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Wis Mss EJ
University of Wisconsin
Science Club
Scrap Book
1896-1917

2013/2/6-25

PATENT
281,657

TRADE MARK

MARK TWAIN'S

SCRAP BOOK

REGISTERED PATENT APRIL 23RD 1878

ENGLAND UNITED STATES FRANCE
MAY 16TH 1877 JUNE 24TH 1878 MAY 18TH 1877
JANUARY 25TH 1881

PUBLISHED BY
DANIEL STONE & CO.
NEW YORK.

DIRECTIONS USE BUT LITTLE MOISTURE AND ONLY ON THE GUMMED LINES.
PRESS THE SCRAP ON WITHOUT WETTING IT.

JAN 20 1920

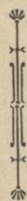
Wis.-U.- Science Club.

SCIENCE CLUB AT THE UNIVERSITY OF WISCONSIN.

The first regular meeting of the Science Club of the University of Wisconsin was held Tuesday, November 10th, the regular programme consisting of a discussion by E. A. Birge on 'The Crustacea of the Open Water of Lake Mendota,' and a paper on 'the Radiophone' by C. M. Smith. Mr. Birge, in speaking on the vertical distribution of the limnetic crustacea, enumerated the factors which effect the distribution, and illustrated the action of each factor by its effect on different species of the crustacea. Especial attention was called to the fact that in summer the crustacea do not descend below the 'Sprungschicht' of temperature, but stop abruptly at that level. This was regarded as due, not to temperature directly, but to the accumulation of decomposition products in the deeper water. Mr. Smith's paper reviewed the principal phenomena which have led to the conclusion that the production of sounds of definite pitch is a general property of all matter, whether solid, liquid or gaseous, when placed in the path of rapidly intermitted heat radiations; the pitch corresponding to the rapidity of interruptions of the rays. He further showed the application of the method to the study of emission and absorption phenomena.

WM. S. MARSHALL, Secretary.

Science Club of the University



There will be a regular meeting Tuesday, 8:00 o'clock P. M., in room 29, Science Hall.

Programme.

PROF. E. A. BIRGE—"The Crustacea of the Open Water of Lake Mendota."
MR. C. M. SMITH—"The Radiophone."

WM.

Secretary.

WM. S. MARSHALL,

five worth of modern transmitters. some original work done to test the comparative worth of modern transmitters.

Mr. C. H. Ford, in his paper, 'The Modern Telephone Transmitter,' gave an account of the present time.

Mr. L. S. Cheyney, in his paper, 'Resume of Work done on the Flora of Wisconsin,' discussed briefly the history of systematic botanical investigation upon the vegetation of the territory now included in the limits of the State, from the journeys of the Jesuit missionaries to the present time.

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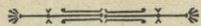
middle zone shows all of these phenomena with various complex relations.

UNIVERSITY OF WISCONSIN SCIENCE CLUB,

DECEMBER 16, 1896.

PROF. C. R. VAN HISE, in his paper, 'The Deformation of Rocks,' discussed the subject generally. It was shown that, in order to adequately understand the phenomena of deformation, the position of rocks with reference to the surface must be considered. Observations of the field show that there are three somewhat distinct zones—an outer zone of fracture, middle zone of combined fracture and folding, and a deeper seated zone of folding. However, whether folding or fracturing occurs depends largely upon the rapidity of deformation upon the strength of the rock in question, as well as the superincumbent load. Therefore, at the same depth may be found all the phenomena of the zones of fracture and flowage; but, broadly stated, the outer zone is particularly characterized by joints, faults and brecciation; the deep seated zone is particularly characterized by folding and cleavage; and the middle zone shows all of these phenomena with various complex relations.

1.
Science Club of the University of Wisconsin.



There will be a regular meeting Tuesday, November 10, at 8:00 o'clock P. M., in room 29, Science Hall.

Programme.

PROF. E. A. BIRGE—"The Crustacea of the Open Water of Lake Mendota."
MR. C. M. SMITH—"The Radiophone."

WM. S. MARSHALL,
Secretary and Treasurer.

2.

Science Club of the University of Wisconsin.

There will be a regular meeting Wednesday, December 16, at 7:30 o'clock P. M., in room 29, Science Hall.

Programme.

C. R. VAN HISE—"The Deformation of Rocks."
L. S. CHENEY—"Résumé of Work Done on the Flora of Wisconsin."
C. H. FORD—"The Modern Telephone Transmitter."

WM. S. MARSHALL,
Secretary and Treasurer.

SCIENCE CLUB AT THE UNIVERSITY OF
WISCONSIN.

The first regular meeting of the Science Club of the University of Wisconsin was held Tuesday, November 10th, the regular programme consisting of a discussion by E. A. Birge on 'The Crustacea of the Open Water of Lake Mendota,' and a paper on 'the Radiophone' by C. M. Smith. Mr. Rivet in speaking of the

DAN 2 0 1928
Wis.-U.-Science Club.

DEPARTMENT OF ZOOLOGY, MADISON, WIS.

SCIENCE Club of the University of Wisconsin, meeting February 22, 1897. Professor F. H. King, in his paper 'The Movements of Ground Waters,' referred first to a world-wide zone, probably extending as deeply below the surface of the earth as rock fissures exist, and which is interpenetrated with water incessantly in motion. These movements were classified as gravitational, thermal and capillary, due respectively to fluid pressure, osmotic pressure and surface tension. Charts were presented constructed from automatic, continuous records, showing that the ground water is constantly in a state of oscillation which may extend over a long period, may be seasonal, or may correspond with the high and low barometric waves associated with the movements of storms. The records presented show that the surface of the ground water in a well is much more responsive to atmospheric changes of temperature than the barometer itself, and during stormy weather the movements of the water surface are so complex and so short in period that a rapidly moving chronograph is required to separate them. Data from different wells and springs strongly suggest the existence of a lunar ground-water tidal disturbance. The variations in the rate of discharge of water from springs under barometric changes is very great, and the surface of Lake Mendota has been shown, even in winter when covered with ice, to be subject to extremely complex oscillation, some of which appear to be barometric. Professor C. R. Barnes, speaking on 'An Evolutionary Failure,' first discovered the meaning of the title, holding it applicable to these groups of organisms which do not give rise to higher forms. The evolutionary history of the mosses was briefly traced, showing that their ancestors diverged along two lines, one of which culminated in the mosses and the other in the seed plants. The cause of failure in the first case seems to have been due to the retention from lower stages of the two most important functions, nutrition and sexual reproduction, by the gametophyte; while success was attained in the other line by specializing the sporophyte for nutritive work.

W. S. MARSHALL,
Secretary.

SCIENCE CLUB OF THE UNIVERSITY OF WISCONSIN, JANUARY 18, 1897.

The subject, 'Modern Methods of Milk Preservation,' was presented by Professor H. L. Russell. He divided the different methods proposed into three classes: 1. Those excluding bacteria from the milk; 2, those inhibiting the development of bacteria as in condensed or preserved milk, or where milk is kept at temperatures too low for bacterial growth; and 3, those in which bacteria are actually destroyed, as in the various methods where heat is employed, as in pasteurization and sterilization. He also discussed the new method, devised by Dr. Babcock and himself, of restoring the consistency to pasteurized milk products. Mr. Louis Kahlenberg, in his paper, 'The Toxic Action of Dissolved Salts and their Electrolytic Dissociation,' gave, as an introduction, a brief explanation of the theory of electrolytic dissociation and the reasons for holding the same. The general proposition was made that the physiological action of a solution of an electrolyte depends on the action of the undissociated molecules, together with that of the ions present. The results of many experiments upon plants performed by the author and Mr. R. H. True and Mr. F. D. Heald were cited to substantiate this view. It was further pointed out that experiments on bacteria performed here at the University, and recent investigations carried on at the University of Leipzig, further confirm the general proposition which was first published in the *Botanical Gazette* of August, 1896, by Kahlenberg and True. The significance of the discovery to physiological chemistry, agriculture, bacteriology and therapeutics was briefly mentioned.

WM. T. MARSHALL,
Secretary.

Science Club of the University of Wisconsin.



There will be a regular meeting Monday, January 18, at 7:30 o'clock P. M., in room 29, Science Hall.

PROGRAMME

MR. H. L. RUSSELL—"Modern Methods of Milk Preservation."

MR. LOUIS KAHLENBERG—"The Toxic Action of Dissolved Salts and Their Electrolytic Dissociation."

WM. S. MARSHALL, Secretary.

Science Club of the University of Wisconsin.



There will be a regular meeting Monday, February 22, at 7:30 o'clock P. M., in room 29, Science Hall.

Programme.

MR. F. H. KING—"Movements of Ground Waters." *Forty minutes.*

MR. C. R. BARNES—"The Mosses as an Evolutionary Failure." *Ten minutes.*

WM. S. MARSHALL,
Secretary.

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SCIENCE CLUB OF THE UNIVERSITY OF WISCONSIN, MEETING APRIL 20.

MR. EDWARD KREMER discussed 'The Periodic System.'

The speaker introduced his subject by giving a brief account of the earlier attempts to refer back to a prime matter the manifold forms in which material nature reveals herself to man. This line of thought was briefly traced from the early Greek philosophers to Prout. The reaction that followed Prout's hypothesis was duely emphasized. The lack of interest in Doehereiner's trials, and the modifications of ~~these~~ trials & others, in Newland's octaves, in Lothar Meyer's first chart it was thus explained in large part. Attention was also called to the fact that the principal interest seemed to center about the ~~universal~~ relation existing between the atomic weight of the elements and that the time value of the system was not duely appreciated until this was made secondary to the

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natural classification of the elements according to their physical and chemical properties. Incidentally the prediction by **Mendeleeff** of the existence of certain elements and their discovery by others were alluded to, because with the discovery of their elements the natural law gained more general favor. What the **periodic law** really is was strongly emphasized, also the fact that the present arrangement of the elements according to this law is imperfect, but more recent systems were not discussed partly for want of time. Finally the great advantage to be gained by using the periodic law as the basis for teaching advanced chemistry was demonstrated

WM. S. MARSHALL,
Secretary.

Science Club of the University of Wisconsin.

There will be a regular meeting of the Club, Thursday, March 11, at 7:30 o'clock P. M., in room 29, Science Hall.

Programme.

DR. WM. S. MILLER—"Pulin

Science Club of

There will be
April 20, at 7:30 o'clock P

MR. EDWARD KREMER—"TI

5

Science Club of the University of Wisconsin.

There will be a regular meeting of the Club, Thursday,
March 11, at 7:30 o'clock P. M., in room 29, Science Hall.

Programme.

DR. WM. S. MILLER—"Pulmonary Architecture."

WM. S. MARSHALL,

Secretary.

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Science Club of the University of Wisconsin.

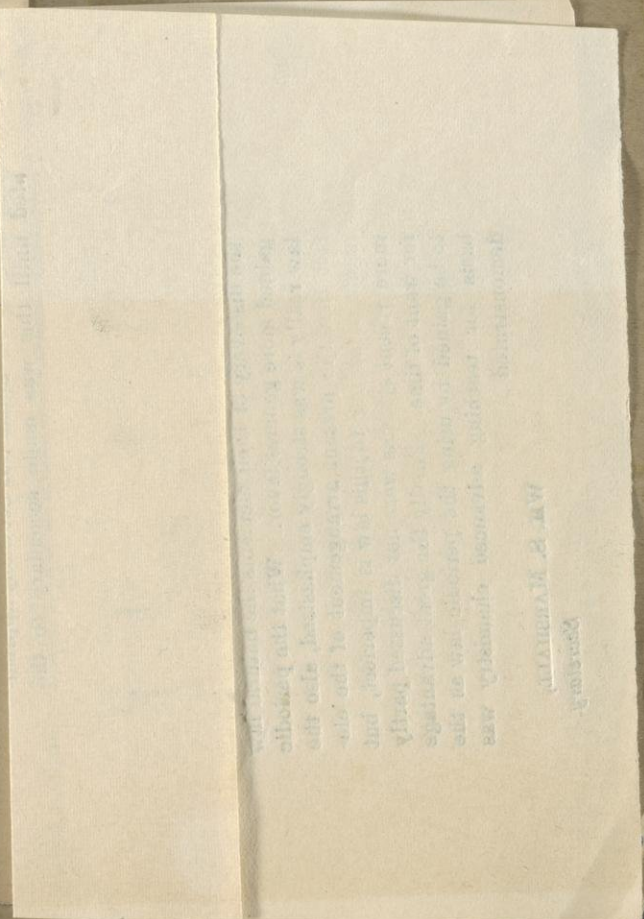
There will be a regular meeting of the Club, Tuesday,
April 20, at 7:30 o'clock P. M., in room 29, Science Hall.

Programme.

MR. EDWARD KREMERS—"The Periodic System."

WM. S. MARSHALL,

Secretary.



3

7

Science Club of the University of Wisconsin.

There will be a regular meeting of the Club, Friday,
May 21, at 7:30 o'clock P. M., in room 29, Science Hall.

Programme.

Mr. C. S. Slichter—"Larmor's Theory of the Ether." Forty Minutes.
Mr. J. O. Quantz—"The Psychology of Reading." Ten Minutes.

WM. S. MARSHALL,
Secretary.

Science Club of the University of Wisconsin.

There will be a regular meeting of the Science Club Tuesday,
May 31st, at 7:30 o'clock P. M., Geological Lecture Room, Science
Hall.

Programme

C. R. BARNES—Recent Progress in Plant Physiology.
Reports of Committees on Medal, and on Nomination of Officers.

WM. S. MARSHALL,
Secretary.

1897 First meeting

University of Wisconsin Science Club.

There will be a regular meeting of the Science Club, Friday, October 15th, at 7:30 o'clock P. M., in the Music Lecture Room, west end second floor of Ladies' Hall. Enter at north side door.

Programme.

H. A. HARDING: "The Bacterial Diseases of Plants." 25 minutes.

G. C. COMSTOCK: "Research Work at the Washburn Observatory." 45 minutes.

Wm. S. MARSHALL,
Secretary.

2

University of Wisconsin Science Club.

There will be a regular meeting of the Club, Tuesday, November 16, at 7:30 o'clock P. M., in the Music Lecture Room, Ladies' Hall. Enter at north door.

Programme.

C. R. VAN HISE—"The Scientific Results of Nansen's Arctic Journey."

D. C. JACKSON—"Some Aspects of Applied Electricity."

Wm. S. MARSHALL,
Secretary.

3

Science Club of the University of Wisconsin.

There will be a regular meeting of the Club, Tuesday, December 21, 1897, at 7:30 o'clock P. M. Music Lecture Room, ~~Science~~ Hall.

Ladies'

Programme.

- E. S. GOFF—"The Application of Artificial Root Pressure to Recently Transplanted Trees." *25 minutes.*
- J. M. CLEMENTS—"Origin, Occurrence and Methods of Working Gold Deposits." *45 minutes.*

WM. S. MARSHALL,
Secretary.

3

SCIENCE CLUB OF THE UNIVERSITY

Owing to the Hospital Entertainment evening, the Executive Committee has decided it is advisable to postpone the January meeting of the Science Club to Thursday, January 20th.

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Science Club of the University of Wisconsin.

There will be a regular meeting of the Club, Thursday, January 20th, 7:30 o'clock P. M., in the Music Lecture Room, Ladies' Hall.

Programme

- W. H. HOBBS—"The International Geological Congress of 1897." *25 minutes.*
- S. M. BABCOCK—"The Unorganized Ferments of Milk and their Role in the Ripening of Cheese." *45 minutes.*

WM. S. MARSHALL,
Secretary.

Science Club of the University of Wisconsin.

There will be a meeting of the Club, Tuesday, March 15,
7:30 o'clock P. M., in the Music Lecture Room, Ladies' Hall.

Programme

R. H. TRUE—Some Notes on the Action of Poisons on Plants. *20 minutes.*

N. O. WHITNEY—An Engineer's Tour Through England and France. Illustrated.
60 minutes.

WM. S. MARSHALL,
Secretary.

2

Science Club of the University of Wisconsin.

POSTPONEMENT OF MEETING.

The April meeting of the Science Club will be held Tuesday, the 26th, at 7:30 o'clock P. M., Geological Lecture Room, Science Hall.

Programme

JOS. JASTROW—Fatigue; Physical and Mental

F. E. TURNEAURE—Tests of Bridges under Moving Loads.

WM. S. MARSHALL,
Secretary.

Science Club of the University of Wisconsin.

There will be a regular meeting of the Science Club Tuesday, May 31st, at 7:30 o'clock P. M., Geological Lecture Room, Science Hall.

Programme

C. R. BARNES—Recent Progress in Plant Physiology.

Reports of Committees on Medal, and on Nomination of Officers.

WM. S. MARSHALL,
Secretary.

1898 First meeting,

Science Club of the University of Wisconsin.

The October meeting of the Science Club will be held Monday, the 17th, at 7:30 o'clock P. M., Physical Lecture Room, Science Hall.

Programme

E. A. BIRGE—The Work of the Wis. Geol. and Nat. Hist. Survey.

R. W. WOOD—Mirage. Illustrated.

L. S. CHENEY,

Secretary.

2.

Science Club of the University of Wisconsin.

The November meeting of the Science Club will be held Monday, the 21st, at 7:30 o'clock P. M., Physical Lecture Room, Science Hall.

Programme

C. R. VAN HISE—The alteration and flowage of rocks from the physical and chemical points of view.

W. D. FROST—Recent progress in the warfare against microbes.

L. S. CHENEY,

Secretary.

3.

Science Club of the University of Wisconsin.

The December meeting of the Science Club will be held Monday, the 19th, at 7:30 o'clock P. M., Physical Lecture Room, Science Hall.

Programme

SYMPOSIUM—Engineering Features of the Late War.

J. G. Mack, F. R. Jones, H. W. Hillyer, C. I. King, Storm Bull, D. C. Jackson, L. S. Smith, E. R. Maurer, F. E. Turneure, N. O. Whitney.

L. S. CHENEY,

Secretary.

Science Club of the University of Wisconsin.

The January meeting of the Science Club will be held Monday, the 16th, at 7:30 o'clock P. M., Physical Lecture Room, Science Hall.

Programme

R. A. HARPER—Some Methods of Cell Division.

W. S. MILLER—The Elimination of Particles of Carbon from the Respiratory Organs.

L. S. CHENEY,

Secretary.

Science Club of the University of Wisconsin.

The February meeting of the Science Club will be held Monday, the 20th, at 7:30 o'clock P. M., Physical Lecture Room, Science Hall.

Programme

B. W. SNOW—The Wave Length of Light as the Standard of Length.
A general discussion of the manner of awarding the medal will follow the reading of the paper

L. S. CHENEY,
Secretary.

Science Club of the University of Wisconsin.

The March meeting of the Science Club will be held Wednesday, the 22d, at 7:30 o'clock P. M., Physical Lecture Room, Science Hall.

Programme

E. R. BUCKLEY—The Natural Resources of Wisconsin, with Special Reference to the Building Stones.
E. B. SKINNER—Sophus Lie's Contributions to Modern Mathematical Thought.

L. S. CHENEY,
Secretary.

3

Science Club of the University of Wisconsin.

The April meeting of the Science Club will be held Monday, the 17th, at 7:30 o'clock P. M., Physical Lecture Room, Science Hall.

Programme

- W. H. HOBBS—The New Mineral, Goldschmidtite.
E. S. FERRY—Information Regarding the Molecule Furnished by Spectroscopy.

L. S. CHENEY,
Secretary.

Science Club of the University of Wisconsin.

The May meeting of the Science Club will be held Monday, the 29th, at 7:30 o'clock P. M., Physical Lecture Room, Science Hall.

Programme

- G. C. COMSTOCK—Some Recent Applications of Photography to Astronomical Discovery. Illustrated.
F. H. KING—The Flow of Fluids Through Porous Media.
Election of officers for ensuing year.

L. S. CHENEY,
Secretary.

SCIENCE CLUB.



The first regular meeting of the Science Club of the University of Wisconsin will be held at 7:30 P. M. Tuesday, October 24th, in the Physical Lecture Room, Science Hall.

The following papers will be presented:

Earth Movements in the Connecticut Valley. (Illustrated by lantern slides.) By Wm. H. Hobbs. (30 minutes.)

Some recent Observations upon the Change of Length of Iron due to Magnetization. By L. W. Austin. (15 minutes.)

G. F. BURGESS,

SECRETARY.

Science Club.

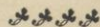


The next meeting of the Science Club of the University of Wisconsin will be held in the Physical Lecture Room of Science Hall, on Tuesday Evening, November 21st, at 7:30 P. M.

The program of the evening will consist of a paper by Mr. Louis Kahlenberg on the subject "The Present Status of our Knowledge of Solutions," and a discussion of the same by C. R. Van Hise, B. W. Snow, H. L. Russell, E. Kremers and C. F. Burgess.

All members of the Club are invited to take part in the discussion.

C. F. BURGESS, SECRETARY.

SCIENCE CLUB.

The December Meeting of the Science Club of the University of Wisconsin will be held on Tuesday, December 19th, at 7:30 P. M., in the Physical Lecture Room, Science Hall.

Program— The Fat Globules of Milk. Paper by S. M. Babcock. 45 minutes.
The Origin and Early Development of Flowers in Certain Fruit Trees. Paper by E. S. Goff. 20 minutes.

C. F. BURGESS, Secretary.

SCIENCE CLUB.

The January meeting of the Science Club will be held on Wednesday, January 24th, at 7:30 P. M., in the Physical Lecture Room of Science Hall.

The program of the evening will consist of a paper by Prof. T. C. Chamberlin of the University of Chicago, his subject being — Some Recent Studies on Fundamental Problems in Geology.

C. F. BURGESS, Secretary.

SCIENCE CLUB.



The next meeting of the Science Club of the University of Wisconsin will be held in the Physical Lecture Room of Science Hall, on Tuesday, March 6th, at 7:30 P. M. The meeting is to be a memorial to Dr. J. E. Davies. The program will consist of the following addresses.

Life Sketch of Dr. J. E. Davies. J. B. Parkinson.
Physics in the University to 1891. B. W. Snow.
Sciences in the Early Days. W. W. Daniells.
Work on the Coast and Geodetic Survey. L. S. Smith.
Dr. Davies' Connection with the Washburn Observatory. A. S. Flint.
All friends of the late Dr. Davies, and of the Science Club are invited to attend this meeting.

C. F. BURGESS, Secretary.

SCIENCE CLUB.

The regular monthly meeting of the Science Club will be held in the physical Lecture Room of Science Hall on Thursday, March 22d, at 7:30 P. M. The following is the program which is to be offered:

The Microscope and its Use in the Various Departments of Science.

1. Construction of the compound microscope, photomicroscopy, projections with the microscope and microscopic slides, and the use of Physics.

B. W. SNOW.

2. The microscope in biology.

In general biology. - - - - - E. A. BIRGE.

In cytology. - - - - - R. A. HARPER.

In bacteriology. - - - - - H. L. RUSSELL.

3. The microscope as a tool of the chemist. - S. M. BABCOCK.

4. The petrological microscope and its application in the study of minerals and rocks. - - - - - ~~J. M. CLEMENTS.~~ *V. H. Harb.*

5. The microscope as an aid in solving engineering problems. *W. A. Mack.* ~~J. G. D. MACK.~~

The regular program will be followed by an exhibition of various types of the microscope.

C. F. BURGESS, Secretary

SCIENCE CLUB.

The April meeting of the Science Club of the University of Wisconsin will be held in the Physical Lecture Room of Science Hall on Tuesday, April 24th, at 7:30 P. M.

A paper will be presented by F. L. Russell on "Some recent Discoveries relating to Communicable Diseases." A discussion of this paper will be led by Dr. L. R. Head and W. D. Frost.

Non-members receiving this card are cordially invited to be present.

C. F. BURGESS, Secretary.

❁ ❁ *SCIENCE CLUB.* ❁ ❁

The next meeting of the Science Club of the University of Wisconsin will be held in the Physical Lecture Room of Science Hall on Tuesday, May 22d, at 7:30 P. M.

The program of the evening will consist in the presentation of a paper by Mr. J. B. Johnson, on "Recently Improved Method of Sewage Disposal." A discussion of the paper will be led by Mr. H. L. Russell and Mr. F. E. Turneaure.

This meeting will be the last one of the year, and officers for the ensuing year will be elected.

C. F. BURGESS, Secretary.

UNIVERSITY SCIENCE CLUB.

The opening meeting for this year of the University Science Club will be held on Tuesday, November 24, at 7:30 o'clock P. M., in the University Hall, Lecture Room No. 16.

Dr. E. A. Birge will give a lecture on Huxley.

Please extend an invitation to your friends to attend the meeting.

E. R. MAURER, Secretary.

University Science Club.

The next meeting of the Club will be held on Thursday, December 20, at 7:30 P. M., in the Lecture Room of the new Library building.

Program — Paper: "The Earth's Story of the Metallic Ores," by Mr. C. R. Van Hise.

Discussion led by Mr. H. F. Bain, of the U. S. Geological Survey, and Mr. C. S. Slichter.

E. R. MAURER, Secretary.



Next Meeting: Thursday, January 24, at 7:30 p. m., in the Lecture Room of the New Library Building.

Program.

LECTURE: "ON THE TEACHING OF SCIENCE,"
by Prof. J. M. Coulter, of the University
of Chicago.

E. R. MAURER, Secretary.



Next Meeting

Friday, March 1st, at 7:30 p. m., in the auditorium of the Engineering building.

Program.

Address: The Outlook in Chemistry, by
Prof. Ira Remsen, of Johns Hopkins university.

E. R. MAURER, *Secretary.*

UNIVERSITY SCIENCE CLUB.

MARCH MEETING.

*Tuesday, March 26, at 7:30 p. m., in the Auditorium
of the Engineering Building.*

PROGRAM.

*Address—“Some observations on Agriculture in Europe,
by Prof. W. A. Henry.*

E. R. Maurer, Secretary.

UNIVERSITY SCIENCE CLUB.

Thursday, April 25, at 7:30 p. m., in the auditorium of the
Engineering Building.

Lecture; “**The Century’s Progress** in Biology,” by
Professor **William A. Locy** of Northwestern University.

E. R. MAURER, Secretary,

UNIVERSITY SCIENCE CLUB.

MAY MEETING.

Thursday, the thirtieth, at 7:30 p. m. in the Physics lecture room, Science Hall.

C. K. LEITH—Rock Cleavage—thirty minutes.

R. W. WOOD—The Sun's Corona (illustrated)—thirty minutes.

Election of officers for the ensuing year will be held.

E. R. MAURER, *Secretary.*

*Room 202
Engineering Bldg*



Science Club.

October Meeting.

The next meeting of the club will be held on Thursday, October 31, at 7:30 p. m., in the auditorium of the engineering building.

Program.

Paper: "The Mesabi Iron Range," Mr. C. K. Leith.

Paper: "The World Past, Present and Future Supply of Ores,"
Mr. C. R. Van Hise.

L. S. SMITH, *Secretary.*



Science Club.

November Meeting.

The next meeting of the club will be held on Tuesday, November 19, at 7:30 p. m., in the Physics lecture room of Science Hall.

Program.

Paper: "The Underflow of the Arkansas River," Mr. C. S. Slichter.

Paper: "A Study of the Dispersion and Absorption of Selenium,"
Mr. A. H. Pfund.

L. S. SMITH, *Secretary.*



Science Club.

December Meeting.

The next meeting of the club will be held on Tuesday, December 17, at 7:30 P. M., in the auditorium of University Hall.

PROGRAM.

PAPER: "Some Further Studies on the Early States of the Earth." PROF.

J. C. CHAMBERLAIN.

L. S. SMITH, SECRETARY.

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Science Club.

January Meeting.

The next meeting of the club will be held on Thursday, January 23, at 7:30 P. M., in the lecture room of the Library.

PROGRAM.

PAPER: Some new reactions of Tellurium Minerals. MR. LENHER. *30 minutes.*

REPORT of the recent meetings of Science Associations:

American Naturalists Association. MR. BIRGE. *10 minutes.*

American Astronomical Society. MR. COMSTOCK. *10 minutes.*

American Chemical Society. MR. KAHLBERG. *10 minutes.*

Wis. Academy of Sciences, Arts, and Letters. MR. SLICHTER. *10 minutes.*

L. S. SMITH, *Secretary.*



Science Club.

February Meeting.

The next meeting of the club will be held on Thursday, February 27, at 7:30 P. M., in the physical lecture room of Science Hall.

PROGRAM.

PAPER: "Chemical Action and the Theory of Electrolytic Dissociation." MR. LOUIS KAHLBERG.

L. S. SMITH, *Secretary.*



Science Club.

March Meeting.

The next meeting of the club will be held on Tuesday, April 1, at 7:30 P. M., in the physical lecture room of Science Hall.

PROGRAM.

PAPER: A Suspected Case of Electrical Resonance for Light Waves; a New Type of Absorption. Illustrated with experiments. PROF. R. W. WOOD.

L. S. SMITH, *Secretary.*



Science Club.

April Meeting.

The next meeting of the club will be held on Friday, May 2, at 7:30 P. M., in the physical lecture room of Science Hall.

PROGRAM.

PAPER: "Methods of Measuring Radiant Heat." MR. C. E. MENDENHALL.

PAPER: "The Algoma [Wisconsin] Meteorite." MR. W. H. HOBBS.

PAPER: "The Sleep of Meteorites." MR. C. S. SLICHTER.

LEONARD S. SMITH, *Secretary.*



Science Club.

May Meeting.

The next meeting of the club will be held on Saturday, May 31, at 7:30 P. M., in the physical lecture room of Science Hall.

PROGRAM.

PAPER: "Das physikalisch-technische Reichsanstalt in Berlin." Illustrated by lantern slides. PROF. HENRY S. CARHART, of University of Michigan.

LEONARD S. SMITH, *Secretary.*



Science Club.

October Meeting.

The first meeting of the club for 1902-3 will be held on Tuesday, October 21st, at 7:30 P. M., in the physical lecture room of Science Hall.

PROGRAM.

PAPER: "Some Developments in Electric Motors." MR. D. C. JACKSON.

PAPER: "Electrolytic Rectification of Alternating Currents." MR. C. F. BURGESS.

The question of the election of a president to succeed the late Dean Johnson will come before the club.

C. E. MENDENHALL, *Secretary.*



Science Club.

November Meeting.

The second meeting of the club for 1902-3 will be held on Tuesday, November 18th, at 7:30 P. M., in the physical lecture room of Science Hall.

PROGRAM.

PAPER: "The destruction of pathogenic bacteria in milk." 15 minutes. MR. E. G. HASTINGS.

PAPER: "An interpretation of the peculiar properties of soap solutions, with experiments." 45 minutes. MR. H. W. HILYER.

C. E. MENDENHALL, *Secretary.*



Science Club.

December Meeting.

The third meeting of the club for 1902-3 will be held on Tuesday, December 16th, at 7:30 P. M., in the physical lecture room of Science Hall.

PROGRAM.

PAPER: "Parallel Structures in Rocks." Illustrated. 25 minutes. DR. C. K. LEITH.

PAPER: "On the Configuration of the Rock Floor of New York Island and Vicinity." 20 minutes. PROF. W. H. HOBBS.

Discussion of above papers by PROF. C. R. VAN HISE.

C. E. MENDENHALL, *Secretary.*



Science Club.

January Meeting.

The fourth meeting of the club for 1902-3 will be held on Wednesday, January 28th, at 7:30 P. M., in the physical lecture room of Science Hall.

PROGRAM.

PAPER: "Under Plow Measurements in Southern California" 45 minutes.

MR. C. S. SLICHTER.

PAPER: "The Action Upon Metals of Solutions of Hydrochloric Acid in Various Solvents." 30 minutes. MR. H. E. PATTEN.

C. E. MENDENHALL, *Secretary.*



Science Club.

March Meeting.

The sixth meeting of the club for 1902-3 will be held on Tuesday, March 24th, at 7:30 P. M., in the physical lecture room, first floor, Science Hall.

PROGRAM.

Address by Mr. George C. Comstock, "The Arrangement and Extent of the Visible Universe." Illustrated with lantern slides.

C. E. MENDENHALL, *Secretary.*



Science Club.

April Meeting.

The seventh meeting of the club for 1902-3 will be held on Tuesday, April 28th, at 7:30 P. M., in the physics lecture room, first floor, Science Hall.

PROGRAM.

Address by Mr. S. M. Babcock on "The Influence of Molecular Changes Upon Weight."

The nomination of officers for next year will also be considered.

The meeting is open to the public.

C. E. MENDENHALL, *Secretary.*



Science Club.

November Meeting.

The second meeting of the club for 1903-4 will be held on Tuesday, November 17th, at 7:30 P. M., in the physical lecture room of Science Hall.

PROGRAM.

PAPERS: (a) Personal Experiences in an Italian University.

(b) New Apparatus in Wireless Telegraphy.—PROF. A. TROWBRIDGE.

VICTOR LENHER, Secretary.



Science Club.

December Meeting.

The third meeting of the club for 1903-4 will be held on Tuesday, December 22, at 7:30 P. M., in the physical lecture room of Science Hall.

PROGRAM

PAPERS: (1) Conditions which effect the Production and Fertility of Pollen.—
PROF. SANDSTEN.

(2) The Influence of Climate on Soils.—PROF. WHITSON.

VICTOR LENHER, Secretary.

Science Club.

January Meeting.

The fourth meeting of the club for 1903-4 will be held on Tuesday, January 26, at 7:30 P. M., in the physical lecture room of Science Hall.

PROGRAM

Report of the recent meetings of Science Associations:

Geology and Mineralogy Sections A. A. A. S.—W. H. HOBBS.

Physics Section A. A. A. S.—B. W. SNOW.

American Chemical Society.—V. LENHER.

Wisconsin Academy of Sciences, Arts, and Letters.—E. B. SKINNER.

Paper: Some Economic Problems in the Location of the K. L. and J. R. R. in Tennessee.—W. D. TAYLOR.

VICTOR LENHER, Secretary.



Science Club.

February Meeting.

The fifth meeting of the Club for 1903-4 will be held on Tuesday, February 23, at 7:30 P. M., in the physical lecture room of Science Hall.

The local section of the American Electrochemical Society will be the guest of the Club at this meeting and will offer the following program:

- (1) Electrolytic Iron.—C. F. BURGESS.
- (2) The Electric Furnace.—OLIVER W. BROWN.
- (3) The Solubility of Gold.—V. LENHER.

VICTOR LENHER, Secretary.





Science Club.

March Meeting.

The sixth meeting of the Club for 1903-4 will be held on Tuesday, March 22, at 7:30 P. M., in the physical lecture room of Science Hall.

Nominations for officers for 1904-1905 will be made at this meeting.

PROGRAM:

- (1) The Organization of the Cell as shown in Certain Mildews.—
R. A. HARPER.
- (2) Resonance in Aerial Systems.—A. H. TAYLOR.

VICTOR LENHER, Secretary.



Science Club.

April Meeting.

The seventh meeting of the Club for 1903-4 will be held on Tuesday, April 26th, at 7:30 P. M., in the physical lecture room of Science Hall.

The annual election of officers will be held at this meeting.

PROGRAM:

- (1) The Arapahoe Glacier of Colorado.—N. M. FENNEMAN.
- (2) The Antagonism of Certain Saprophytic Bacteria against the Typhoid Bacillus.—W. D. FROST.

VICTOR LENHER, Secretary.

1904-05

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Science Club.

October Meeting.

The first meeting of the Club for 1904-5 will be held on Tuesday, Oct. 25th, at 7:30 P. M., in the physical lecture room of Science Hall.

PROGRAM:

- (1) Gas dissolved in the water of Lake Mendota.—V. LENHER.
- (2) Wisconsin iron ore deposits, with especial reference to the Baraboo district.—S. WEIDMAN.

F. W. WOLL, Secretary.



Science Club.

November Meeting.

The second meeting of the Club for 1904-5 will be held on Tuesday, Nov. 15th, at 7:30 P. M., in the physical lecture room of Science Hall.

PROGRAM:

- (1) Have the blue-green algae nuclei?—E. W. OLIVE.
- (2) The development of anatomy in America.—C. R. BARDEEN.

F. W. WOLL, Secretary.



Science Club.

December Meeting.

The third meeting of the Club for 1904-5 will be held on Tuesday, Dec. 13th, at 7:30 P. M., in the physical lecture room of Science Hall.

PROGRAM:

Electrons, radio-activity, and the electrical theory of matter.—B. W. SNOW.

F. W. WOLL, Secretary.



Science Club.

January Meeting.


The fourth meeting of the Club for 1904-5 will be held on Tuesday, Jan. 24th, at 7:30 P. M., in the auditorium, room 16, University Hall.

PROGRAM.

THE PANAMA CANAL,—A SYMPOSIUM:

- (1) History; political relations imposed on the United States on account of its construction.—P. S. REINSCH.
- (2) The economic aspects—W. A. SCOTT.
- (3) The hygienic problems.—W. D. FROST.
- (4) Engineering features.—F. E. TURNEAURE.

F. W. WOLL, Secretary.

 Note change of place of meeting.



Science Club.

February Meeting.

The fifth meeting of the Club for 1904-5 will be held on Thursday, Feb. 23rd, at 7:30 P. M., in the **Auditorium, Room 16, University Hall.**

PROGRAM.

The Lead and Zinc Mines of Southwestern Wisconsin.—**DR. U. S. GRANT**, of Northwestern University.

Dr. Grant will give an illustrated lecture on the results of a careful survey of this region which has just been finished for the Wisconsin Geological and Natural History Survey.

The Science Club medal and a possible change in the day of meeting will be discussed at the business session held immediately after the lecture.

F. W. WOLL, Secretary.



Science Club.

March Meeting.

The sixth meeting of the Club for 1904-5 will be held on Tuesday, March 21st, at 7:30 P. M., in the physical lecture room, Science Hall.

PROGRAM.

1. Food adulterations and their detection —**DR R. FISCHER.**
2. Dessimination of typhoid fever by oysters.—**DR. C. A. FULLER.**
3. Business meeting.

F. W. WOLL, Secretary.



Science Club.

April Meeting.

The seventh meeting of the Club for 1904-5 will be held on Tuesday, April 18th, at 7:30 P. M., in the physical lecture room, Science Hall.

PROGRAM

1. The nature of the process of osmosis.—DR. L. KAHLBERG.
2. Business meeting. Nomination of officers for next year.

F. W. WOLL, Secretary.



Science Club.

May Meeting.

The eighth meeting of the Club for 1904-5 will be held on Thursday, May 18th, at 7:30 P. M., in the physical lecture room of Science Hall.

PROGRAM

1. The influence of the Madison lakes on local air temperatures.—J. L. BARTLETT.
2. The underflow of the Arkansas river.—CHAS. S. SLICHTER.
3. Business meeting. Election of officers for next year.

F. W. WOLL, Secretary.

THE SCIENCE CLUB OF THE UNIVERSITY OF
WISCONSIN.

THE eighth meeting of the club for the year 1904-5 was held on Thursday, May 18, at 7:30 P.M., in the physical lecture room, Science Hall.

The first paper of the evening, by Professor J. L. Bartlett, dealt with the subject, 'The Influence of the Madison Lakes on Local Air Temperatures.' The speaker showed that through the influence of the lakes, which cover one third of the total area within a radius of six miles from the university, the growing season at Madison is appreciably lengthened. It was shown by comparisons with the average data for four neighboring stations, which have strictly continental temperature conditions, that there is an average departure from local continental types of from 0 to -3 degrees in the mean maximum temperature during the various months of the year, of 0 to +4 degrees in the mean minimum temperature, and an increase in summer and autumn in the mean monthly temperature, and a decrease in spring.

The subject of the second paper of the evening, by Professor C. S. Slichter, was 'The Underflow of the Arkansas River.' The speaker presented the results of an investigation conducted last summer under the auspices of the United States Reclamation Service of the region covering the drainage basin of the Arkansas River, from Garden, Kans., westward to the state line. The work done indicates that the water of the Arkansas underflow has its origin in the rainfall upon the sand hills to the south of the river and upon the bottom lands and plains to the north of the river. The rate of movement of the underflow was found by the electrical method to vary between eight and eleven feet for twenty-four hours. It was shown that the Arkansas River contributes water to the underflow in time of flood. When the river was high a movement of the ground water away from the river channel was measured and found to be about eight feet for twenty-four hours.

The following members were elected officers of the club for the year 1905-6:

President—Professor Louis Kahlenberg.

Vice-President—Professor C. K. Leith.

Secretary-Treasurer—Professor Richard Fischer.

E. W. WOLL,

Secretary.



Science Club.

October Meeting.

The first meeting of the Science Club for the academic year 1905-6 will be held in the physics lecture room, Science Hall, on Thursday, October 19th, at 7:30 P. M.

PROGRAM:

1. The reflex theory of instincts.—S. J. HOLMES.
2. On the chemistry of the tellurates.—E. B. HUTCHINS.

RICHARD FISCHER, Secretary.



Science Club.

November Meeting.

The second meeting of the Science Club for the academic year 1905-6 will be held in the physics lecture room, Science Hall, on Thursday, November 23d, at 7:30 P. M.

PROGRAM:

1. A new method for measuring the force of gravity (with exhibition of apparatus).—C. E. MENDENHALL.
2. The Animikie iron-bearing district of Ontario.—R. C. ALLEN.

RICHARD FISCHER, Secretary.



Science Club.

December Meeting.

The third meeting of the Science Club for the academic year 1905-6 will be held in the physics lecture room, Science Hall, on Thursday, December 21st, at 7:30 P. M.

PROGRAM:

1. Excessive feeding as a factor in producing variation in plants.—
E. P. SANDSTEN.
2. Fungous Diseases of Insects.—E. W. OLIVE.

RICHARD FISCHER, Secretary.



Science Club.

January Meeting.

The fourth meeting of the Science Club for the academic year 1905-6 will be held in the physics lecture room, Science Hall, on Thursday, January 18th, at 7:30 P. M.

PROGRAM:

Mountain Growth—MR. BAILEY WILLIS, Geologist of the Carnegie Institution Washington, D. C.

RICHARD FISCHER, Secretary.



Science Club.

February Meeting.

The fifth meeting of the Science Club for the academic year 1905-6 will be held in the physics lecture room, Science Hall, on Wednesday,* February 21st, at 7:30 P. M.

PROGRAM:

1. Some chemical theories concerning plant pigmentation.—ED. KREMERS.
2. Parthenogenesis in flowering plants.—J. B. OVERTON.

RICHARD FISCHER, Secretary.

*Notice the change from the regular date.



Science Club.

March Meeting.

The sixth meeting of the Science Club for the academic year 1905-6 will be held in the physics lecture room, Science Hall, on Thursday, March 29th, at 7:30 P. M.

PROGRAM:

1. The structure of the heavens.—GEO. C. COMSTOCK.
2. Business meeting.

RICHARD FISCHER, Secretary.



Science Club.

April Meeting.

The seventh meeting of the Science Club for the academic year 1905-6 will be held in the physics lecture room, Science Hall, on Thursday, April 19th, at 7:30 P. M.

PROGRAM:

1. The steam turbine.—STORM BULL.
2. The use of rare earths in electric illuminants.—M. C. BEEBE.
3. Business meeting.

RICHARD FISCHER, Secretary.



Science Club.

May Meeting.

The last meeting of the Science Club for the academic year 1905-6 will be held in the physics lecture room, Science Hall, on Thursday, May 24th, at 7:30 P. M.

PROGRAM:

1. Recent discoveries with reference to insect-borne diseases.—H. L. RUSSELL.
2. Election of officers and transaction of other important business.

RICHARD FISCHER, Secretary.



Science Club.

October Meeting.

The first meeting of the Science Club for the academic year 1906-7 will be held in the physics lecture room, Science Hall, on Thursday, October 25th, at 7:30 P. M.

PROGRAM:

Forestry.—E. M. GRIFFITHS, State Forester. Illustrated with lantern slides.

W. D. FROST, Secretary.



Science Club.

November Meeting.

The second meeting of the Science Club for the academic year 1906-7 will be held in the physics lecture room, Science Hall, on Thursday, November 15th, at 7:30 P. M.

PROGRAM:

The Great Eruption of Vesuvius in 1906.—WILLIAM H. HOBBS, Professor of Geology, University of Michigan. Illustrated with lantern slides taken by Professor Hobbs.

W. D. FROST, Secretary.



Science Club.

December Meeting.

The third meeting of the Science Club for the academic year 1906-7 will be held in the physics lecture room, Science Hall, on Thursday, December 20th, at 7:30 P. M.

PROGRAM:

The Habits of Nest-Building Fishes.—JACOB REIGHARD, Professor of Zoology, University of Michigan. Illustrated with original lantern slides.

W. D. FROST, Secretary.

Special Meeting

at which Hermann Von Schrenk
of Mo. Bot. Gardens
St. Louis, Mo.

Shake on

In absence of Secretary
all of notices were destroyed

Special Meeting of
Jan. 3, 1907
Benedict



Science Club.

January Meeting.

The fourth regular meeting for the year 1906-7 will be held in the lecture room, 165 University Hall, Wednesday, January 23, 1907, at 7:30 P. M.


PROGRAM:

Earth Movements and Earthquakes.—

PRESIDENT CHARLES R. VAN HISE.

President Van Hise will treat broadly the general subject of earth movements, and will speak in particular of the geological conditions prevailing at the time of the San Francisco disaster, as well as the causes leading to the recent catastrophe in Jamaica.

The lecture will be illustrated by lantern slides.

 Note change of date and place of meeting.

W. D. FROST, Secretary.

You are invited to attend a meeting of the Science Club of the University of Wisconsin, to be held on January 23, 1907, at 7:30 P. M., in Room 165, University Hall, to listen to an address by President Charles R. Van Hise upon the subject of Earth Movements and Earthquakes.

President Van Hise will treat broadly the general subject of earth movements and will speak in particular of the geological conditions prevailing at the time of the San Francisco disaster, as well as the causes leading to the recent catastrophe in Jamaica.

The lecture will be illustrated with lantern slides.

BENJAMIN W. SNOW, *President.*
WILLIAM D. FROST, *Secretary.*

*400 sent to
Legislators + Faculty
50 postals to Phys. of City*



SCIENCE CLUB.

The January Meeting
will be held in Room 165,
University Hall, Wednesday, January
23, 1907, at 7:30 P. M.

PROGRAM:

Earth Movements and Earthquakes,
by President Charles R. Van Hise.

President Van Hise will treat broadly the general subject of earth movements, and will speak in particular of the geological conditions prevailing at the time of the San Francisco disaster, as well as the causes leading to the recent catastrophe in Jamaica.

The lecture will be illustrated by lantern slides, and is open to the general public. All are cordially invited to attend.



Science Club.

February Meeting.

The fifth meeting of the Science Club for the academic year 1906-7 will be held in the physics lecture room, Science Hall, on Thursday, February 14th, at 8 P. M.

PROGRAM:

Pure Food and Drug Legislation—by Professor Edward Kremers.

The paper will be discussed by State Chemist Fischer, who will also exhibit a number of adulterated foods found in Wisconsin markets.

W. D. FROST, Secretary.



Science Club.

March Meeting.

The sixth meeting of the Science Club for the academic year 1906-7 will be held in Room 165, University Hall, on Friday, March 15th, at 8 P. M.

PROGRAM:

The Outlook Relative to the Future Habitability of the Earth.

—Prof. T. C. Chamberlin, University of Chicago.

W. D. FROST, Secretary.



Science Club.

The seventh meeting of the Science Club for the academic year 1906-1907 will be held in the physics lecture room, Science hall, on Thursday, May 2d, at 7:30 P. M.

PROGRAM:

The Physical Basis of Heredity. Illustrated with lantern slides.

—By Professor C. E. Allen.

W. D. FROST, Secretary.



Science Club.

The eighth meeting of the Science Club for the academic year 1906-1907 will be held in the physics lecture room, Science hall, on Thursday, May 23d, at 7:30 P. M.

PROGRAM:

- I. Reinforced Concrete: Its Scientific and Economic Aspects. Illustrated with lantern slides. By PROFESSOR F. E. TURNEAURE.
- II. Annual Business Meeting.

W. D. FROST, Secretary.

NOTE.—Ballots nominating officers of the Club for the ensuing year will be received by the Secretary up to the time of this meeting.



Science Club.

November Meeting.

The first meeting of the Science Club for the academic year 1907-8 will be held in room 165, University Hall, on Tuesday, November 5th, at 7:30 P. M.

PROGRAM:

Forest preservation:—with special reference to the proposed Appalachian and White Mt. forest reserves.—By DR. THOS. E. WILL.

ELIOT BLACKWELDER, Secretary.



Science Club.

December Meeting.

The second meeting of the Science Club for the academic year 1907-8 will be held in room 165, University Hall, on Thursday, December 12th, at 7:30 P. M.

PROGRAM:

The Origin of Species.—By PROFESSOR C. O. WHITMAN, of the University of Chicago.

ELIOT BLACKWELDER, Secretary.



Science Club.

January Meeting.

The third meeting of the Science Club for the academic year 1907-8 will be held in the Physics Lecture room, Science Hall, on Thursday, January 16th, at 7:30 P. M.

PROGRAM:

Personal Reminiscences of Lord Kelvin:—By Professor Thomas Gray, of the Rose Polytechnic Institute.

ELIOT BLACKWELDER, Secretary.



Science Club.

February Meeting.

The fourth meeting of the Science Club for the academic year 1907-8 will be held in the Physics Lecture room, Science Hall, on Thursday, February 20th, at 7:30 P. M.

PROGRAM:

The Newer Aspects of Modern Hygiene:—By Professor M. P. Ravenel.

ELIOT BLACKWELDER, Secretary.



Science Club.

March Meeting.

The fifth meeting of the Science Club for the academic year 1907-8 will be held in the Physics Lecture room, Science Hall, on Thursday, March 19th, at 7:30 P. M.

PROGRAM:

New Light on the origin of Lake Superior iron and copper ores:—

By Dr. C. K. Leith.

ELIOT BLACKWELDER, Secretary.



Science Club.

April Meeting.

The sixth meeting of the Science Club for the academic year 1907-8 will be held in the Physics Lecture room, Science Hall, on Tuesday, April 28th, at 7:30 P. M.

PROGRAM:

1. Recent advances in Stereoscopic Vision:—By Professor Joseph Jastrow.
(Accompanied by demonstrations.)
2. Nomination of officers.

ELIOT BLACKWELDER, Secretary.



Science Club.

May Meeting.

The seventh meeting of the Science Club for the academic year 1907-8 will be held in the Physics Lecture room, Science Hall, on Friday, May 22d, at 7:30 P. M.

PROGRAM:

1. Reclamation and Irrigation projects in the West:—
By Professor O. H. Ensign.
2. Annual meeting and election of officers.

ELIOT BLACKWELDER, Secretary.

A joint meeting of the
WISCONSIN SECTION
of the
AMERICAN CHEMICAL SOCIETY
and the
SCIENCE CLUB OF THE UNIVERSITY OF WISCONSIN
will be held at Madison, on Friday, October 30, 1908, at 8 P. M., in
Room 102 of the Chemistry Building.

PROF. A. S. LOEVENHART

will present a paper on

RECENT ADVANCES IN THE SUBJECT OF OXIDATION AND THEIR
RELATIONS TO THE BIOLOGICAL AND MEDICAL SCIENCES

All persons interested are cordially invited to be present.

W. F. KOELKER, Secretary Science Club.

To the Members of the Science Club.

Owing to the unavoidable absence from the University of Professor C. C. Thomas the meeting of the Science Club scheduled for Dec. 17th will be held on Jan. 7th, 1909. The subject will be: "On the Experimental Methods of the Determination of the Specific Heat of Superheated Steam."

It is also appropriate to announce that the meetings arranged must be concentrated in January and February to accommodate unexpected changes of plans of those invited to address the Science Club. President Woodward of the Carnegie Institute will speak on Feb. 2nd, and Professor Webster of Clark University on February 24th. It is expected that Professor Bose, who was invited to speak before the Science Club this month, will address the scientific departments of the University about the middle of January.

W. F. KOELKER, Secretary Science Club.



Science Club

The meeting of the Science Club previously announced will be held Tuesday, January 12, in the Physics Lecture Room, Science Hall, at 7.30 P. M.

Professor C. C. Thomas will give an illustrated lecture on "The experimental methods for the determination of the specific heat of superheated steam."

W. F. KOELKER, Secretary.



Science Club

The third meeting of the Science Club for the Academic year 1908-09, will be held in room 165, University Hall, on Tuesday, February 2, at 8 p. m.

PROGRAM:

"The Carnegie Institution of Washington and Its Work," by Mr. R. S. Woodward, President of the Carnegie Institution.

After the lecture an informal smoker will be given, by the local chapter of Sigma Xi, at the University Club, where the members of the Science Club will have an opportunity to meet Mr. Woodward.

W. F. KOELKER, Secretary.



Science Club

The fourth meeting of the Science Club for the Academic year 1908-09, will be held in room 165, University Hall, on Wednesday, February 24, at 8 p. m.

PROGRAM:

"The Creed of the Scientist," by Professor A. G. Webster, of Clark University.

W. F. KOELKER, Secretary.



Science Club

The fifth meeting of the Science Club for the Academic year 1908-09, will be held in the Physics Lecture Room, Science Hall, on Friday, March 26, at 8 p. m.

PROGRAM:

"First Evidences of Life on the Globe," by Dr. A. C. Lane, State Geologist of Michigan.

The public is invited.

W. F. KOELKER, Secretary.



Science Club

The sixth meeting of the Science Club for the Academic year 1908-09, will be held in the Physics Lecture Room, Science Hall, on Thursday, April 15, at 8 p. m.

PROGRAM:

"Photographic revelations in Astronomy," by Professor E. E. Barnard, of the Yerkes' Observatory, of the University of Chicago.

The lecture will be fully illustrated by an exceptional and original set of slides. The public is invited.

W. F. KOELKER, Secretary.



Science Club

The seventh meeting of the Science Club for the Academic year 1908-09, will be held in the Physics Lecture Room, Science Hall, on Thursday, May 20th, at 8 p. m.

PROGRAM:

"On the Action of Certain Substances Upon the Respiratory Center," by Dr. A. S. Loevenhart and Dr. W. E. Grove.

"The Origin of the Blood Platelets," by Dr. D. H. Bunting.

A short business meeting will be held for the purpose of the election of officers for the coming year.

W. F. KOELKER, Secretary.



Science Club

The first meeting of the Science Club for the Academic year 1909-10, will be held in the Physics Lecture Room, Science Hall, on Friday, Nov. 19th, at 8 p. m.

PROGRAM:

Professor JOHN M. COULTER of the University of Chicago will lecture on CHARLES DARWIN. The public is invited.

J. B. OVERTON, Secretary.



Science Club

The Second meeting of the Science Club for the Academic year 1909-10, will be held in the Physics Lecture Room, Science Hall, on Friday, Dec. 17th, at 8 p. m.

PROGRAM:

Professor LAWRENCE MARTIN will lecture on New Light on Causes of Glacial Movement, based on Studies of Alaskan Glaciers.

The public is invited.

J. B. OVERTON, Secretary.



Science Club

The Third meeting of the Science Club for the Academic year 1909-10, will be held in the Physics Lecture Room, Science Hall, on Friday, Jan. 28th, at 8 p. m.

PROGRAM:

Dean CARL H. EIGENMANN, of the University of Indiana, will lecture on "KAIETEUR", or a fishing trip to British Guiana.

The public is invited.

J. B. OVERTON, Secretary.



Science Club

The March meeting of the Science Club for the Academic year 1909-10, will be held in the Physics Lecture Room, Science Hall, on Wednesday, March 30th, at 8 p. m.

PROGRAM:

DEAN F. E. TURNEAURE will talk on Some Experiments on Bridges Under Moving Trains.

The public is invited.

J. B. OVERTON, Secretary.



Science Club

The April meeting of the Science Club for the Academic year 1909-10, will be held in the Physics Lecture Room, Science Hall, on Friday, April 29th, at 8 p. m.

PROGRAM:

Mr. McGARVEY CLINE will talk on The Forest Service Laboratory. Illustrated by a large number of lantern slides.

The public is invited.

J. B. OVERTON, Secretary.



Science Club

An important business meeting will be held in the Physics Lecture Room, Science Hall, Thursday, June 16th, at 8 p. m.

Election of officers and members.

J. B. OVERTON, Secretary.



Science Club

May 20, 1910.

By securing the tickets of admission to the Observatory on Wednesday evening, May 25th, the SCIENCE CLUB has been able to reserve this evening for its members and friends. Professor COMSTOCK will give an introductory talk in Room 112 University Hall at 7 P. M., after which the members will adjourn to the Observatory, if the weather is clear. Tickets of admission are herewith enclosed.

Members are requested to send their nominations for the offices of President, Vice-President and Secretary-Treasurer to the undersigned as soon as possible. Election of officers will be held at the next business meeting of the club.

Recently a large number of members have left the University and many science men have come here. It is earnestly desired that all members make a point of proposing new names by sending them to the Secretary in order that they may be acted upon by the Executive Committee before the regular business meeting.

J. B. OVERTON,

Secretary-Treasurer.



Science Club

The October meeting of the Science Club for the Academic year 1910-11, will be held in Room 165, University Hall, on Thursday, October 20, at 8 p. m.

PROGRAM:

Address by Professor JOSEPH JASTROW on "Scientific and Popular Credulity in the Paladino, and other recent incidents."

The public is invited.

L. R. INGERSOLL, Secretary.



Science Club

The second meeting of the Science Club, season 1910-11, will be held in the Physics Lecture Room in Science Hall, Thursday, December 1, at 8:00 p. m.

PROGRAM:

PROFESSOR MAX MASON will speak on "The Case Against the Ether."

A popular discussion of the present state of our theories regarding empty space, and of experiments which have lead to a new conception of space and time.

The public is invited.

L. R. INGERSOLL, Secretary.

The Science Club of the University of Wisconsin invites you to attend its meeting on Friday, March 3, at 8 P. M., in the Auditorium of the Chemistry Building, corner of University Avenue and Charter Street. President Charles R. Van Hise will speak on the subject "The Influence of the Mineral and Fuel Deposits on Civilization—an Aspect of Conservation."

H. Lenher,
President.

L. R. Ingersoll,
Secretary.

The public is invited.

L. R. INGERSOLL, Secretary.



Science Club

The third meeting of the Science Club, for the academic year 1910-1911, will be held in the Physics Lecture Room, Science Hall, Friday, January 20, at 8:00 p. m.

PROGRAM:

Professor W. M. Davis, of Harvard University, will deliver an illustrated lecture on "The Lessons of the Grand Canon of the Colorado."

Please note—Because of projection facilities it is necessary to use ~~the~~ room which will probably be much too small to accommodate all who will want to attend this lecture. Members are therefore urged to COME EARLY.

L. R. INGERSOLL, Secretary.



Science Club

The fourth meeting of the Science Club, for the Academic year 1910-1911, will be held on ~~Thurs-~~^{Thurs-}day, March ~~2~~³ 1911, at 8 P. M., in the Auditorium of the Chemistry Building.

PROGRAM:

President Charles R. Van Hise will speak on the subject: "The Influence of the Mineral and Fuel Deposits on Civilization—an Aspect of Conservation."

The public is invited.

L. R. INGERSOLL, Secretary.



Science Club

The fifth meeting of the Science Club, for the Academic year 1910-1911, will be held on Thursday, March ~~23~~²⁴, 1911, at 8 P. M., in the Auditorium of the Chemistry Building.

PROGRAM:

Professor L. Kahlenberg will deliver an illustrated lecture on "Recent Developments in the Chemistry of the Metals."

The public is invited.

L. R. INGERSOLL, Secretary.



Science Club

The sixth meeting of the Science Club, for the Academic year 1910-1911, will be held on Tuesday, May 9, 1911, at 8 P. M., in the Auditorium of the Chemistry Building.

PROGRAM:

Professor Svante Arrhenius will lecture on "Modern Views of the Molecular Theory."

NOTE. Professor Arrhenius will also lecture on Monday, May 8, at 4:30, in the same auditorium, on "Climatic Conditions on Mars."

The public is invited.

L. R. INGERSOLL, Secretary.



Science Club

The seventh meeting of the Science Club, for the Academic year 1910-1911, will be held on Thursday, May 25, 1911, at 8 P. M., in the Physics Lecture Room, Science Hall.

PROGRAM:

Professor S. M. Babcock will speak on "The Role of Metabolic Water in Living Organisms."

Election of officers.

L. R. INGERSOLL, Secretary.



Science Club

A meeting of the Science Club will be held in the Physics Lecture Room in Science Hall, on Tuesday, March 5, 1912, at 8 P. M.,

PROGRAM:

Dr. M. P. Ravenel will speak on "Sources of Infection and Modern Prevention of Disease."

The public is invited.

E. G. HASTINGS, Secretary.



Science Club

A meeting of the Science Club will be held in the Physics Lecture Room in Science Hall, on Thursday, March 14, 1912, at 8 P. M.,

PROGRAM:

Dr. F. D. Adams, of McGill University, will speak on Ancient and Modern Conceptions of the World."

The public is invited.

E. G. HASTINGS, Secretary.



Science Club

A meeting of the Science Club will be held in the Physics Lecture Room in Science Hall, on Friday, May 10, 1912, at 8 P. M.

PROGRAM:

Professor A. A. Michelson, of Chicago University, will speak on "Iridescent Colors in Birds and Insects."

The public is invited.

E. G. HASTINGS, Secretary.

[1912?]

The Science Club of the University of Wisconsin,
Officers and Members, 1912-1913 (Madison, 1913).

15-pages. Removed from University of Wisconsin Science Club Papers to library.

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Science Club

The first meeting of the Science Club for the season, 1912-1913, will be held in the Lecture Room, Biology Building, Wednesday, November 6th, at 8 P. M.

PROGRAM:

Dr. C. F. Hodge, of Clark College, will speak on "Fly Extermination, as a Problem in University Biology."

The public is invited.

E. R. MILLER, Secretary.



Science Club

The second meeting of the Science Club for the season, 1912-1913, will be held in the Lecture Room, Biology Building, Thursday, January 16, 1913, at 8 P. M.

PROGRAM:

Dr. Victor C. Vaughan, Dean of the School of Medicine of the University of Michigan, will speak on "Eugenics, the Science of Race Betterment".

Dr. Vaughan will also speak on "The Effects of Disease on Civilization," in the same room at 2:30 P. M. of the same day.

The public is invited.

E. R. MILLER, Secretary.



Science Club

The third meeting of the Science Club for the season, 1912-1913, will be held in the Physics Lecture Room, Science Hall, Tuesday, March 4, 1913, at 8 P. M.

PROGRAM:

Dr. Joseph Sweetman Ames, Director of the Physical Laboratory, Johns Hopkins University, will speak on "Modern Views of the Structure of Matter"

The students and the public are invited.

E. R. MILLER, Secretary.



Science Club

The fourth meeting of the Science Club for the season, 1912-1913, will be held in the Physics Lecture Room, Science Hall, Thursday, April 17, 1913, at 8 P. M.

PROGRAM

Dr. A. S. Loevenhart, of the University of Wisconsin, will speak on "The Relation of Oxidative Processes in the Central Nervous System to Stimulation and Depression".

The lecture will be illustrated.

The students and the public are invited.



Science Club

The first meeting of the Science Club for the season, 1913-1914, will be held in the Lecture Room, Biology Building, Thursday, November 6, 1913, at 8 P. M.

PROGRAM

Dr. A. S. Pearse, of the University of Wisconsin, will speak on "Tropical Nature in Colombia."

The lecture will be illustrated.

The students and the public are invited.

A business meeting for the election of officers will be held, following the lecture.

E. R. MILLER, Secretary.



Science Club

The second meeting of the Science Club for the season, 1913-1914, will be held in the Physics Lecture Room, Science Hall, Wednesday, December 10, 1913, at 8 P. M.

PROGRAM

Dr. F. E. Wright of the Geophysical Laboratory of Washington, will speak on "Some Phases of the Work of the Geophysical Laboratory of Washington."

E. R. MILLER, Secretary.



Science Club

The third meeting of the Science Club for the season, 1913-1914, will be held in the Lecture Room, of the Biology Building, Thursday, January 22, 1914, at 8 P. M.

PROGRAM

Dr. George C. Whipple, the Professor of Sanitary Engineering, in Harvard University, will speak on "Relative Values in Sanitation."

E. R. MILLER, Secretary.



Science Club

The fourth meeting of the Science Club for the season, 1913-1914, will be held in the Physics Lecture Room, Science Hall, Wednesday, February 25, 1914, at 8 P. M.

PROGRAM

Dr. Eliot Blackwelder of the University of Wisconsin, will speak on "The Making of the Rocky Mountains."

The lecture will be illustrated.

E. R. MILLER, Secretary.



Science Club

The fifth meeting of the Science Club for the season, 1913-1914, will be held in the Physics Lecture Room, Science Hall, Thursday May 7, 1914, at 8 P. M.

PROGRAM

Dr. Joseph Jastrow of the University of Wisconsin, will deliver an illustrated lecture on, "The Language of the Face."

Election of Officers.

E. R. MILLER, Secretary.

Meeting Cancelled.



Science Club

The first meeting of the Science Club for the season, 1914-1915, will be held at the University Club, Thursday, December 10, 1914, after a beef-steak dinner.

PROGRAM

President Charles R. Van Hise will speak on "The Influence of Mineral Resources in Civilization."

The meeting will be open to members and their guests only. The price per plate will be \$1.00. Members of the University Club will sign slips at the dinner, non-members of the University Club will obtain admission cards for themselves and their guests from the Secretary. Please fill out and return the enclosed card not later than noon, Tuesday, December 8, if you will be present.

E. R. MILLER, Secretary.



Science Club

The first meeting of the Science Club for the season, 1914-1915, will be held at the University Club, Wednesday, January 6, 1915, after a beef steak dinner, at 6:30 P. M.

PROGRAM

Prof. Daniel W. Mead will speak on "Science in China". (Illustrated)

The meeting will be open to members and their guests only. The price per plate will be \$1.00. Members of the University Club will sign slips at the dinner, non-members of the University Club will obtain admission cards for themselves and their guests by paying the Secretary in advance. Please fill out and return the enclosed card not later than noon, Monday, January 4, if you will be present.

E. R. MILLER, Secretary.

Sigma Xi and Science Club

A joint meeting of Sigma Xi and Science Club will be held in the Auditorium of the Biology Building on Friday evening, Jan. 22, at 8 p. m.

PROGRAM

Dr. Jagadis Chunder Bose of the Presidency College, Calcutta, will speak on "Plant Autographs and their Revelations." The lecture will be illustrated.

The meeting will be open to members and their guests.

A smoker for Dr. Bose will be given at the University Club following the lecture.

W. J. MEEK, Secretary, Sigma Xi

ERIC R. MILLER, Secretary, Science Club



Science Club

The third meeting of the Science Club for the season, 1914-1915, will be held in the Auditorium of the Biology Building on Thursday, February 18, at 8:00 P. M.

PROGRAM

Dr. T. C. Chamberlain, of the University of Chicago, will speak on "Early Stages of the Earth's History".

The meeting will be open to members and their guests.

E. R. MILLER, Secretary.



Science Club

The fourth meeting of the Science Club for the season, 1914-1915, will be held in the Auditorium of the Biology Building on Monday, March 1, at 8:00 P. M.

PROGRAM

Director John F. Hayford, of the College of Engineering of Northwestern University, will speak on "The Surveys and the Decision in the Costa Rica-Panama Boundary Arbitration."

The meeting will be open to members and their guests.

E. R. MILLER, Secretary.



Science Club

The first meeting of the Science Club for the season, 1915-1916, will be held in the Physics Lecture Room, Science Hall, Monday, November 8, 1915, 8:00 P. M.

PROGRAM

Dr. Charles G. Abbot, Director of the Smithsonian Astrophysical Observatory, will deliver an illustrated lecture on Studies of Solar Radiation.

E. R. MILLER, Secretary.

Annual dues (\$1.00) are now payable, Checks should be made payable to order of ERIC R. MILLER, TREASURER.



Science Club

The second meeting of the Science Club for the season, 1915-1916, will be held in the Physics Lecture Room, Science Hall, Monday, January 10, 1916, 8:00 P. M.

PROGRAM

Dr. W. S. Franklin will deliver a lecture on Some Phenomena of Fluid Motion and the Curved Flight of a Baseball, with experiments.

A demonstration of the Trans-Continental Telephone line of the American Telephone and Telegraph Co., will be given on Jan. 12 at 8 P. M. in the Auditorium of the Engineering Building under the auspices of the American Institute of Electrical Engineers. Members of the Science Club are invited to attend.

E. R. MILLER, Secretary.



Science Club

The third meeting of the Science Club for the season, 1915-1916, will be held in the Auditorium of the Biology Building, Friday, February 18, 1916, 8:00 P. M.

PROGRAM

Dr. J. W. Mavor, of the Department of Zoology, will speak on "The Fisheries of the North Atlantic."

E. R. MILLER, Secretary.

Sigma Xi and Science Club

A joint meeting of Sigma Xi and Science Club will be held in the Auditorium of the Chemistry Building on Thursday evening, April 6, 1916, at 8 p. m.

PROGRAM

Pres. Charles R. Van Hise will speak on the Panama Canal, especially with relation to slides, and with relation to defence.

The lecture will be illustrated,

W. J. MEEK, Secretary, Sigma Xi

E. R. MILLER, Secretary, Science Club



Science Club

The first meeting of the Science Club for the season, 1916-1917, will be held in the Physics Lecture Room, Science Hall, Saturday evening, December 16, 1916, at 8:00 o'clock.

PROGRAM

Dr. S. W. Williston, of the University of Chicago, will give an illustrated lecture on "The Earliest Known Air-breathing Vertebrates."

This lecture will be open to the Public. Members are requested to announce it to their classes.

E. R. MILLER, Secretary.



Meetings both cancelled.

Science Club

The next meeting of the Science Club for the season, 1916-1917, will be held in the Auditorium of the Biology Building, Friday evening, January 12, at 8:00 o'clock.

PROGRAM

Dr. E. C. Rosenow, of the Mayo Foundation, will give an illustrated talk on "The Etiology of Epidemic Poliomyelitis."

A week later, on Friday, January 19, at 8:00 p. m., Prof. Robert De C. Ward, of Harvard University, will give a lecture in Room 165, University Hall, on "The Weather and the War."

E. R. MILLER, Secretary.

Sigma Xi and Science Club

A joint meeting of Sigma Xi and Science Club will be held in the Auditorium of the Biology Building on Monday evening, February 12, 1917, at 8 P. M.

PROGRAM

Dr. Frederic S. Lee, of Columbia University, will speak on Air and Efficiency.

The lecture will be illustrated.

C. I. CORP, Secretary, Sigma Xi

E. R. MILLER, Secretary, Science Club



Science Club

The third meeting of the Science Club for the season, 1916-1917, will be held in Room 165, University Hall, Wednesday evening, March 7, at 8:00 o'clock.

PROGRAM

Prof. Robert De C. Ward, of Harvard University, will speak on, "The Weather Factor in the Great War."

E. R. MILLER, Secretary.



Science Club

The fourth meeting of the Science Club for the season, 1916-1917, will be held in the Physics Lecture Room, Science Hall, Thursday evening, March 22, at 8:00 o'clock.

PROGRAM

Dr. W. W. Stockberger of the Bureau of Plant Industry of the U. S. Department of Agriculture, will give an illustrated lecture on the Cultivation of Medicinal Plants.

E. R. MILLER, Secretary.



Science Club

The fifth meeting of the Science Club for the season, 1916-1917, will be held in the Physics Lecture Room, Science Hall, Thursday evening, April 5, at 8:00 o'clock.

PROGRAM

Dr. G. A. Miller, of the University of Illinois will speak on "The Application of Mathematics to Scientific Research."

E. R. MILLER, Secretary.



Science Club

The sixth meeting of the Science Club for the season, 1916-1917, will be held in the Auditorium of the Biology Building, Thursday evening, April 26, at 8:00 o'clock.

PROGRAM

Dr. E. C. Rosenow, of the Mayo Foundation will speak on "The Etiology of Epidemic Poliomyelitis."

Dr. Rosenow will give an account of his own research of the causes of Infantile Paralysis.

E. R. MILLER, Secretary.

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