.

The vault has been put to many and varied uses. It was used by the state as a storage place for valuable documents. According to some reports, it was at one time a jail, although its lack of ventilation would have made it very undesirable for such a purpose. The vault is fireproof. It is now being used to store alcohol and chloroform. A state law requires that these inflammable liquids be stored in a drop-proof vault.

First Bell Used

This only is one of the mysteries of the basement. In a small room designated as a sunk room is found an old bell, covered with an accumulation of bottles and other rubbish. This bell is the first one that was ever built, and was probably placed in the dome when the capital was completed. Then it was old and rusty gray from the long wear which it has seen. The bell is of a very crooked design, the handle being a thin piece of steel bent at the end, while round clapper is attached to this handle. Christmas strength must have been required to move it.

Unusual Fitting Basement

Under the floor of the basement are tunnels, which were made at the time the building was built. The foundation of the building is built in the modern fashions. Instead of being of concrete, it is of stone, the great blocks having been placed hand to hand. These tunnels were made so that the workers could have room to work.

Skeletons Concealed

Mysteries tale are whispered of skeletons lying concealed in these tunnels. No one has had the nerve to inspect in for these.

KIRK’S CIGAR STORE

DIRECTLY OPPOSITE ENTRANCE

“I’M THE MAN TO SEE

FOR CIGARS, SMOKE, TOBACCO,
EL FOR YOUR PEP,
FOR HABIT, FOR ART
FOR THE MANLY BREAST.

YOU WILL FIND
SELECTED CHEMIS
HIGHEST CLASS CIGARS
LARGEST SELECTION OF PIPES
HIGHEST CLASS TOBACCO

BRICKER DAVIS

Perhaps these men were not selected for "All American and All Western", respectively, for their courtesy to their opponents on the gridiron, but certainly they have made the "All World" team in their courtesy to our patrons.

Courtesy Our Motto

Money cheerfully refunded if we fail to thank you. Drop in and make our store your headquarters.

Use our phone and easy chairs.

A Happy Christmas Thought
KODAK

The gift that perpetuates the impressions of today.

HENRY LOUIS
294 E. College Street
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A Wallace Nutting Art Picture
FOR ONE DOLLAR
A Keen Gift to Buy Today

In our Christmas Specialty Room You’ll Find:
Unique Leather Booklets
Beautiful Symphonies
Dainty Cards, Booklets, Stationery and Pictures
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Mother, Father, Sister, Brother

UNIVERSITY BOOK STORE

LANDSCAPE ART UTILIZES MORE LAND THAN SCALES

FRIED, W. E. Hays will leave this
FRIDAY EVENING
JANUARY 5, 1917

Mrs. Jesse Lockhard of Davenport
is spending the week end in the
University library studying the mouths
employed there. Mrs. Lockhard will
take a position in the catalogue
library beginning January 1.

First, W. E. Hays will leave this
Friday for Dense Fields where he will
spend the winter months. He has been
working on the code on the
Christmas vespers services given
by the choral union and the
university church.

The rental to be given by Helen
Feldstein and Mrs. H. M. Maloney
at Coats has been postponed until
Tuesday evening because of the
extreme cold weather.

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crooked design, the handle being a
thin piece of steel bent at the end,
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this handle. Christmas strength
must have been required to move
it.

Unusual Fitting Basement

Under the floor of the basement
are tunnels, which were made at
the time the building was built. The
foundation of the building is built
in the modern fashions. Instead of
being of concrete, it is of stone,
the great blocks having been placed
hand to hand. These tunnels were
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