NEWS BRIEFS

● KANSAS CITY SOUTHERN will install a 55-station microwave system, costing about $4 million, between Kansas City, Mo., Dallas and Beaumont, Tex., and New Orleans, La. Equipment is to be supplied by Motorola, Inc.

● NEW YORK CITY TRANSIT AUTHORITY has awarded a $6.5 million contract to Union Switch & Signal division of WABCO to furnish and install a rapid transit signal and control system for the Chrystie street connections of the Independent division and the Centre street loop of the BMT division.

● CHICAGO & NORTH WESTERN and Chicago & Illinois Midland have received ICC approval to replace a mechanical interlocking with an automatic interlocking at Barr, Ill, at a crossing of single-track lines of each railroad (C&NW line to E. St. Louis).

● THE MILWAUKEE ROAD has received ICC approval to install a traffic control system replacing existing automatic block signaling on two main tracks between Milwaukee and Lake, Wis., about 7 miles.

● NORFOLK & WESTERN has received ICC approval to install dragging equipment detectors at seven locations. Relief is granted from the requirements of Section 136.602 of the RS&I in that the detectors may be installed without being interconnected with the signaling systems.

● READING has received ICC approval to install traffic control systems between Carlisle Jct. and Lees Cross Roads, Pa., 15 miles; and between Lansdale and Doylestown, Pa., 10 miles.

This Was News 50 and 25 Years Ago

The Signal Engineer, December 1913. At the 31st annual convention of the Roadmasters' and Maintenance of Way Association in Chicago, J. P. Corcoran of the Chicago & Alton described the experiment of that road with the combining of signals and track maintenance, which was tried for two months and recently abandoned. He stated that it was found that the track work was neglected for the signals.—Electropneumatic interlocking installed at the Memphis Union Station has a 107-lever machine, which is located in a tower in the wye 1,800 ft from the stub-end type station. The machine controls 36 switches, 12 derails, 14 single-slip and one double-slip switches and 94 signals. —Milwaukee Road is planning to install automatic block signals on 425 miles of double track: 221 miles of AC signals and 204 miles of DC signals.—Erie replaced all mechanical interlocking signals, home and distant, by three-position electric signals.

Railway Signaling, December 1938. By removing detector bars, providing complete electric locking, replacing semaphores with light signals, installing a new 83-lever interlocking machine and an entirely new system of circuits and wiring distribution, the Milwaukee Road has rehabilitated and modernized a large electro-pneumatic interlocking at Western avenue in Chicago. The elimination of 18 mainline derails, 4 switches and 3 movable-point frogs permitted a reduction in the number of levers required. This change, together with the new directional sectional route locking, permitting quicker changes between routes, has expedited the 550 daily train movements made over the plant.—Missouri Pacific completes automatic block signal installations on 199 miles of line between Kansas City and Omaha. Signaling is of the APB type, with colorlight signals using three standard aspects: red for stop, yellow for proceed at restricted speed, and green for proceed. When an absolute signal indicates stop, with an opposing train in the block, each of the two successive signals in approach to the absolute signal display the yellow, restricted speed, aspect. These provisions were made to insure adequate stopping distance without requiring additional aspects beyond the standard three.—Canadian National installs auto-manual control of wig-wags and crossing bells at five highway-railroad grade crossings in Strathroy, Ont., 20 miles west of London. RSC

Railroad Personnel

● CANADIAN NATIONAL TELECOMMUNICATIONS. **H. R. Davis** has been appointed telephone applications supervisor, engineering department at Toronto.

● CHESAPEAKE & OHIO. **L. M. Anderson,** assistant supervisor signals at Saginaw, Mich., is promoted to signal inspector with headquarters at Detroit. **V. E. Erdman** is appointed assistant supervisor signals succeeding Mr. Anderson. **V. R. Wilkinson,** signal inspector at Huntington, W. Va., is promoted to supervisor signals with headquarters at Detroit, succeeding **H. W. Link** who is retiring.

● CHICAGO TRANSIT AUTHORITY. **R. W. Tracy** has been appointed signal engineer.

● NEW YORK CENTRAL. **James P. Stevely**, office engineer, signals, New York, has retired.

● TOLEDO, PEORIA & WESTERN. **A. W. Polich,** system engineer, has been placed in charge of signaling and communications, succeeding **T. A. Gallagher**, deceased.

Current Publications

● AERIAL ELBOWS. Design, engineering and safety features of Holan's series 8600 aerial elbows, for 300 lb or 450 lb payloads, are described in a new brochure. *Holan (CP-8)*

● S & C EQUIPMENT. Railway signaling and communications equipment covering interlockings, traffic control highway crossing protection equipment, signals, relays, telephone and telegraph carrier, microwave, VHF radio and dial telephone systems are described and illustrated in a new catalogue (about 75 pages). *NV Philips' Telecommunicatie Industrie, Spoorweg Sein Industrie NV, Nederlandse Machinefabriek 'Alkmaar' NV (CP-9)*

● IMPULSE REPEATER. A new brochure describes the A-850 impulse repeater which is used for storing and transmitting dial impulses in automatic telephone systems. *U.S. Instrument Corp. (CP-10)*

● STATION SELECTOR. A selective signaling system for private microwave or carrier channel circuits is described in an 8-page folder. The system provides means of selectively establishing a call between a party at one location with one at another location without ringing all the telephones in the sy-

(Please turn to page 38)

NEWS BRIEFS

(Continued from page 10)

tem. *U.S. Instrument Corp. (CP-11)*

● BATTERIES. A revised bulletin describes further technological advances in a line of lead-acid storage batteries for stationary applications such as railway signaling and communications. Bulletin 6444R1 covers batteries in sizes from 200 to 800 ah ratings. *Exide Industrial Marketing Div. (CP-12)*

● PORTABLE RADIO. A new brochure (WR-1008) describes the fully transistorized VHF two-way portable radio that features a transmitter with a 1.5 watt RF power output operating in the frequency range of 148-174 mc. *Union Switch & Signal (CP-13)*

● CARRIER. The Stromberg-Carlson 711 carrier-multiplex system will group as many as 240 separate telephone channels into a single sideband, suppressed carrier signal for transmission. Frequency division is used to stack voice channels into 10-channel groups. *Stromberg-Carlson (CP-14)*

● VF REPEATER. The new 671 hybrid-type two-way repeater using solid-state circuitry with card mounting of components can serve as an intermediate or terminal repeater. *Stromberg-Carlson (CP-15)*

● 12 CHANNEL CARRIERS. The 661 and 665 carrier systems utilize amplitude-modulated, double-side-band transmission, and will provide as many as 12 simultaneous speech circuits on a wire pair. The 686 carrier repeater operates as a broadband amplifier at carrier frequencies. *Stromberg-Carlson (CP-16)*

● BUILDINGS. Fiberglass buildings of approximate size of 25 ft long, 8 ft wide and 8½ ft high can be hauled directly to microwave station or VHF radio station sites. The prefabricated buildings can be obtained with partitions to separate the standby power equipment from the radio equipment. *Armadillo Mfg. Co. (CP-17)*

● MULTIPLEX. Type 53A radio multiplex is a frequency-division, single-sideband type designed to provide 12 toll quality speech channels. *Budelman Electronics Corp. (CP-18)*

● TUBE MANUAL. The new 54-page, RC-22 manual contains data on more than 1,000 receiving tube types including numistor, novar and other new tube types. *Radio Corp. of America (CP-19)*

● WIRE & CABLE. A new 96-page telephone wire and cable catalog has three sections: product data such as numbers and ordering data information; engineering information such as electrical data, sag and tension tables; and general information such as color code, reel sizes, etc. *Whitey Blake Co. (CP-20)*

● TEST INSTRUMENTS. A new short form catalog 1963/64 includes such instruments as oscilloscopes, voltmeters, signal generators, power supplies, recorders, oscillators, pulse generators and RF measurement and control units. *Hewlett-Packard Co. (CP-21)*

● DROP WIRE. Bulletin No. 963 describes the new No. 18 AWG, super high strength Teleprene drop wire. *Whitney Blake Co. (CP-22)*

● JACKS & PLUGS. Bulletin R-40a contains descriptions, application information and listings of a wide range of coaxial jacks, plugs, patch cords, jack panels and related components. *Trimm, Inc. (CP-23)*

● BATTERY. Bulletin 6750 describes the fundamental principles, use and care of lead-acid type storage batteries, illustrates battery construction, explains operating characteristics and reviews maintenance and testing procedures. *Exide Industrial Marketing Div. ESBC (CP-24)*

● SWITCH MACHINE. A new brochure describes a new hydraulic switch machine for use with Racor No. 22 switch stand. *American Brake Shoe Co. (CP-25)*

Letter to the Editor:

An Educational Opportunity

Marquardt's interest in the railroad industry is not just to sell our products, but to offer a complete electronics program to the industry. In only this manner can we and the railroads prosper in the utilization of electronic gear in their operations.

We are in the process of inaugurating an educational program pertaining to Electronics in Railway Use which was designed around the use and maintenance of our railway equipment [highway-railroad grade crossing controls]. Our recent thinking in this regard is to offer this schooling or training not only to our customers, but to any interested railroad man that might want to attend. The only problem would be the implementation of the program and to what extent or level. In summation, we at Marquardt would like to offer our talent and facilities to the industry to help obtain a better understanding of the state of the art.

We would appreciate hearing from you as to the feasibility of such a program and would the industry be interested. The only cost incurred to those attending would be their transportation, meals and lodging.

W. W. Hutchinson, Manager, Marketing, The Marquardt Corp., 2771 N. Garey Ave., Pomona, Calif.

Supply Trade News

● BUDELMAN ELECTRONICS CORP. **James Fitzpatrick** has been appointed microwave project engineer. A graduate of Manhattan College with a B.E.E. degree, Mr. Fitzpatrick was formerly employed by Western Union Telegraph Co.

● NATIONAL ACCESSORIES CO., INC., 1617 Pennsylvania Blvd., Philadelphia 3, Pa., is sales representative for the following signal and communications suppliers: Ansonia Wire & Cable Co., Hanlon & Wilson, Line Material Industries, and Western Railroad Supply Co.

● OKONITE CO. **Frank R. Postma** has been appointed district manager at Detroit, Mich., and **Joseph R. Happley** has been appointed sales representative at Minneapolis, Minn.

● SIERRA ELECTRONICS has appointed the following sales representatives: **J & J Associates**, Waltham, Mass., for the New England states; **Scientific Sales Co.**, Chicago, Ill., for Illinois, Indiana, Minnesota and Wisconsin; and **Gaine Engineering Co.**, Detroit, Mich., for Michigan.

● U.S. INSTRUMENT CORP. **Donald R. Lehrman**, has been appointed general sales manager. Prior to this promotion, Mr. Lehrman was northern regional sales manager at Chicago.

● WESTERN RAILROAD SUPPLY CO. **John Hensel**, general sales manager, has retired. He began his railway sales career in 1930 with the Bryant Zinc Co., which later became a part of WRRS.

Obituary

● T. A. GALLAGHER, superintendent telegraph and signals, Toledo Peoria & Western, died recently.