

Marvels of Radio Progress On View At Coliseum Show

By MAX SCHINKE

The latest marvels and discoveries of radio and electricity which have been developed in the immense research laboratories of the General Electric Company, Westinghouse Electric and Manufacturing Company, and the Radio Corporation of America, and the newest of the offerings of manufacturers of radio sets and accessories, may be viewed this week at the Seventh Annual Chicago Radio Show being held at the Coliseum.

Other than the development of television, no radical discoveries are incorporated in the sets exhibited this year. Since the radio set is now considered as a piece of furniture, it has been the aim of most makers to put them into beautiful consoles containing set, loud speaker, and power supply. On the other hand, numerous receivers are being displayed in sheet-metal cabinets, having all finishes from polished brass to fantastic shades of jade green and bright red.

Automatic Tuning Exhibited

Gone are the sets having three or four dials and several knobs. Single dials of artistic design, with switch and volume-control knobs, have amply proven to fulfill all requirements. Two companies have sets with automatic tuning. In one—the Zenith—levers provide this means of simplified tuning. The station desired is secured in the usual manner on the dial. A small cap on the top of the automatic lever is then unscrewed, the lever pressed down and the cap tightened. Whenever this button is then pushed, the station at which it is set is tuned in automatically. Several such levers are provided. Regardless of these settings, the dial can be used in the usual manner to tune in other stations.

Most Sets All-Electric

Alternating current electric sets are almost universal, although several manufacturers are selling receivers to be used from light sockets in direct current districts. The A.C. sets employ the new tubes using low potential alternating current secured from a transformer for filament lighting and a built-in "B" eliminator for plate supply.

Improved tone-quality, secured by means of special power tubes, push-pull amplification, and power speakers, is featured in almost all receivers. In the past it was hard to eliminate distortion when the set was delivering sufficient volume only to fill a room, while with this season's models an auditorium can be filled with lifelike music and speech.

Dynamic cone and air-column speakers predominate at the exhibition. The usual type is a small cone about eight inches in diameter, made of leather. In place of a diaphragm is a low-impedance moving coil placed in a strong magnetic field set up by field coils which are operated by direct current either from a storage battery or power unit. Several speakers have a built-in rectifier and filter system so the field current is obtained from the A.C. lighting lines. The moving coil is coupled to the amplifier by means of a transformer. More perfect reproduction is secured in this manner.

A number of units designed to change any battery-operated receiver to a light-socket set are displayed. When these are used, all the special-purpose tubes, such as high- μ , shield-grid, and special detectors, may be employed.

More Short-Wave Sets Noted

A number of different short-wave receivers have been perfected for general use by the public. These are both in the form of complete sets and in units for transforming a regular set to receive high-frequency signals. All employ plug-in coils to cover the complete range of short-wave bands. Shield-grid tubes were

(Continued on page 4, column 3)

1927 Fire Losses Show Decrease, Says Survey

For the first time since 1919 tangible evidences of success in the eternal battle with the common enemy, fire, are available for this year's consideration of the national fire problem during Fire Prevention Week, October 7 to 13.

The 1927 fire loss estimate of \$478,000,000 is a decrease of \$82,000,000 as compared with the loss of 1926, and is the first time in seven years that there has been an actual dollar decline in America's annual losses by fire.

This is especially important when it is considered that during this seven-year period more than \$7,000,000,000 worth of new construction each year has been added to the fire risk, which now reaches a total of \$50,000,000,000 worth of new buildings in the United States for the period.

More than 200 American cities show a decrease in fire waste for 1927, say investigators of the National Lumber Manufacturers' Association, who have made a careful study of fire statistics in each state and for the most important cities.

New York, Chicago and Philadelphia—the three largest cities of the nation—each show a decrease in fire losses in 1927.

Stabovitz Heads Chem. Engineering Society

A week ago Wednesday the first meeting of the A.I. Ch. E. was held. John Attwood, '29, as chairman, gave a summary of the purposes of the society and outlined the plans for the present semester. Nominations were then declared in order for president. A. J. Stabovitz was nominated and elected to the office by a unanimous vote. The other officers elected were: Vice-President—J. E. Tarman, '30. Secretary—Sturm, '30. Treasurer—Linnel, '29.

H. TURK, '29, RECEIVES BEAUX-ARTS MENTION

The judgments of the Beaux-Arts Institute of Design summer projects received last week were as follows: Mention in Class B projet, H. Turk, '29.

One half mention, Class B, A. Crizevsky. H. C. Class A projet, T. E. Samuelson.

A mention gives the student one value and similarly a one-half mention entitles the student to one-half value. An H. C. means that there were errors in the drawing and for that reason full credit could not be given.

This competition was open to all junior and senior architectural students taking courses at summer school at the Art Institute.

Mr. E. H. Reed, professor of Architecture at the Art Institute, will conduct a local re-judging of last year's Class B V. projet, which requires the immediate return of all projets taken away. These drawings were previously judged at New York by the Beaux Arts Institute of Design.

Prof. Freud Installed Chairman Chicago A.C.S.

The Chicago Branch of the American Chemical Society, which last spring elected Dr. Benjamin B. Freud, professor of Organic Chemistry here, to the position of chairman, held its first meeting of the season on Friday evening, September 28, at the City Club.

The principal speaker of the evening was the retiring chairman, Dr. S. L. Kedman, whose address was entitled "The Tools of the Chemist." In this paper he compared the laboratory of the medieval alchemist to the workshop of the present-day scientist. The meeting was well attended. Several Armour professors and students were present.

Examinations For Removal of Conditions Posted

Tuesday, Oct. 16th

2:00 P. M.

Organic Chemistry (Ch.E. and F.P.E.)

Assoc. Prof. Freud, Room C, Main Bldg.

Wednesday, Oct 17th

10:30 A. M.

Thermodynamics (M.E.)

Steam Power Plants (E.E.)

Assoc. Prof. Nachman, Room A, Chapin Hall

2:10 P. M.

Quantitative Chemistry

Assoc. Prof. Tibbals, Room C, Main Bldg.

3:00 P. M.

Precision of Measurements

Assoc. Prof. Doubt, Room A, Chapin Hall

Thursday, Oct. 18th

2:10 P. M.

Physics I, II, III, and IV.

Prof. Wilcox, Physics Lecture Room

Friday, Oct. 19th

2:10 P. M.

Engineering Mechanics I and II

Applied Mechanics (Arch.)

Hydromechanics

Prof. Paul, Room B, Chapin Hall

Students entered in these examinations are advised to see their instructors as soon as possible so that proper arrangements may be made.

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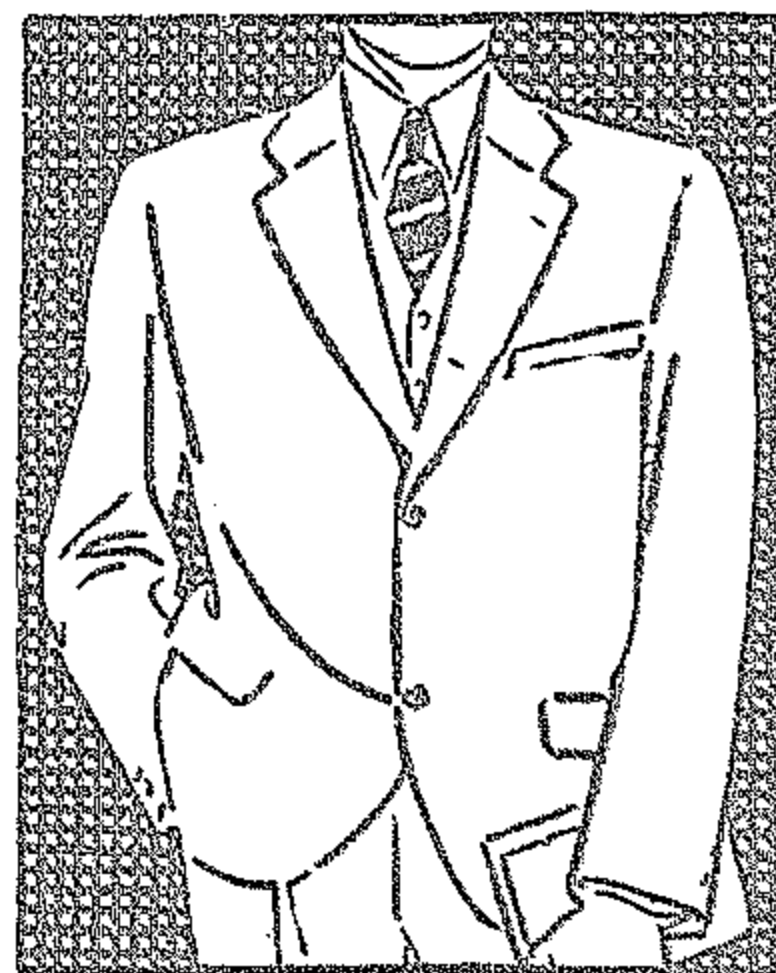
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