# NO ACCIDENT WEEK JANUARY 24-31 

A Seven-Day Period of Co-operative Effort by every employe of the Pacific Electric Railway to prevent any accident for which this company or any employe would , ainte compnicated , cce Commission Complete co-ope sething tith thin overyone is requeste (rec often in increaseasected.


## S. A. BISHOP

CHAIRMAN OF EMPLOYES' COMMITTEE


## THE "JOBS" OF THE RAILWAY'S ENGINEERS

The popular conception of an engineer is that he is a fellow who draws pictures while seated in a cozy office chair while another fellow does the work; and his importance. from the public's view point. and probably from
 ago of a washout occurring on one of the Northern Lin es, several humdred miles from headquarters. The maintenance for the district was under an old Scotchman, who possessed many years experience in actual railroad work. Upon receiving the nevs, the General Manager punched up the Superintendent relative to re-installing the bridge; who in turn instructed the engineers to get out plans and details. and who also advised his scote Road Foreman that he expected that line open at the earliest possible moment. A day or so later a wire came in from the Road,

In order to give our Magazine readers a true idea of what constitutes the Engineering Department and the duties of its many employes, my assistants, the fellows who really do the work, will also tell the story for me.

## VALUATION BUREAU

## By Wm. Simkins

In a former issue of the Pacific Electric Magazine there appeared an article on the Valuation of the Property of the Pacific Electric Railway Company, in which this subject was treated with reference to the preliminary and detail work involved, and it is no doubt unnecessary to repeat what was said at that time.
Since the article referred to was written, the great mass of figures and details entering into this work have been assembled and it will no doubt be of interest to state that these figures show that to reproduce new the physical property of this Company as of June 30 , 1914, would have required the expenditure of a sum of money considerably in excess of $\$ 75$,$000,000.00$, the official figures not having been given out as yet by the Railroad Commission, whose Engineers have been engaged in checking this valuation.
It siould be borne in mind that this figure is based on average prices of labor and material prevailing during the few years immediately preceding date of valuation (June 30, 1914) and consequently it requires no great stretch of the imagination to enable one to realize, at least in a general way, the amount of money which would be involved, at current prices of labor and material, in reproducing new the property of this Company as of the present date, especially when the fact is taken into account that the Company has expended many mi": nns of dollars for

additions, betterments and extensions subsequent to June 30, 1914.
One of the duties of the Valuation Bureau is that of furnishing values of property to be abandoned, and this work is frequently quite complicated in view of the regulations of the Interstate Commerce Commission which require the setting forth of abandoned property by units and accounts, and when this work involves one of our older constituent companies the difficulties are often increased.


The fact may be of interest that the Valuation Bureau has handled upward of three hundred such matters during the current year, covering a range including swans, horses, sewing machines, tracks, poles, wires, land, machinery, buildings of various kinds, bridges, etc., etc., which goes to show the many changes which are constantly occuring in a system as large as the Pacific Electric Railway Company.

To the Valuation Bureau also falls the task of keeping the system of records required by the Interstate Commerce Commission under its Valuation Order. No. 3, Second Revised Issue. This regulation necessitates an analysis of the many and various charges to each work order involving charges or credits to capital account, and the combining of same in such manner as to represent, respectively, the cost of the various physical and engineering units added to or retired from the property of the Company, and, whilst this Valuation Order No. 3 may not always be clearly understood by all, it would appear that as time passes the information recorded under this Order will be of great value as it will have the effect of automatically keeping a Valuation of railroad property up to date and also provide in the future quick means of ascertaining ledger values of property retired when same has been installed since this Order became effective.


## THE FIELD ENGINEERING BRANCH

## By Charles K. Bowen

Comiprised in its entirety of but sixteen men out of the fifteen hundred which go to make up the total force of the Chief Engineer's Department, it mignt be hastily assumed that the modest Corps of Engineers called by common consent, the "Field Force," is by all odds the least important of the several branches of which the Engineering Department is composed. Should this be called to the notice of one of our loyal young Engineers, he would very likely have as a comeback something to the effect that it was likewise true that, approximately speaking, the human brain, by quantity, accounted for but a scant two per cent of the average individual.
Witnort, in the least, disparaging the various other branches of our Department; it is a fact that right here in our own little force is one place where intelligent minds carefully trained along technical lines and seasoned by experience are absolutely essential. Entrusted with the design, estimate and laying out of work running into thousands of dollars annually, it can be readily understood that mistakes might easily cost the Company dearly.
To us falls the work of making all preliminary surveys for any proposed new work or extension; the passing upon the practicability of various projects advanced by outside concerns in matters of an engineering nature which affect our Company or its interests; investigating and making recommendations in the case of all requests for use of our physicial properties by outside individuals and firms; supplying technical data and furnishing expert engineering evidence in the numerous law suits in which our interests are involved; estimating the cost-very frequently the figures being desired within the "next
thirty minutes"-of anything from a dinky flight of wooden steps at the end of the Arrowhead Springs line to adapting the train shed of a proposed Union Depot at the Plaza for a landing for aeroplanes.

To us comes also all work orders in course of preparation, so that the detailed estimates may be properly prepared and checked. Does the City of Hermosillo Beach decide that the private right-of-way of the Pacific Electric Railway-obligingly turned over for use as a public street and nicely paved (at the Railway's ex-pense)-offers an easy solution of its growing traffic problem and gently hints at a hearing before the Railroad Commission or, perchance, a suit to condemn the said right-of-way, one
of our soft voiced young Engineers (most of whom are "hard boiled"ex service men) is thrown into the breach and, as like as not, comes back from a conference with the city dads with a report that their demands have been modified by calling off their scheme of confiscation in re turn for a new sign at the Hermosillo Beach station.

It is an interesting work and no complaint because of lack of variety. The personnel of the force follows, some laving seen service continu ously with the Company for eighteen years:

Charles K. Bowen, Assistant Engineer, in charge.

George McClure, Assistant Engineer.

Donald Batman, Assistant Engineer.

Bertram W. Carrington, Estimator.
Fred W. Spencer, Estimator.
Jonas Frownfelter, Instrumentman.
Earl Van Dusen, Instrumentman.
Ernest R. Hayward. Insrtumentman.

Robert E. Humphreys, Instrumentman.

Artnur H. Hildebrandt. Levelman.
Everett C. Hall, Levelman.
Charles E. Fabre, Rodman and Chainman

Wm. H. Seeley, Rodman and Chairman.

Edward H. Sleeper, Jr., Rodman and Chainman.

Clyde S. Read, Rodman and Chainman.

Thos O. M. Jones, Rodman and Chainman.
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## CONSIDERATE MULE

A negro was trying to saddle a fractious mule, when a by-stander asked: "Does that mule ever kick you, Sam?"
"No, suh, but he sometimes kicks where I'se jes' been."-Am. Legion W eekly.



## ROADWAY FORCE

Comprised of about two-thirds of the total force of the Engineering Department, the Roadway or "Track" Force is directly responsible for the expenditure of a large portion of the Company's revenues but at the same time plays an indispensable part in making possible the service from which such revenue is derived. Although an important function is the construction of new lines, for some time past its chief duty has been tine maintenance of our present system of more than 1100 single track miles.
"New work" we always have, such as reconstructing with heavier rails, sections of track through city streets at times when they are to be paved as well as at times in open track where it is necessary to meet the needs af heavier service. With the reconstruction in City streets, in meeting our legal obligations, we are called upon for the expenditure of large sums to provide heavy rail sections, paving, etc., etc., which in the case of rail is much in excess of our needs and the paving of no value whatsoever in connection with our operation. The basic reasoning which calls upon the companies to meet such high standards of construction and assume the cost of paving can well be questioned; this is a condition from which we must work for relief.

Also there are constant requests being made for tracks to serve new Industries or extensions to meet their growing needs, due to the untiring efforts of the Freight Department, and as a result of the increasing freight traffic, storage tracks, scale tracks, etc., must be constructed from time to time, but even though the expenditures for such additions or betterments are of no mean importance the force employed on such work compares about as 1 to 6 with those employed in the upkeep of our present facilities.

To properly care for the construc- and from $^{25}$ to 100 laborers each. tion and maintenance of tracks, the Tine number of gangs, as well as Chief Engineer has directly under him as Supervisors: 1 Assistant Engineer; 6 Roadmasters, each having a specified district and an Assistant Engineer for the Eastern District, tine personnel being as follows: L. B. Denton, Assistant Engineer supervising all districts, with the exception of the Eastern; Roadmasters: James Foster, Northern; I. McInnis, San Pedro-Redondo; James Shearn, Western; James Selfridge, San Dimas-LaHabra; V. B. Radcliff, Southern; L. A. Crooks, City; and H. E. De Nyse, Assistant Engineer on the Eastern District. Under these Supervisors the system is divided into 27 sections with Foremen and Assistants in charge of regular maintenance gangs; to them falls the ordinary renewals, repairs and numerous miscellaneous duties, all requiring attention to provide a satisfactory service.
In addition to the Section Gangs, of from five to twenty men each, there are larger gangs, known as "extra gangs," composed of foremen, sub-foremen, watchmen, toolmen,
number in each gang, varying from time to time as the amount of work is reduced or augmented, but usually there are six or more such gangs. To these fall the duties of construction of additional tracks and extraordinary repairs and renewals.

Some idea of the momentous task involved in the proper maintenance of such a system as ours, might be conveyed by the following: There are in excess of $2,750,000$ ties in service or enough so that if placed in one pile, it would be about the size of the P. E. building, or if placed end to end, they would have a total length of more tian 4,000 miles. The average life of these ties is between 10 and 12 years, with the exception of the comparatively few treated ties in paved streets, which have a somewhat longer life. From this great number and their average life some idea of the necessary yearly renewals may be gained, and the consequent expense as to labor and material, from this one item which is one of our greatest revenue consumers.



The average monthly pay roll for the Roadway Division this year has been about $\$ 43,523.00$ and with materials added in, about $\$ 64,000$ per month; these sums represent, respectively, the cash collected from about 725,400 local fares or 87,046 round trip fares to Pasadena and $1,066,700$ local fares or 128,000 round trip fares to Pasadena.

In addition to the forces mentioned it is necessary to keep smaller gangs for special services where one certain class of work requires any great amount of attention, for example, Weed burner crew, Electric Crane Crew, Steam Shovel, Campmen, Rodent Exterminators, Station Cleaners, and Gardening force, all performing necessary services and taking advantage of many labor saving devices, which reduce unit expense in connection with many duties, only as may be accomplished on systems as extensive as ours. $\qquad$
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## MAINTENANCE OF WAY PROB-

 LEMS, PAST AND PRESENT
## By James A. Selfridge

Regardless of the conditions under which transportation is conducted, essential work in the "Maintenance of Way Department" of a railroad does not vary to any great extent. Considering the subject of essential track work, there are certain fundamentals of maintenance which must always be held in mind. First, that maintenance is the life of existing track structure; second, that maintenance must be continuous, sufficient, constructive and progressive No single maintenance operation can be neglected without affecting the entire track structure sooner or later. It is apparent from even a casual glance at our track situation that tie renewal is the essential issue with us and during the past year tie renewals have been pushed very vigorously The amount of material and the number of men available rather than money costs, was the only limit to this particular operation. It must be remembered that ties and rails are the two basic units of track construction; without them track cannot be maintained safely for any consider-
able period of time, and a shortage of either of these or an inadequate supply of both calls for prompt consideration.
We, of the "Maintenance of Way Department," have had and still have a big problem on hand; big because for several years the track has suffered from lack of men and material and for this reason we are now facing an abnormal tie renewal on practically the entire system. Had conditions been favorable so that a progressive line of maintenance could have been followed out during the past few years, our large increase in maintenance for the past year would have been eliminated. Beginning in July 1915 as I remember very distinctly we were called on to do only thke most essential work, or "hit the nigh spots" as it is generally termed. This was at first due to the necessity of restricting expenditures and later to the growing scarcity of men, the scarcity of men existing until January, 1920. Since that time adequate forces have been at work, resulting in a large volume of maintenance work
being done, making a decided improvement in the riding qualities of the tracks as well as a much safer condition for high speed operation. There still exists a large amount of essential work to be done (an absolute essential in track maintenance is to maintain the track in good physical condition so that it will be safe at all times for traffic). The primary elements in this are proper inspection line and surface, and good ties properly placed and for those who are directly interested, I will say this is a matter for closer supervision, ever remembering that track is continuous from terminal to terminal and if too much time is used at one point sufficient time may not be left to do the necessary work at other points where dangerous places have developed.

While the tracks may be rough if the ties are good we have very little cause to worry, except however it should be rememebered that rough track is a cause of deterioration in equipment regardless of the tie conditions. Rough track and poor ties


are not only a source of worry and anxiety on the mind of those who are responsible for maintenance but they also make a very uncomfortable riding condition as well as a dangerous condition for the movement of trains.

Therefore, let us have closer supervision.

## DRAFTING ROOM

## By I. A. Hubon

If the main line track, spurs and sidings of the Pacific Electric Railway Company were constructed as a single track line, it would extend from Los Angeles to a point three hundred miles east of Salt Lake City.

In the construction and maintenance of a system of electric railway as extensive as this it is quite necessary that many maps, profiles and plans be prepared. Drawings are made of almost everything that enters into tine construction of the railroad; preliminary maps on which is
delineated the proposed route, property lines, land needed for right of way, etc.; profiles showing the ground line and the proposed grade line, from which estimates of cost of construction are made; plans of bridges, culverts, track special work, interlocking and signal plans, and a great many miscellaneous plans and sketches.

To one not familiar with the work of the Chief Engineer's Department it might seem that there are unnecessary plats and sketches made; however, tnese plats and sketches, which require but little time to make, often more clearly illustrate a project than many folios of written explanation. Our map files, the accumulation of many years of construction and maintenance, now contain more than twenty-five thousand maps, profiles and drawings. Many of these maps and profiles were made before the construction of the lines and are very
valuable to the railway company in
flood damage suits and other litigation in which it is necessary to establish the location of river channels, the boundary lines and corners of property and other topographical features as they existed before and during construction of the railroad.

We also have about twenty-five hundred field books which contain the survey notes from which the maps and profiles were made. These books are referred to constantly in the drafting room, enabling us to define the lines of company property and to establish the location of corners long since destroyed.
Another valuable record consists of right-of-way maps of each line on which is shown the location and dimensions of each piece of right of way and property owned by the Pacific Electric Railway Company or Pacific Electric Land Company in the counties of Los Angeles, San Bernardino, Riverside and Orange. This property has a value of many millions and


requires constant care to protect these Companies' title from Torrens Land Registration actions, assessments for various improvements and other troubles that afflict holders of much real estate.

Our deed file now contains more than eight thousand documents covering a complete record of all transactions effecting the title to this property.
It is part of our duty to keep the right of way maps to date, make plats and descriptions for all transactions which originate in our company, and check the descriptions in all documents received from other sources.
In the preparation of railroad maps and plans there are innumerable computations required, areas of property, excavation and other construction quantities, the planning of track special work for yards, terminals, crossings and connections at junction points. The greater part of these calculations are performed in the drafting room.
The following statement of data required on maps and profiles which are filed with the Railroad Commission of the State of California illustrates the amount of work required to produce them, and the great value of our engineering records:
'Maps must show accurately to scale the alignment of the railroad, special attention to be given to the following features, viz.:

All State, County and Municipality lines, and all section and land lines and the station number of intersection with railroads the extent of tracts of land crossed and adjacent thereto, with distances to corners and dimensions of tracts.

The names of owners of adjacent land, from whom deeds were obtained, and names of original surveys. With name of land owner shall be number or reference to railroad real estate files.
The acreage of land acquired out of each tract crossed. Also width and dimensions of each tract of real estate owned.
All sidings, snurs, yard and industrv tracks, and also tracks of other railroads and street car lines that come within limits of map. The length of each track shall be noted thereon.

All railroad buildings and wav structures with dimensions and location, also location and extent of buildings and structures of industries to which the railroad has tracks, or adjacent to its tracks.

Profiles must show most of data on the maps with following data:

Show in vertical projection the ground and subgrade lines; the elevation and rate of grade, vertical curves, etc.
Show character, dimension and lo cation of all bridges and culverts Show depth of penetration of piling in trestles and depth of bridge foundations.

Show on each mile the following construction quantities, viz: Clearing; grubbing; total excavation and classification; total embankment; overhaul; classification borrow; trestle timber, trestle piling; culvert masonry with classes; bridge masonry with classes; weight of steel bridges; bridge excavation; foundation piling, etc.; length and kind of culvert pipe, boxes, etc. Show also the quantities of excavation and embankment, with classification of each cut and fill, dividing same at mile posts. Show also amount of material in each bridge and culvert in connection with its designation."
In Mr. Webster's well known volume, among, several definitions of the word "draft" we find a suggestion that it might also mean "a drawing of lines for a plan." I sincerely believe that should there be a "solemn referendum" by the members of our drafting force it would result in an overwhelming majority in favor of Mr. Webster If anyone should ask me I would say that even in this day and age the drawing of lines for plans constitute a considerable portion of our work in the drafting room of the Chief Engineer's Department. $\qquad$
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## STRUCTURAT, ENGINEERING OFFICE

## By M. C. Halsev

The Branch of the Engineering Department commonly known as the Structural Engineering branch, handles, using the after-dinner expression, every thing from soup to nuts in connection with the designing and construction of bridges and buildings and the installation of equipment necessary for the convenience of emoloyes and the traveling nublic. The problem being to catisfy those directly concerned and stay within the anthorized expenditure for in the majority of cases the aDpetite is in excess of the purse and it seems to be much easier to kick about what has not been done than to make favorable comment on what has been donc.

Practically all estimates for new huildings and for changes or alterations in existing huildings are made n this office, it being the practice to
furnish a preliminary sketch with each estimate in order that an intelligent idea may be had of exactly what the estimate covers. Upon receiving approval for new work detailed drawings and specifications are made which, upon completion and after having been approved by those concerned, are either handed over to our Bridge and Building Department with the authority for construction or sent out for bids in the open market. In either case this Department sees the construction through to completion and the structure or improvement turned over for operation. At present we are contracting approximately 90 per cent of the new buildng work.
The problem of standardizing buildings and details is one which has been given much thought and study but to date has not worked out to advantage except for section camps and certain classes of depots and waiting stations. Either the Department concerned, the interested community, or building site, in the majority of cases, demand special requirements which must be conformed to, thereby necessitating a special drawing.

In the case of bridge work the Southern Pacific common standard drawings and specifications are used wherever possible, but in many cases it is necessary to make special designs meeting local requirements. Where bridges are fabricated in the local shops, shop inspection is made by this office.
Some of the most recent work coming under our jurisdiction consists of all field work in connection with the design and construction of the Torrance Shops, design and construction of San Pedro depot, San Bernardino sub-station, Filter system, Redondo Beach bath iouse, design of bridge and piers for Verdugo wash, and piers for Santa Ana and El Moro bridges.

The nersonnel of the Department is: Milo C. Halsey in charge, E. C. Batty, H. C. Mower, M. C. Ayers, Tom Allen, M. C. Hendrie.

## MARRIED A NATIVE

They were looking at the kangaroo at the zoo when an Irishman said: "Beg pardon, sor; phwat kind of a creature is that?"
"Oho, that is a native of Australia," said the rentleman.
"Good hivens," exclaimed Pat!"an' me sister married one of thim!"Boston Transcript.


## CAMP WELFARE

## Miss Viva M. Carr

Having been asked to tell something about the work of the Engineering Department Nurses among the families of the Mexican Employees living in the various section camps along the Pacific Electric Lines, will endeavor to give as comprehensive and short a report as possible.

There are twenty occupied section camps, varying as to number of houses and number of inhabitants, and these are divided between the two nurses. Each nurse visits her camps as often as possible, and if there is illness, as often as necessary. The largest of the camps, located at Latin and in charge of Miss Peterson, has at the present time an unprecedented number of families, forty-nine, and a total of ninety-one children, thus demanding much of her attention. The number of families ordinarily has been from thirteen to sixteen. All camps, however, have been full to overflowing for the last two months.

The houses are in rows, six or eight houses to a building, and, as a rule, two rooms in each house. Each laborer and family is allowed one house. Stoves and fuel are furnished, and in some camps there are electric lights, shower baths and modern toilets. Campmen keep the camps clean, and repairs to houses are made as needed. Mr . Dan Gilmore is the inspector for all section camps and sees that they are kept in as sanitary a condition as possible. Our model camp is at Culver Junction, and has laundry shed, modern toilets, shower baths and electric lights.

The nurses enter the house of every family, noting conditions while visiting with the occupants. If there is a marked lack of cleanliness, after one or two visits, we mention the fact

and make an effort to instruct them along those lines. If there is vermin, we use the proper methods for eradication of same. If there are cases needing attention, either give it or take them to the dispensary. Under-nourished children are our greatest difficulty, for it is very hard to get the parents to see where the diet is at fault. If we succeed in this, they will tell us that they cannot buy the proper food, thus adding to our difficulties. It is a wonderful work, however, and there is a great deal of satisfaction in watching the few who attempt to follow directions. When there is actual illness we give the best attention possible, under the circumstances, for this is the time when we have our greatest opportunity to teach cleanliness, fresh air, care of the sick, etc. Besides, we find that actual bed-side care makes our people more receptive to instrucsible to turn the indifferent one into one who is willing to learn and to do.

We instruct the women along all hygienic lines, attemnting to change
those customs which are harmful, but remembering to praise those which are good. I find that all races have many good customs and that the diet-list always includes some very mutritious ar. ticles of food, even tho they differ so greatly from our's. These I encourage them to use, adding on whatever seems necessary. Our success depends greatly upon the mentality of the women and the type. It is interesting to note the varying types of Mexican, as one travels from door to door, from camp to camp. The stupid, sullen Mexican of the lower type, is our problem and a very discouraging problem it is. From this type on up we have many different grades, all more or less pliable, some naturally clean and some naturally dirty.
As with the majority of races, we have superstition as our greatest enemy; and, in addition, with the Mexican, we have fear of the Doctor and hospital, and last but not least, suspricion of our motives. Once we get results, however, and prove that our intentions are good, all these barriers are broken down. Of course our greatest asset is the younger generation, for they are growing, are very much alive and are more receptive to new ideas and new customs. They often teach their parents when we fail.

In short to make a summary of our work, we try to prevent illness, to teach hygiene and sanitation, to keep the people free from vermin, to make more comfortable the sick, and to make all better citizens. We would like to teach our people the English language, but time is limited and it is not possible to do so. In a few camps we have "Home Teachers," and for them we are very grateful, for they are doing a wonderful work.

In conclusion. mav I ask that all who read this will assist the American-
ization Movement whenever possible. The foreign problem is a grave one and worthy of your attention. We must be fair and give them their chance. In fact, it is a necessity.

May we ask for all co-operation possible.

Note: If there are any whose children, boys especially, have outgrown their coats, shoes, sweaters, etc-ages 6 to 14 ,-we would be very grateful for same.-Room 690 P. E. Building.

## BRIDGE \& BUILDING DIVISION

## B. F. Manley

The B. \& B. Division of the Engineering Department is composed of from 90 to 100 men under the direct supervision of the B. \& B. Supervisor and his Assistant, the B. \& B. General Foreman. It comprises 8 crews, each under the head of a Foreman and each crew classified to handle a certain line of work.

First we have the Division general maintenance crews and in this we divide the system into 3 divisions similar to the Operating Division and have $a$ crew of from 8 to 20 men for each Division with headquarters at Washrington Street Yards, State Street and Sherman, each under the head of a Foreman whose duty it is to see to all maintenance work arising on his Division, such as repairs to bridges, culverts, depots, car houses, shops, waiting and freight stations, right of way fences, and the construction of new stations, bridges, culverts and numerous other duties that arise from time to time.

Extra gang No. 4, generally known as the pile driver crew and working from 15 to 30 men, is equipped to handle all large bridge construction jobs, an example of which is one nearing completion at King Station on the Santa Ana Line, where we have installed two 135 foot clear spans through Pagram Steel Trusses supported on concrete piers with 810 ft . creosote pile trestle approaches at a cost of approximately $\$ 70,000.00$. The Bridge Spans the Santa Ana River.

At the present time we also have under construction at El Moro on the Newport Line, three 60 foot deck girder spans supported on concrete piers with 360 foot creosote pile trestle approaches, also spanning the Santa Ana River. As this bridge will also carry the Southern Pacific steam trains, it is being constructed for C . S. E, 55 loading which is somewhat -heavier than we use on Electric Line construction as most of the steel bridges we have placed are bought second hand and constructed for an E. 35 loading.

Extra gang No. 5 is equipped to handle concrete, this crew averages about 12 men the year around and we keep quite busy installing reinforced concrete culverts which the company is legally required to build in the different municipalities through which it operates. As concrete is a permanent construction it is not surprising that these people should specify this class of construction and although the initial cost is quite high,
once it is placed, future maintenance, as a rule, can be forgotten.
This crew also has the placing of the concrete piers for large steel bridge jobs such as the one I have already mentioned on the Santa Ana Line where we installed three piers containing over 750 'cu. yds., concrete, likewise placing of concrete -etaining walls, side walks, curbs, etc., over the system.
Gang No. 6 is a miscellaneous crew composed of men who each have their individual duties to perform and includes: The Materialman and Assistant who have charge of the disbursing of all tools and material carried in MOH accts.;

The carpenter in charge of cabinet shop who handles all work coming under this heading, which includes the making and framing of signs, care and repairs to door checks, cash drawers and other minor repairs at lepots and many other duties too numerous to mention;

The carpenter who handles all repairs at Section Camps which keeps one man continously on the go;

The Bridge Inspector who handles all Inspection work in connection with the Department.

Gang No. 7, known as the Painting Crew, comprises from 10 to 14 men under the head of a Painter Foreman who has charge of all painting, both maintenance and new work. As the ife of wood and stecl depends upon the proper application of good paints and at the proper time, it is a branch of the work that has to be watched very closely, taking into consideration first the necessity, the cost, the general appearance and results obtained as there is nothing that helps the appearance of a building like a new coat of paint-but we are not always justified in painting for appearance alone. A bridge or building must need the paint for preservation before we are iustified in going to the expense of repainting and often times a structure can be carried along for a year or two by simply touching up the bad spots as they appear.

The life of a painting job depends a great deal upon the proper application of paint in the first instance, especially is this true of steel work where if steel receives, a proper application of the shop's coat, closely followed by a proper painting after it is erected, it will be several years before there will be any maintenance expense. Of course, a great deal depends on the location of the structure and the presence of elements that tend to destroy the paint films, as once the action of rust sets in it is almost impossible to check it. In several bridges we have located on our beach lines the ocean waves spray directly on the steel and it means a yearly job of repainting and then the rust will get in.

Four men, including a Foreman, makes up gang No. 8, the plumbing or water service crew, and as we have approximately 600 plumbing fixtures that are subject to the constant use and abuse of the public you may well know it keeps these men going to keep them in first class condition and
handle other duties which include repairs and installation of water lines, recharging and installing fire extinguishers and other fire protection apDaratus, repairs to stoves and other miscellaneous duties that arise.
One of the largest and worst features we have to contend with in this line of work is the maintenance of plumbing and water service in our section camps. In several of our large camps in addition to sanitary plumbing fixtures, are also hot water facilities for bath and washing of clothes, and as this water is all drained to cesspools and camps are located in low water bearing ground, it is no small problem to handle the waste in a sanitary manner. Electroylitic action also causes considerable trouble at times in our various water lines.

This constitutes a general outline of the duties performed by this department at a cost of approximately $\$ 400,000.00$ per year, of which about 50 per cent goes to Capital acct. or new work, the balance for operating expenses.
It is during the month of January and February which we are now facing when the rainy season visits us that the B. \& B. Department is put to the real test, when as in 1914 and again in 1916, almost every line of the Pacific Electric was washed out and in several places gaps of from 750 to 1000 feet, which had to be bridged before operation could be resumed, when a straight 48 to 72 hour shift working in the rain and wind were matters of small consequence, as the trains must run and the tares were mended, although 1914 washouts alone cost the P. E. Ry. Co. around $\$ 250,000.00$, and it took practically a year to completely repair the damage.
Although 1914 was a disastrous flood year it awoke the Government as well as the County officials to the necessity of flood protection and since that time thousands of dollars have been spent for this purpose and we have co-operated with these people by erecting clear span steel bridges over the most important rivers, and we have on program now the placing of no less than six structures at the most dangerous places which will eliminate washouts at these points.

It will probably be a long time beore we see another flood like the one in 1914, but we must be ever on the alert and ready to cope with one if it chould come, and her's hoping it don't, and looking forward to a prosperous year for the P. E. Ry. Co.

## DID HIS BEST

"You are suffering from brain fag and ennui, you should take more interest in your business," announced the specialist.
"I would like to," replied the patient.
"Then why don't you?" demanded the specialist.
"The law won't let me," replied the patient. "I'm a pawnbroker."-Houston Post.

## BONDING AND WELDING

## By L. J. Smith

With the Pacific Electric, like practically all other electric railway systems in America, the return circuit for the propulsion current is through the rans. For this reason it is necessary to have the rails electric ally connected by some other method than by the angle bars or fish plates. When the track is not welded some form of electric connection between the rail ends is necessary.

In tine early development of electric railways, the bonding of the rail joints was not thought necessary and it was not until the Engineers found that the voltage on the line, a short distance from the power houses or substations was very low and that there was a great deal of power lost somewhere on the line, that the study of rail bonding was given an important place in Electric Engineering problems. It was also observed that the snow would always melt away from around the rail joint. The reason for this being that the joints would work a little loose and the dirt and water would get in between the angle bars and the rail, thus rusting the rails and making poor electric connection. As the current would pass through these joints it would cause the same to heat up due to their high resistance, result of which caused the snow to melt from around the joint. This was the cause of the low voltage on the line and the loss of power.

To meet this need various types of bonds have been developed. The type used on the Pacific Electric system is the brazed bond. This bond is brazed to the rail by what is known as the electric spot weld process and is accomplished by passing a low voltage, high amperage, alternating current througn the electrode and the bond to be brazed to the rail. The current being about 3,000 amps. This heats up the carbon electrode to a white heat, causing the brass sleeve around the bond to melt. When a flux of borax is added to this melting brass, it will adhere to the rail, resulting in what is known as a brass to steel braze.
On the Bonding Car which applies these bonds is mounted a low tension transformer and an 18 K . W. rotary converter. This rotary converter is used as a motor to propel the car around and is connected to the driving shaft by a friction clutch. When necessary to apply a bond the clutch is disconnected and the rotary is run idle. On one side of the armature of this rotary conveter is a set of coils with two slip rings off of which is delivered about 280 volts of alternating current. This current is passed through the transformer on the high tension side and delivers on the low tension side about $3,000 \mathrm{amps}$. which pass through the bus bars to the electrodes. These cars are moved throughout the system just the same as the work motors and line cars are dispatched over the line by order of the dispatcher.
In onen track a 300.000 circular mill "U" bond with laminated copper
ribbons is brazed on the ball of the rail, but in paving where most of the rail is concealed, the bond is brazed to the webb of the rail under the angle bars. This type of bond is called the concealed bond. This protects the bond from being sheared off by the automobiles and wagon wheels.
Besides having each rail joint bonded it is necessary to have installed around special work such as crossings, frogs and turnouts copper cable to carry the current around the same. These cables are installed in redwood boxes or roofing paper embodied in asphalt, the ends being brazed to the webb of the rail.

The bonding is inspected by Bonding Inspector at least once or twice a year and on some lines where the traffic is very heavy and through signals, the bonding is inspected about every four months. In open track the bonding is inspected by visual inspection. In the paving or concealed work, the same is inspected by a meter to determine the amount of drop in voltage across the joint. If tine resistance of the rail joint plus the bonds equals five times as much as that of the continuous rail, the joint is marked to be repaired. A list of these bonds is then sent out to the Bonding Foreman for repairs. These Inspectors are good walkers as they have walked every foot of track throughout the system.

## Welding

You have all no doubt noticed while coming home late at night from work or otherwise, a man with a little car along side of the rail with a hood over his head and a very incandescent light radiating from the rail in front of him. These are Arc Welders and they are building up the
crossing points and frogs, also battered down rail ends. This is what is known as the metallic Electric Arc Welding process for reclaiming worn off steel special work or other wornout material.

These Welders work at night as there is very little interruption from traffic, and automobiles. This process of welding is accomplished by the passing of the current from the trolley wire through a set of grids mounted on the cart into the electrode holder in the Operator's hand. The Onerator places a small steel electrode in the holder and strikes the rail with same and draws it away about $1 / 4$-inch from the arc. The neat generated in this arc is about 6000 degrees fahrenheit. Water boils at 212 degrees, so you can see the tremendous amount of heat that is concentrated at the end of a $3 / 16$ inch steel electrode. The steel electrode is heated to such a degree of heat that small molten globules of steel are fused off of the end of the electrode and drawn througi the arc and adhered into the rail. At the same time the Operator automatically feeds the electrode toward the rail and draws the same along the rail to deposit the material in rows paralel to the rail. Other rows are deDosited in a cimilar manner until the worn off section is built up even with the top of the rail. The Operator
applying a straight edge upon the work from time to time to see tinat the deposited metal does not get higher than the top of the rail.

The Operator wears a hood with dark glasses in front to protect his eyes from the incandescent rays that are radiated from the arc. These rays are similar to those radiated from the sun only the Operator is a great deal closer to the work and they would burn inis eyes if not protected by the dark glasses, therefore the next time you see these men working, please do not go up and try to look at the light without a suitable dark glass as the same will cause you to have a headache and make your eyes sore.

## PAVING FORCE

## L. A. Crooks

The Paving Department is quite a factor in keening the good will of the public and helping the railroads run smoothly; about $95 \%$ of the poor pavement is due to rough track and before the paving is repaired the track must be in good condition, the ties and rail must be solid and not working, thereby making a smooth track for the cars, and in repairing the paving and laying new pavement it gladdens the hearts of the vehicular traveling public.

You will notice the autoist and all vehicular traffic prefers to travel on the car tracks, the main reason is on account of the smoother pavement; we don't intend to infer that our pavement is the best at all times, but when it is getting rough and uneven we send one of our repair gangs out and do the necessary.

There are approximately 210 miles of paving on the system besides the hundreds of road crossings we have to maintain and you must not think we are asleep at the switch and don't know the condition of every bit of paving as well as road crossings on the system, if we do not make repairs immediately. We have many ways in knowing the conditions of the crossings and pavement besides inspection, as there are numerous city inspectors, road supervisors and the traveling public who complain and send in reports covering pavement and road crossings that are not in the very best condition.

We can compare pavement to any equipment of the railroad to the extent that it is not discarded at the first signs of wear, but we add longer service to it by cutting out and renewing worn places, cutting off high places and filling in the depressions. We not only repair the old pavement but lay new whenever it becomes necessary to pave the streets and highways that our lines parallel. We are required to lay and maintain pavement in and between our tracks and for two feet outside of the rail.
There are many kinds of pavement. but the pavements that are well adapted to this climate and used by this comnanv are of three different kinds. Oil Macadam, which consists of oil and rock. The first layer of rock to the reanired denth of the pavement is of $3^{\prime \prime}$ rock which is rolled by a 12 -ton roller until it is compact and ceases to creep or sink beneath the
roller, this rolling compresses the rock to about $40 \%$ of the original thickness. Then $11 / 2^{\prime \prime}$ rock is filled in to the required depth of the paving and it is in turn rolled to a compact and even surface, then the first coat of hot oil and asphalt is applied which is about $3 / 4 \mathrm{gal}$. to the square yard of surface, then the third layer of rock is applied which is $3 / 4^{\prime \prime}$ rock which is rolled in the oil until the surface is smooth and compact, then the second coating of oil is applied and the fourth layer of rock is layed of $1 / 4^{\prime \prime}$ rock which is rolled to a compact and even surface and enough rock applied to absorb all the oil so that none shows or comes through the surface. This layer is rolled until it is smooth and firm, making a smooth and durable pavement.

The other two kinds of pavement have the same surface, but the base is of different material; one is composed of sand, cement, rock and water mixed in the required proportions which is filled in the track within $2^{\prime \prime}$ of the top of the rail and allowed to set and then a surface of asphalt is applied and rolled with a heavy roller until the surface is smooth, free from inqualities and its specific gravity fulfilling the requirement of city ordinances, then rock dust is swept over the surface and it is rolled into the asphalt.

The other class of base is asphalt mixed at the required temperature, according to city specifications. This is filled in the track to the required depth of the paving and is rolled with a heavy roller until it ceases to creep or sink before the roller and is allowed to cool, then the surface of hot asphalt is layed and finished as described above.

The maintenance of pavement alone for the last eleven months of 1920 amounted to $\$ 143,735.53$ besides the money in equipment which consists of heavy rollers, pouring kettles, auto trucks, hand rollers, smoothing irons, long handled shovels and rakes, etc. So you see the company is compelled to expend an enormous sum to accommodate the public with a smooth driveway as the pavement is of no advantage to the railroads.

## THE EASTERN DISTRICT

## H. E. DeNyse

What is known in the Engineering Dept. as the Eastern Division includes all lines east of LaVerne.

We maintain 110 miles of interurban and 36 miles of city lines, including bridges, buildings, paving, bonding and signals. The City lines are in Pomona, San Bernardino, Riverside and Redlands.
This Division was formed in 1911, when the Pacific Electric took over the holdings of the different companies operating in these cities, linked them together and operated them as one division.

In taking over these lines, we fell heir to a fine assortment of misfit and worn out track material, the rail ranging all the way from 16 to 100 lbs . per yard and the ties from fence post size up to "regular" ones.
The switches were mostly of the vintage of 1889, and it seemed as though each company tried to be distinctive in this respect, each having
its own design, and in some cases several designs, each a little different from the other and none of the parts interchangeable.

Shortly after taking possession of these properties we began changing out the relics and we now have but few of them left.

Being somewhat isolated it is often necessary for us to settle our own difficulties with the different City and County authorities and act as sort of a shock absorber between them, the public and our Los Angeles office.

To the Engineering Department is entrusted the task of expending vast sums of money annually. In doing this, it is easy to follow the lines of least resistance, doing things the easiest way, letting matters take their course, but it is quite a different matter to convince someone else that your way is the right and just way, especially if it is evident that the Railway Company is to be benefited financially.

We have found in many cases, however, that this can be done through proper methods, not by "watchful waiting," but by doing the right thing at the right time.

First it is necessary to gain and hold the confidence of the communities you are dealing with. Without this you can do nothing. If you "put something over" on them once, your going will be hard thereafter.

During our ten years in this territory, we have gained a great many concessions that have meant the saving of large sums of money for the Company, and have yet to be accused bv the authorities of "putting something over" on any communitv.

There is a great deal of satisfaction in having it said by the people of a community that the Pacific Electric has always done the right thing by them in the past and that they can be depended upon to carry out this same policy in the future. when matters having to do with the expenditure of large sums of money are under discussion.

We have at times found men in public office who will not recede from a stand they have taken where the Railway Comnanv is to be benefited, even hough the cities they represented stood to neither gain nor lose, their idea being that "the Company has plenty of money, make them snend it." But such cases are few, and we have alwavs found a way out.

It is the function of this denartment to snend a good portion of the ComDany's monev and we are looked to spend it wisely. We have no means of making monev, but it is iust as important to save it as it is to make it, so it is 1 n to us not to overlook an onportunitv to save the money that has already been made.

## Lucky Adam

Little Charles had just been chastised by his father. "Mama. was Adam the first man?" he asked.
"ves, dear."
"Didn't he have any pana?"
"Of course not," said Charles' mother.
"Gee. but he was lucky." exclaimed the little fellow.-Cincinnati Times-

## PASSENGER DEPARTMENT NOTES

Mr. John Robert Manahan, who has been employed in our Main Street Station ticket office since August, 1917, having worked up to the position of Cashier, has resigned from the service of the company to embark in the motion picture business with his brother (who was formerly a P. E. employe) in Imperial Valley. We are sorry to see you go, Bob, and our best wishes go with you in your new field of endeavor.

Mr. Norman T. Sewall, who has been acting as Agent at the office maintained in the yard of the Los Angeles Shipbuilding \& Drydock Company at San Pedro is being transferred to fill the vacancy caused by the resignation of Mr . Manahan. Mr. Carey E. Wilcox, Solicitor, Personally Conducted Trolley Trips, has been appointed Ticket Agent at the Ship Yard vice Mr. Sewall.

Miss Julitta Fay, Comptometer Oparator, Main Street Ticket Office, has iust returned from a trip to Cheyenne, Wyo., having been called east on acrount of the death of her father. She reports the weather as being very cold back in that section of the country, and was glad to get back in Sunny Southern California.

Among some of our foriner fellow employes who pail us a visit curing the Christmas-New Year week was Mr. Paul T. Porter. Mr. Parter is now connected with the Southern Facific Company at San Francisco, vorking with Mr. R. E. Kelly, jur ic rmer General Agent. He state; that there is no place like San Francisco and ic well pleased with his new location. We agree with you Paul lhat ther: is no place like San Francisco and that is why we prefer Los Angeles.

Did you notice the crowds around our Main Street Station on New Year's Day? Some mob, but with team work by both the transportation and traffic department employes the throng was gradually thinned out and by noon things around the station became practically normal again. It may be interesting to note that 22,066 tickets were sold at Main Street Station on this date from Los Angeles to Pasadena, exclusive of those sold by conductors on the cars. Further information concerning the number of passengers handled to and from Pasadena on this date appears an another page of this issue.

General Agent Harry O. Marler and wife just recently returned from a week's sojourn in El Paso, Texas, where they visited with Mrs. Marler's mother. Harry says he crossed the border into Mexico at Juarez but we have failed to see anything to prove his statement. Of course it is quite a distance back to Los Angeles through a dry country.

CLUB CALENDAR FOR JANUARY
Monday, January 10th-
P. E. Band Rehearsal, 8 p. m.

Wednesday, January 12th-
P. E. Rod and Gun Club meeting at $8 \mathrm{p} . \mathrm{m}$. Refreshments served after mecting.
Thursday, January 13th-
Moodlight dance in Auditorium, 8:30 p. m.
Friday, January 14th-
Regular Movie Show in Auditorium, 8 p . m.
Northern Division Safety Committee Meeting, $2 \mathrm{p} . \mathrm{m}$.
Sunday, January 16th-
P. E. Rod and Gun Club, Rabbit Drive. Leave P. E. Club, 3 a. m.
Monday, January 17th-
P. E. Band rehearsal, 8 p. m.

Electrical Dept. meeting for all employes of the Electrical Dept., in Assembly Hall, 8 p. m. Refreshments served after the meeting.
Tuesday, January 18th-
Transportation Dept. meeting of all Divisions for all employes of the Transportation Dept., $8 \mathrm{p} . \mathrm{m}$. Refreshments served
Thursday, January 20th-
Club Dance in Auditorium, 8:30 p. m.

Friday, January 21st-
Regular Movie Show in Auditorium, $8 \mathrm{p} . \mathrm{m}$.
General Staff Meeting in Assembly Hall, 10 a. m.
Monday, January 24th-
P. E. Band rehearsal, $8 \mathrm{p} . \mathrm{m}$.

Tuesday, January 25 th-
Engineering Department meeting of all employes of the Signal Division in Assembly Hall, 8 p. m. Refreshments served
Wednesday, January 26th-
P. E. Club's Annual Ball at Redondo Beach Auditorium
Thursday, January 27th-
No dance account Annual Ball at Redondo, Wednesday, the 26th.
Friday, January 28th-
Regular Movie Show in Auḍitorium, $8 \mathrm{p} . \mathrm{m}$.
Monday, January 31st-
P. E. Band rehearsal, 8 p. m.

Tuesday, February 1st-
Mechanical Dept. meeting for all employes of the Mechanical Dept. 8 p. m. Refreshments served
Wednesday, February 2nd-
P. E. Club Executive Committee Meeting, 2 p. m.
Thursday, February 3rd-
Jazz Novelty Dance in Auditorium, 8:30 p. m.
Friday, February 4th-
Regular Movie Show in Auditorium, $8 \mathrm{p} . \mathrm{m}$.
Monday, February 7th-
P. E. Band rehearsal, 8 p. m.

Tuesday, February 8th-
Southern Division Safety Committee Meeting, $2 \mathrm{p} . \mathrm{m}$.
Wednesday, February 9th-
P. E. Rod and Gun Club Meeting 8:15 p. m.
Thursday, February 10th-
Club Dance in Auditorium, 8:30 p. m.

Western Division Safety Committee Meeting, $2 \mathrm{p} . \mathrm{m}$.


## ANOTHER RABBIT DRIVE

The Pacific Electric Rod and Gun Club Are Gong Again Sunday Morning, January 16th at 3 o'clock. Last month the Rod and Gun Club
section of the Club held its Second Rabbit Drive near Palmdale under the guidance of Roy Spafford and Jake Geopfert that resulted most successfully, over 600 rabbits being taken.
Members of the Rod and Gun Club Section gathered at the Club on the night of December 4th and at 3 o'clock on the morning of the 5th started for location, arriving on the grounds at 8 a . m . and the drive began, results as stated and was participated in by the following:
Roy Spafford H. J. Bell Jim Clark S. W. E1liott Jake Geopfert Mr. Howland Mr. McHenry J. W. May and son Irwin Lipschultz Mr. Harold Bert Gessinger T. E. Wooderson Dan Terry

Mr. McRugal
L. W. Speak
F. G. Volharts Mr. Jenkins Roy Volkhart Conrad Oefinger Mort Tyler Jess Greene Ivan Cammick A. B. McCloud P. W. Gonzales C. G. Gonzales T. F. Boyd M. D. Gilbert

A night or so following their re-

Club to members of the Rod and Gun Club Section and other employes and a distribution of the remaining rabbits made to those who cared for them.
As shown by the heading, the next drive will be on January 16th, leaving the Club at $3 \mathrm{a} . \mathrm{m}$. and to which all Pacific Electric employes are invited and the following is for the information of all who care to participate:
Reservations must be made at the Club before going.
Guns may be rented from Club not later than January 11th.
Register your machine, if you have one, and the number you can accommodate therein, with Club office.
Parties not having machines will be required to pay $\$ 2.50$ round trip per person.
Shells can be purchased from Club at reduced price.
Bring enough water and lunch to last you for the entire day.
Club will be kept open Saturday night, the 15 th, until $3 \mathrm{a} . \mathrm{m}$. the 16 th, and hot coffee and doughnuts will be served just before leaving on the hunt.
All machines will be bannered with large numbers for guidance, and all will leave from the Club.
All rabbits secured will be given to P. E. employes requesting them and any remaining, after employes are taken care of, will be given to charitable institutions.
While this event is open to any employe in the Pacific Electric, the Rod and Gun Club Section will appreciate your membership and solicit you to become a member,

THE CLUB'S ANNUAL BALL
To be Given by the Four Thousand Members of the Pacific Electric Electric Club for the Employes and Their Families at Redondo Beach Auditorium Wednesday, January $26 \mathrm{th}, 1921$, from $8 \mathrm{p} . \mathrm{m}$. to $11 \mathrm{p} . \mathrm{m}$.

At the last meeting of the Executive Committee and upon sanction of Vice-President Titcomb, the Pacific Electric Club decided to hold its annual ball at Redondo Beach Auditorium on Wednesday, January 26th, for the entertainment of the Pacific Electric Railway employes and their families, dancing to begin at $8 \mathrm{p} . \mathrm{m}$. and continue until $11 \mathrm{p} . \mathrm{m}$. The hour of closing being fixed so that all may return to their homes by midnight or shortly thereafter.

It is hoped that as many employes as possible, who can obtain release from duty for the evening in question, will avail themselves of this invitation to attend, and transportation from points on system to Redondo Beach should be requested by employes through regular channels, information being given to Division Foreman, at the various points, of intention to attend, in order that sufficient car service to and from the Beach may be arranged.

In procuring transportation, regular pass application rules apply and relationship of dependents must be given, the same as in former cases of this kind.

There will be no charge for admission to the dance pavilion, but identification will be required of employes for admission to the dance hall of themselves and those accompanying them.

Our Pacific Electric Orchestra will be largely angmented for the occasion and the best music ever provided for an event of this kind will be heard that night.
Make your request for transportation, if needed, early in order that the different departments may have ample time to issue and to know just what the attendance will be.

Division Foremen will notify Mr . Annable not later than noon of January 25 th, stating approximate number of employes who will avail themselves of this outing and the points at which they will board trains.
It is needless to say that a wonderful and joyous occasion is before us as the ball is to be of the carnival type which includes serpentine and comedy trimmings and will, in reality, be this company's greeting to 1921.

## MORTUARY FUND

During the past month four claims because of death were filed against our Mortuary Fund and payments made therefrom to beneficiaries of the parties in the amounts shown below:

Arthur P. Brossoit, Clerk in Accounting Department, $\$ 480.00$.

Clay F. Johnson, Car Repairer, Sherman, \$475.00.

Sam Krantz, Motorman, Southern Division, \$480.00.

Charles Honeysett, Conductor, Western Division, \$475.00.

CLUB COMMITTEE MEETING
Regular monthly meeting of the Pacific Electric Club Executive Committee was called to order at $2: 10 \mathrm{p}$. m . Wednesday, December 1st, Mr. Bishop in the chair.

The following absentees were noted: E. W. Colpitts, H. L. Young, D. W. Dwyer, A. O. Williams, T. C Holyoke, J. H. Brigham, G. W. Orr, C. J. Tenny, F. F. Small (represented by Mr. Stevens), E. C. Johnson and S. H. Anderson.

Minutes of the last meeting were read and approved.

Manager's report as follows:

## P. E. Club Fund:

Balance on Hand October
31st, 1920
Receipts
942.18

Total
872.50

Cills and Expenses
\$1,814.68
Balance on Hand Novem-
ber 30th, 1920
. $\$ 950.53$
Relief Fund
Balance on Hand October
31st, 1920 .................... 239.86
Receipts
87.85

Total
Paid Out in Relief
327.71
20.00

Balance on Hand November 30th, 1920
. \$ 307.71

## Mortuary Fund:

Manager Stuart reported three payments under Mortuary Fund in the ollowing cases
R. G. Evans, Los Angeles Freight House, $\$ 490.00$.
F. H. Murphy, Mechanical Department, $\$ 490.00$.
C. F. Johnson, $\$ 475.00$.

Also reported a payment in September of $\$ 445.00$ in the case of J. E. Garrett, Electrical Dept.
Mr . Stuart reported that the Minstrel Show was a big success and thanked the Committee for its cooperation, also thanked Special Committee appointed to take care of receiving outsiders at the last show given on the 26 th of November.
Mr. Stuart stated that his letters to employes not members of the Club have been getting results, and the membership has increased to 4,100 .
Mr . Stuart reported that Mr. R. M. Hyde had been elected to the Executive Committee to take the place of
A. F. Parker, Mechanical DepartA. F.
ment.

Mr. Bishop made a few commendatory remarks relative to the Minstrel Show which was such a big success. He stated that he had taken up the matter of monthly meetings at the Club to be held by the Mechanical Department, and that Messrs. Titcomb and Small had approved. The matter was referred to Manager Stuart to make arrangements for these meetings.

Mr. Pierce of the Mechanical Department brought up the subject of service to Torrance, to handle the Mechanical Department employes, and stated that it had been suggested that the second section of this train be run via Delta and West Athens.

Mr. Annable stated that he would look into the matter.

Mr. John Richards of the Mechanical Department brought up the question of delay in employes receiving telephone installations, transfers, etc. Mr . Annable read to the Committee a circular which he had received from the telephone company, which gave the Committee an idea of the telephone company's lack of facilities to take care of the large number of installation orders which they have received as a result of the tremendous growth of the community.

Mr. Annable brought up for discussion the subject of restaurant facilities in connection with the Club. It was decided to give the matter thought and bring it up again for discussion at the next meeting.

Mr. Stuart said that the Club would hold its Annual Ball at Redondo some time during the month of January. The P. E. Band to furnish music for the occasion.
There being no further business, the meeting adjourned at $3: 55 \mathrm{p} . \mathrm{m}$.

## PE

## THE CLUB'S SANTA CLAUS

Continuing the custom that has prevailed since the establishment of the Club, its Manager, Mort Stuart, played Santa Claus to our ill and inured employes at Crocker Street Hospital and Monrovia Sanatarium this year, delivering to each of our fllow employes at these places, with the best wishes of the Club and in the spirit of the season, packages containing raisins, dates, white and black figs, oranges, apples, orange blossom honey, ripe olives, walnuts, almonds, chocolate candies and other confections, and among those called upon by our Big Santa Claus were:

Mrs. Eleanor Willey, 137 West Lemon St., Monrovia.
Mr. Carl D. Crockett, 432 West Palm, Monrovia.

Mr. C. E. Larivee, 322 So. Heliotrope, Monrovia.

Mr. C. H. Killian, Cor. Penrose and West Lemon, Monrovia.

Mr. W. E. Bittner, Sierra Madre Canyon, Sierra Madre.

Miss Ilma Bateman, 1958 Penrose Ave., So. Pasadena, and Messrs. L. D. Brinkman, Dr. G. H. Hutchinson, William Koeh1, Chas. Collins, W. J. McDonald and W. L. Emery, at Crocker Street Hospital.

All of us are prone to forget, in our business hurry, these less fortunate fellows of ours and it is suggested that one of our New Year resolutions should be to remember and visit oftener those of our number who fall sick or are injured and compelled to remain for various lengths of time in these institutions for repair and recuperation. Let us, during the next year, cultivate more thoroughly than ever the friendliness of those who surround us, and remember them more kindly in days of affliction that may come to them. Let us avail ourselves of the visiting hours of the institutions in which our friends are held, and cheer them to more speedy recovery.
Grateful acknowledgement of the visit of our Santa Claus by letter and
by card have been received from Miss Ilma Bateman, Mr. and Mrs. C. E. Larivee, W. E. Bittner and C. H. Killian.

## May the New Year bring to all,

 who are now suffering, a speedy return to health, joy, and the association of their friends.
## BAND IN TOURNAMENT

Our big band of 36 pieces made a very creditable appearance in the Pasadena Tournament Parade as a part of the 3rd Division, and comments heard along the line of march indicated that the music provided by the organization was equal to the best furnished by any of the bands in the parade, and the organization is one of which we are all justly proud.
Its next public appearance will be at the National Orange Show at San Bernardino at which time it will undoubtedly be in even better condition from a musical standpoint than it was at Pasadena.

## ANOTHER SWEET SINGER

Daniel Sanchez, a sweet voiced singer, employed in the Local Freight Office, very pleasantly entertained the audience at our Big Movie Show last month by rendering two beautiful ballads, "Little Mother of Mine" and "Beneath Thy Window."
It is hoped to hear him very soon in other selections.

## TWO BOWLERS WANTED

Two more members are wanted for the Pacific Electric Bowling team, to enter the Second International Telegraph League. Entrants must be Pacific Electric employes and should be able to average 180 or better for ten games. If you can qualify and want in, call up L. H. Covell, dispatcher, Southern Division.

## POOL TOURNAMENT

Tournament for classes "A" and "B" pool players will be held at the Club Rooms beginning Wednesday, January 19th.
Registration for both classes will be open until Saturday night, January 15 th and at that time the names will be drawn, giving the order in which the players will start.
Each game will be 75-ball, continuous line-up pool.
Watch the bulletin board in the club rooms for the announcernent.

All contestants not appearing on the night they are scheduled to play will forfeit game unless absent on account of illness.

## PE

## UNEQUAL LOSSES

Frederick was sitting on the curb, crying, when Billy came along and asked him what was the matter.
"O, I feel so bad 'cause Major's dead-my nice old collie!", sobbed Frederick.
"Shucks!" said Billy. "My grandmother's been dead a week and you don't catch me crying."
Frederick gave his eyes and nose a swipe with his hand and, looking up at Rilly, sobbed despairingly.
"Yes, but you didn't raise your grandmother from a pup."-Harper's Magazine.

## NEW YEAR'S DAY POWER LOAD

Insuring uninterrupted service to Pasadena on New Year's Day despite the excessively heavy traffic which must be handled under peak condicions, involves the problem of transmitting and distributing approximately 50 per cent of the total system's electrical energy load for the day to the substations feeding into the Pasadena lines.


## Watching the Swings

To assist Pasadena, Valley Junction and Altadena substations, two portable substations, with a combined rated capacity of 1200 kilowatts, were placed at Sierra Vista, and portable 1754 rated at 1000 kilowatts was placed at San Marino. The portables served to relieve and distribute the heavy ampere swings on the substation generators and to maintain adequate voltage at the trolley.


On Watch
However, in spite of this additional equipment, the heavy traffic loaded the substations to their utmost limits. Swings of 7,500 to 11,000 amperes were experienced at Valley Junction and Pasadena substations respective$y$, and in the same proportions at the ther substations.


A Critical Moment
The heaviest load occurred between :00 a. m. and 10:00 a. m., during which time the continuous load averaged over 12,000 kilowatts per hour.

## ELECTRICAL DEPARTMENT MEETING

The regular monthly meeting of the Electrical Department was held Monday evening, December 20, 1920.

Mr, Ewers, Chairman, presided. Sixty members of the Department were in attendance despite the closeness of the holidays, and weather conditions.

Mr. Titcomb was in attendance and took part in discussions incident to matters brought up at the meeting. Mr . Titcomb also explained and discussed matters pertaining to the financial condition of the Pacific Electric, which are matters of vital interest to all of the employes.

After the meeting, refreshments were served through the courtesy of the Pacific Electric Club.

The next regular meeting will be held Monday evening, January 17, 1921, at 8:00 p. m., which meeting all employes of the Electrical Department are urgently requested to attend. These are your meetings and it is up to you to make them a success, and further, you miss something every time you remain away.

## FRESH AIR

Ventilation of cars is always a live subject during the winter months when interurban cars are heated. Every conductor has had his experiences with the crabby, thin-blooded passenger who wants the car shut up tight as a bottle and not a breath of fresh air admitted, and with the fresh air find who insists on sitting inside and opens doors and windows to make the closed section of the car as breezy as the open end. To handle these extremes so that the fair-minded moderate passengers may have fresh air and warmth at the same time requires diplomacy. The instructions contained in Rule 228 are, of necessity, flexible and much is left to the good judgment of the conductor.
It has been found that on most cars the opening of two ventilators at the forward end of the closed section is sufficient, if the rear door is frequently opened, to keep the air fresh without drafts. In some cases more ventilation is necessary.

All conductors are asked and expected to give the ventilation of their cars special care for the comfort and health of our patrons.

## CARELESS AUTO DRIVERS

There is a way to reach the careless auto driver. If a machine cuts across in front of your car, making it necessary to stop with an emergency application in order to save an accident, make a note of the license number and send it in on miscellaneous report blank with the names of witnesses. The same applies to any other carelessness on the part of auto drivers, which you may notice. These reports will be forwarded to the State Railroad Commission, the Chief of Police of the City of Los Angeles, if the accident occurs in the city of Los Angeles, and to the Auto Club of Southern California, and will be given attention.

# NO ACCIDENT WEEK <br> AN EFFORT TO SAVE LIFE AND LIMB CO-OPERATED IN BY ALL EMPLOYES. 

 THE OPENING STATEMENT BY CHAIRMAN S. A. BISHOP; A REVIEW OF PASTAND FUTURE ACTIVITIES BY GENERAL SUPT. ANNABLE, AND THE PUBLICS' VIEW.

The law imposes the duty upon every member of society to exercise ordinary care to preserve the wellbeing and property of all other persons. The law also, through our Supreme Courts, compels all employees and agents of public service corporations to exercise the "highest degree of care" to preserve the safety of all passengers of common carriers. Ordinary care, as defined, simply means the exercise of that degree of care and caution which "an ordinarily prudent man would perform." The highest degree of care, as applied to all employees of this railway company, means that every man, in his department of the business, shall at all times obey all of the rules and regulations set forth for his observance and guidance which have been promulgated and are being enforced because of our realization of our duty to our patrons as defined by this term "the highest degree of care."

However laudable our ambition may be to operate the Pacific Electric Railway for seven full days without a single accident it is, nevertheless, inconceivable that this shall be accomplished, for the reason that we have no control over the conduct of the third person. If every employee will perform his full duty for this period we shall have achieved a onehundred per cent record, for the reason no accident will have resulted from the negligence of any of the company's agents. The epitaph written upon the top of a cracker box and placed at the head of the grave of the Arizona cowboy, which read: "He done his damnedest. Angels could do no more," ungrammatically sets forth the full performance of every duty.

While it is true that every man who performs his day's work without having, through his own negligence, suffered an injury, or through his own carelessness contributed to an injury sustained by another person, has only performed his plain duty, yet, he has accomplished much, and should be lauded for his effort, for should we be able to multiply this individual experience, for the one day, by the number of employees in the service of this corporation, and again by seven, we will have reached our goal; that is, 5,000 employes performing perfectly for seven days would be the equivalent of a perfect performance of one man for 35,000 days.
Every one of us realize what a wonderful achievement it will be to spare the life and save the limb of a number of careless persons who otherwise would
suffer injury, but for vigilance on the part of all of us for this brief period of time. It is obvious, also, that this railway company will indirectly be benefited, and it is also plain that every employee will, thereby, be spared the conscious responsibility of having operated an agency which resulted in an accident and injury to a person or a number of persons. He will also have saved himself the ordeal of testifying before a coroner or in a civil court before a jury, and there render an accounting of the manner in which he performed his duty, as laid down by the law and as defined in the beginning of this article.

Further, since our personal records contain by item an account of the manner in which each man discharges his duty, he will have passed through this period without an accident for which he is responsible, and preserved his record, maintained his standing, and saved at least a number of dollars represented by the number of demerits which would have been assessed because of any failure.
It is too much to hope for, that our accident reports which average thirty per day, may for the seven days between January 24th and the 31 st instant contain the account of no accident for which a man, who signs that report, may be held responsible. "No chain is stronger than its weakest link." The Pacific Electric Railway is going to be able to determine definitely whether there are any weak links, and those weak links will be named for the man or men who fail on this occasion. In every department there will be a record kept, and each department and the individuals employed therein, will be judged by the result, as reported by our statistician. Since our Central Safety Committee has favored me with the appointment as chairman of our organization, for this campaign, I hereby pledge myself that I shall not fail in my duty to myself, to my company, to my fellows, for at least this short and fleeting seven days. And I solicit each of you severally and all of you co-operatively to join me, and I am sure we will already have made it possible to merit a one-hundred per cent rating, for where "there is a will there is a way, and even though "watchfu] waiting" has been considered an excellent policy on at least one occasion I suggest that for the time being you permit me to do all of the "watchful waiting," while you, each and all of you, work earnestly and strive diligently to preserve for himself a clean personal record, unmarred by a single failure to perform your full duty particularly during these seven days.
S. A. BISHOP.

OUR PAST AND FUTURE EFFORTS
For many years the Pacific Electric has maintained Safety Committees on all Divisions, holding meetings each month and considering suggestions for safer operation made by all employes. A Central Safety Committee consisting of heads of all departments has also met monthly and through the work of these committees hundreds of safety suggestions have been adopted and the idea of safety in our operation has been kept before all employes. That this organization has been effective is indicated by the fact that the number of preventable accidents in recent months does not show much increase over the number six or seven years ago, although the volume of business handled is very much greater.

There has been, however, a large increase in the number of accidents for which the Company or its emloyes cannot be held responsible. With this fact in mind the Central Safety Committee has welcomed the suggestion of an employe of the Northern Division that a No Accident Campaign be conducted, lasting one week, during which we shall attempt to operate the Pacific Electric without an accident for which we shall be responsible and shall ask the public to use the greatest care to prevent accidents on our lines. It is thought that if all the employes of the Pacific Electric, their families and friends concentrate their thoughts upon the prevention of accidents and enlist the attention and co-operation of all with whom they come in contact we shall not only reduce the number of accidents during the No Accident Week but the effect will remain.

For some weeks past the Company has, in conjunction with the Los Angeles Railway, been bearing the expense of lectures to school children throughout Los Angeles County, calling their attention to the hazards upon our streets and enlisting their co-operation in accident prevention. No one can estimate the amount of good this work is doing. If but one child is impressed sufficiently to lead it to avoid accident which might be fatal and that child were yours, you would believe that the expense of the effort was not too great. So in this No Accident Week if each one of us can avoid all accidents we shall not only have nothing to regret, but on the contrary many homes may be happier because of the extra care we are putting forth, which may have saved a life or serious injury to someone.
The week commencing Monday, Tanuary 24th, has been selected as No Accident Week. Announcements will
be made from time to time by bulletin and otherwise concerning this week. Every employe is asked to bear in mind and join in the effort to eliminate entirely accidents for which employes of the Company may be held responsible.

## THE PUBLIC'S VIEW

I am the public which the railways serve, and from whom you receive pay for your service; and service is not merely tendering to me the right (for a consideration) to enter your cars.

Your duty to me and the service you are to render merely begins at that point, and even though I contributed nothing financially to your company, you still owe to me a consideration because I am your fellow man and upon that ground I am entitled to consideration when not aboard your trains.

Because I am your fellow man and belong to your human family, I am entitled to a warning from you should danger threaten from your cars, while crossing your tracks, and should you have time and a first warning be not sufficient, for humanity's sake you should warn again and again in the hope that your efforts may save me.

The streets in my cities, over which you pass, over a portion of which you have control, are of necessity at times in the course of repair by your company. You owe it to me as a fellow being, if for no other reason, to place danger signals at points over which I may pass, and, if not warned, sustain injury.

As a passenger upon your trains you owe it to me as a trainman to stop at a point where I may best board your cars without the liability of injury. You owe it to me to receive me courteously and it is a part of my understanding of your obligation to conduct me safely to my destination; and it is for this element as well as for other elements entering transportation that I pay you.

The burden of your obligation to me is not solely upon the trainmen, it rests also upon those who construct and maintain the highway over which $m v$ train shall pass, and upon them falls the duty of protecting by proper track repairs, by detecting blemishes in switches, frogs, rails, trestles, landing platforms and all other factors that enter into the roadbed.

The mechanic of the shops owes it to me in his construction work to make the car, upon which I ride, safe in its original construction and kept properly repaired so that when it is released for my service, he knows that its condition is such that I am insured safe transit upon the vehicle of his making, to my destination.

All of the employes of this railway owe it to me, the general public, to exercise care, judgment, prudence and every known law of safety to prevent iniury, not only of yourself and your fellows, but of myself and my fellows in order that taxation expense in the maintenance of hospitals, infirmaries and similar institutions may be kept at the minimum, for they, I must
maintain solely because of the carelessness and imprudence of the human family.

You owe it to me at all times as a fellow human to give me the benefit of a doubt in either, not hearing, not seeing or not understanding, and help protect me as well as yourself, against myself or yourself.

## SERVICE CHANGES

New timetable will go into effect January 12th, 1921 on the Santa AnaOrange Line. This will provide for the operation of one-man car and will give a 20 minute headway between Santa Ana and Orange.

New timetable will be placed in effect on the Santa Ana Line January 12 th. This provides for additional tripper to leave Artesia for Los Angeles at 7:27 p. m. on account of increase in travel. Tripper due to leave Artesia at $5: 30 \mathrm{a} . \mathrm{m}$. will be changed to leave at $5: 25$ instead in order to make Shipyard connections at Watts.

New timetable is now under way for the Whittier-La Habra Line which will advance the Laguna trippers five minutes out of Los Angeles and Laguna, also puts on an additional tripper to leave Los Angeles for Laguna at 10:00 p. m. on Saturdays and Sundays only.

Express car leaving Stern at 1:40 p. m. will leave instead at $3: 10$ p. m. and train due to leave Stern at $3: 15$ p. m. will leave at $4: 05$ p. m. instead. The $5: 30$ p. m. train out of Los Angeles will run as limited to Los Nietos, stopping only at Huntington Park, Bell, Green and Baker.

New timetable is now under way on the Long Beach-San Pedro Line, a slight change being necessary on account of completion of double track between Gasper and Morgan Avenue.

## PE

## AGENCY CHANGES

Effective December 20th, 1920, Mr. H. H. Williams was appointed Agent at Highland. Mr. Williams has been doing Relief Agency work.

Mr. H. W. Warburton, formerly Asst. Agent at San Pedro was appointed Agent at Fontana, effective December 16 th.

The name of Covina Junction substation has been changed to Valley Junction substation to conform with the recent change in the station name at this point.

- PE $\qquad$
He: "Do you like fishballs?"
She: "I don't think I ever attended one."

Professor (sicratching his head): "Now I have my hand on one of the hardest rocks known."

Student: "Which hand?"
Sam: "Ah done heard dat dey fin, Columbus' bones."

Ezra: "G'wan. Ah never knew that he wuz a gamblin' man."

## NEW YEAR'S TRAVEL

Pacific Electric forces were very busy people from Friday evening, December 31 st, until Saturday night, January 1st, due to the New Year's Eve travel to the beaches and other points of festivities on the night of December 31 st, and to Pasadena for the Annual Tournament of Roses on January 1st. The volume of passenger business handled being the greatest in the history of the road, for that period.

The over-shadowing event, from a traffic standpoint, was of course the Tournament, to which we handled, before $2 \mathrm{p} . \mathrm{m}$. of the afternoon of that day, 42,482 passengers.
The movement of this mass of humanity was accomplished without any ccidents and with only two cars showing mechanical difficulties and is a record of which the management is very proud. It illustrates what close team work and strict application to the task will accomplish, only one short period of congestion occurring during the movement of this big volume and that occurred between 9 and 10 in the morning in Main Street Station.
To care for this traffic, which represented the movement of 944 cars over 12 miles of track; 195 trains aggregating 584 cars were moved over the Pasadena Short Line from Los Angeles; 98 trains, 263 cars over the Oak Knoll Line; 96 trains, 147 cars over the South Pasadena Line. The total car mileage for the movement being 23,315 car miles or a trip around the world for one car.

The frequency of service varied from 2 -minute intervals at the peak to 10 minute headways at the beginning and closing of moverient.
Trainmen invelved in accomplishing this service represented 89 Motormen and 267 Conductors, but it must be realized that not only were the Trainmen "on their toes" to perform their best service, but all the way down the line through the Electrical, Engineering, Traffic, Signal and every department of the company, intense application and strenuous work was performed by every employe concerned to make this service all that was to be desired and from this has come the realization of a number of little obstacles to more perfect service that will be remedied or eliminated before the next year's duty presents itself and the realization has also come to all involved that in the performance of a duty perfectly, or as near so as we may, is created a desire for even better efforts that a closer touch to perfection may be attained.
Conferences have already been held reviewing our endeavors of New Year's Day and plans are being made to improve upon what was accomplished then, and, while the outline is not as yet perfect, sufficient is seen and known to believe that our endeavors on behalf of the public we serve will be more pleasing to our patrons and more satisfactory to us as workers than that of January 1st, 1921.

## Reiovo gecrivi RESORT GLEANINGS

W. A. McCAMMOND, Associate Editor

## REDONDO BEACH NEWS

The Dance Festival held in the Pavilion during the holiday season was a pronounced success. Friday night, December 31st; was the feature night when the special New Year's Eve Dance was pulled off.

The weather during the Christmas season was quite summer-like and brought out a large number of people. The Bath House came in for a fair share of patronage and the concessionists did a good business.

Redondo Beach entered a Float in the Rose Tournament Parade in Pasadena on New Year's Day. The scene portrayed Frank L. Kern as Neptune commanding the destiny of the car, La Vaughan Protsch, as queen of the sea coming out of the waves driving before her a large red lobster, and at the four corners in sea shells made of flowers sat four little girls. The float looked pretty and came in for a lot of very favorable comment.

The Art Theater has been opened again after extensive alterations and improvements. The entrance now being at the corner of the building at the north end of The El Paseo and is surounted with a beautiful electric sign which shows up all along the water front. Mr. Fancher, the proprietor, is to be congratulated on the enterprise he has displayed in turning what was an old building, partly occupied as stores, into a first-class picture house.

The Dance Pavilion presented a novel and unique appearance on Christmas night with its decorations of imitation snow and icicles hanging from the columns and the snowballs suspended in mid-air.

The dancing started with a sleigh bell march-every lady being presented with sleigh bells which made lots of noise. Two very pretty exhibition dances were put on by Mabel Rockwell's pupils.

The dance wound up with a snowball battle which was thoroughly enjoyed by the big crowd on the floor.

## URBITA SPRING NOTES

Mgr. Cadd. Lamb of the Dancing Pavilion put on a very merry dance for Xmas night giving away 60 dollars of candy. The hall was very prettily decorated with red and green bells. About 200 couples attended, dancing until 12 o'clock.

Dr. N. C. B. Smith, our smiling, good natured masseur, has gone to Los Angeles for a few days recreation, visiting old friends.

The Eleventh National Orange Show has begun to show signs of life. Chairman 2 . T. Bell of the Midway Committee is already busy al-
lotting space to concessionaries and we have his word for it that The Palace of Wonders this year is going to be bigger and better than ever.
Miss Dally Mings was a visitor at the Park for over the holidays, being a guest of Mrs. Cadd Lamb. Miss Mings will be remembered as an employe of the Redondo Beach Bath House several years ago, being one of the best women aquatic stars of the Pacific Coast.

Miss Mings still keeps up her training in swimming, but has given up high diving entirely. She says swimming is the most wonderful exercise in the world to keep one young and healthy-and after one look at Dolly you will agree with her.

## MT. LOWE RESORT

Paul Hirsch, the genial keeper of Ye Alpine Shoppe who was confined to the hospital for two weeks with an accute case of peritonitis, is on the job again.

The Alpine Division now boasts of a freight train De Luxe. Two new cabs adorn the old freight wagon and Conductor Wilson and Motorman Lankin, celebrating with their new overalls and gloves, are so puffed up that they hardly deign to notice the common herd on the hill.

Miss Mayse Turner, the new hostess at the tavern, is making many friends with her pleasong personality and charming manners.

Manager Vickrey reports a land office business at the tavern over the holiday season.

The Christmas spirit reigned supreme at Ye Wayside Inn from the time Santa Claus put in his appearance at the dormitory, on the eve of the joyous day, where after waiting a time with patience, the guests of honor, Mr. and Mrs. Vickrey with their cohorts, arrived merrily ringing the sleigh bells. Santa Claus immediately put in his appearance and took charge of the ceremonies distributing many useful presents among those present. Mr. and Mrs. Vickrey received the surprise of their lives on being presented with a beautiful coffee set, consisting of an electric percolator, tray, creamer and sugar in loving cup style. Christmas night the guests assembled in the lobby and the large tree gorgeously trimmed and laden with a present for every one was unveiled. Many exclamations of delight were heard when the room was darkened and the tree lighted. Later the guests gathered round the barrel to enjoy the cider and red apples and topped off the evening with a social dance.

A capacity crowd celebrated the death of the old year and birth of the new at the Inn. Dancing was enjoyed until near midnight when the guests wended their way to inspiration point which was so brightly illuminated at the stroke of twelve that Mr . Vickery was busy for some time answering phone calls from those in the valley who wanted to know if the mountains were on fire.

Mr. and Mrs. W. A. McCammond spent Christmas as the guests of the tavern.

Mr. and Mrs. F. F. Small entertained a party of friends with an outing on the mountain one day during. the holidays.

## GENERAL FREIGHT DEPARTMENT NOTES

The first annual Long Beach Industrial Exposition, opening the week of January 31st, is going to show the industrial and harbor facilities and how both have increased recently. This announcement coming from the Chamber of Commerce from the neighboring port of Los Angeles is a new move on the part of the Long Beach Chamber.

Known as a tourist city, it comes as an interesting feature to hear that Long Beach industry represents \$16,462,500 vested capital with a weekly payroll aggregating $\$ 1,150,117$ for nearly 6000 employees.

The importance of Long Beach as a growing industrial center affects Los Angeles more nearly now that it is being linked with Los Angeles harbor by the connecting channel.
Shipbuilding, woolen and cotton goods, weaving, fish canning, sugar refining, manufacture of cordage and confections are the chief industries of Long Beach.
Incidental to the increased oil drilling activities in the new Huntington Beach field, the Standard OiI Company are rapidly completing their new camp site in the vicinity of 23 rd Street, Huntington Beach. Spur track, twenty-three hundred feet in length has been completed to serve the site which will be used as a tool dressing and supply station for the new district. This is a new industry on the Pacific Electric's Huntington Beach Line and marks the beginning of increased industrial activities in that territory.

A spectacular fire, following an explosion of unknown origin, badly damaged three of the fish packing olants in the industrial district of Long Beach on December 14 th, the loss being estimated at more than $\$ 200,000$ to buildings and equipment. The plants damaged included the Halfhill Tuna Packing Co., Long Beach Fisheries Co. and Los Angeles Tuna Canning Co.

The A1. G. Barnes Circus Company have recently completed new winter
quarters at Bundy station on the Del Rey-Redondo Beach line, at which point industrial and storage trackage has been installed in excess of three thousand lineal feet to serve a seventy acre tract of land to be used as their permanent winter quarters.

## MECHANICAL DEPARTMENT

 NOTESMiss Hazel Wagner, employed in the Mechanical Superintendent's Office June 22nd, 1920, was married December 15th to F. H. Baker, a machinist of Long Beach. Our best wishes go with the happy couple.

Miss Agnes Parke is once more pushing a pencil all over a clean sheet of paper, having returned from her annual vacation. We missed "Peggy" and are glad she is again with us.

## Died:-

Clay S. Johnson, born July 3rd, 1892, died November 28th, 1920. Entered the service February 18th, 1916, as a car repairer at Sherman, later was made a clerk at Ocean Park and September 1st, 1919, was promoted to Foreman of the Hill Street Station Car Repairs.
F. H. Murphy, born October 17th, 1862, died November 20th, 1920. Entered the service October 29th, 1919, as a watchman at Torrance.

Red Cross subscription for 1921 membership was not supported as well as we hoped for. This organization has a vast field of operation and to carry on its work of mercy must have money. We wish those who from lack of a real knowledge of the present work of the Red Cross failed to subscribe, would make it a personal duty to get information from reliable sources and give their bit toward the uplift of humanity.

There is a rumor that Bill Kienz is married. Produce the certificate, Bill, nothing else will get by.

Miss Bulah Bever occupies the chair left vacant by the marriage of Miss Wagner. We are glad to welcome Miss Bever, who hails from Nebraska.

## SOUTHERN TROLLEYGRAMS

onductor F. J. Blakeley was quietly married on November 18th last and now making their home in Boyle Heights.
Motorman R. M. Oliver showed Motorman L. T. Downs what seniority was for by bumping him.
Conductor E. B. Brown spent his vacation in San Bernardino and Rivierside having a fine timê.

Motorman L. T. Downs bumped Motorman C. A. Heard off of Run No. 84 Long Beach.

Motorman J. T. Childs has resigned and gone back to Dallas, Texas but we hope to see him back in Los Angeles in the near future.

## PACIFIC ELECTRIC RAILWAY COMPANY

OPERATING REVENUES AND EXPENSES, TAXES AND INCOME ACCOUNTS—November, 1920
Passenger Revenues
\$ 933,718.66
Freight and Switching Revenue 335,915.72
Other Revenue
56,376.28
Total Railway Operating Income
\$1,326,010.66
Total Railway Operating Expenses:
Wages as above
Other Charges as above
731,574.76
ransportation for Investment-Credit
$3,477.60 \quad 1,148,737.17$
Revenue Less Operating Expenses

177,273.49
Depreciation
22,482.58
Taxes Assignable to Railway Operations

60,956.42
Total Depreciation and Taxes
Revenue Less Operating Expenses, De-
preciation and Taxes
93,834.49
Non-Operating Revenue
16,652.49
Net Revenue
311,113.09
Interest on Bonds and Other Debt
47,619.33
Total Deductions
358,732.42
Net Loss
248,245.44
Net Loss for Eleven Months Ended November 30, 1920

983,532.66
Los Angeles, California.
December 21, 1920.
H. A. CULLODEN,

Auditor.

Motorman F. R. Sharpe spent his vacation around town taking in the sights, especially Venice.

Motorman M. Mood lost his valuable watch at 8th and Hemlock Yards, but the Night Watchman found it and returned it to him.

The boys from the Southern Division that worked at Pasadena wish to thank the Y. W. C. A. of Pasadena for sandwiches and coffee which the girls brought to them on New Year's Day.

## NORTHERN TROLLEYGRAMS

Cond. R. H. Dorman has bid in Run No. 37, Mt. Lowe Run.
Cond. Ed. Kohler is working Mt. Lowe Run out of Alpine with J. W. McMillan for a while.

Cond. "Deek" Fanning has bid in Altadena, Run No. 300. Deek has been busy greeting old friends.

Cond. Shuster has forsaken the Line car for an Altadena Run. He is now working Run No. 301.

Motorman T. Booher has bid in Altadena, Run No. 300.
Motorman Keckstein bumped Rose off Mt. Lowe Run, and Rose in turn bumped Booher from Annadale Shutthe Car.

Motorman Larson has given up 24 Oak Knoll for Altadena, Run No. 304.

Motorman Welsh has bumped W. J. Hodge from No. 4, Short Line.

Hodge is trying to make up his mind where to bump.
Motorman Rovai, of day switching crew at Pasadena, spent Christmas at San Diego. He said he went to see his mother. That was probably true, but we think he strayed from San Diego for a time at least.
As usual, Pasadena lived up to her reputation on New Year's Day. Notwithstanding the enormous travel there were no very bad delays nor accidents.

Cond. Ream is now working Short Line trailer. $\qquad$
It was the end of a perfect day. He returned to the office with a pocket full of routing orders. He had called on several big shippers, all of whom had assured him that while they were greatly dissatisfied with the service his road had given, on account of his own commanding personality, they would give him all of their business.
He drew up a chair, and, putting his feet on the General Freight Agent's desk, handing the latter one of the imported cigars given him by admiring industrial traffic managers, tendered his daily report.
The boss was saying, "I recognize your wonderful ability and realize vou are responsible for the good showing of this department. You should really have my job"-when he was rudely interrupted by his wife's voice: "Get up, Bill, breakfast is ready and you have been late two mornings already this week. You'll be trucking freight again in the local depot if you don't look out."

## TRAINMEN'S MEETINGS

## NORTHERN DIVISION MEETING

The regular monthly meeting of the Northern Division trainmen was held on December 21 in the Pacific Electric Club. The meeting was called to order at 8:15 p. m. with General Officers McPherson and Bradley, the Northern Di-
vision Staff and thirty trainmen in atvision Sta
tendance.

## Unfinished Business

Item 1 of the minutes of the Novem ber 16th meeting by Motorman S. A Paxton, relative to sanders being in
stalled on the supply cars. Mr. Small replied as follows
'I do not think it at all necessary to equip these cars with the series parallel switch,-in fact there is no room in the cabs of these cars for the installation of same. As to the sanders, I think this is a matter that should be put up to the Central Safety Commit tee, and if it is then decided it is necessary to apply sanders th
It was decided to refer this to the Central Safety Committee.
Item 3 of the Minutes of the November 16 th meeting, relative $t$ crossover switch being changed at
Hermosillo Junction: Mr. Davis advises Hermosillo Junction: Mr. Davis advises that this matter had been up before, and on account of the slow speed at this point it was decise this change.

Item 9 of the Minutes of the Novem ber 16 th meeting by Motorman W. J Best, that headlights be dimmed a Anderson and Aliso Sts
Investigation of this and discussion with a number of motormen operating on this line developed that the headlight was needed as this street is dark and automobile traffic on cross streets in some decided to only screen the headlights from Aliso to San Pedro streets. Mr. Bradley took the floor to discus ing. Called attention to the report of the minutes of the November meeting in the Pacific Electric Magazine. Crit icism has been made that these minutes were too brief and did not give a proper idea of the discussion and reasons for certain actions. In future, these minutes will be extended so that anyone who was unable to attend the meeting would what transpired.
In this connection the suggestion by Motorman Best relative to paying in terurban pay on a run part of which Was on the San Bernardino line and the balance on the South Pasadenaconsideration. It was stated that the entire theory of the rates of pay was entire theory of the rates of pay was performed. In this particular case interurban pay would be paid for the work on the Covina Line and local pay for the work on the South Pasadena
Item No. 4 of the Minutes of the No vember 16th meeting by Motorman Paulson relative to request that Vista: Further discussion developed Vista: Further discussion developed that there was water west of the four
tracks and that it would have to be tracks and that it would have to be piped under four tracks in order to put in a drinking fountain at the Sierra Vista station, which would probably be expensive, alsond Main Terminal, and able at the 6th and Main Terminal, anc that sierra ista crews had a layover no hardship to get a drink then, as the round trip was made in one hour.

By Motorman W.J. Best: I would ecommend that the landing at Vineland station be extended, as when a motorman stons back 30 feet from the rail road crossing the rear end of the train sometimes extends beyond the end or the platform.
Disposition: This matter is up at present and has been referred to Mr Johnson.
By Conductor Snedaker: Of late many commutation books have been pre-
sented not signed by the passengers.

Would it be possible for the passenger to sign the Auditor's stub and the back of the ticket book before same ${ }^{1}$ danger of book being turned over to the passenger unsigned or unpunched Disposition: This was referred to Mr Birmingham of the Traffic Departmen to see if the ticket clerks handle it this way and can be reported on at the next meeting.
It was suggested that at the nex trainmen's meeting, the room be heated so the men could attend the meeting in date.

Disposition: Referred to Mr. Stuart to dee what can be arranged.
By Conductor DeGarme
suggest $10: 36 \mathrm{a} . \mathrm{m}$. be set ahead in order to connect with the $10: 30 \mathrm{a} . \mathrm{m}$. train ou of Pomona. Several passengers have suggested
that we should make this
Disposition: This has been taken are of on th

## ing prepared

By Conductor DeGarmo: I would suggest that when light circuit switches of the circuit that 5 to 10 seconds should elapse before the man at th other end of the circuit turn them on thus eliminating the danger of the firs conductor thinking he had not turned the lights off and throwing the switch again and turning out the lights belonging to the train at the other en of the light circuit.
Disposition: It was suggested that this difficulty might be avoided if the type of light circuit similar to the ne now installed on the southern Division be employed. This matter wil be referred to the Signal Departmen or a report.
Ey Conductomr W. J. Bost: At the west end of the El Monte siding, par at least 100 feet shoul be extended off two cars the trolleys may both be placed on the paralled wire, as the con luctor has to go to handle the switch
Disposition: It was recommended that the Electrical Department be re quested to install the additional length of wire
By Conductor Snedaker: I would suggest that an overhead switch be in staned at the east end of the Long sidng at Claremont. This to, save the conductors on the Claremont-Pomona dine having to jump the trolley from meetwe to the other when making meets with other trains. At present with an overhead switch

Disposition: There being no apparen eason why this could not be installed it was
install.
By Conductor Snedaker: The east switch at the Long siding at Claremont is very stiff and conductors can Disposition: Refe

Referred to Mr. Johnson
By Conductor Snedaker: I notice in the minutes of the Northern Division trainmen's meeting a few months ag. where holes at switches should be swit up so that trainmen throwing the wet during the rains. The recent rain developed that the following switche also needed similar attention
North Pomona turnout switch lead The Pomona,
The second derail on the San Antonio Heights Line
The switch at Lone Hill
The switch at Echandia Junction out The
The switch at 9th and Tennessee Disposition:
risposition: This matter referred to Mr. Johnson to correct.
egister station and tho: Between the North Pomona the the staff box a than the paving and during the rains allows quite a pool of water to stand at this point.
Disposition: Recommended that the Maintenance of Way Department find some means of draining this wate away so the nen will not have to walk through it going to the staff bo
By Conductor DeGarmo: The freight do not leave enough clearance for
three ears to clear in making a meet and No 21 , which both case of No. this siding. To eliminate this I would sugoest the derail be moved back about 50 feet, which would allow plenty oi room.
Disposition: This referred to Mir. Johnson to move the derail
By Conductor DeGarmo: Recently I Pomona to Claremont in the morning with a going portion of a triplex ticket dated the day before, having been honored on train No. 119 from Los Angeles to Pomona and no connection to woumile dill the fowing das, and would like to know if this ticket should day.
, Bisposition: Referred to Mr. Birming ham of the Traffic Department, who was present, to advise at the next meeting
By Motorman B. M. Stein: I would suggest if it is possible, to have the eguipped with the fast cars and the equipped wh the as 141,143 and 144 be put on the trippers in the morning and evening rush
Disposition: Mr. Green of the Mechanical Department has already been instructed to keep these slow cars off of the Sierra Vista Line, on account of service this side of Indian Village
By Motorman W. J. Bost: I notice that high weeds are obstructing the view at some crossings between Vineland and Lark Ellen and would suggest that hey be cut.
Disposition: The Central Safety Committee in making an inspection of this line referred this matter to Mr. JohnThe we take care of.
The Western Division has brought up the question of having a general make-up once a year and the Secre tary the this communication the Northern Division meeting for their pleasure in the matter

After considerable discussion, the matter was put in the form of a moion and unanimously voted down. the Southern sition of installing a suit cleaning es tablishment at 6 th and Main, and gave the schedule of prices and a prospectus of the service to be rendered
After considerable discussion, the meeting endorser this plan
By Motorman Staff: I would suggest hat the trainmen's seniority list a Macy street be placed where the train men can refer to same wo se it having o bother the

Disposition Mr. Bradey stated that make alass case similar to the one t Pasadena now in use and place same on the outside of the foreman's ffice where the trainmen could see the list at any time.
C. H. BELT,

EASTERN LINES
The regular monthly meeting of the Northern Division Eastern Lines, train men was held at Riverside on December 14. Chairman Finley calling to order at twenty-five in attendance. The minutes of the previous meeting The minutes of the prev

## Unfinished Business

That

## Dispo

## pleted.

That exchange checks be issued to assengers who have to transfer at San Disposition: This has been taken care That lights be installed at Telephone booths at 7 and Main, Vine and San Bernardino.
Disposition: No action taken
Transfer of mail at Covina.
Disposition: This has been taken are of.
That gong be placed at the P. E. Stapatcher could summon trainmen.
Disposition: On account of moving
the Dispatcher's office to this point it vill not be necessary

That the Section Foremen, on the signals back the proper distance putting Disposition: This matter has
hecked up with the Foremen been flags will be handled properly.
That there are no whistles on $130-$ class cars
Disposition: This class of car now equipped with whistles.
That several limbs of trees, on Magnolia Ave., which are about ready to fall be taken care of. been taken Disposition: This has been taken
care of by cutting off the worst of the imbs.
That the brush be cut between the Gavel Pit and Santa Ana bridge

That Washington and Ohio Streets tops be eliminated. Disposition: This has been attended

By C. F. Parkins: That the trolley wire at Crown Jewel Spur be tightened up as the trolley pu
Disposition: Referred to the Electrical Department
By W. N. Peebles: That cluster of lights be installed at Fontana Station so that intending passengers can be
seen and it would be easier for the seen and it would be easier for the
Motorman to locate them, as there are Motorman to locate them, as there are
numerous complaints about people being passed up at this point after dark. ing passed up at this point after dark
Disposition: Referred to Mr. A. C Bradley.
By W. N. Peebles: That landing at Vineland Stop, outbound, be lengthened accommodate three
Disposition: This has already been

## ported

By W. N. Peebles: That train No. 24, out of San Bernardino at $7: 45$ a. m., be reason that the head conductor, whe works two cars, sometimes gives the buzzer bell, then the ordinary bell which is very misleading. Also, wher discharging passengers the Conductor
cannot watch both cars properly, which cannot watch both cars pr
might cause an accident.
Disposition: As one man works two cars on other lines, and this train being the Angeles Limited with the gested that we close the rear doors ol the second cars and have the Conductor stand on the rear end of the firs car where he could watch the steps of car where he could watch the steps ol danger.
By J. A. Severance, that the derail a crestmore be moved 10 feet back so as meet at that point, also that same $b$. painted.
Disposition: Referred to M-W Dept
move derail and repaint.
By J. A. Severance, that there should be heat on the 300 -class one-man cars of it being much colder at those places of it being much colder at the places where these cars are used.
Disposition: Local service passengers Disposition: Local service passengers considered necessary
By J. A. Severance: That the Sal Lake is not keeping the Waiting Stations on the Crestmore line clean. The M-W Dent. advise that the Salt Lake Ry. have the maintenance of this diction over that line.
Disposition: Referred to Mr. F. A Peachey to take up with Mr. Cullen. uperintendent of the Salt Lake Ry. By G. W. Bosley: That the trees need trimming at Sterling spunr, on the
Highland Line. Highland Line.
Disposition: Referred to the M-W Department. Mills: That drivers of automobiles are very careless when passing a Conductor pulling switch at 3rd
and $D$ Sts., and at the $P$. E. Station, San Bernardino. On several occasions he has been very nearly hit when doing same.
Disposition: Trainmen were instructed to get the number of the auto and bile club, also to the Police Department
By J. E. Mills: That cars on the Col-
ton-Arrowhead line ston west of the switch at the P. E. Station so that is would not delay the Riverside-Redlands cars
Disposition: Instructions will be issued.
By W. B. Reynolds: That trees be trimmed at Rialto and Mt. Vernon so that they would not obstruct, the view of Los Angeles trains from Motormen Disposition: Refe
Disposition: Referred to the M-W Dept.
By
By W. W. Peebles: That when erecting crossing wig-wag way signals they in both directions, will be able going them. The one at San Antonio Hospital is so placed that it is only visible to the Motorman when going in one direction.

Disposition: Referred to the M-W Dept. to be placed so that autos can question will be inspected to see if location can be improved.
By C. W. Bosley: That there are several automobiles driving in back the S. P. Station, San Bernardino, which
make it hazardous to passengers waitmake it hazardous to pass
Disposition: Referred to Mr. F. E Peachey to take up with Mr. Whalen be placed on the span wire 1000 It. south of the curve at Orange and San Bernardino Avenues, Redlands, to warn Motormen, as this is a very treacher ous curve on account of the slick con dition of track, also its location.
Disposition: Slow Signs will be requested.
A. G. Babcock, Conductor, wished tc
thank the Company for the twelve days' vacation he had just enjoyed
Motion was made by Motorman J
Severance, and seconded, that trainmen on the Crestmore Line wished to exend their thanks to the Towerman at which their trains are handled through that plant.
P. S. Good was elected Chairman fol the ensuing three months, vice $D$. Finley, whose term of office expired. fore the meeting, further business bem . Next meeting, adjourned at $9: 30 \mathrm{p}$. Bernardino, Tuesday January 11, 1921.
y, J. PEACHEY.

## SOUTHERN DIVISION

The regular monthly meeting of the trainmen of the Southern Division was held Dec. 21 at the Pacific Electric Club fifteen trainmen being present, in adtendent McPherson, Superintendent Davis and Assistant Superintendent Taylor
In the absence of the Chairman the Secretary called the meeting to order at 8:00 p. m.
The first order of business was the ection of chairman.
Motorman A. L. Ried was nominated The minutes of the previous meeting vere approved

## Absendinhed Business

Absence of crossing sign at highway
Disposition: Mr. Johnson
that this is a private road crossing and that right of way had been fenced and gates installed.
Relocate train register at Torrance.
Disposition: Mr. Davis stated that the Disposition: Mr. Davis stated that the present location was best for majority to make the separate stops if changed. Suggested change not approved.
Men working foreign runs and giving them up being required to hold same until bid in. Davis stated this was now up for consideration by the other divisions; would have to b fective on all
Printed lists each month to be issued
showing bulletined commutation tickets.
Disposition: Arrangements are being made to have this done.
Printed placards to be placed in cars requesting passengers to show their commutation tickets to conductors.

Disposition: Arrangements will be made to have this done.

## New Business

Suggestion offered at Western Division Trainmen's meeting that there Under discussion, opinion prevailed that a general shake up brings more or less trouble and that when men are working on seniority basis no good reasons exist for a general shake-up. From a safety standpoint, if for no other, a shake-up is not the proper thing.

Disposition: Conductor H. T. Bennett moved that no chanse be made. Motion duly seconded and carried unanımously.
By
By Mr. C. A. Newman: Submitting plan for cleaning and pressing establishment at 6 th and Main Sts., with a schedule of prices and service to be
rendered.

Disposition: Moved by Mr. Bennett that the plan be endorsed by the Southern Division. Motion seconded and carried unanimously.
In order to get the proposition before the other Divisions, the Chairman appointed Mr. Newman a delegate to at-
tend the Northern and Western Ditend the Northern and Western DiBy Mr Wilms then in session.
By Mr. Wilmot: That better and more comportable meeting quarters be arfloor of Clib Present room on third hoor of aisposition. Hom the street tratric. the matter be referred to Manager Stuart of the Club.

By Mr. Read: That the tracks in front of the new depot at San Pedro are covered

Disposition: Referred to Maintenance of Way Department for attention.
By Mr. Hader: That a lever throw switch replace the existing chain puil for moving cars to surface tracks; very difficult to hold chain when operating 4 and 5 -car trains.
Disposition: Referred to Maintenance of Way Department for attention, if practicable to change

By Mr. Hade: That trainmen not be required to have fender down and headlights on, when operating trains between elevated terminal and surface tracks.

Disposition: Mr. Davis stated that city ordinance required this and must By Mr. Benn

By Mr. Bennett: That a light cluster be installed at South Los Angeles, on pole, and one light in phone box. Disposition: Mr. Davis stated By Mr Tiange for this.
urnour. Tiemann: That the overhead need of lining up as trolleys do not hold the wire.

Disposition: Referred to Electrical Department for attention. constructed at crossover, Artesia; absence causes great inconvenience to
trains having to use crossover. Disposition: Referred to Electrical Department, with suggestion that parllel wire would help if overhead switch not desirable at this point.
Attention called to extreme end of ransfer track being in bad shane: alon old ties and rails lying along track without proper clearance, etc. Mainten-
Disposition: Referred to ance of Way Department for necessary attention.
Assistant General Superintendent McPherson addressed the meeting on the subject of disappointing business conditions and the Company's financial showing.

The management was much concerned over the situation and everyone connected with the company is equally ing the most rigid economy in handling the Company's business.
Mr. McPherson expressed his regret at the very small attendance and hoped made to secure a larger showing at future meetings.

The subject of securing attendance as then taken up for discussion.
Mr. Hader suggested that some oi the meetings be held in the day time for the benefit of a large number of
trainmen who are off duty between $9: 00$
a. $m$. and $1: 30 \mathrm{p} . \mathrm{m}$. He believed arger attendance would result.

Chairman Read urged those presen to each consider himself a special a large attendance. He called atten tion to the fact that the Western Di vision attendance numbered around 200 every meeting and a great deal of en thusiasm prevailed.
Mr. Bennett suggested that on the day of the meeting, dispatchers especially request every man calling in, to
make it a point to attend the meeting make it a
hat night.
On motion of Mr. Wilmot, the Chalr.. man appointed a committee of three $t c$ provide ways a
ter attendance.
Mr. Wilmot was appointed chairman of this committee and instructed tc select his assistants, and to call on the Secretary for any assistance needed.
Next meeting will be held at $8: 00$ m., January 8t.h. 1921. There being no further business be m .

G .H. GRACE,
Secretary

## WESTEER DIVISION

The regular monthly meeting of the Western Division trainmen was held a $8: 15 \mathrm{n}$. m. on Dec. 21 in the Committee Room, Pacific Electric Club, Chairman
E. C. Brown calling the meeting to order.

The attendance numbered approximately 110 trainmen, in addition to $W$ Asst. Superintendent: N. C Trainmaster; B. Porter, Asst. Train master; A. Cole, Asst. Trainmaster Cleary, Asst. Trainmaster; W. L. Jenks Supervisor; D. K. Beale, Supervisor and J. E. Glancy, Representative of Traffic Department. Absentees: A. Mc-
Kensie, Supervisor; (H. S. Blakely, SuKensie, Supervisor;
The reading of the minutes of the previous meeting was waived.
Chairman E. C. Brown responded tc the Holiday Greetings of Mr. H. B. Titcomb to the Employ in the December issue of the Pacific Electric Magazine, and on behalf of the Western Division trainmen wished him and the officials of the Company Merry Christmas and Happy New Year He also thanked the Company for the bonuses given trainmen as additiona compensation for good records, and fo

## Unfinished Business

That an arrangement be made in con junction with the Northern and South ern Divisions, also the Los Angeles could have their uniforms cleaned at regular intervals and at moderate Disposition: Motorman C. A. Newman of the Southern Division appeared in person, and handed a letter to the Sec retary, which was read before the meetis plan for which Mr. Newman outlined repair shon in the neighborhood of 6 th and Main Sts., or in the Pacific Electric Bldg. He guaranteed to do good work at reduced rates to
Railway Co. employes.
After a general discussion this proposal was not received favorally by the members of the Western Division. The fact was mentioned that the Los Angeles Company would soon move to expected to have a bearing on the matter. Relative to the matter of general shake-up of runs: uestion of vearly general shake-up of runs. On further consideration and discussion it appeared unfair to the trainmen present at the meeting to come to any definite decision on this point, without consulting the trainmen of the entire Division; also the Northern and Southern Divisions.

New IBusiness
By Mr. E. L. Marvin: That the inbound landing at Cahuenga Pass for Van Nuys cars be lengthened, as it is
not iong enough to permit passengers
to get on and off trains without block ing the street.

Disposition: Referred to Maintenance of Way Department.

By Mr. E. L. Marvin: That conduc tors be furnished with variously col possible misuse of transportation.
Dossposition: Mr. J. E. (ilancy, of the Traffic Department, stated that the Ticket Stock Room now has a supply of at least three different colored hat checks. Mockmuth. That the By Mr. J. M. Hockmuth: That the hin to handle with speed and conveni ence, and should be replaced by a bet ter quality check.
Disposition: Mr. Glancy stated that the new hat checks are oi better qual By Mr. E. L. Marvin: That the local ransfers now furnished are too thin tear very easily, and are baily printed that this should be ren.edied.
urnished is of better oradew being By Mr. H. J. Delmer grade.
By Mr. H. J. Delmer: That the inter Hoover streets at Magnolia, on 16 th street, Venice Short Line, be eleminatea on account of grade of the hill at this point, which makes it difficult for out bound trains to get up speed.
Disposition: Referred to the Traffic Department.
By Mr. H. J. Delmer: That the land ings at the inbound stop at Alexander and inbound and outbound stops a Roberts should be lengthened, to accommodate three cars.
Disposition: Referred to Mainten
ce of ay Departmen
By Mr. H. J. Delmer: That the post: Which were at end of Rose Court, Ocea? park, have bo and across the tracks which openins hazard of accident.
Disposition: lieierred
to Mainten-
By Mr. H. J. Delmer: That lights be olaced at all stations west of Vineyard on Venice Short Line, so that passen gers who wish to board trains may b seen by motormen as they approach stations, at night
Disposition: Referred to Electrical Department.
By Mr. W. G. Perry: That since the luctors only are permitted whereby con coupons from commutation loks, has noticed many individual books thai show only the initials of purchaser without designating whether the book was sold to a man or woman; that tc avoid misuse of transportation, tickel agents should be instructed to show
this information when issuing commutation books.
ation books.
Disposition:
Disposition. Mr. Glancy stated that instructing th way to issue these and that the Traffic checking them un to see that these is structions are complied with
By Mr. I. E. Black: That the names f stations should be shown on hat hecks used on Redondo Line, to assist conductors in making proper fare collections.
Disposition: Mr. Glancy said that such hat checks are now being printed by wr be issued in a short time
By Mr. E. L. Marvin: That a bulletir be issued to motormen operating Hollywood local cars, requesting them ts when going through the on and oft when going through the Hill stree tion of cars it is sometimes condifor conductors to po through difficul to the front and to do this. Mr. S. C Masterson further suggested that light switch button be placed at each end of cars where lights can be turnec on and off by motormen
Disposition: Referred to Mechanical
By Mr. H. J. Delmer: That a arge map showing all Wester $\quad$ Division linrs be placed in the Pacific Elsctric Club. and to indicate with colored pins the different kinds of accidents at the points where they occur, so that trainmen may familiarize themselves with dangerous, thereby lessening hazards dangerous, thereby lessening hazards
of accidents.

By Mr. C. N. Cake: That line cars and wrecker cars are not equipped with yellow and green lanterns, but that Disposition: Referred to Machanical Department.
By Mr. E. C. Brown: That conductors on Hollywood and South Hollywood Lines be compelled to be on rear platorm when reaching Lake Shore Ave, on account of the large number of passengers that get on at this point, and by avoiding hazards of accidents.
Disposition: Bulletin to this effert has been reissued under Number 13 ลิ $l$. By Mr M Stolpe: That the caution signs on Western and Franklin Ave Line are faded, and should be replaced with new signs. Disposition:
Department
By Mr. M. Stelpe: That a sign be placed at 1st and Hill streets directing passengers to walk south on Hill stree about 100 feet to stop sign and there await the cars, this stoy sign being olaced at its present location in order o allow ammulances clear access 10 Receiving Hospital.
Disposition to Maintenance of. Wav Department.
By Mr. M. Stelpe: That most of the stop signs on Hollywood Line art placed at street corners; that passengers wait at the stop signs and motoryond street corners passengers are re quired to walk to the rear end to board car, which consumes time. Suggests that signs be moved backward one cil length to avoid this condition.
Disposition: Ston signs are hung on span wires, and at some points the span wire is located nearer the stree: corner than at others|

## From Suggestion Boxes

By Mr. W. P. Nichols: (1) That extrin ars and crews be kept at Gardner wood Boulevard: (2) also that the hanical Denartment have a repair mat at this point to make light repairs Disposition: (1) Present ${ }_{\text {Schedul }}$ allows lay-over time enough to take are of delays. (2) Referred to lie hanical Department.
By Mr. L. E. Stuckey: That small Red Cross kits be provided with all cars, to be used by trainmen in case o minor accidents to themselves during he day's work.
Disposition: We now have Emer gency Kits at Sherman, Hill St. Station, tions.
By H. H. Young: That some kind of hat check holder be placed on top of seat backs or on woodwoork between mindow panes in all class cars where hat checks are used, to better enable Disposition: keep track of fares.
bepartment The conductors pepartion conductors presen ance to them and the publie to hav this done. We
By Mr. E. Wolfe: That safety zone be painted at 3rd and Hill Sts., both north and south of 3 rd street to ac these cars to move across 3rd Stree without the second car having to make safety stop in order to relieve con gestion of traffic at this prace.
Disposition: Superintendent will take his up with Board of Public Utilities By Mr. J. H. Quinn: That instead of using Triplex W. D. T. 2 for passengers to or from Sawtelle and Soldiers' Home suggests we have a special ticket for on purpose, and colored red so it can e easily distinguished
Disposition: Referred to Traffic Department.
ignts on T. M. McCarley: That signal show either type cars be changed to is shining white lights are not always visible.
Disposition: Referred to Mechanical
By Mr. J. L. Spence: That narroll shace in the center of one-man cars be moved about four inches to th right and the other two shades taken out entirely, in order to do away with reflection of car ligths on operatins end of car. Department.

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Complete Furnishers of Successful Better Homes Eroadway Between Seventh and Eighth

By Mr. K. U. Sorenson: That some thing be done to keep passengers fron entering the venice Yard on Sunday o board the Ho mio while cars are motion; this practice being dangerous to passengers.
Disposition: Trainmen are instructer not to allow passengers to board car in Yard.
By Mr. K. U. Soronsen: That it would be of great convenience to many trainmen and passengers to establish a Pay Station Telephone in the staion at Sherman.
Disposition: Mr. White will take this matter up with the telephone company.
By Mr. S. G. Masterson: That stop sign at Lucile on Hollywood Line, be moved half way between Lucile and Hyperian, as the signs at Lucile
Disposition: This sign was placed Disposition: This sign was placed in present location by request and Board of Public Utilities as a safety measure
By Mr. C. H. Hoover: That notices be displayed at Hill St. Station asking passengers to hold their own ticket or transportation while boarding cars, to relieve congestion and speed up collection of tickets.
Disposition: Referred to Traffic De-
By Mr. A. E. Brown: That fares be collected at Hill St. Station as passen gers go through the gates.
Disposition: Referred to Traffic Department.
Mr. White made a few remarks, calling attention to the falling off in pas senger and freight revenue, whiee our perating expenses showed an increase in the number of accidents that were in the number of accidents that were occurring on the Pacific Electric Railpresent the necessity for using greater care, and securing witness cards in all accidents. He stated that these accidents involved a large loss to the Company, and asked for the co-operation of trainmen in exercising caution, to the end that accidents be reduced to a minimum; and that motormen put forth
coasting percentages, as this mean a redu
power. power.
The election of a new chairman tool place, the term of the present incum Fout having expired at this meeting he candidates were nominated fo majority, Mr. L. L. Pierce received the preside as Chairman for the ensuing three months.
There being no further business, the meeting was adjourned at $10: 30$ p. m. The trainmen then assembled in the pacific Electric Club Auditorium where they were entertained by a boxing con and Conductor R. T. Follett, and served with refreshments
M. MARKSWJTZ,

PE THING
"Who's dead:" asked the stranger, viewing the elaborate funeral procession.
"The man what's inside the coffin," said the boy.
"But who is it?" pursued the stranger.
"It's the mayor," was the reply
"So the mayor is dead, is he?" mused the stranger.
"Why, of course he is, d'you think he's having a rehearsal?" said the small boy, witheringly.

LIFE'S UNCERTAINTIES
年, said the politician sadly "I've been idle a whole month. I tell you, office, holding is getting to be a pretty uncertain business nowadays."

And how long had you held the office?" asked his friend.
"Why, let's see, it was going on thirty-two years," replied the poli-tician.-Exchange

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## HOW ABOUT YOUR INCOME?

If your house burns down, the fire insurance company pays. If your automobile is stolen, money received from the automobile insurance company will help you buy a new one.

But how about your income? Who pays the bills when sickness or accident lays you low? There is only one sure way to protect your income and that is with a policy of accident and sickness insurance.

The Pacific Mutual Life Insurance Company of California is issuing a policy specially prepared for electric railway men in Southern California. A great many of the buys carry it. Here are the names of a few who used it to help pay their increased expenses when they were laid up by accident or sickness:

Hatch, Frederick A........ La Grippe Wygal, Milton F........ Bruised back Goldstein, Melville G.

## Injured head and thumb

Shields, Thos. H............ La Grippe Kull, Robert E.................... Cold Reagan, John J...........Injured finger Radcliffe, Jesse R......... Bruised shin Crochett, Garland H......... Gastritis Hayden, George S........... Lumbago Trafford, Thos. A....Stomach trouble Wallace, Richard........... La Grippe Woodington, Harry N......... Cold Ferguerson, Ernest S..............Boils Reid, Harold .............. Erysipelas MacDonald, Clarence G..
Sorenson, Karl N.... Sprained back Howard, Elwood E. Bost, Wm. J. Davis, Herschell E. Goodrich. Glenn R. Martin, Perry J.
..Tonsilitis
..........Cold
Cinder in eye
Sprained ankle
Sprained ankle
.Strained back

Bush, Edwin D.
Bruised and burned hand
Shick, Geratle E................... Cold
Henry, Samuel A..................Cold Pratt, Alfred E....... Simach trouble Hampton, Harry C.......... Bronchitis Woolverton, Rusus M...... La Grippe Pitheon, Albert E................ Bruise Combs, Ennis H.............. Infiuenza Hilts, Arthur J.......Coids and boils Large, Chancey C....Stomach trouble Umflett, Henry ....... Fractured wrist Locke, Emmett R......Sprained wrist Harrison, Jos. T................. Cold Davis, Hershell E........Bruised knee Williams, Fred............. Bronchitis Davis, James..... Laceration of finger Anderson, Jesse........Fractured hand Ewing, Arthur E..........Severe cold Ramsey, Fred S.........Abscess of ear Rose, Robert R. Birkensea, John S

Ptomaine poisoning

## THE PACIFIC MUTUAL LIFE INSURANCE COMPANY OF CALIFORNIA

Accident Department-Street Railway Division 429 Central Building-Sixth and Main Streets Wm. L. Thomas, Superintendent<br>Agents:<br>J. R. Dougher, Western Division Pacific Electric Railway<br>J. V. Smith, Northern \& Southern Division Pacific Electric Railway F. C. Putz, Eastern or San Bernardino Div. Pacific Electric Railway H. W. Travis, all Divisions, Los Angeles Railway

