

STAR GAZERS LOOK FORWARD TO BIG SCHEDULE THIS YEAR

Six Comets and Two Eclipses of Sun on Program.

Washington.—The sky schedule for 1933 will be of great interest to star gazers, says the American Nature association. Six periodic comets are due for return engagements. Two eclipses of the sun are on the schedule also. Then, too, Mars which is probably of more popular interest than any other planet because of its possibilities as an abode of life and its fascinating and varied surface markings which indicate seasonal changes, is due to come to perihelion on March 1. Perihelion is that point of the orbit of a planet or comet which is nearest to the sun. This is one of the less favorable oppositions, since the planet is 62,700,000 miles distant from the earth at nearest approach on that date.

Nevertheless astronomers interested in the physical phenomena of the planets are preparing to keep this little neighboring world under scrutiny before and after the date of opposition, and we may expect to hear more than usual about the ruddy planet Mars within the next few months.

Six Comets Due.
As to the comets, Nature Magazine lists them by the names of Brorsen, Pons-Winnecke, De Vico-Swift, Giacobini, Finlay and Holmes. The first was discovered by Brorsen. It was last seen in 1879 and is due to come to perihelion again in November.

The Pons-Winnecke comet has a period of nearly six years and was discovered by Pons in 1819. It is due to return again in May. The De Vico-Swift comet returned in January. Giacobini's comet was discovered by that astronomer at Nice in 1900. It is due at perihelion in June. Finlay's comet is also due in June. Holmes' comet was discovered independently in 1892 by Holmes on November 6 and Davidson on November 9. It is due in August.

There will be two eclipses of the sun, both annular. An annular eclipse is one in which the relative positions of sun and moon are such that the moon falls completely to cover the solar disk and there is a thin annulus or ring of light surrounding the dark lunar disk at the time that would correspond to mid-totally of a total solar eclipse.

Eclipse of Sun.
The first eclipse will occur on February 24. The partial phase will be visible in the southern and central part of South America, all of Africa, except the extreme northwestern part, the western part of the Mediterranean, Greece, Asia Minor, Persia and Arabia. The annulus in this eclipse is visible within a very narrow path with a maximum duration of only 1 minute 55 seconds. This path crosses South America, near the fortieth parallel, the South Atlantic, and from Stephanieville, Africa, to Aden in Arabia.

The next eclipse will occur on August 21. The partial phase will be visible in central and eastern Europe and northeastern Africa at sunrise, later in the morning, or near midday, in Siberia, central and southern Asia, and in the afternoon in the Philippines and East Indies. In Australia the eclipse will occur late in the afternoon or at sunset. The path of the annulus, also narrow in this eclipse, passes from Alexandria, in Egypt, over Bagdad, across India, grazing Delhi and Calcutta, across Siam to Borneo, and north Australia, ending on the coast of Queensland at sunset. The duration of the annular phase will be only 2 minutes 15 seconds.

"Experimental Baby" at Wellesley



The students of Wellesley college, Massachusetts, department of education, are now studying child development, with nine-months-old Elliot Morton Sterling as the "experimental baby." Elliot is the son of Mrs. Morton B. Sterling, an instructor of the department. The mother has taken movies of the child every day since he was one month old, to show his progress.

Self-Estimation

By THOMAS ARKLE CLARK
Late Dean of Men,
University of Illinois.

"For an artist's contemporaries," Paul Bourget speaks in the genius of Flaubert, "cannot measure him with exactness, neither can he measure himself. Would it not have surprised Voltaire to learn that he would live only through 'Candide' and Diderot that his work would reduce itself to the 'Neveu de Rameau'—two pamphlets scribbled in a few days, the second not even published by its author?"

Would it not also have surprised Lincoln to have known that the few sentences scribbled on a scrap of paper on his way to Gettysburg and carried in his hat would mark him through all time as a master of English style and the writer of a classic? A successful executive once said to me that when a man boasted to him that he could do any specific thing well, he was at once pretty well convinced that that particular thing the man was more than likely to do differently.

A writer who is well known through-

Woman Speaker



Mrs. Minnie D. Craig is a good housewife in addition to being the first woman speaker of the house in the history of the state of North Dakota, and possibly in the history of the United States. She is shown drying dishes in her home in Bismarck.

out the country once said to me that the composition upon which he had put the most enthusiastic work and which seemed to him the finest thing he had ever written, he had never been able to sell. No one but himself could find in it any particular enjoyment.

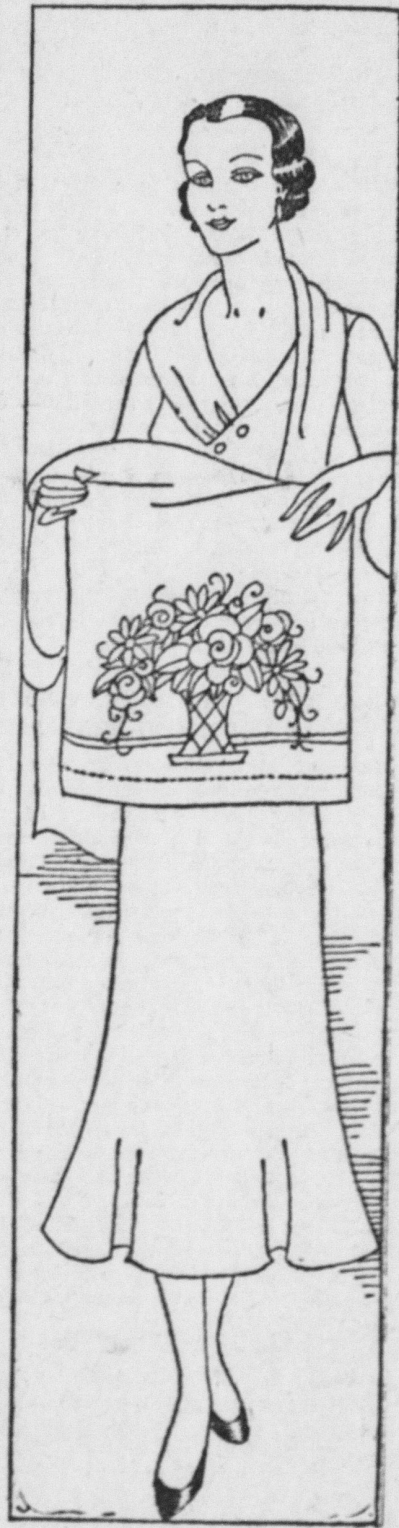
I recall that when William E. Curtis was writing a daily letter, and a most interesting one, too, to the Chi-

The Household

By LYDIA LE BARON WALKER

Etching embroidery is a type which suits the incoming vogue of black and white in decoration. It is an old-time work as is the case with all needlecraft, its novelty consisting in modernized application of ancient stitches. This revival of modes is not confined to needlework, but applies to all the arts.

Historical Notes
Originally etching embroidery was called print work. It was very much in vogue early in 1800, making it over one hundred and twenty-five years since its inception. It was modified in its revival half a century ago, and it is in this modified form that it is used



A Table Runner With Etching Embroidery.

today. At the beginning it was an elaborate needlework combining chiefly sepi tinted grounds with various stitches in black such as outline, French knots, satin stitch, crewel stitch, etc. The intention was to reproduce printed pictures through these two mediums, stitchery and colored washes. Some of this early print work was choice. Pictures done in the embroidery were framed and hung with genuine prints and etchings on walls of rooms.

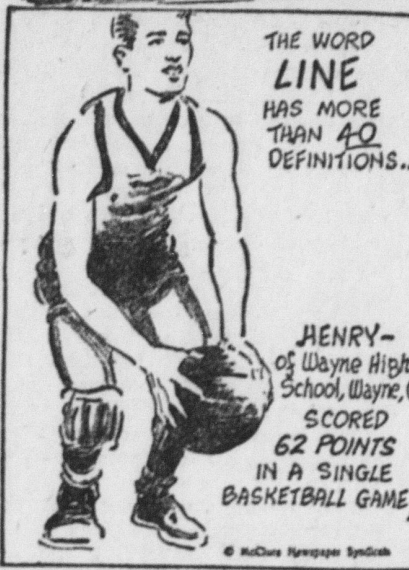
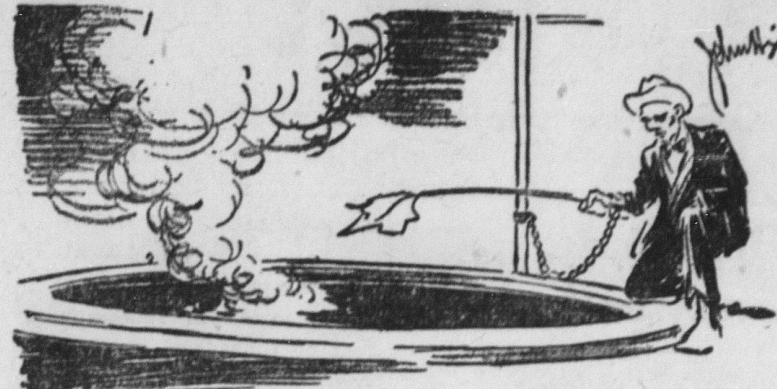
Later on pictures were embroidered in outline only and it is this fashion which today is known as etching embroidery. When the stitches are fine and the design suitable these adapted etching embroideries also make delightful pictures to frame. The new vogue, however, is as much for ornamenting napery, cushion covers, and other household linens as for pictures.

Color Schemes
The black and white vogue is followed whether the medium is black and foundation white, or the reverse, notwithstanding the fact that the for-

icago Record-Herald, from the remotest parts of the earth, our neighbor's hired man who lived just across the road, announced that Mr. Curtis' job was the sort that he felt eminently qualified to take up. It didn't seem difficult to him to fill two or three columns a day when one had nothing else to do but travel about and enjoy himself. He had never written a line; he didn't know how to spell the simplest words, yet he seriously thought he could do the job.

What do you think you could do best?
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ODD THINGS AND NEW—By Lane Bode



WNU Service.

mer has historic precedence. Should a foundation be black, as for instance, in a satin sofa cushion, use a light transfer paper and embroider the design in white silk. The fashion is not followed when other colors than black or sepi are employed, but this does not bar the design being carried out in any preferred color schemes to harmonize with decoration of any special rooms.
© Bell Syndicate.—WNU Service.

GABBY GERTIE



"The latest thing in men's clothing is wife's pilfering mitt."

Turns Pro Wrestler



Stanley J. Sokolis, captain of the University of Pennsylvania's football team last fall, has turned professional wrestler and will try to earn as high a ranking in the mat sport as he did on the gridiron. He will not quit college to follow his new profession.

Boucle Knit Suit



A new version of that favorite for country club and resort wear, the knitted boucle dress, is expected to be popular this spring. The puffed sleeves and yoke treatment of open weave are new details.

A Strange Case

Cleveland.—Students at Case university would rather have their basketball than eat. They recently gave up their annual All-Case dinner and put the money into the athletic department treasury for support of the cage squad.

"Electric" Palate to Give Dope on Food

New York.—An electrax, or "electric palate," that tastes and gives readings of the acidity, or juice character and also indicates the ripeness of apples, oranges, lemons, and other fruits and vegetables, together with the recording of the acid contents of tea and coffee, has been developed by R. C. Hitchcock, electronic engineer. It was demonstrated for the first time here recently.

This latest scientific achievement is so sensitive that it records the action of one-millionth of an ampere, or about one-tenth the "wing power" of an ordinary horse fly and is 100 per cent more sensitive than any of its type now on the market.

Previous recording meters of this sensitivity were expensive and not readily portable. The electrax was primarily designed for the measuring of the minute currents that flow in photo-electric tube circuits.

THE CHEERFUL CHERUB



City of Philadelphia in Biblical Records

Although there is no evidence that Penn had any knowledge of the vanished Egyptian city of Philadelphia, it is nevertheless possible that the name of his settlement derived from the same gay and dissolute Ptolemy Philadelphus who gave the Egyptian city its title, for there was another Philadelphia, also named after him. This city was in eastern Palestine. It has fallen into ruins, but remains both of pagan temples and Christian churches survive.

There is no definite record as to just how Penn came to choose the name "Philadelphia" for his settlement, but Philadelphia is mentioned in the Apocalypse, or Book of Revelations, as one of the "seven churches of Asia," and it is possible the founder of Pennsylvania, finding the name there, was struck by its connotation of "Brotherly Love."

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