SOCIALS-

(Continued from page 4) awarded a Special \$5 prize in the Third Annual National high school Photographic Awards contest. This is a nation-wide picture taking competition, with entries from every section of the country.

CIMBALO-CECCOTTI WEDDING

Gowned in white marquisette made with a train, and wearing a fingertip veil which hung from a half halo of orange blossoms and carrying white carnations, Miss Betty Jean Cimbalo, daughter of the Jack Cimbalos of 1632 Broadview avenue, became the bride of Aurelio Ceccotti, son of Mr. and Mrs. Dante Ceccotti of San Franeisco, California, formerly of Highwood. The Rev. O'Connell heard the exchange of nuptial vows at 10 o'clock in the morning at the Immaculate Conception church. The bride's father gave her in marriage.

Miss Rena Mattei attended the bride as maid of honor. Her gown was of pale green marquisette and she wore a crown of matching braided tulle. Her bouquet was of yellow carnations. The bridesmaids, Miss Ida Ceccotti, sister of the bridegroom, and Miss Marietta Mocogni, and the junior attendas the name of the baby daughter tage supplied, such as batteries, tor by influencing them with an ants, Frances Cimbalo, sister of born on April 29 at the Highland which apply bias voltages to the electric field imposed from the the bride, and Joanne Cimbalo, Park hospital to Mr. and Mrs. two points. The power actually outside without actually contacting quisette. Their bouquets were also avenue. The little girl has a brothan a tenth that used by an ortical implications of such a possiof yellow carnations. The crowns ther, Richard, 8. of braided tulle which they wore, matched their gowns.

Rudolph Scasselatti served the ia, uncle of the bride, and J. Bartolai, ushered.

Enea Picchietti, accompanied by Miss Rose Galassini, sang.

The bride's mother wore a navy blue dress with pink hat and navy and pink accessories. Her corsage was of pink roses. The bridegroom's mother was in grey with brown accessories and a corsage like that of the bride's mother. The bride's maternal grandmother chose a navy blue dress and hat, complemented by a corsage of white carnations.

A breakfast for the bridal party and immediate families followed at the home of the bride's parents. Over six hundred attended the reception at the Masonic Temple, held that evening.

Mr. Ceccotti and his bride, who are now honeymooning in northern Wisconsin, will reside at 571 Central avenue.

Among the out-of-town guests were the maternal grandparents, the Nello Gollettis; uncles and children, and Joseph Golletti cousins, the Norman Feltons, all of Freedom, Pennsylvania; and an uncle and aunt, Mr. and Mrs. William Cimbalo and their son-inlaw and daughter, the Robert Vecceros, all of Memphis, Tennessee.

TO ENTER GOLF TOURNAMENT

Among the entries for the Illinois State Amateur Golf Chamionship at Danville Country Club, held July 7-11, are Nello and Julio Campagni of Highwood.

BACK HOME

Home from a two weeks' trip to the west coast are the Anthony Arnolds, their son, Ed. and daughter, Gladys of Broadview avenue. They spent five days of their vacation visiting with the Ed. Koebelins of Banning, California, formerly of Highland Park.

MRS. CHARLES BOEHMER VISITING HERE

Mrs. Charles Boehmer of Charlotte, N. C., former resident of Highland Park, is visiting Mrs. Charles Brace of 325 Bloom St. She hopes her old friends will get in touch with her. Mrs. Brace's telephone is H. P. 1946.

Boys Outing Club Plans Trip To Cubs Game

On Tuesday, July 20th, the Boys Outing and Sports Club, which is part of the Playground and Recreation Department summer program, will go to Wrigley Field to watch the Cubs play. The cost of the trip and the game is \$1.25.

All boys in Highland Park are invited to go on this trip. Sign up with Ken Crowell, director of the Sports Club, or at the Community

LOOK WHO'S HERE!



Mrs. Hilton, the former Mary Frank Raus of Westboro, Wisconbridegroom as best man, Harry sin, and Mr. Hilton is the son of Golletti, of Freedom, Pennsylvan- Mr. and Mrs. Wilmer Hall of Chi-

> Mr. and Mrs. Ortwin Schimmel (Jean Cady) of 339 E. Park avenue became the parents of a son, Kim Cady Schimmel, on July 2 at the Highland Park hospital, The Schimmels are also parents of another son, Eric "Rickey," one year old. The H. W. Cadys of the same Park avenue address and Mrs. Rudolph Schimmel of Toronto, Canada, are grandparents.

On July 3, Mr. and Mrs. Willis Deerfield, became the parents of a daughter at the Highland Park hospital.

A daughter arrived at the High-Juy 5, for Mr. and Mrs. Fred Shelton of 389 Roger Williams avenue, in various ways. Mrs. Shelton is the former Lucille Bowman. Grandparents are the George Sheltons of Laveen, Arizona, formerly of Rice street, and Mrs. Ralph Bowman of Butler, Illinois. The baby has been named Linda Lucille.

Melt down your table scraps when the oven is lighted for other cooking, then salvage and turn over the grease to your meat dealer for cash.

TELEPHONE

(Continued from page 2) electrical speech waves traveling between two telephones, a function now performed by vacuum tubes

In another, the audience heard a radio broadcast from a set constructed entirely without vacuum tubes, but using instead several of the tiny Transistors to provide amplification.

A Transistor was also used to as an oscillator.

Because of its lack of a heated form some new functions.

semi-conductors amplify and thus smaller device that could perform tector type, familiar to radio ama- versity laboratories. teurs, are made to the semi-con- Further Technical Details Follow ductor only two thousands of an inch apart. Input power delivered plications of the prevailing theory to one of these contacts is ampli- of electrical conduction in semified at least 100-fold and transmit- conductors, Dr. Shockley was able ted to the other terminal where it to predict that it should be posis delivered to an output circut. sible to control the meager supply Barbara Jean has been chosen The Transistor is energized by vol- of electrons inside a semi-conduc-Jack Hilton of 632 Onwentsia consumed in the Transistor is less the material. Realizing the pracdinary flashlight bulb.

Ann Rau, is the daughter of the be understood in terms of the dis- able to secure postitive results. covery made by Dr. Bardeen and The electrons seemed to get Dr. Brattain that the input point trapped in the surface of the mais surrounded by an "area of in- terial and did not behave just as teraction." Within this area the anticipated. electronic structure of the semi- This part of the problem was conductor is modified by the input tackled on a theoretical basis by current. Now, if the output point Dr. Bardeen. He developed a is placed in this area, the output theory of what happened at the current can be controlled by the surface which was able to explain input current. This control of out- satisfactorily many of the obput current by input current is served facts and which led to furthe basic mechanism of amplifica- ther experiments carried out in

years been regarded as an ideal they invented the Transistor. field for research at Bell Tele- Transistor action depends upon phone Laboratories because of the fact that electrons in a semitheir practical possibilities and conductor can carry current in two Johnson of 652 Chestnut avenue, rich scientific interest. These ma- distinctly different ways. This is terials, whose electrical properties because most of the electrons in are intermediate between those of a semi-conductor do not contribute metals and insulators, offered to carrying the current at all. Inparticular promise of useful elec- stead they are held in fixed positrical applications, since their tions and act as a rigid current to land Park hospital on Monday, ability to carry electrical current bind together the atoms in a solid. can be changed over wide ranges Only if one of these electrons gets

the ability to conduct electrical number of ways, can current be currents, rely for conductivity on carried. If, on the other hand, one the presence of current-carrying of the electrons normally present electrons. In metals, which are in the cement is removed, then the good conductors, there is a ratio of "halo" left behind it can move approximately one current-carry- like a bubble in a liquid and thus ing electron to every atom. In carry current. insulators, there are practically no In a Transistor made of semisuch electrons and therefore little conductor which normally conducts conductivity.

In semi-conductors, such as silicon and germanium, some metallic oxides and other compounds, there

carrying electron for every million point, which is at a low positive work. atoms. But-and this is the signi- voltage, and out of the output ficant feature—this number of point, which is at a higher negative structure of the materials. Hence the input current and collected by Review. the current flowing through the the output point, semi-conductor can be controlled.

Transitor, varying conductivity in scientific research is coming more semi-conductors was employed in and more to be recognized as a rectifiers, such as the copper ox- group or teamwork job. This is generate a standard frequency ide and selenium rectifiers, and true not only in industrial research tone, thus demonstrating its role the silicon detector. Bell Telephone but, to a rapidly increasing degree, Laboratories have for a long time in academic research. There conbeen active in the development of tinues within the group structure, cathode delay and other differ- semi-conductor rectifiers. Before however, ample opportunity for ences, the Transistor can also per- the war they had developed silicon individual work. The Transistor detectors for use in microwave represents an outstanding example The Transistor answers a quesradio apparatus and these were of brilliant individual achievement tion scientists have been ponder-supplied for use in early wartime and emphasizes the value of basic ing for many years how to make radars. Largely as a result of radar interest, research and deprovide a simpler, more rugged, velopment on semi-conductor point-contact rectifiers and the the functions of a vacuum tube. phenomena involved in their op-In the Transistor, two point con- eration have been stimulated at tacts of the "cat's whisker" or de- other industrial and several uni-

In critically examining the imbility he devised some experiments The amplification process can to test his hypothesis but was un-

collaboration with Dr. Brattain, In Semi-conductors have for many the course of these experiments

out of place, or if another elec-Those materials, like any having tron is introduced in one of a

only by the extra electron process,

carriers may be varied 1,000-fold voltage. The area of interaction is or more by changing the electronic produced by "holes" introduced by

In announcing the Transistor, Prior to the invention of the Laboratories pointed out that

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may be as few as one current- current flows easily into the input research in an industrial frame-

Scientific publications relating to the Transistor will appear in a forthcoming issue of The Physical

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The case of the missing witness

"Getting the message through" is a tradition with telephone people. And three Joliet operators lived up to it recently in a "needle in the haystack" search that spanned half a continent

The three operators were asked by a Joliet attorney to put through a call to a man named L- C- G-. Mr. G-was a witness to the will of a soldier killed in action during the war. He had to be

ound to authenticate the will which left everything to the soldier's

was to locate him among 140,000,000 people in the-U.S. And they did!

They began their "manhunt" by calling Mitchell Field, New York, where Mr. G—had signed the will. They called Air Force Headquarters in Washington. They

called many other places until finally they reached the Demobilized Persons Record Department at St. Louis. There,

they found that an L-C- G- was listed as residing in the little town of Crawford, Mississippi.

Crawford is a quiet place where nearly everyone knows everyone else And as the call from Joliet came in, the Craw-

ford operator glanced out the window of her exchange and there, walking past, was Mr. G- himself!

"Mr. G-," she called out the window, "I have a telephone call for you from up north!"

The case was closed. An unusual case, perhaps. But you probably could tell similar stories about operators "getting your mes-sage through." ILLINOIS BELL TELEPHONE COMPANY.

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