## Sea of Calcium Is Sky Mystery

Cornell University's New Dean of Astronomy Is Studying Big Puzzle.

VIEWS SCIENCE'S

Theories of Evolution of Heavenly Bodies Reverse of Few Years Ago --- Spectroscope Astronomer's Greatest Aid.

Seattle, Wash .- S. L. Boothroyd, professor of astronomy at the University of Washington, who leaves this June to become the deap of astronomy at Cornell university, bas been adding his bit, and an important bit it may prove, brothers, the stars.

Many stars which to the naked eye or through small telescopes appear as single stars are 'n fact two stars, circling about each other.

It is these double stars that Professor Boothroyd has been investigating. Part of his work has been done at the University of Washington and part at the Dominion government observatory ear Victoria, B. C.

Studies Double Stars. Professor Boothroyd has been study- berries, or cherries grown in England. drive. ing the spectra of two double stars just barely visible to the naked eye. One Is known as "Boss No. 4602" and the other as "H. R. No. 8803." They are so far away that even big telescopes annot separate the two stars that combose them. The two stars which appear as one and are called the Boss No. 4602 are at least 3,000,000 miles apart, perhaps much farther, and still they are so far away that they seem one

star in the telescope. The spectroscope is perhaps the astronomer's greatest aid. It is a simple little contrivance of lenses and a threecornered bit of glass that makes a beam of light into a rainbow. The rainbow is divided by dark lines, and these dark lines are the pets of the astronomers.

Each combination of lines tells the story of some one of the eighty-odd chemical elements present in the body producing the light. The brilliance of the spectrum and its lines indicate the heat radiated by the star, Professor Boothroyd states.

"One of the double stars I have been observing," explained Doctor Boothroyd, "is floating in a sea of calcium. Calcium is a rare metal on earth. Imagine an atmosphere of metal so hot it is vapor and extending more than 3,-000,000 miles! I am paying close attention to this calcium atmosphere. It may give us the clue to the solution of several mysteries in connection with double stars."

Only Hazard a Guess.

Theories come and go on the birth and life of stars, according to Professor Boothroyd, Today's best hypothesis of the evolution of the stars is almost the exact reverse of the one which held away a few years ago.

"The best astronomers hardly have

Woman Becomes a Singer

After 30 years without her

voice, Mrs. Laura Richardson of

Malden, Mass., has become a re-

markable singer, reaching high

Mrs. Francis Whitcomb, a

singing teacher, persuaded Mrs.

Richardson to take lessons in

voice culture. Mrs. Richardson

made such progress that she de-

cided to take singing lessons.

She has developed a voice 'hat

is said to be clear as a bell, and

is being urged to go on the con-

treasure of gold buried in a vacant lot

0.000.000.000.000.000.000.000.000.000.000

notes with case.

cert stage.

they were bandits.

Voiceless Thirty Years,

a theory," said the Scattle astronomer. "They dare not. They only hazard a guess as to the order of certain things in the life of a star. The most likely story of a star's life has it born of nebulous vapor and dead as a tlny, shrunken old sun.

"We now believe that somewhere bits and scraps of cosmic dust, the remnants of old stars and all the litter and trash of the universe collects and, after millions of years, becomes a nebula. A nebula looks like a knot of cotton to the eye and like a cloud in the telescope. It is made up of tiny asteroids from the size of a brickbat to perhaps the size of a miniature planet.

"Why this universal rubbish collects to form a pebula no man can even guess. But when the nebula has become large, gradually the bits work toto man's knowledge of his earth's big ward the center. Heat is generated Its generation might be said to result from the friction of the particles. Rapidly the heat increases and the whole mass becomes hot. In the course of a few million years we have a great blazing sun, huge beyond man's best and biggest dreams,"

BEST RABBIT SLAYER



One of the fairest and most successful of the many young women who took part in the annual rabbit drive in Grant county, Washington, was Miss Adella Peterson, who formerly presided at the ribbon counter Many of the fruits and vegetables of a department store in Seattle. She now eaten were almost unknown to handled her 12-gauge shotgun like a our forefathers. Not until Henry veteran male sportsman and got many VIII's time were raspberries, straw of the 5,000 rabbits killed during the

## Vegetable Life Germ Isolated

Scientist Succeeds in Extracting Vitamine Properties From Fruits and Vegetables.

MAY BE OF GREAT VALUE

Doctor Cox Believes That His Discovery Will Tend to Banish Malnutrition if Benefits Are Extended to Entire Population.

New York .- Dr. Harry Barringer Cox, inventor of the dry battery and many other contrivances, announced that he had succeeded in extracting the vitamine properties from fruits and vegetables. As it is becoming increasingly recognized by scientists that many people, including those presumably "healthy," are unscientifically nourished because they eat food lacking sufficient vitamine properties, Doctor Cox feels that his discovery would tend to banish malnutrition if its benefits were extended to the en-

tire population. In explaining his discovery, Doctor Cox said that since a seed will germinate when carried over from one season to another, it was evident that

all vegetable matter that is possible of re-creation must of necessity have a living force within itself. As the germ of life is in the seed, some part of the vegetable is a living or vitamic

Begins Experiments on Yeast Beginning his experiments with vitamines about a year ago, Doctor Cox found it possible to extract them from yeast. Once he isolated the vitamic cell from yeast he went on to other vegetables and fruits. After

obtaining the vitamic cells from fruits and vegetables he placed them under the microscope and found that they were similar in shape, appearance and action to the yeast vitamine. However, after extracting the vitamic properties from fruits and vege-

tables, Dr. Cox knew no more about the vitamines than that they reacted in a certain way.

living vitamic property, the part that at Fremont. is alive," he said. "It is like setting aside that part of the grain which creates new life. "If the drain pipe were a digestive

organ it would have the best digestion in the world because it would be best fed. That is why soup is such a good thing. The vitamic property of the vegetables is cooked into it.

The Next Problem.

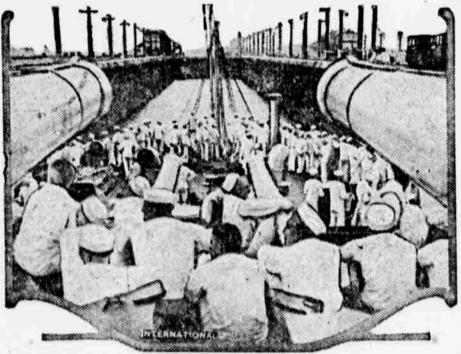
"Malnutrition is caused by lack of consumption of vitamines in our food. We hear people complain of being exhausted. They say their food does them no good. They lack vitamines.

"Now the problem arises of how to get people to partake of food that is rich in vitamines. How, then, to get the living fruit and vegetable properties to the table. It seems to me that if the fruits and vegetables that are wasted in such prodigious quantities every year could be utilized so that their vitamic properties could be extracted and made available to the people it would solve the problem.

"The extract could be used in the manner of a sediment. To add one" spoonful of vitamic, as I call the substance, to a plateful of food would ularly would be benefited by it and it the problem of malnutrition."

mane society preferred charges,

Wyoming in the Panama Canal



Looking forward on the U. S. S. Wyoming as the dreadnaught passed through the Panama canal en route to the Atlantic after the maneuvers.

## Reap a Rich Harvest

Berlin Marriage Profiteers Prey on Young Couples.

Sell License to Those Seeking Rooms -Move Started to Stop the

Practice.

Berlin,-Marriage licenses are being utilized for profiteering by Germans. The marriage "profiteer" developed out of the situation which has made necessary the strict "rationing"

of housing space. A married couple or a pair about to be married may obtain permission to occupy certain rooms by presenta-

Monroe, La.—Reports of a vast housing offices. It has been discovered that many half by the marriage of a man and here caused thousands to start dig- marriage licenses have been issued to woman both of whom are working. ging. Two of the treasure seekers men and women who have no intenwere shot by policemen, who thought tion to marry, but having secured the to some advantage in the matter of

the number of rooms allotted to married persons sell the "permission" to inches of her hair braid. married folks or others who need rooms and cannot find them.

The officials say some profitable business has been done, but that the practice is being stopped by keeping a watch on those to whom marriage licenses are granted and withdrawing permission to occupy rooms unless the marriage is performed.

Marriages, however, eclipsed all previous records in the last year. The number has increased two-fold over prewar years, and many fold over the marriages during the war.

"Many young folks today are getting married here simply to get a Tale of Buried Millions-Town Digging tion of the marriage ticense to the room cheaply," said a Berlin official, The cost of the dwelling is cut in

"They also feel they can co-operate license and the permission to occupy food, which is a serious problem."

**NEWS OF STATE** TERSELY TOLD

Recent Happenings in Nebraska Given in Brief Items For Busy Readers. A boys' band will be organized at

Lewiston will put in an electric light

and power system. Kenesaw will celebrate her 50th anniversary on June 1,

The State Dental Society will meet in Omaha May 16 to 19,

Wilber has voted bonds for a municipal cold storage and ice plant.

The state camp of the M. W. A. will be held at Lincoln May 3 and 4. The Farmers State bank of Pleasanton has been taken over by the

Hebron is planning a stock show, corn carnival and baseball tournament Frontier-Stockville, W. G. Bartlett; Sept. this fall.

Bert Wilcox, a farmer living near

tion by a 2 to 1 vote. Mr. and Mrs. John W. Solomon re-

cently celebrated their golden wedding at their home at Franklin York has raised \$40,000 toward the

erection of a three-story hospital containing forty-eight rooms. A Geneva dairy firm will add a STATE FAIR.

poultry department, starting with Lincoln, E. R. Danielson: Sept. 4-9. A Geneva dairy firm will add a

1,000 White Legborn chickens. Joe McGuire of Bruel has sleeping sickness and the only means of rous- thought to be the oldest woman in ing him is by an electric battery.

that Miss Mary Peterson was elected illness, mayor of Red Cloud by seven votes. ed president of the State Music men at its session just closed at Nor-

Mrs. Mary B. Conely, of Omaha, who recently celebrated her 101st anniversary, is believed to be the oldest

woman in the state. Representative James Rodman, Kimball, was elected president of the Nebraska Legislative League at the annual meeting in Lincoln.

Ithica neighborhood, and co-operation from the flames that resulted. of the stock owners has been asked in

controlling the disease. John Arland, a farmer near Tilden, struction of the new state road which was seriously injured when he fell and will run from Arthur to Keystone, a was caught under the wheels of a

tractor he was operating. five carloads, was contributed by Gage burglars, who escaped with \$720 in county farmers and residents for the cash and a draft for \$1,500, besides relief of foreign famine sufferers.

Nels Jensen, a patient at the Norfolk state hospital, was stabled to death with a pitchfork in the hands across the Republican river at Suof August Glick, another patient. An attendance of over 300 is ex-

pected at the district convention of State Christian Endeavor society to be held in Omaha, April 22 to 24.

A ballot taken by the York Com-

The Fulmer garage at Columbus was storage were burned. While Doris Haverstock, a 12-year-

from behind and clipped off eight finger, making necessary an amputa-Henry Allison Albin of Osceola, has

been nominated to take the examina- Taylor, made a shipment to St. Louis tion for entrance to the naval academy of furs and hides amounting to \$15,000, at Annapolis. Mr. Albin is a graduate of the Osceola High school and at present is a student at the State uni-

The German Evangelical congregation at Elmwood has recently completed a new \$10,000 parsonage.

It has been definitely decided that Nebraska's 1,500 national guardsmen will go to camp for summer training in instructor on international law at from August 17 to August 31, inclusive, the state university at Lincoln, has but it has not been decided where the been adjudged insane, and has been camp will be located.

The college of agriculture in a cir- tal at that place. cular on "The Problem of Clothes for

NEBRASKA FAIR DATES.

Location, Secretary's Name and Ad-

dress, and Date of Fair. The following list compiled by Wm. H. Smith, secretary-treasurer of the State Association of Fair Managers, is complete to date. Any further information desired may be obtained by addressing the secretary-treasurer at 318 Funke Building, at Lincoln,

Antelope—Neligh, Fred B. Spencer; Sept. 13-16.
Beone—Albion, C. B. McCorkle; Sept. 20-23.
Boyd—Butte, H. H. Story; Sept. 14-16.
Buffalo—Kearney, G. E. Hanse; Aug. 30-31-Sept. 1-2.
Butter—Pavid City, W. H. McGaffin, Jr.; Sept. 20-23.
Chase—Imperial, W. C. Hill.
Cheyenne—Sidney.
Clay—Cay Center, H. H. Harvey; Sept. 26-20.
Cumins—Wisner.

26-10.
Cuming—Wisner.
Custer—Broken Bow, N. Dwight Ford;
Aug. 23-26.
Pawes—Chadron.
Pawson—Lexington, R. E. Falkinburg;
Sept 12-16.
Dixon—Concord, E. J. Hughes; Aug. 21Sept. 2. Blaon—Concord, E. J. Hughes; Aug. 31Bodge—Hooper, Bernard Monnich; Aug. 30Sopt. 2.
Dodge—Scribner, Walter Sievers; Sept. 14-16.
Douglas—Omana. F. B. Cox. Waterloo;
Sept. 13-16.
Dundy—Henkelman, J. N. Robidoux; Sept. 15-17.
Fillmore—Geneva, S. E. L. Filmore—Geneva, S. E. Raisten, S. pt. 14-14. Franklin—Franklin, J. A. Stewart, Sept.

Furnas-Beaver City, J. E. Bonser; Sept.

this fall.

Wilber, county seat of Saline, has a live Commercial club with a membership of 150.

The new \$45,000 Pilgrim Congregational church at Cortland was dedicated Sunday.

Jacob Meyer, formerly hotel inspector in this state, died last month at Bucyrus, Ohio.

J. H. Gustofson has resigned his position as president of the State Farmers' Union.

Prof. Wendell, present eighth grade teacher, has been elected city superintendant at Burwell.

Bert Wilcox, a farmer living near 

Wilber, county seat of Saline, has a live country sept. 20-23. Gage—Rearrice. Boyd Rist: Sept. 26-30. Greeley: Sept. 20-23. Hall—Grand Island, Rudolph Durtschi; Wood River; Sept. 14-16. Hamblon—Aurora, L. A. Morris; Aug. 20-85. Lancoh.—Aurora, L. A. Morris; Aug. 20-85. Lancoh.—Aurora, L. A. Morris; Aug. 20-85. Lancoh.—Aurora, L. A. Morris; Aug. 20-23. Hayes—Hayes Center. Hitchcock—Culbertson. J. A. Kirk: Sept. 15-17. Holt—Chambers. J. W. Holden; Sept. 14-16. Holt—Chambers. J. W. Holden; Sept. 14-16. Holt—Chambers. J. W. Holden; Sept. 12-23. Holt—Chambers. J. W. Holden; Sept. 12-13. Holt—Cham Madison-Madison, George F. Kolzow;

Bert Wilcox, a farmer living near Randolph, dropped dead in a field from heart leakage.

Paving work has been resumed at Chadron after having been suspended during the winter.

The American Yeomen at Sutherland initiated a class of fifty-five candidates last week.

Madison—Madison, George F. Kolzow; Sept. 13-16.

Nance—Fullerton.

Nan

didates last week.

Mary Jane Marsh, 80, resident of Nebraska since 1856, is dead at her home in Brownville.

The erection of a new town hall at Overton was defeated at a recent election by a 2 to 1 vote.

The election of a new town hall at the election by a 2 to 1 vote.

13-16.

Saline—Friend, Leroy W. Ingham; Aug. 25-26.

Saunders—Wahoo.

Scottsbiuff—Mitchell, J. T. Whitehead; Sept. 4-16.

Seward—Seward. W. H. Chapman; Sept. 13-16.

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Nayer—Desnier, E. J. Mitcheil: Aug. 31-Sept. 2. Valley—Ord. H. D. Leggett; Sept. 13-16. Washington—Arlington, C. G. Marsha'l; Sept. 21-23. Webster—Bladen, S. P. Duncan; Aug. 23-26. York—York, Geo. W. Shreek; Oct. 3-7. Maywood, S. M. Hall; Sept. 26-30,

Mrs. Harriet Morse, 97 years old,

Gage county, died in a hospital at Official canvass of the votes shows Beatrice last week, after a prolonged Harry Ayres of Mitchell was elected August Melzer of Lincoln, was elect- state foreman of the American Yeo-

Teachers' Association at its meeting folk. The next conclave will be held at Fremont. A Sioux City, Ia., man has bought seven Nebraska hotels, paying \$1,000,-000. The properties are at Lincoln, Omaha, Columbus, Scottsbluff, Frank-

lin and Table Rock. Thomas Olinson, a 3-year-old boy of Madison, dropped a box of matches on a hot stove and was burned to Hog cholera has broken out in the death when his clothes caught fire

The county commissioners of Arthur county have let the contract for con-

distance of about thirty miles. The farm home of Mrs. J. C. Rich-A total of 5,027 bushels of corn, or ardson, near Seward, was entered by a set of moss agate earrings and a

cameo ring. Pouring of concrete for the dam perior is completed. It is said to be the longest and largest water power dam in the state and can develop 2,000 horsepower.

Three members of the Adolph Johnson family, living near Sutton, were seriously injured when the automobile in which they were riding struck a calf in the road near Inland and over-

The Rev. Charles W. Savidge, wedding ceremony, has just received a letter from the first of those 5,000 married by Rev. Mr. Savidge in Litchfield, Minn, October 15, 1879,

Lawson G. Brian, former state incompletely destroyed by fire last week. surance commissioner, has been ap-Nine new automobiles and 38 cars in pointed chief adjuster of the state hail insurance division.

Byron Clements of Elmwood caught old Omaha girl was returning home his finger ring on a nail, putted the from a trip down town a man came up flesh off the first joint, and broke the

> C. A. Rumbaugh, a ranchman near expecting to clear \$5,000 on the deal. After having them in cold storage for over a year, he finally disposed of them at a loss of \$7,000.

The Aurora school board has elected a force of over thirty teachers for the coming year. Salaries in many instances were advanced.

Dr. Edwin Maxey, for many years placed under treatment at the hospi-

## SIGNS THIRTY MORE

GOVERNOR TURNS OUT NEW SESSION NEARS CLOSE

LANGUAGE BILL GETS THRU

Reed-Norval Bill Finally Makes Grade After Long Hard Fight in Both Houses-Judges Salaries Are Given Boost

Lincoln-The foreign language bill over which a bitter fight was fought for weeks in the legislature is now a law, Governor McKelvie having signed it along with a number of other bills. The other bills he signed were:

S. F. 254 Permitting ice cream makers to educe butter fat content of product shipped out of the state.
S. F. 256—Creating game refuge in Nebraska National forest.
S. F. 334—Allows county board to fix salary of highway commissioner in counties under 50,000.
S. F. 332—Procedure for taking care of separate bonded indebtedness in consolidated school districts.
S. F. 219—Repeals wartime soldiers' moratorium.
S. F. 210 Repeals old law extinguishing

authority of administratrices who marry.
S. F. 97-New guardian and ward law.
S. F. 87-New incest law.
S. F. 327-Bill for relief of Kimball county high school.
S. F. 296 Authorizes conservation and soil

survey bureau to require reports on progress of drilling for oil. S. F. 279—Felony to falsify public utilities records.
S. F. 258-Estate funds unpaid for ten years to eschent to county.
S. F. 60—Potato grading bill.
S. F. 71—Permits salary boost for officers in towns 1,000 to 5,000 population.
S. F. 196—Regulating soft drink manufac-

turers.
S. F. 137-Prohibits aliens from carrying firearms.
S. F. 278, with emergency Permits uni-S. F. 278, with emergency Permits university to buy and resell serum.

S. F. 243—Gives district judges statewide subpocha jurisdiction in certain cases.

S. F. 268—To legalize paving assessment on Fremont-Ames highway.

S. F. 128—Abolishes exemption of federal reserve banks from state reserve law.

S. F. 190—Permits counties to bid on highway contracts.

S. F. 190 Permits counties to bid on high-way contracts.
S. F. 227—To prohibit non-resident attor-neys from taking railway damage suits out-side the state for prosecution.
S. F. 280—Raises school levy limit for Douglas county from 50 to 75 mills.
S. F. 225—Raises improvement bond limit in towns 1,000 to 5,000 from \$150,000 to \$250,000. S. F. 23-Joint resolution endorsing Great

Lakes waterway, S. F. 200, 202, 203, 204, 205 and 207-Irrigation bills.
H. R. 70—Raising the salaries of county

H. R. 70—Raising the sataries of county judges.
H. R. 311—When vacancies occur in county office, records to be kept intact until successor appointed.
H. R. 345—Requires county treasurer to pay vouchers drawn on state highway fund derived from auto license.
H. R. 337—Second class cities and villages to levy annual tax for special indebtedness incurred for local improvements.
H. R. 344—Repeals provision requiring state highway bureau to reassign auto owners' license numbers. Requires county treasurer to furnish blanks.
H. R. 390—Re-write of fish and game laws

H. R. 390—Re-write of fish and game laws of state.

To Govern Pardon Board A bill prescribing method of procedure for the state board of pardons has been passed by the house. It amends the indeterminate sentence law so that district judges may fix maximum and minimum penalties when sentencing convicted persons. The bill tells how applications may be made, provides for service on the district judge, county prosecutor and sheriff, who are also required to make recommendations, of the notice of hearing. The board may compel the attendance of witnesses at hearings, punishment is provided for false testimony or affidavits by witnesses, and makes it unlawful for any person toapproach or discuss a member of the board with respect to a pardon. The power of furlough is taken from the governor by a provision that limits his giving of a respite that extends only until the next meeting of the board. No paroled person may leave

of a parole. Warning Against Child Labor Letters calling attention to the child labor laws of the state are being mailed out to 300 families of beet field workers by Mrs. Emily Hornberger, director of the child welfare bureau of the state department of public welfare. Exodus to the beetfields of western Nebraska will start.

the state without permission, and it

is made a felony to violate the terms

immediately. Mrs. Hornberger, who made an investigation of the labor situation in the beet industry last year, reported that she found many little children of foreigners forced to work in the hot sun from sunrise to sunset-twelve to fifteen hours.

Regulate Cold Storage Food Rules and regulations recently adopted by the bureau of . markets\_ state department of agriculture, specify that articles of food which have been held in cold storage warehouses for a period of sixty days or more shall be sold as cold storage goods and the purchaser must be advised to flat effect.

The bureau further specifies the form in which the goods must bemarked. "The letters or figures must be in plain indelible type not less. than three-eighths of an inch in height."

Alien Land Bill Passes Senate The alien land bill as amended by the senate to apply to all aliens and foreign corporations, and giving those that can become naturalized five years. in which to do so or dispose of lands,

passed the senate by a vote of 19 to 9. Issues Arbor Day Proclamation Governor S. R. McKelvie, in his Arbor day proclamation, appeals to Nebraskans of all ages to renew the diligence of the early settlers by plant-

ing trees on April 22. Governor McKelvie calls attention to the fact that Nebraska was the first state in the union to observe Arbor day, and reminds the citizens. that in the early days the settlers. planted thousands of trees each year that the territory might not seem such an endless stretch of prairie and

Dean Charles Fordyce, head of the the High School Graduate," protests teachers' college at the state univeragainst the growing tendency toward sity for the last thirteen years, has display and extravagance in high tendered his resignation, to take effect school graduating outfits, claiming that August 31, in order to devote his enit breeds snobbishness and selfishness, tire time to research study.

mercial club shows that city favors give all the vitamine one would need Sunday ball, erection of a municipal for a meat. Growing children partichall, rest rooms, and concrete walks. turned, pinning the occupants beneath. The reorganized farmers' elevator seems to me it would tend to solve company, which recently purchased Omaha's marrying parson, who rethe old elevator plant at Hoag, Gage cently gained national prominence county, has assumed charge of the when he performed his five thousandth Mother Applies Hot Poker to Daughter business. Quincy,-Asserting she was trying Oman Goble of Hastings was fato teach her nine-year-old daughter tally burned when the can of oil brides. She is Mrs. Mary Watson to tell the truth, Mrs. Effie Syrkel was with which he poured kerosene on the Buck, of Los Angeles, and she was arrested for applying a red-hot stove shouldering coals in a heating stove poker to the child's tongue. The Hu- exploded.