RADIO BROADCASTING NEWS

Regular schedule of WJAM The Evening Gazette-Iowa Railway and Light company radiophone station (wave length, 265 D M Perham engineer) market reports, daily except Sunday 10, 11:30 and 1:30 Story Hour conducted by Miss Blanche Loomis, Tuesday Thursday and Saturday 6 to 6:30 other programs to be announced. (Central standard time.)

TRINITY LUTHERAN SERVICE ON WJAM

Special Musical Program and Sermon To Be Broadcast Christmas Morning At Eleven.

The Christmas morning service of Trinity Lutheran church will be broadcast by WJAM The Gazette Light company station Thursday beginning at 11 a m

The musical service will be in charge of William J Kirchoff organist and choir leader An organ prelude "That Glorious Song of Old" will be the opening number This will be followed by a hymn "From Heaven Above to Earth I Come" by the congregation, and by the Introit and Gloria Patri

The children's chorus will next sing "Angels from the Realms of Glory" following which the Rev N P Uhlig pastor, will give prayer and will read the scripture lesson "Let Us All With Gladsome Voice" is the hymn to be sung next by the congregation

Mr Uhlig will then preach his Christmas sermon, Immanuel the God-Man taking as his text Isaiah 9 6 7 A chorus number, "Hallelujah, Christ is Born," an organ selection, "The Holy Night" and a hymn by the congregation, "A Great and Mighty Wonder," will be followed by the pastor's benediction and the doxology Mr Kirchoff will play "Grand March and Chorus" for the postlude

A special program has been arranged for Christmas evening It will be announced in the radio column tomorrow

THE RADIO MANUAL

BY
ORRIN E. DUNLAP, JR.
Radio Editor of the New York Times.

(Continued From Yesterday)

(Today's installment of Radio Manual should precede that appearing in yesterday's issue.)

Grid Leak.

The grid leak is a high resistance of 1,000,000 ohms, known in radio parlance as "one megohm." One end of the grid leak is connected to the grid and the other leads through the secondary of the tuner to the common center," which is connected to the positive side of the "A" battery It is one of the laws of electricity that unlike charges attract each other. The positive side of the "A"battery attracts the negative charges off the grid through the grid leak. One of the duties of the grid condenser is to allow the high frequency radio currents to pass around the high resistance of the grid leak unimpeded

When stages of audio frequency amplification are used the wire leading from the 'common center" should always connect the positive terminal of the "A" battery as in the case of the detector when used without amplifiers However, the grid returns through the audio amplifying transformers should always connect to the negative side of the "A" battery

If the grid is positive in an audio frequency amplifier tube, there is likely to be distortion and an excess flow of B battery voltage The wiring must be made so the grid of amplifier tubes will not become positive A simple way to prevent this is to connect the grid return circuit to the negative terminal of the "A" battery and the filament circuit is placed in the negative side of the filament circuit

Radio frequency amplification, unlike the single tube detector, requires a negative charge on the grid of all radio amplifier tubes A potentiometer of about 400 ohms, is used in the first stage of radio frequency across the terminals of the "A" battery to regulate the negative potential on the grid The center contact or arm of the potentiometer is generally connected to the secondary of the tuner, forming a path from the filament through the secondary winding to the grid It is important that the wire leading from the "Common center" of the wiring, in this case, should connect with the negative terminal of the "A" battery

It would be well for all owners of vacuum tube sets to check up the "A" battery connections Reverse the connections and note which method of connections produce the best results

When To Use Dry Cells.

Detector and amplifier tubes requiring more than one half ampere at five volts or more should be used with a storage battery. Tubes requiring less current or less voltage can be used successfully with dry cells

The smaller the current taken from any battery, the longer will be its life, but if the current taken from the battery is too small, its period of usefulness will be reduced because of natural depreciation which takes place in batteries When current is drained from cells for two or three hours continuously, the current drawn from each cell should not exceed one quarter ampere If currents of over one quarter ampere are required, the drain on each cell can be minimized by connecting a sufficient number of cells in multiple thus dividing the total drain among the cells The drain on each cell can be reduced to one eighth ampere by using eight dry cells in multiple instead of four The amount of service will be more than double that of four cells.

If the current is reduced too low the time required to exhaust the battery is great enough to allow natural depreciation to shorten the life of the dry cell It has been pointed out that the natural depreciation of dry cells is similar to evaporation of a water tank If the tank is allowed to stand long enough the water will evaporate and none of it will be left for useful purposes If water is drawn off occasionally in small amounts, less will be available for use because evaporation takes place continually and more time is allowed for evaporation under these conditions If the tank is exposed to heat evaporation is more rapid A dry cell exposed to heat loses electrical energy

(Continued Tomorrow)

Satisfactory Golf.

Beg pardon, Mr Blubdub said the professional, "but the way you swing your club will never get you anywhere

Never mind Sandy I just swung a profitable business deal

FEATURES TONIGHT

5—WTAM (390) Cleveland Lombardo's Royal Canadians"

6—WJAM (268) The Gazette Light company Cedar Rapids, story hour by Blanche Loomis.

6—KSD (546) St Louis Rader's orchestra

6:45—WGY (380) Schenectady play The Sign of the Cross"

7:30—WBAP (476) Fort Worth Virginia Wyles and artists

7:30—WHAS (400 Louisville Benson's entertainers

8—WHAA (484) Iowa City Mrs Preston Coast pipe organist Milton B Paddock mezzo-soprano

9 10:30—WJAM, Walter Mohn series orchestra playing from Dreamland ballroom

9—WCX (517) Detroit Red Apple club

9—WOAW (526) Omaha U S Seventeenth Infantry band

10:45—WSB (129) Atlanta. frolic

12—WLS (345) Chicago mid night revue

ON THE AIR

WEDNESDAY, DEC. 24.
(Courtesy of Radio Digest)
(By Associated Press.)

Silent Night for KFKX, WCBD, WHAA, WOAW WSAI

6—WGR (319) Buffalo, Santa Claus.
6—WGN (370) Chicago organ
6—WMAQ (447) Chicago, organ
6—WWJ (517) Detroit News orchestra
6-7—WDAF (411) Kansas City, school of the air
6-6—WTAM (390) Cleveland Lombardo's Royal Canadians
6—WCCO (417) Minneapolis, sports.
6-7 30—WKAQ (360) Porto Rico
6 30—WGN (370) Chicago, dinner music
6 30—WLS (345) Chicago, organ
6 30—WMAQ (447) Chicago story man
6 30—WJJD (278) Mooseheart organ
6 30—WDAK (395) Philadelphia, Dream Daddy
6:30—WOO (500) Philadelphia, concert
6:30—WCAE (462) Pittsburgh, Uncle Kaybee
6 35—KYW (536) Chicago Uncle Bob
6:45-7:45—WTAY (283) Oak Park organ
6 45—KSD (546) St Louis, ensemble
6:45—WCAE (462) Pittsburgh, special feature.
7-8—WEBH (370) Chicago Orioles, Langdon brothers, reading
7—WGR (319) Buffalo, concert
7-7:30—KYW (536) Chicago, dinner concert
7-9:30—WLS (345) Chicago, music farm program, book talk
7—WTAM (390) Cleveland, concert
7—WCCO (417) Minneapolis, services
7—WOR (405) Newark, orchestra.
7:15—WJJD (278) Mooseheart, Philharmonic orchestra, junior band
7:15—WEAF (492) New York, St James boy choir
7 30-8—KYW (536) Chicago program from Duncan sisters studio
7.30—WHO (526) Des Moines, Christmas program with soloists and Bankers Life Radio orchestra
7:30—WCX (517) Detroit, musicale
7:30—WBAP (476) Fort Worth concert
7:30—PWX (400) Havana, General Staff band of Cuban army
7:30-9—WHAS (400) Louisville concert
7:30—WJZ (454) New York, Christmas eve program
7:30—WCAE (462) Pittsburgh concert
7:30—WBZ (337) Springfield concert
7:45—WOAF (468) Washington Christmas eve program
8-8:30—KYW (536) Chicago vocal lists
8-9—WGN (370) Chicago Christmas eve program
8—WMAQ (447) Chicago Christmas music.
8—WLW (423) Cincinnati orchestra, operatic recital
8—WOO (508) Davenport special children's program Soldiers phans' home
8-9:15—WDAF (411) Kansas City Christmas program
8—WOR (405) Newark radiologue
8—WDAR (395) Philadelphia recital
8—WOO (500) Philadelphia orchestra
8—KFOA (455) Seattle concert
8:30—KYW (536) Chicago stage review musical
8:30—WMAQ (447) Chicago Christmas poems
8:30—WOR (405) Newark talk
8:30—WEAF (492) New York Hawaiian ensemble
8:30—WHN (360) New York music, concert dance
8:45—KFOA (455) Seattle musical
9—KSD (546) St Louis, choir
9:10—WEBH (370) Chicago Orioles, Langdon brothers readings
9—WMAQ (447) Chicago play, "Christmas Carol" by Dickens
9—WWJ (517) Detroit, concert
9-10—WTAY (283) Oak Park pianologues, talk
9—WLW (423) Cincinnati, band concert
9:03—WOO (500) Philadelphia, recital
9:05—KYW (536) Chicago, good roads report
9:30—WGR (319) Buffalo, Christmas carols.
9:30—WBAP (476) Fort Worth, dance
9:30—WJZ (454) New York orchestra
9:30—WOO (500) Philadelphia orchestra
9:30—WCAP (469) Washington recital chimes, organ
9:45-2:30 a. m. KYW (536) Chicago midnight review Coon Sanders orchestra and organ
9:45—WMAQ (447) Chicago, talk
10—WON (370) Chicago, Paulist choir
10-10:40—WLS (345) Chicago, orchestra entertainers
10—WOC (499) Davenport, orchestra
10—WWJ (517) Detroit, Carol service
10—KNX (337) Hollywood features
10—KHJ (395) Los Angeles, Christmas program
10—KGW (491) Portland string quintets
10—KPO (423) San Francisco
10—WBZ (337) Springfield orchestra
10—WCAP (469) Washington Christmas cantata
10:30—KFOA (455) Seattle, concert
10:30—KSD (546) St Louis, carols.
10 45—WSB (429) Atlanta Christmas Eve from
10 45 — WCCO (417) Minneapolis service
11—WMC (500) Memphis Christmas music
11—WHN (360) New York entertainers
11—KPO (423) San Francisco band
11—WCAP (469) Washington midnight mass
11:45-1 a. m.—WDAF (411) Kansas City Nighthawks
12—WLW (423) Cincinnati midnight mass
12—WBAP (476) Fort Worth frolic
12—KNX (337) Hollywood orchestra
12—KHJ (395 Los Angeles orchestra
12—KSD (546) St Louis, midnight mass Old St Louis Cathedral

One Killed, 2 Shot In Battle With Dry Agents In Arkansas

LITTLE ROCK Ark Dec 23—(By International News)—One man was dead today and two others lay wounded as the result of a search for distilleries by four prohibition agents

L E Story driving a truck was struck by a bullet from an agent's high powered rifle and instantly killed when trying to escape

At the home of E R Bishop, the dry officers shot H R Blankenship who fled after being ordered to halt

A third man whose name was not learned was shot in the leg with buckshot but not seriously injured

Thieves Loot Show House At Soo City

SIOUX CITY Dec 23—(By International News) Thieves believed to have been hiding in the Orpheum theater here during the evening performance looted the dressing rooms of the actors and escaped with more than $300 in cash a quantity of Christmas presents six suits of clothes and ten pairs of shoes last night The thieves made their escape through the stage door which was bolted from the inside police say

War Secondary In German Textbooks

BERLIN, Dec 23—(By Associated Press)—New manuals of history quite unlike the pre war text books used in Germany are about to be introduced in the schools Dynasties take a second place in the new books and the history of wars is overshadowed by economics social history and the story of the people in the various states which make up the republic

Trotzky Center Of Bitter Feud In Communist Camp

MOSCOW, Dec. 23.—(By Associated Press.)—Although Trotzky now is out of the political arena and far removed from the bitter party strife of Moscow, attacks on him both from within and without the communist party continue unceasingly

No man in American public life even during the heat of the bitterest election campaigns has had to face such a merciless fire of censure and condemnation as has been directed against the soviet war chief for the last six weeks All the sins and shortcomings and failures of the bolshevik regime have been visited on his head.

Throughout the fusillade Trotzky remains silent, alone and broken in the resort where he has gone to restore his health. Although he is in admittedly poor physical shape no note of sympathy is heard for the man who hitherto has ranked as next only in fame and power to Lenin

It is inaccurate to say that Trotzky has been either expelled from the communist party or banished from office as foreign dispatches have announced What over the issue may be some time probably will elapse before he returns to his duties Various bolshevik leaders have made known for the first time that Trotzky tendered his resignation many times—whenever the central committee of the party attempted to interfere in any branch of his activities, especially in his administration of military measures during the civil war In no case, was his resignation accepted, but he was forced to submit to party instructions.

Stalin, Kamenef, Bukharin, Zinovieff, Kalinin and other communistic writers have alloted among themselves the task of showing all ranks of communists not only Trotzky's political misconceptions and falacies as they see them, but also the fact, as they allege, that in all his acts the war minister has been guided by mere personal ambition.

Whatever the outcome of the controversy, it may be said with the fullest conviction that the present fight against Trotzky will not result in an open split of the communist party nor is it likely to go beyond a formal vote censuring Trotzky at the forthcoming party congress.

Postpones Trial Of Looney At Peoria

PEORIA, Dec. 23.—(By Associated Press).—Trial of John P. Looney, alleged leader of Rock Island's former vice ring, was postponed by Federal Judge Fitzhenry yesterday until Henry McCarty of Rock Island, a material witness can be found.

The prosecution charged that Looney had caused his disappearance

MEXICO TO PAY DEBTS.

MEXICO CITY, Dec. 23.—Mexico was expected today to be able within six months to make a substantial payment on her war debt through economies worked out by President Calles. In the short time he has been in office he has effected savings of 25,000,000 pesos.

Gen. New Before P. O. Committee On Postal Rates

WASHINGTON, Dec 23.—(By Associated Press.) — Postmaster General New was called today before the senate post office sub-committee to explain details of the administration measure proposing increases in rates on practically all classes of mail matter except letter mail to take care of the advance in the pay of postal employes approved by congress, but vetoed by President Coolidge.

With a view to having ready a report on the bill before the senate takes up the President's veto of the salary bill on January 5, the subcommittee has set aside four days of this week for the hearing. It is the hope of Chairman Moses and the other members to conclude the hearings within that time so that a report can be made to the entire committee next week.

Some publishers, who are opposing the advance in second class mail rates have protested that the notice of hearing was entirely too brief, but the sub-committee will go on with the hearings on the dates specified, Senator Moses said.

After Mr New is heard, opportunity will be given the publishers and others interested to present their arguments.

The question of salary raises is pending in the senate and the committee will have jurisdiction only in the event that the President's veto is sustained, which leaders now say is practically assured.

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Circus Peanut Candy, 2 lbs.....25c
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Coconut Fresh Longthread lb. 27c
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—Fashion Floor—the Second.

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