SURPRISES TO BE GIVEN ON TIMES NIGHT

Victor Herbert Ensemble and Nick Lucas Will Broadcast.

Surprise night will be observed Friday night on the Indianapolis Times radio program over WFBM, Merchants Heat and Light Company.

There will be many surprises, but a few of 'em have leaked out.

The Victor Herbert Ensemble of this city, which has become a regular institution in this city after appearing on four of The Times' programs, has arranged four great orchestral groups of classical and semi-classical numbers.

Appeal to All

The ensemble has selected music which appeals to the entire family. Many requests have been received and much of them were for the heavier compositions.

The ensemble has arranged a program for this Friday night which will appeal to classical muical lovers as well as those who enjoy the lighter tunes.

Nick Lucas, rated as the leader in guitar playing and singing of crooning melodies, will be a guest through the courtesy of the Circle Theater, on The Times program.

After Theater

Lucas will not come to The Times studio at the Severin Friday night until his last appearance of the evening at the Circle. Lucas is now in his greatest triumph at the Circle.

So hear Lucas in person at the Circle this week and then catch him around 10:25 p. m. Friday on The Times program.

The Times is arranging several other surprise numbers.

So be prepared for another fine program Friday night.

FOR THE NOTEBOOK

The heart of a vacuum tube is the filament.

Only a high resistance voltmeter should be used to test condition of dry cells of batteries.

A crystal detector, as well as a vacuum tube detector, can be amplified to almost any degree.

A carefully installed indoor antenna will often give very nearly the same results as an outdoor aerial.

Experience and a little study of the art of tuning are necessary for the successful operation of any radio receiver.

The aerial or counterpoise must be kept well away from all electric light or power wires of any circuit of more than 600 volts.

With the ordinary receiver having three to five and one quarter ampere tubes, the 90 ampere-hour storage battery is all that is necessary.

Soldered joints in a receiver are better than loops over binding posts, because they insure better and more lasting contacts.

An aerial may go bad through a broken wire, broken insulator, sooty insulator, wet insulator (temporarily) or through touch ing objects.

A single circuit set is not so select as a two-circuit one.

A set does not have to be in a polished cabinet to give good results.

Corrosion in aerial and lead-in contacts is a common cause of poor reception.

The full amplifying efficiency of the tubes is never realized in a reflex circuit.

A loose contact or partly worn out "B" batteries frequently create disturbances that sound exactly like static.

When using battry charges it is absolutely necessary to connect the positive terminal of the charges to the positive of the battery.

A grid leak is essential to the proper operation of the detector tube.

Shielding, when improperly installed, introduces excessive losses in a set.

A storage battery is good for several years or more, depending on its careful maintenance.

By adding a few turns and increasing the distance between them, the efficiency of a loop will be increased.

STUDIO GOSSIP

The address of the President of the United States to be given at the annual dinner of the New York State Chamber of Commerce in the Waldorf-Astoria in New York this evening will be broadcast by the following stations. WEAF, WJAR, WTIC, WFI, WGR, WCAE, WSAI, WWJ, WOC, WCCO and KSD. The voice of President Coolidge is ideally suited for radio broadcasting and is one of the clearest to be heard on the air. The broadcasting will begin at 8 p. m. central standard time and continue one hour.

The Little Theater Society of Indianapolis is presenting one act plays every Friday evening from WFBM.

When S. L. Rothafel, the "Roxy" of radio fame, took a silver hammer in hand last Monday and struck the first blow at the wrecking of New York's old car barns at Fiftieth St. and Seventh Ave., he started the work of creating for radio fans one of the finest broadcasting studios in the world. For radio broadcasting is close to Roxy's heart, and not the least important feature of the new Roxy Theater will be the completely equipped and modern broadcasting studio which will be under the stage of the theater. Here, as soon as the theater is open, Roxy and the Gang wil conduct their weekly programs. His orchestra will number 110 musicians; his chorus 100 voices.

Members of the faculty of Union College at Schenectady, N. Y., are cooperating with WGY in its winter educational program. Weekly, on Tuesday night, a fifteen-minute talk is given and the series will be continued through the month of May. Prof. Peter I. Wold, head of the physics department, has completed a series of four talks on the electron, and future talks will be as follows: "Water Supply Engineering" and "Water Purification," by Proffl Warren C. Taylor; "The Development of Steam Power," by Prof. Mortimer F. Sayre; "Philosophy's Contribution to America" and "America's Contribution to Philosophy," by Prof. Harold A. Larrabee; "The Drama," by Prof. Edward Everett Halex and Prof. Raymond M. Herrick; "Of What Is Matter Made?" by Prof. Charles B. Hurd; "Organic Evolution," by Prof. James W. Mayor; "How Old Is the Earth?" by Prof. E. S. C. Smith; "Greek Government, Education, Science and Religion," by Prof. Harrison C. Coffin.

All characters in Shakespeare's famous grave-digger scene from "Hamlet" will be portrayed by a single actor, John Connery, as one of the headline attractions at KOA, Denver, Wednesday evening, Dec. 2. Connery formerly appeared with John Barrymore in this play and recently won wide favor with KOA's listeners in "The Man in the Stalls." Two one-act dramas featuring the KOA players are also billed. They are "The Twelve Pound Look" and "Passe." Artists taking part are Iris Ruth Pavey, director of KQA ployers; Otis B. Thayer, director of the Otis players; Gertrude M. Richards; Clayton C. Cowan and Clarence C. Moore. Musical interludes between acts will be provided by the KOA orchestra.

Jack Little, song writer, who entertained local listeners from WFBM several weeks ago, will be heard from Station WOC, Davenport, Iowa, the entire week of Nov. 22.

A condensed version of Shakespeare's "Taming of the Shrew" will be presented by the WGY Players under the direction of Ten Eyck Chay, Friday night, Nov. 20. In addition the Players will give a one-oct play, "The Violin Maker of Cremona," by Jerome K. Jerome. At 10:30 o'clock the pupils of A. Y. Cornell will give a recital.

More than a dozen soloists will be heard over KOA, General Electric broadcasting station at Denver, Monday evening, Nov. 23, during a two-hour program arranged by the Hattie Louise Sims vocal studios. Numbers are taken from works of Massenet, Brahms, Debussy, Saint-Saens, Verdi, Cadman and others. In addition to the KOA orchestra in instrumental selections, the following will be heard. Edward Wolters baritone; Susan Cleverly, contralto; Bert Dueringer and Richard Hynes, tenors; Mrs. Harry E. Bellamy, Pearl Grace, Mrs. L. O. Scott, Mrs. Marie Louisa Burns, Mrs. Anna Bliss Odlum and Mrs. Hannah Berry, sopranos and Ruth Meyer, piano.

Conductor Has Fine Library

E. E. Koerner

What is said to be one of the largest and finest individual orchestral libraries in the State is owned by E. E. Koerner of this city. Koerner is conductor of the Victor Herbert Ensemble, which has become a favorite in thousands of homes. The ensemble will play again on The Times' program over WFBM Friday night.

CALL LETTERS ARE GIVEN OUT

Assigned by Bureau of Telegraphic Union.

Radio call letters assigned under the rules of the International Bureau of the Telegraphic Union at Bern, Switzerland, are as follows:

Germany has all three-letter combinations from AAA to AMZ; the Dutch Indies, combinations from ANA to APZ; Norway, AOA to AWZ. Besides AOA to AWZ, Norway has LAA to LHZ and LWA to LWZ; Poland AXA to AYZ; Venezuela; AYA to AYZ; Esthonia, AZA to AZZ; France has F; Japan, J; Great Britain, B; Turkey, TAA to TEZ.

Three and four letter combinations from KDA to KZZZ and all that begin with W and N belong to the United States. The Government reserves for its own use combinations that begin with N and asigns WUA to WVZ and WXA to WZZ to the army. Canadian broadcasting stations begin with the letter C. Canada also has some combinations with V, used by commercial stations. Mexico has combinations from XAA to XDZ. Cuba has PWA to PWZ. The Philippine Islands, Alaska, Hawaii and Porto Rico have combinations assigned and controlled by the United States.

WIRES ADD CAPACITY

Every wire connection and piece of metal in a receiver contributes to the capacity effect, which has a strong influence on tuning.

BROADCASTERS TO BE LIMITED BY UNCLE SAM

License to Operate Station Will Be Difficult to Obtain.

By Times Special

WASHINGTON, Nov. 19.—A license from the Government to operate a radio broadcasting station may, within the next few years become more precious than fine gold. This was demonstrated at the radio conference just concluded her.

Cost of broadcasting is increasing and poorly financed stations have been falling by the wayside. While the little fellows were failing, however, the big fellows have been waiting for a fling.

There are now 578 stations, of which 114 are the so-called Class B stations. These are the stations broadcasting on a 280-meter wave length or better, and using power of 500 watts or more, some up to 5,000.

There are 175 applicatins for new radio stations pending in the Department of Commerce, mostly from organizations apparently able to see it through. But these prospective broadcasters are out of luck because of the physical impossibility of finding new wave lengths for them. Future experiments may provide new methods whereby other stations can take the air, but at present there are only 89 wave lengths.

RADIO FLOWER

O. E. Becker, senior announcer at WGR, believes that radio should be represented by a flower. Becker suggests the cosmos. He declares that the name is appropriate, as it is indicative of the universal good of radio.

Popular Singer To Broadcast

Nick Lucas

The greatest of entertainers and showmen want to make the world a little happier place to live in. Nick Lucas, the most popular of all recording guitar players and singers, who is now appearing at the Circle, will "run over" Friday night to the Severin to play a few numbers on The Times' radio program.

Lucas will not be on the air until after his regular appearances at the Circle Theater.

SENDS TEST CALL

The Bureau of Standards transmits twice each month radio signals of definitely announced frequencies for use by the public in standardizing frequency meters and transmitting and receiving appartus. The signals are transmitted from the bureau station WWY, Washington, D. C., and from 6XBM, Stanford University, California.

OWNERSHIP OF ETHER WAVES TO BE DECIDED

Congress to Determine if Air Belongs to Public.

By Times Special

WASHINGTON, Nov. 19.—The next national public ownership battle will be fought in the air.

Representative E. L. Davis, of Tennessee, will start a fight in Congress this winter to outlaw commercial traffic in radio wave lengths. He will assert the principle that the ether and the use of it for transmission of energy is an inalienable possession of the people; that radio wave lengths are not given, but merely loaned to private broadcasting stations.

Rumbles of this were heard at the Fourth National Radio conference when several station operators contended on the floor that they possess a vested interest in the ether.

The conference declared it viewed with considerable apprehension and disfavor any practice contemplating the sale of wave lengths. But some of the delegates who spoke most strongly for it admitted they were doing so only to ward off undesirable Federal action.

PUBLIC RADIO STATIONS

The German ministry of posts and telegraphs is reported to be studying a scheme for installing a public radio receiving station in every town and village throughout Germany.

NEW RADIO INSIGNIA

A new insignia for United States naval radio electricians, until recently classified as gunner's radio, in the form of a "jagged spark," has been adopted for uniform wear.