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LOCAL SCOUT LEADER AND SONS GET AWARD

(Continued)

The other son, Denton, has been a to be located at the south-east corner leader of the Flying Eagle patrol of Sunset Park. his 14th year.

Are in Camp

troop are now at the new Wisconsin at the site of the old pumping stacamp, Ma-Ka-Ja-Wan, in charge of tion, will occupy approximately 28,assistant scoutmaster, Lloyd Wight- 000 square feet of which about 25,000 man.

comprised of the communities of Wil- being built of reinforced concrete and mette, Kenilworth, Winnetka, Hub- brick. All the exteriors extending bard Woods, Glencoe, Ravinia, High- above the surface of the ground will Glenview, Northbrook Deerfield, Ban- brick. The architecture of the latter nockburn, Libertyville, Mundelein, has been carefully studied. The fin-Rybolt is the scout executive and Mr. and it is expected that the ensemble Carl McManus is the assistant scout will be most effective. executive.

Picture on Cover

An interesting picture of the presentation of the awards to Mr. Smith and his two sons by Morton J. Traub, chairman of the Highland Park committee of the North Shore Area council appears on the cover page of this newspaper.

Mrs. Frances Conrad Dies Quite Suddenly Wednesday at Home

(Continued from page 3)

call. There are eight grandchildren living.

Park.

Mrs. Conrad was a woman of sterling character, devoted to her home. and family and giving always her best thought and effort for their welfare. She was a sincere christian, kind and generous, sympathetic and charitable, good to everyone, and her friends were legion. All who knew her were impressed by her beautiful character and kindly manner, and by all her death is deeply regretted. The relatives have the sincere sympathy of the entire community at this time.

Funeral services will be held at the residence at 2:30 p.m. Friday, and 3:30 p.m. Memorial Park Cemetery chapel.

Ivanhoe Home Coming To Be Held July 18

The annual Ivanhoe home coming and picnic, the outstanding event of the year for many residents of Fremont and Libertyville townships, will be held in the Dady and Decker picnic grounds at Gages lake on Thursday, July 18, according to an announcement made by the committee in charge.

any time have lived in the Ivanhoe school district or affiliated with the Ivanhoe church, are invited to attend the picnic.

IMPROVEMENTS AT WATERWORKS PLANT

(Continued from page 3)

and the Beaver patrol and is now the The new filtration plant and pumptroop scribe. He reaches eagle rank ing station will not only represent with 33 merit badges at the close of the last word in efficiency, but the structure has been designed to give a most pleasing architectural effect. The majority of Scouts of this The plant, which is being constructed square feet will extend above the sur-The North Shore Area council is face of the ground. The structure is land Park, Highwood, Lake Forest, be of brick, or of concrete faced with and Diamond Lake. Mr. Myron C. | ished plant site will be landscaped

Intake Well

Describing the new plant more in detail, the first unit in sequence of operation is an intake well, approximately forty feet deep and sixteen feet square (inside dimension). This well is divided into four compartments, two of which will receive water from the lake, while the remaining two will deliver water to the plant. The compartments are so arranged that two of them can be out of service for repairs without effecting the operation of the station.

From the intake well the lake water, or raw water, as it is called, is delivered by pumps to an aerator, which is a basin in which the water is shot into the air in a fine spray and then collected again when it falls Other relatives surviving are one to the floor. The purpose of this probrother, John Hemmer of Chicago, cess is to freshen the water by conand four sisters, Mrs. Henry Nei- tact with air, and it has the effect meyer, Mrs. Theodore Juergens and of lessening objectionable tastes and Mrs. Josephine Haskell, all of Chi- odors which result from the presence cago, and Mrs. Schliting of Highland of microscopic vegetable organisms which abound in lake waters in the summer time.

Operation of Filter Plant

From the aerator the water passes to mixing basins, or chemical reaction chambers, where a very small quantity of chemical coagulant is added and thoroughly mixed with the water by means of electrically-driven paddles. The chemical coagulant, which is added in the proportion of about one teaspoonful to every onehundred gallons of water, has the property of combining with the earth salts already present in the water and producing tiny gelatinous flakes. These flakes have the power of attracting and holding the finely divided particles of earth which are present in suspension in the water when we say it is muddy. They also attract the bacteria, which become attached to the flakes.

By the process just described, almost all of the fine particles of earth and almost all of the bacteria, which the water has brought in from the lake, have been collected and attached to the tiny gelatinous flakes produced by the coagulant. The water is next passed through settling basins, which are concrete tanks of such size that the passage through them requires All families or individuals, who at approximately three hours. This means that during the passage the water is moving very slowly. This is done in order to give the tiny flakes an opportunity to settle to the bot-

of the tanks.

Finishing Touches

filters, through which the water must at that point. pass before being pumped into the mains. These filters consist of sand beds 30 inches thick, supported on ment was designed by Pearse, Greedownward through the sand at a vel- engineers, of Chicago. The construcocity of about three inches in minute. tion work which is being done by con-As it does so it leaves on the surface tract, is under their supervision. They of the sand such particles of suspend- are represented in Highland Park by ed matter as failed to settle in the Mr. George B. Prindle, as resident ensettling basins. These particles build gineer, and Mr. S. M. Clarke, as asup a little "mud deck" on the surface sistant. the sand. The thicker this deck becomes, the more perfect the filtering effect of the sand bed.

At intervals the sediment accumulated in the settling tanks, and the sediment collected on the surface of the sand beds, must be removed. The methods employed are very simple, but the limits of this article do not permit describing them.

Further Process

After the water has passed through the filters it is so nearly free from suspended matter that only the most delicate laboratory test can detect any present. The bacteria have also been reduced almost to the vanishing point. As a factor of safety, another position. however, a small amount of chlorine gas is added to the finished water, to make doubly certain that no objectionable bacteria reach the mains.

From the filters the water flows into the filtered water reservoir under the plant. This is a huge covered tank, built of concrete in the shape of a room. In size it is approximately 100 feet long by 95 feet wide and 20 feet deep. It holds 1,250,000 gallons.

New 16-Inch Main

the clear water pumps pump the fil- father who thinks that his sixteentered and sterilized water into the mains. It will reach the distribution system through the three existing trunk lines and through the new 16inch main which is being built as a was sixteen himself.

tom of the tanks. At the outlet end part of this improvement. The new of the tanks the water is taken out main will extend from the plant near the surface, and is very clear through Egandale road to Vine avand very free from baceria, as most enue, and west on Vine to Midlothian; of the sediment and bacteria have thence south on Midlothian to Sunsettled with the flakes to the bottom set Park, in the south-east corner of which the new elevated storage tank is located. From the new tank the The purification of the water has main will extend to the corner of now been nearly completed. The Green Bay road and Central avenue finishing touch is added by the sand and tie into the existing water mains

Engineers in Charge

The present waterworks improvebeds of gravel. The water passes ley & Hansen, hydraulic and sanitary

Hints To Motorists

Now that you are driving to the beaches again, remember, if you get stuck in the sand, you can often pull out by deflating your rear tires. But pump them up again to the right pressure as soon as you are on the road.

If, when running in high, the gear-shift lever is too close or otherwise in your way, you can have a mechanic bend it so that it will take

When taking a demonstration ride in a car you are thinking about buying, test the pressure of its tires yourself. Sometimes tricky salesmen keep the tires under-inflated so the car will ride easier, and sometimes they over-inflate them so it will steer easier. What you want to know is how the car performs when the tires are right.

From the filtered water reservoir It's too bad the old-fashioned year-old son is the most foolish thing the world has produced, can't remember back to the days when he

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