Planet May Have Life, But Not Intelligent Beings, Father Rigge Tells Radio Fans.

Signaling to Mars is a fit subject for a yellow magazine, but not for men of intelligence, declared Father William F. Rigge in an address over WOAW Friday night. The astronom discussed the facts concerning Mars gleaned by scientists.

"The fact that the orbit of Mars lies entirely outside the earth's orbit brings with it the great advantage that Mars always turns its bright or day side toward us, especially when it is opposite the sun. It is then nearer to us than any other heavenly body except the moor

"We know that Mars is a solid ball like the earth, only smaller with a diameter about half that of the Nicholas Maharies, 6, Mrs. Marie Ma-

half desert. It has white polar caps which melt away in the spring and which are now generally admitted to be snow. It has few, if any, mountains and a rarer atmosphere than earthly persons can live in," he de- live in. The most interesting as well clared.

"The astronomical question in which the public generally seems to be most interested, is without doubt, pecially that of our nearest neighbor, Mars. This question is sure to come the matter, now holds these canals up in the daily press almost every to be water courses. other year at least-whenever this ing for and against its being actually inhabited are among the ablest men that we have

Natural Law Universal. own judgment in the case, and indeed freezing point plants can not grow. even to have clear ideas on the point But before refreshing our memories forms of germs. And long before as we know then on earth, are the ceases, so that all the major operasame all over the universe, alcircumstances in which they may grees, between 40 and 100. operate, may differ widely from those n which we are accustomed to study them. For this reason it will not do to say that God is Almighty—that He can create an infinite number of worlds all differing from one another, and people them with all kinds of whole, is getting neither hotter nor

fers essentially from that on earth. we cannot apply the facts of our average temperature 29 degrees beearth to any other heavenly body scope certain lines in the atmosphere of Mars that correspond perfectly with those of water vapor on earth, we could be no means conclude that there is water on Mars. No, we must suppose the laws of nature and

the main facts about Mars. Mars times seen at sunrise and even in is a planet like the earth. What does the afternoon on the equator. This that mean? Astronomers have proved might put the temperature of its that the sun, on acount of its enormous size, occupies the center of what they call the solar system. This consists of eight large and many It would also raise the average tem hundred smaller bodies that circulate perature of the whole planet to about about it in fixed orbits, together with many comets. We know that Mercury is the planet nearest the sun, moving about it at an average distance of as one one of miles are all the sun and green is most likely a color of growing vegetation. 36,000,000 of miles and completing its circuit in about 38 days.

distance of 67,000,000 of miles and a period of 225 of our days. The earth is the third in the order of distance, about 93,000,000 of miles away from the sun, and completing its course in 365 1-4 days. Then comes our planet Mars 141 millions. comes our planet Mars, 141 millions

Jupiter, Saturn, Uranus and Neptune, the latter's distance from the sun being almost 300,000,000 of miles and its period about 164 of our years.
"While the orbits of the planets are

practically circles, they do not, however, have the sun in the center. For the earth, the sun is 1.500,000 miles out of center, and for Mars as much as 13,000,000. The consequence is that while these orbits approach one another within 35,500,000 miles in one place, they are 61,000,000 miles apart in the opposite one. While the earth and Mars may therefore be nearest together for the time being, this least distance is thus seen to vary considerably. It is only once in every 15 or 17 years that they come within 35,500,000 miles. The last time this happened was in 1909 and the next time will be in August of this year. At other times the inequality of their orbits and their speeds may put earth and Mars as far as 250,000,000 miles apart.

Day Side Seen.

"The fact that the orbit of Mars lies entirely outside the earth's orbit brings with it the great advantage that Mars always turns its bright or day side towards us, especially when it is opposite the sun. As it is then nearer to us than any other heavenly body except the moon, and is moreover in our night sky, this is why we can study it so well and know so much about it. We know, for instance, that Mars is a solid ball like the earth, only smaller, with a diameter about half the earth's. That it has days and nights and even seasons like ours, anly that its day is 37 minutes longer and its year nearly twice

as long as ours. "Its surface, according to Lowell, so more than half desert. It has white polar caps, which melt away in the spring, and which are generally ad everywhere.

Iowa Woman Admits



earth's. It has days and nights and even seasons like ours, only its day is 37 minutes longer and its year nearly twice as long as ours.

"Its surface is said to be more than half desert. It has white polar caps

mitted to be snow. It has, however few, if any, mountains, and an at mosphere rarer than any we could as the most disputed, surface feature, are its oases and canals. These last are fine, dark, straight, or curved lines all over the globe, and the habitability of the planets, es- the oases are their points of meeting. Nobody at all conversant with

"Another much disputed point conplanet comes near the earth. And cerns the temperature of Mars. In not without reason, because Mars is more like the earth than any other planet; we know so much more about it; and the champions that are fightnarrow limits of temperature. While some forms of life can be kept un harmed for indefinite periods at the absolute zero, this life is dormant and practically nonexistent, even with "In order to be able to form our the temperature somewhat above the

"With the thermometer at 212 de at issue, we must be thoroughly acuainted with certain facts, and also doubt if any kind of life whatever amiliar with the latest discoveries. can survive, except perhaps some on these facts, we must agree on we get to that, even at a few degrees the principle that the laws of nature above 100, all activity practically though the conditions and the in the very narrow limits of 60 de

Earth Temperature Fixed. "As direct measurements of the "Nobody of course will question this principle; but it cannot be used as an argument—first because science is concerned to know whether as a fact a planet is really inhabited, and secondly, if the nature of its life differentially from that on earth. So that if we see with our spectro-how can things grow? And the argument is clinched by the thinness of the Martian tmosphere, which is less than that above the eternal snows of our mountain tops.

"Pickering, however, warns us of life, at least in their essential deatures, to be the same all over is much more reliable, not of the temperature directly, but of its ef-This being premised, let us review fects. He says that snow is somedegrees in the daytime but drop it below the freezing point at night.

"Now what are we non-professionals "The second planet is Venus, at a to conclude? Certainly this; that be-

"There may of course be lower of miles from the sun, with a period of 687 days, or a year and 10 1-2 months of our reckoning. Outside of the orbit of Mars come the hundreds of small planets called asteroids, and outside of them, the large planets, Jupiter, Saturn, Uranus and Neptune,

ADVERTISEMENT. WAS BORN

Back Weak and Painful. Mrs. Miller Benefited by Taking Lydia E. Pinkham's Vegetable Compound

Rotan, Tex.—"I am writing to let you know how I have been benefited by taking your medicine. After

my second baby was born my back was weak andhurt ne continually, so I thought I'd try Lydia E. Pink-ham's Vegetable Compound as I had read so much about where it had nelped so many

helped so many women. I had been bothered with my back for over a year, and it would hurt me until I could not do my work, which is keeping house for three and cooking and washing dishes. I tell all my friends if they have any kind of female troubles to give Lydia E. Pinkham's Vegetable Compound a trial. You may use this testimonial if it will help any one."—Mrs. C. R. Miller, R. F.D. No. 1, Box 76, Rotan, Texas.

In a recent country-wide canvass of purchasers of Lydia E. Pinkham's Vegetable Compound over 121,000 replies were received, and 98 out of every 100 reported they were benefited by its use. For sale by druggists every where.

from 12,000 to 35,000,000 miles? can get through to Mars are light on the number of the searchlights, to build a big triangle of search and the cost? Of course not, such lights, hundreds of miles to a side, men are never practical. in order to show Mars that we on earth are intelligent. Will they con-tribute liberally to this fun? It is When Mars is nearest to us it turns many items necessary to success to 1,000 people attended the fourth an-

Drowning Her Stepson why? First, because we know how ence monthlies shows on its front dark or night side of the earth faces ple are intelligent, have our modern Rev. E. R. King of Ashland, for the stepson why? many years it took to gradually send cover in March a battery of search Mars, so that our light signals might inventions, are expecting us to signal mer pastor of the Disciples church of ur radio signals to greater distances. lights directed to Mars and sending be seen if the earth was not then in just when we take a notion to do Cozad, delivered the address of the Ownership league of Aurora, recently In the beginning only from one room word signals through them, on the line with the sun and lost in its so, can and will answer back promptto another, and now almost halfway method of our broadcasting stations, glare, around the earth, 12,000 miles. And which a receiving telescope on Mars shall we at one effort make the jump is to catch on a photo-electric cell and reconvert into sound. Great idea, begins to face us, but then the distance is increasing rapidly. And the for men of intelligence."

Hanna, grand junior warden, were its organization and is beginning its organization and is beginning its organization and is beginning its organization. "Secondly, the only signals that sure! Did the professor ever figure signals. Some people have proposed the power required to operate them,

"Fourthly, such day dreamers do not

version, but seriously to expect to receive signals in return betrays little acquaintance with real facts. And "Thirdly, one of our popular Sci-

fact that both earth and Mars turn on their axes nearly but not exactly equally fast, makes the problem more intricate than these visionaries would like to

so, can and will answer back prompt-ly in a way that we can perceive, secretary of the grand lodge of Ne-tion when the present franchise of

1,000 ODD FELLOWS
Radium plaided dresses of large president; Harry Toof, vice president C. C. Fraizer, secretary-treasurer, and tight belted effect—long tailored these officers, together with F. A sleeve finished with narrow brown Thomas, T. M. Scott, J. J. Refshauge

LEAGUE FORMEL

"When the earth and Mars separated and dozens other essential prerequistrances of the Nebraska Gas and Electric countries, a small portion of its dark side ites. Signaling to Mars is a fit subpresident of Rebekahs, and A. E. pany has expired, has now perfected

The officers are: Einer Peterson

Saturday Store Hours—9 A. M. to 6 P. M.

Welcome Nebraska Editors BURGESS-NASH GOMPANY.

To Omaha and Our Store Cool, Summery Nightgowns Four Special Groups French Gowns \$1.95

Hand-made French gowns of sheer nainsook, linen finish, made with embroidered, scalloped edges and motifs. These gowns will launder beautifully, and every stitch is hand sewn. Sizes 16 and 17.

Porto Rican Gowns \$2.25

Hand-made Porto Rican gowns in the pastel shades have hemstitched edges and hand-embroidered flower designs. Sizes 16 and 17.

Imported Voile Gowns \$2.95

Dainty voile gowns in the lingerie shades and white are made with Jenny or square neck lines. Lace trimmed

Fine Nainsook Gowns \$1.25

Special for Saturday Milanese Silk Gloves

For fall wear these 16-button, heavy quality Milanese silk gloves in colors to match the season's costumes are very suitable. Five rows of embroidery stitching add to the attractiveness. All sizes. \$2.50 value.

Sale of Luggage

Luggage to the fore—it's the usual thing for a contemplated trip-extended or short. And with the Labor Day week-end in mind, this timely special offering of traveling bags and hat boxes is particularly interesting.



Women's Union Suits

"Colgate" and "Valora" sleeveless union suits of light weight lisle with French band tops, loose and tight knees.

The Silk Scarf Flaunts Its Colors in the Winds of Fashion

Exquisitely colored scarfs are these of soft crepe de chine, lovely enough for wear with one's daintiest frocks. Some are tie-and-dyed, other are plain in color with contrasting \$1.59 borders. Priced very reasonably at.....

Hats for

Occasion

combinations of velvet with

silk and taffeta.

Every

Wear

Kiddies' Sox

19c

2 pairs for 35¢

Our entire stock of kid-

dies' half sox with values to

dies' half sox with values to 35c and 40c are included in this lot. Of fine liste or glos silk in beige, camels hair, deer, rose, white, champagne, blue, pink, buttercup, lavender, with plain cuff tops. Also white with

cuff tops of contrasting colors. Sizes 5 to 71/2.

Toilet Goods

60c Sempray Jovenay.... 39¢ 25c Qui Sait Talcum Powder

\$1.00 Holman's Toilet Water

Bristle Tooth Brushes, 29¢ \$2.00 Hughes' Ideal Hair

Brushes \$1.29 \$2.00 Ebony and Turtle Ebony Back Hair Brushes with 11

Main Floor

rows of pure



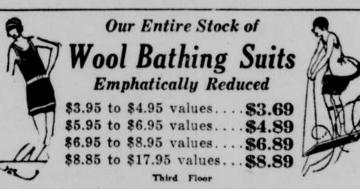
Fall Fashions in Frocks

Failles, Bengalines and Ribbed Silks are the very essence of smartness—we are showing a collection of clever models fashioned of these silks. Buttons are the favorite tailored trimming. Tunics of all kinds are in evidence and many models are rich in fur trimmings of beaver, muskrat and mink. Other silks are

Patio Crepe Satin, Brocade, Chiffon Velvet, Satin Face Crepe, Crepe Elizabeth, and Satin and Georgette Combinations.

Trig street frocks of the sort you will see worn all season, wherever smart women gather, are the wool frocks, superbly tailored, beautifully finished. The new stripe fabrics-Reviera Barr, Loreline and Rayoline are decidedly new and tend to give a slimness of line. Other materials in favor are

Twill Bloom, Charmeen, Patou Crepe, Lustrella. Third Floor





Sale of Women's Silk Hose

FREE Sample of KOTEX

Ready to help-yourself table. Full size

packages for sale to those who need no

Odd lots and discontinued lines. Every pair first quality. Our best makes are included—"Granite," "Lehigh," "Propper," "Mojud," "Holyoke, "Themis," "Merit' and "Kayser."

All silk chiffon or regular weights. Also white hose with fancy embroidered clox of contrasting colors. In light fawn, medium gray, silver, pole gray, gunmetal, black, African brown, nude, new tan, log cabin, gold, noisette, cinnamon, beige, banana, Oriental pearl. \$3.50 to \$4.50 values.

Sheer chiffon or regular weight, some all silk, others with lisle tops. Full fashioned. In white, black, log cabin, African brown, silver, navy, dawn, poudre blue, medium blue, Yu Chi, French beaver, tan bark. \$1.95 to \$3.00 values.

All silk from top to toe, some plain, others with fancy lace or embroidered clox, in plain or contrasting colors. In white, black, cordovan and silver: \$4.50 to \$7.50 values.

\$2.45 Silks, Yard \$1.39

Included are Arab prints, striped tub silk, printed pongee, sport satin, knitted silks. Not all colors.

\$1.95 Silks, Yard 95c

Included are tubular vestings, wash satin, knitted crepe, colored messaline, colored taffeta. Not all colors included. Second Floor

Boys' Wash Suits **Greatly Reduced**

Oliver Twist, middy and Balkan style suits in all the wanted colors, comprise this roup. All are well made and will withstand hard wear. Sizes Sizes 2 to 8.

In this group also are broken lots of our better grade wash suits. These are suitable for dress as well as for school wear. Sizes 2 to 8.

Children's "Columbine" Union Suits Sleeveless suits of fine light weight lisle, with French band tops, cuff or bloomer knees and drop seats. Sizes 2 to 12. 85c values.......... 59c

Second Floor

All Our Bathing Caps 1/2 Price

Our entire stock of bathing caps, every conceivable style and color, is included in this 1/2 price sale. These have sold regularly from 25c to \$1.50.

Depicting

The New

Fall

Styles

Women's Handkerchiefs 50c

Dainty white and colored linen handkerchiefs with handblocked print borders. Some are finished with 1/2 and 1-inch hems, others with footing and hand-embroidered corners. Main Floor

> Sale of Houseturnishings

Dozen Quart Fruit Jars

6 Aluminum Cups Serving Trays Garbage Pail Earthenware Casserole Mirrors O'Cedar Floor Wax Refrigerator Pan Colored Glassware 24 Jelly Glasses Light Cut Glassware Lunch Kits 12 Rolls Toilet Paper Glass Jug 4-piece Canister Set Flour Can 3-piece Cutlery Set Wash Tub 4 Mixing Bowls Enamelware Aluminum Ware Fourth Floor

Specially Priced Smart Hats for Miss and Matron

On Sale Saturday

Style, quality and value are combined in this collection of smart millinery. Charming, dignified models, developed of velvet and

effects of silk and novelty pins give the note of distinction that is seldom found in merchandise so economically priced.

Smart bows, large fan