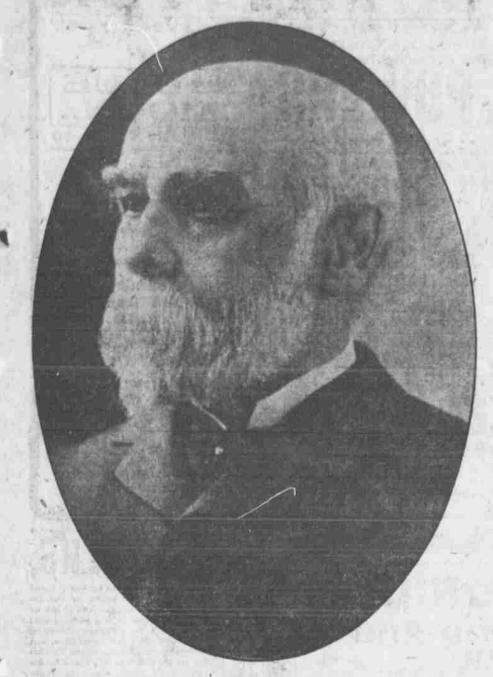
## Important Function of the Clearing House in Modern Business World



and a bill of particulars?

age Citizen by his small son certificates. have hummed and hawed a min- At the conclusion of each day's business two and then confessed he didn't various banks in the Clearing House assoknow. In order to save himself from com- ciation send a representative with a statewould hardly dare to go.

and banking. Like most other details of desirable to use something else than actual cates issued by the Omaha association bear made just before the civil war in the finan-ing house from a mere convenience to fa- organized, but most of them were short who is a mere depositor or borrower comes into contact with them so seldom he does not take the trouble to give them very minute attention. When he does he finds the explanations so surrounded with Incomprehensible terms he makes little headway.

For the benefit of those who are entangled at the outset by the term clearing house, it may be said that this is an institution conducted by the different banks of a city for the purpose of enabling them to "clear" their transactions with each other daily without having to deal individually ably every other bank in the city. The clearing house enables them to adjust their balances with each other easily and speed-

of Pennsylvania is usually quoted in anewer to the question, "What is a clearing house?" because it is lucid and comprebensive. The definition is as follows:

"It is an ingenious device to simplify and facilitate the work of banks in reaching an adjustment and payment of daily balances due to and from each other at one time and in one place on each day. In practical operation it is a place where all the representatives of the banks in a given city meet, and under the supervision of a competent committee or officer selected by the associated banks, settle their accounts with each other and make or receive payment of balances, and so "clear" the transactions of the day for which the settlement is made."

This was the original purpose of clearing houses, but in recent years they have been utilized, as in the present contingency, to secure united action of the banks of a city. This united action may relate to any subject of general interest to the banks and upon which they or a controlling majority agree. In the present contingency. as has been done in other cities a number of times, the Clearing House association was utilised as a means for securing uniform action when it was decided to be for the best interests of everybody concerned, to suspend temporarily the payment of cash to depositors. This is what might be called a special

function to be used only on special or unisual occasions. Other special functions of clearing houses which have been utilized at various times in the United States are the extending of loans to the government; mutual assistance to members; fixing uniform rates of interest on deposits and the issuing of clearing house loan certificates. The Omaha Clearing House association includes the national banks of Omaha and Bouth Omaha, the mutual business interests of the two cities being so closely bound that a single clearing house is considered better than two. The clearing house is located in a room back of the tricity as an anaesthetic have been made Nebraska National bank, at 214 South Twelfth street. The officers of the as. Surgery in the laboratory of experimental evolved for the purpose of facilitating and sociation are as follows: Henry W. Tates, surgery in connection with the College of expediting office work, has been exhibited president; V. B. Caldwell, vice president; B. Hughes, secretary and manager. The loan committee, which is an important vision of Dr. L. Pierce Clark, nerve special- supercede the ordinary private telephone factor in the workings of the institution ist; Dr. George E. Brewer, professor of installation with which every great busijust at present, consists of the following surgery at Columbia; Dr. James E. King, ness house of the day is equipped. With representatives of the various banks of who conducted the actual work of the ex- the dictograph it is possible for the con-Omaha and South Omaha: First National periments; Prof. Tufts of the department trolling heads to be brought into direct bank, F. H. Davis, chairman; Omaha Na. of physics at Columbia, and Dr. E. W. communication with any department in the tional bank, Luther Drake: United States the Carnegie fund. National bank, Victor B. Caldwell; Union The work has been inspired by Prof. The diotograph is a small box, about 13

HAT is the difference between Stock Yards National bank, E. F. Folda; a clearing house lean certificate South Omaha National bank, J. C. French; Packers' National bank, J. F. Coad, jr. If this question had been It is this committee that has the direction asked a week ago of Mr. Aver- of the issuance of the clearing house loan

plete and lasting ignominy in the eyes of his ment of its credits and debits in its acprogeny he might mumble something about counts with the other banks, to the clearclearing house loan certificate being an ing house. Under the supervision of the instrument used by bankers and a bill of manager of the clearing house each bank particulars being something or other which strikes a balance with every other bank. is filed in court, but further than this he The banks with balances against them will then pay to the banks holding the balances After reading the financial stories in the the amount of the balance. This payment newspapers for the last seven days Mr. is ordinarily made in money or in a form Average Citizen has probably gained suf- of paper called clearing house certificates. ficient information to reply with some con- These differ from clearing house loan cerfidence that a clearing house loan certifi- tificates in that they represent actual cate is a certificate issued by a clearing money and are issued only upon the deposit money to pay the daily balances with. By interest at 6 per cent. use to avoid the use of cold cash in cer- of gold or other legal tender. They are their use of money which other banks no campaign and the approach of hostilities, general banking business in Omaha was ducted in a small frame building at Twelfth tain transactions, but if he tried to be any used, then, merely as a matter of con- go to pay the daily balances may be certificates will be issued except upon the The banks of New York began calling in the Western Exchange Fire and Marine and Farnam, on the window of which was inore definite than this he would probably venience and to make it unnecessary to utilized to swell the volume of cash in cir- deposit of securities which are passed on their loans and money became tight and Insurance company, which opened an office painted these words, "Gold dust and govbecome entangled in the maize of his hazy dandle large quantities of money. The culation. It may be loaned or used in by the loan committee. The Omaha banks credit uncertain. It was this contingency at Twelfth and Farnam streets in 1856. clearing house loan certificates on the other making the volume of cash in circulation. have adopted the rule that led to the first issue of clearing house Thomas H. Benton, jr., a son of Senator established branches in Central City and And yet there is nothing complicated hand are issued upon the deposit of se- They represent in reality loans made by securities must be 25 per cent in excess of loan certificates. They were resorted to Benton, was the first president. It did a Denver, Colo., the Central City institution either about clearing houses or clearing curities by the bank desiring them. They the associated banks to individual mem- the amount of the certificates issued. In several times during the war and since, large and flourishing business until its being disposed of in a short time. house certificates. It is only rarely that are not used as currency and do not cir- bers of the Clearing House association to addition the assets of all the banks are but never before in Omaha, their use this failure in the panic of 1857. The next instithe ordinary citizen has either of them culate except between the banks and in relieve temporarily any stringency in cash pledged to the redemption of these certifipayment of the clearing house balances, that may harrass a bank. The certificates cates in the proportion of capital stock and and average conditions they concern only They are used only in times of financial bear interest to insure their retirement surplus. those who are directly interested in banks stringency when money is scarce and it is when need for them is passed. The certifi-







MILTON T. BARLOW.
President United States National Bank.





In the east than in any local stringency.



WILLIAM B. HUGHES, Manager Omaha Clearing House

banks and to the banking world at large, ing institutions. It has been largely instrumental in bringing At the beginning of that period there about a mutual helpfulness in banking in- were two banking firms in Omaha which stitutions by means of which large banks, have continued with some changes down temporarily embarrassed, may be saved to the present. They were Barrows, Milfrom ruin. It has thus given greater sta- lard & Co. and Kountze Brothers, both of bility to financial institutions and to the them being at Twelfth and Farnam streets. industrial world at large.

measures until this year.

Omaha has been particularly fortunate was the Bank of Nebraska, which

cilitate the transaction of interbank busi- lived. It was not until the commencement ness to an institution of important and far- of the national bank period in 1863 that reaching effect in its relations to individual great stability was secured in Omaha bank-

There were a number of changes in the While the loan certificates have been first named institution until 1883 the United more or less common in other cities Omaha States National bank was organized with has not resorted to them as precautionary a capital of \$100,000, which was increased to \$250,000 in 1886, and later to \$600,000.

The First National bank was organized in its banking institutions. As a general in 1862, it being one of the first to take adrule they have been conducted on safe vantage of the national currency law then and conservative lines. The banking his- but recently passed by congress. The pritory of the city begins in the troubulous vate banking business of Kountze Brothers times of "wild cat" institutions, which was continued until 1865, when it was flourished all over the country just before merged with the First National bank. ernment vouchers bought." The bank also

Henry W. Yates was connected with this time of its organization began business in 1856 and closed in 1858, until 1882, when he withdrew to organize The present situation affords a good il- During this period of uncertain state bank. the Nebraska National bank of which he is The first use of loan certificates was lustration of the development of the clear- ing institutions a number of banks were still the head. In 1866 Exra and Joseph H. Millard withdrew from the firm of Barrows, Millard & Co. to organize the Omaha. National bank. Ezra Millard remained with the bank until 1854, when he organized the Commercial National bank, which has since been merged with the United States National bank. The present Merchants National bank had its beginning in a private firm of J. A. Ware & Co., which entered Omaha as a branch of a Nebraska City institution in 1806. In 1870 the business in Omaha was purchased by ex-Governor Saunders, Frank Murphy, B. B. Wood and others. It became the State Bank of Nebraska and the Merchants National bank in 1882

A number of other miner banking houses have been organized, but they have either been merged with those in existence now or have gone out of business. In the panio of 1893 the Omaha banking houses weathered the storm well, giving proof of their solidarity and the safe manner in which they were conducted.

The condition of the five Omaha national banks at present is declared to be good and Mr. Yates, president of the Clearing House association, declares his belief that every one of them is in shape to weather any possible financial storm that may come upon the country. Foreseeing a probable shortage of money, the banks began calling in outstanding accounts wherever they could conveniently, as long ago as July. The result is they now have more money in their vaults than at any time for years. The last report to the comptroller of the currency shows the five in the cities came the extension of the national banks have resources amounting to \$40,300,113.89, and deposits amounting to setts and Connecticut saw the first general \$40,318,489.31. According to these statements

> \$13,457,417.96 13,353,633.50 16,580,580.75 7,047,211.00 8,366,365.47

> The loans, surplus and profits of the five banks were shown to be as follows:

Totals .......\$34,564,699.71 \$1,861,910.00 Omaha's banks are officered whose standing in business both locally and in the country at large is unquestioned. They are known for their integrity and conservatism. The following are the officers of the principal banking institutions

in the city: First National Bank—C. T. Kountse, president; F. H. Davis, vice president; L. L. Kountse, cashier; T. L. Davis, assistant president; L. S. Reed, vice president; W. E. Shepard, cashier; H. W. Yates, Jr., as

Merchants National Bank-Luther Dreka, resident; F. T. Hamilton, vice president; P. Hamilton and B. H. Melle, assis-J. I. Brandeis & Bons. Bankers—A. D. Brandeis, president; H. H. Brandeis, vice president; Emil Brandeis, cashim.

City Savings Bank.—J. F. Flack, president;
J. A. Sunderland, vice president; W. S. Hillis, treasurer.

Hayden Bros. Bankers—I. F. C'Connail, manager.

## Progressive Events in the Field of Electricity Automatic Telephones in Chicago. Stephane Leduc of the College of Medicine, inches in length by 6 inches wide and 4 consciousness is not sleep, and just what growth of the street railway industry has

proportion to the value of the municipal grant. So great is the opposition that the ordinance has been held up for two months. Now comes the Illinois Tunnel company, with an offer to install an automatic telephone system in its underground tubes, which ramify the city, connect with surface exchanges and provide telephones for 20,000 subscribers by January, 1909. The proposition is based on compliance with the terms which the city demands. It is now

before the council committee. The new general manager of the Tunnel company, W. J. C. Kenyon, formerly of Omaha, says:

"Fifty-six miles of conduits have been constructed out of a total of sixty. The last four miles still to be constructed consist of connections with railroads and bustnezs houses. Connection has been established with fifteen of the largest business houses and we are preparing to connect with thirty-five others. The remaining sections of the tunnel system are being exca-

vated at the rate of 300 feet a day. "Telephone wires have been laid all through the business section of the city. They have not been connected with all the business houses, for we are walting for connection with the buildings through our conduits. When we complete the tunnel, by the first of next year, we will have the right to string our telephone wires through-

out the city on poles. "We will not follow the shut-out policy of the Chicago Telephone company. We will connect with any independent company that desires entrance into Chicago, or we will connect with the Bell Telephone company. We will serve the public in any way the public wishes, and it is a well known fact that there are more independent telephones tion of another electric current. than Bell telephones clamoring for connection with Chicago."

Important experiments in the use of elecrecently before the Society of Chemical

company are considered trifling and out of and so on by regular intervals.

and general condition of the patient.

it in the least.

table will be no more.

Going the 'Phone One Better. An ingenious device, the dictograph, Physicians and Surgeons at Columbia uni- in London by its inventor. This apparatus, versity. They were under the direct super- which is simplicity itself, is intended to tional bank, J. H. Millard; Nebraska Na. Scripture, who has studied for five years building for conversation, or the dictation tional bank, H. W. Yates; Merchants Na. in Munich as one of the beneficiaries of of letters, without requiring the members of the staff to leave their own rooms.

HICAGO has struggled with the Nantes, France, who has gone far along inches deep, having two recessed orifices sleep is I would not attempt to say. It is been truly wonderful. The census for 1905 telephone problem for several the path of experimentation, having twice on its outer face, and with a row of the most remarkable thing in animal life, gives a total of 1,081 electric railway comyears and has not reached a applied the electric current to himself. switch-buttons along its base corresponding and it is more remarkable in the lower an- panies in the United States, with over \$3,000 satisfactory solution. The main The current which produces the 'electric to the number of departments within the small than in the higher. issue is cheaper and better serv- sleep," as the French call it, is different building. One orince corresponds to the "The normal human being makes elabor- these cars were placed end to end they ice. The Bell interests control from any previously known. There is a transmitter and the other to the receiver ate preparations once a day and then drifts would form a solid train from Boston to with every bank in the city. In the ordi- the field, but the franchise has little more special apparatus for its application, the of the common type of telephone, the box off into a state that we call sleep. He is Cleveland, O. It takes an army of 200,000 nary course of business every other bank than two years of life and the company is principal feature of which is an interrupter being connected through a flexible wire not worried, though he is almost helpless men to operate these railways and hearly making strenuous efforts to secure a re- by means of which a maximum of more with the ordinary wiring system on the during that time. He wakes up feeling in- 7,000,000 passengers are carried each year newal. A pending ordinance has that pur- than 6,000 interruptions a minute may be premises. A notable feature of this in- vigorated. The ordinary human being, how- -more than eighty rides for every man, pose in view. Some reduction in price of given. The current is of low tension and vention, however, is that the box may be ever, doesn't need to worry. He is under phones is offered and compensation for the constant direction-that is to say, a current placed in any position that is most con- a roof, out of the weather and knows that catty provided, but the terms offered by the which acts for a time, ceases, recommences venient, or even covered with papers, with- a certain amount of protection is thrown out impairing its efficiency in the slightest around him by his house walls and the As soon as the interruptions cease the degree. This is due to the fact that the protective institutions of society. return to consciousness is immediate, and transmitter and receiver are fitted with "But a rabbit, which is accounted this return has no relation whatever in ap- special microphones of great sensitiveness, most timid of animals, seeks out some pearance or sensation to the return from by means of which the sound waves are snug place one or more times a day and the unconsciousness induced by present collected, focussed, and then intensely also difts off into the absolutely helpless magnified. By this means the speaker can state. During that time he is at the mercy Electric sleep comes almost immediately converse as easily with the person at the of any one of a number of hostile animals within a minute or two after the current other end of the wire while walking about that may happen along while he is off is turned on, while those who have wit- the room, or from a distance of ten or quard. But the rabbit takes his sleep, nessed the administration of chloroform, fifteen feet, as when seated at the deak nevertheless. ether or ethyl chloride know that it is a on which the instrument has been placed. process sometimes taking half an hour or A purely normal tone of voice, such as more, dependent on the resisting power would be used in ordinary conversation, is possible, it should be of great assistance all that is required at any time.

Experiments for local anaesthesia by Similarly, the sound-waves transmitted means of this interrupting current, which along the wire are projected into the room rarely used as an anesthetic; it is always formed part of the experiments at in a clear, vibrant tone, which dispenses Columbia, were completely successful. It with the necessity of holding a receiver to was shown that by placing an electrode the ear. Consequently, while the speaker over the median nerve in the wrist the is engaged in issuing instructions through whole of the body fed by that nerve was the dictograph he can still pursue other affected. The return to the "norm" was operations at his deak, and the person to instantaneous, with no condition of im- whom he is talking need not put aside his paired circulation. Dogs were used in these pen. If secrecy in conversation is desired, experiments rather than cats, rabbits or however, the depression of a lever at the squirrels, for the reason that the dog's side of the box throws the loud-speaking nervous system closely resembles the hu- attachment out of gear, and a small reman, and its intelligence is of help in that ceiver hung at the side of the box is placed it would show some resentment if it suf- to the car in the usual manner. The adfered and would run away from a further vantages of the Turner system are obvious, experimenting. As it is, some of the dogs while, moreover, absolute privacy between used have been on the operating table five the speaker and listener is insured, as the or six times and do not apparently mind line cannot be tapped at any intermediate point. The loud-speaking attachment, how-So far the one weak link in the chain of ever, is no distinct novelty, as many of successful experimenting has been in the the English teleghonic fire-alarms are so matter of respiration, the interrupting cur- equipped; but the application of the prinrent when applied with too great intensity cipie in such a novel direction as this is a leaving the court action perfectly free, but decided advance in the scientific time and paralyzing the breathing, an effect which labor-saving equipment of the modern has to be met by producing an artificial business house or office suite. The merrespiration, which is done by the applica- fact that it does away with the necessity of calling together the entire staff for All of the physicians at the laboratory general instructions, or even of withdrawagree that a new era in surgery is at hand ing a single department head from his when the old-time horrors of the operating actual duties, shows how well it is fitted to both lighten and simplify the work of

Anesthesia by Electricity.

Referring to a cabled dispatch concerning the discovery by Prof. Leduc of France of a method of causing sleep by electricity, William Hallock, professor of physics in Columbia university, said that Dr. Edward Wheeler Scripture carried on a number of experiments to produce anesthesia by electricity while he was director of Yale's psychological laboratory, from 1892 to 1904.

"When one begins to talk about alcop," of doubt. Sleep is one of the several in- York. terrogation points in modern science. Un-

"If Prof. Leduc's discovery is all the

cabled report says it is, and that is quite in surgery and in the treatment of nervous diseases. Morphine is now very open to the objection that the patient may become addicted to the morphine habit. "Chloform and other are the usual anesthetics, but they often upset the pa-

tient's digestive system; they may also affect him injuriously in other ways. Physicians now and then find a patient greatest development. upon whom they aimply cannot use the Prof. Hallock was asked if the induc-

tion of sleep by electric currents would not leave the patient with a sense of exhaustion upon awakening, since sleep was brought about by fatiguing the nerves. "Well, the mental processes have a great deal to do with all that," he answered. "If the patient were convinced before electricity was applied that he would get up feeling invigorated, he most likely would feel that way, or think he did, which amounts to the same thing

up to a certain point. A continued as-

be sufficient for surgical purposes should not result in appreciable evil effects."

With the coming of electric traction the from Utica to Syraduge, fifty-two miles.

woman and child in the United States.

The first actually successful commercial electric road was placed in operation by Sprague at Richmond, Va., in February, 1888. The distribution of power was by a single overhead trolley, suspended over the center of the track supplying current at 450 volts. Current was taken from the wire first by sliding contacts pressing against it, and subsequently by a trolley wheel as in present practice. This road was a success from the start and it was only a few weeks before electric traction was being agitated in many other cities. One of the first large systems to adopt electricity as a motive power was the West End Street Railway company, in Boston in 1888.

Following the adoption of electric traction tracks into the rural districts. Massachuextension of the lines. The growth rapidly the deposits and resources were distributed extended west through New York and among the banks as follows Pennsylvania to the central and western states, where they have reached their

The problem of urban and interurban ordinary anesthetics; he is so constituted traffic is solved and the engineers have that his whole physical system is opposed turned their attention to the electrification to any of the customary drugs used for of steam roads and the construction of long that purpose. In these cases the 'electric lines of electric railroad for the hauling sleep' would fill that old friend-'a long- of heavy passenger coaches and long freight

adopt the new electric locomotives was the New York Central, which has electrified its Nebraska lines from the Grand Central station to Croton, thirty-five miles, and to North White Plains, twenty-nine miles. Thirtyfive General Electric locomotives haul the trains. All trains are now being handled in and out of the Grand Central station and through the tunnel by electric locome tives. It is claimed that a saving of \$2 per cent is shown in this method of hanries of electric sleeps might leave a sense dling traffic. The New York, New Haven from Woodlawn to Stamford, thirty-three miles, and trains are now running. The Pennsylvania railroad is building two tunnels under the Hudson river from Bergon Hill, New Jersey, to Thirty-third street, New York, and four tunnels at Long Island; City under the East river and will handle clip under the East river and will handle tall passenger traffic entering New York by the content. This company is also operation.

Kountze, cashler; T. L. Davis, assistant cashlers. Childred States National Bank—M. T. Barlow, president; G. W. Wattles and V. B. Caldwell, vice presidents; Alfred Millard, and G. E. Haverstick, assistant cashlers. Omaha National Bank—J. H. Millard, president; William Wallace and C. F. Mo-Grow, vice presidents; W. H. Bucholz, cashler. of exhaustion, but the few that ought to & Hartford railroad electrical zone extends Development of the Electric Railway, nels under the Hudson river from Bergon Less than twenty-five years ago, at Hill, New Jersey, to Thirty-third street, Young's hotel in Boston, a party of street New York, and four tunnels at Long Island railway men made proud reference to the City under the East river and will handle fact that there were at that time 415 street all passenger traffic entering New York by ratiways in the United States and Canada, electricity. This company is also opera-These railways owned and operated over ting the West Jersey & Seashore line from 3,000 miles of track, employed 35,000 men, Camden to Atlantic City, sixty-five miles ran 18,000 cars, using 180,000 horses, which by electricity and is completing the electriannually devoured 160,000 tons of hay and fication of ninety-five miles of the Long 11,060,000 bushels of grain. The item of Island railroad. The Eric is to equip thirtyhorses alone has been reduced and today five miles of its line electrically, from Jersaid Prof. Hallock, quoted by the New but a few of the old "hay motors" can be sey City to Greenwood Lake, and is con-York Times, "he goes right into a region found dragging cars in the city of New aldering the change of 250 miles of interurban track. The West Shore is electrified