

General Electric Company Now Operating Two Plants in Rochester. Is World's Largest Manufacturer of Electrical Apparatus.

Buildings, formerly occupied by war industries are now devoted to manufacture of electric motors. Expected that local plant will develop into one of major industries of city. Several hundred already employed and output is increasing.

Considerable interest is being manifested by Rochesterians in the establishment of plants here by the General Electric Company. The recent purchase of the second plant of the Symington Machine Corporation by the big electric company has heightened this interest and it is generally believed that the General Electric Company intends to develop a large branch factory here.

The General Electric is now actively engaged in the manufacture of small motors in the first of the Symington plants purchased. The new plant is one block from the first place secured, located in Leighton Avenue. The second plant will be given over to the manufacture of induction motors. It will probably be ready for operation within a few months. Work will be offered to both men and women workers, but men employees will be in the majority.

Location of Other Plants
At the present time the important factories of the company are in Schenectady, N. Y., Pittsfield and Lynn, Mass.; Harrison, Watessing and Newark, N. J.; Erie and Philadelphia, Pa.; Fort Wayne, Ind.; Cleveland, and a new plant just purchased in Baltimore. These are supplemented by a number of smaller plants, each specializing on the manufacturing of certain classes of apparatus.

In its several large factories it employs more than 85,000 persons. The total land area of these plants is 955 acres and the total floor space of the buildings is more than 18,000,000 square feet. Its general office, in Schenectady, is a seven-story structure and is said to be the largest office building in America used exclusively by one concern.

More than 500 types of apparatus are manufactured from the 50,000 horse power turbine to the miniature Mazda lamp. Complete electrical equipments are made for practically every class of industrial power application, lighting, mining, railways, ship propulsion and central station systems.

New Uses for Electricity
When electricity was discovered no one thought of the great possibilities which the future had in store. But as engineers and scientists learned more and more about this strange form of energy new and better uses were found for it. Today electricity is the greatest

source of artificial light and the prime mover in the power world, and is rapidly taking a prominent place as a form of heat. With the work of the company guided by master hands, electrical arts leaped into industrial pre-eminence; volume of manufacture of appliances; progress of invention, public confidence in electricity, and its general utilization all took long strides forward. The expansion of each department of electrical engineering had been signalized by achievements utterly undreamed of when the General Electric Company was started.

Progress of Plant
Now employing several hundred men and women and manufacturing fractional horse power motors for washing machines and other purposes, the General Electric Company's plant in Leighton Avenue has reached the stage of development which promises it a place among major industries of Rochester. Indications are that next year will find it producing several thousand motors weekly and employing from 1,000 to 1,200 men. The plants of this concern in other cities have grown to mighty proportions.

Hundreds have applied for work, stating that they desired to get in on the ground floor of a business they were confident would undergo great expansion. The plant now employs more than 85,000 men, has 18,000,000 square feet of floor space in its various plants and manufactures more than 500 types of apparatus. The Leighton Avenue plant was purchased by the General Electric Company last December. It was known as plant A of the Symington Machine Corporation and did a vital war work by the production of a huge quantity of shells. The plant has more than 120,000 square feet of floor space and its single-story building has a maximum length of 830 feet. More than \$200,000 has been spent in remodeling the building since its purchase by the General Electric Company, which determination is to make it a plant with ideal lighting, ventilation and convenience.

Plant Safe and Sanitary
The company is making its plant safe, humane and pleasant. It has coat and wash rooms with individual wash basins for both men and women, rooms with much roominess. It has a self-servicing restaurant where employees may obtain hot dinners. Drinking fountains are found in various parts of the factory, as also buckets of sand and fire extinguishers. The plant hospital has a physician and nurse in attendance. It consists of an operating room, two waiting rooms for men and women, and a first aid room, all fully equipped.

Employment Available
Many of the employees in the other plants have long records of service with the company. Statistics compiled at the Schenectady works show that in every 500 employees, 250 are 3-year men, of whom 100 are ten year men, and 15 are 25-year men. Employment in the Rochester plant is now open and an employment office has been opened at 10 Leighton Avenue, to take care of those interested in obtaining work.

The Rochester plant has many features but the most striking to the person used to visits to other factories is that each machine used in the manufacture of the motors is operated directly by its own motors. The completed plant will have only four machines with overhead drives, such operation being required through the nature of these machines. The absence of overhead counterbalancing gives the factory a roomy, lighter appearance, its noise and promised efficiency. The General Electric Company is a believer in good light and its Rochester factory will display an artificial lighting development on an extended scale. The factory is divided into twenty foot bays and each has four 100 or 150 watt lamps suspended twelve feet from the floor. They are of the semi-indirect type and diffuse light without glare, which makes the factory as light as night or on dark days as in bright sunlight.

Most Machinery Automatic
Automatic machinery predominates at the plant which started operation in the last week of June. Particularly interesting are the fifty or more big automatic screw machines. Each has rods being converted automatically into various kinds of screws, some with knurled ends, others being of the plain bolt type. Between seventy-five and one hundred of these screw machines will work in the completed plant along with about the same number of punch presses of which more than forty are now operating. A big heading machine attracts the eye of the visitor. He watches it taking copper wire and transforming it into rivets at the rate of 65,000 daily. Another machine is turning out bronze coil springs at the rate of 3,000 an hour. A giant Bullard automatic machine is operating in a near human way. It accepts an end shield casting for a motor and carries it through five operations that take place at regular intervals as the casting travels around the great vertical cylinder. The casting completes its journey with various holes drilled and machined.

Automatic machinery predominates at the plant which started operation in the last week of June. Particularly interesting are the fifty or more big automatic screw machines. Each has rods being converted automatically into various kinds of screws, some with knurled ends, others being of the plain bolt type. Between seventy-five and one hundred of these screw machines will work in the completed plant along with about the same number of punch presses of which more than forty are now operating. A big heading machine attracts the eye of the visitor. He watches it taking copper wire and transforming it into rivets at the rate of 65,000 daily. Another machine is turning out bronze coil springs at the rate of 3,000 an hour. A giant Bullard automatic machine is operating in a near human way. It accepts an end shield casting for a motor and carries it through five operations that take place at regular intervals as the casting travels around the great vertical cylinder. The casting completes its journey with various holes drilled and machined.

Employment Available
Many of the employees in the other plants have long records of service with the company. Statistics compiled at the Schenectady works show that in every 500 employees, 250 are 3-year men, of whom 100 are ten year men, and 15 are 25-year men. Employment in the Rochester plant is now open and an employment office has been opened at 10 Leighton Avenue, to take care of those interested in obtaining work.

of the people disdain the authority of God the people in turn despise the authority of man. There remains, it is true, the usual expedient of force; but to what effect? Force subdues the bodies of men, not their souls."

But what considerations can equal the examples of Bolshevist Russia? Here is the largest and richest of the great Western states a prey to every form of wrong and oppression that the imagination can conceive. Property, personal freedom, life, all rights and obligations, are trampled under foot, while a new insane order is offered to the world. And the main idea of this that each machine used in the manufacture of the motors is operated directly by its own motors. The completed plant will have only four machines with overhead drives, such operation being required through the nature of these machines. The absence of overhead counterbalancing gives the factory a roomy, lighter appearance, its noise and promised efficiency. The General Electric Company is a believer in good light and its Rochester factory will display an artificial lighting development on an extended scale. The factory is divided into twenty foot bays and each has four 100 or 150 watt lamps suspended twelve feet from the floor. They are of the semi-indirect type and diffuse light without glare, which makes the factory as light as night or on dark days as in bright sunlight.

Develop National Traits
We must conserve and perfect our American concept of the virtue, private and political; a divine gift, it is true, but developed amid the immensity of nature and apart from the diseased social conditions of the Old World. We must gather in, unite, and assimilate the human elements forever attracted by the lode star of freedom and our prosperity, but let us atone for past neglect by the wisdom, regularity and humanity of our new philosophy in respect of the immigrant. We must improve the mind of American youth with abundant reliable knowledge, elementary, technical, professional, liberal, in due proportion and due respect to conditions and circumstances, avoiding the pitfalls of the doctrinaire and the shallows of socialism. We must recognize and enforce the great basic truth that the American man liveth not by bread alone nor for material ends only, but that he is a child of God, endowed with duties and rights which he must deal with morally, self-reliantly, but in all conscience as before his Maker and Judge. As to the world burden imposed upon our American citizenship, we shall best meet its demand by the development of those national traits which distinguish us amid the scenes of conflict. The American citizen will be ever unselfish and self-sacrificing in face of the urgent needs of suffering humanity, but he will not be lacking in prudence, good sense, and moderation. He will not substitute himself for those who can and ought to work out their own salvation, nor become the common carrier of the sorrows and woes of all mankind. In the coming years, as the new political order of Europe develops, he will need to walk warily to avoid entanglements in a world habituated to them and want to free itself by ways and means that are not congenial to American citizenship. This citizenship must hold its own in the world by its traditional spirit and principles, concerned first with own security and identity, and watchful ever lest its fibre be changed and a pure humanitarian service and temper take the place of our national consciousness, self-respect, and domestic obligations.

History
By GEORGE MATTHEW ADAMS
HISTORY is a marvelous teacher. From her pages speak events, experiences and thrilling deeds—all products of the human brain. You are now playing a part of the future History of the World. Even the humblest man or woman has his part to play. And the part played must needs be recorded. The work of your days and life—whether for good or ill, in its final summing up—is as sure to mark or influence some phase of the entire History of Histories, as each act you perform today is sure to give color and form to the final results of today. Yes—you are now playing a part of the future History of the World. It is the realization of this truth by men and women that inspires some to become great and notable while others remain obscure. For just as soon as people wake up to the fact that Responsibility presses down upon them, they begin to draw upon their Reserve Power. And it is Reserve Power that helps make History fascinating. You are now playing a part of the future History of the World. It is not necessary, however, nor is it possible for us all to become notable in History. History is universal. And so is the Mind that makes up the human Soul. You—doing your work in the best way you know how—are as great an element in History as Alexander, or Washington, or Cromwell or such as they. Study History. It will arouse you to big deeds. Live as you would like to have History say you lived.

History
By GEORGE MATTHEW ADAMS
HISTORY is a marvelous teacher. From her pages speak events, experiences and thrilling deeds—all products of the human brain. You are now playing a part of the future History of the World. Even the humblest man or woman has his part to play. And the part played must needs be recorded. The work of your days and life—whether for good or ill, in its final summing up—is as sure to mark or influence some phase of the entire History of Histories, as each act you perform today is sure to give color and form to the final results of today. Yes—you are now playing a part of the future History of the World. It is the realization of this truth by men and women that inspires some to become great and notable while others remain obscure. For just as soon as people wake up to the fact that Responsibility presses down upon them, they begin to draw upon their Reserve Power. And it is Reserve Power that helps make History fascinating. You are now playing a part of the future History of the World. It is not necessary, however, nor is it possible for us all to become notable in History. History is universal. And so is the Mind that makes up the human Soul. You—doing your work in the best way you know how—are as great an element in History as Alexander, or Washington, or Cromwell or such as they. Study History. It will arouse you to big deeds. Live as you would like to have History say you lived.

History
By GEORGE MATTHEW ADAMS
HISTORY is a marvelous teacher. From her pages speak events, experiences and thrilling deeds—all products of the human brain. You are now playing a part of the future History of the World. Even the humblest man or woman has his part to play. And the part played must needs be recorded. The work of your days and life—whether for good or ill, in its final summing up—is as sure to mark or influence some phase of the entire History of Histories, as each act you perform today is sure to give color and form to the final results of today. Yes—you are now playing a part of the future History of the World. It is the realization of this truth by men and women that inspires some to become great and notable while others remain obscure. For just as soon as people wake up to the fact that Responsibility presses down upon them, they begin to draw upon their Reserve Power. And it is Reserve Power that helps make History fascinating. You are now playing a part of the future History of the World. It is not necessary, however, nor is it possible for us all to become notable in History. History is universal. And so is the Mind that makes up the human Soul. You—doing your work in the best way you know how—are as great an element in History as Alexander, or Washington, or Cromwell or such as they. Study History. It will arouse you to big deeds. Live as you would like to have History say you lived.

History
By GEORGE MATTHEW ADAMS
HISTORY is a marvelous teacher. From her pages speak events, experiences and thrilling deeds—all products of the human brain. You are now playing a part of the future History of the World. Even the humblest man or woman has his part to play. And the part played must needs be recorded. The work of your days and life—whether for good or ill, in its final summing up—is as sure to mark or influence some phase of the entire History of Histories, as each act you perform today is sure to give color and form to the final results of today. Yes—you are now playing a part of the future History of the World. It is the realization of this truth by men and women that inspires some to become great and notable while others remain obscure. For just as soon as people wake up to the fact that Responsibility presses down upon them, they begin to draw upon their Reserve Power. And it is Reserve Power that helps make History fascinating. You are now playing a part of the future History of the World. It is not necessary, however, nor is it possible for us all to become notable in History. History is universal. And so is the Mind that makes up the human Soul. You—doing your work in the best way you know how—are as great an element in History as Alexander, or Washington, or Cromwell or such as they. Study History. It will arouse you to big deeds. Live as you would like to have History say you lived.

History
By GEORGE MATTHEW ADAMS
HISTORY is a marvelous teacher. From her pages speak events, experiences and thrilling deeds—all products of the human brain. You are now playing a part of the future History of the World. Even the humblest man or woman has his part to play. And the part played must needs be recorded. The work of your days and life—whether for good or ill, in its final summing up—is as sure to mark or influence some phase of the entire History of Histories, as each act you perform today is sure to give color and form to the final results of today. Yes—you are now playing a part of the future History of the World. It is the realization of this truth by men and women that inspires some to become great and notable while others remain obscure. For just as soon as people wake up to the fact that Responsibility presses down upon them, they begin to draw upon their Reserve Power. And it is Reserve Power that helps make History fascinating. You are now playing a part of the future History of the World. It is not necessary, however, nor is it possible for us all to become notable in History. History is universal. And so is the Mind that makes up the human Soul. You—doing your work in the best way you know how—are as great an element in History as Alexander, or Washington, or Cromwell or such as they. Study History. It will arouse you to big deeds. Live as you would like to have History say you lived.

History
By GEORGE MATTHEW ADAMS
HISTORY is a marvelous teacher. From her pages speak events, experiences and thrilling deeds—all products of the human brain. You are now playing a part of the future History of the World. Even the humblest man or woman has his part to play. And the part played must needs be recorded. The work of your days and life—whether for good or ill, in its final summing up—is as sure to mark or influence some phase of the entire History of Histories, as each act you perform today is sure to give color and form to the final results of today. Yes—you are now playing a part of the future History of the World. It is the realization of this truth by men and women that inspires some to become great and notable while others remain obscure. For just as soon as people wake up to the fact that Responsibility presses down upon them, they begin to draw upon their Reserve Power. And it is Reserve Power that helps make History fascinating. You are now playing a part of the future History of the World. It is not necessary, however, nor is it possible for us all to become notable in History. History is universal. And so is the Mind that makes up the human Soul. You—doing your work in the best way you know how—are as great an element in History as Alexander, or Washington, or Cromwell or such as they. Study History. It will arouse you to big deeds. Live as you would like to have History say you lived.

Rochester Phone 3325 Stone
Goods Called For and Delivered

Weiss Tailoring Company

Ladies' and Gents' Clothing Fancy
Dry Cleaned, Repaired and Pressed

166 South Avenue
Rochester, N. Y.

Genesee Bridge Company, Inc.

All Kinds of Structural Steel Work
Beams, Channels, Angles, etc. Carried in Stock

Office and Works
666 Plymouth Ave. and Penna. R.R.

Home Stone 3473
Phones
Bell Genesee 1083

Rochester, N. Y.

Bell Phone Main 2527
Home Phone Stone 6622

D. A. Alexander Company

Contractors

Mechanical Engineering
Automatic Sprinkler Systems
Heating and Sanitary Plumbing
Steam Power Plants

272 State Street
Rochester, N. Y.

Education for American Citizenship.

(Continued from page 9)

in business or in politics, and the same general temper is to be observed in his attitude toward religion. We cannot, therefore, imagine him inclined to the secular monopoly of education for which reason our American life has until recently been spared any serious endeavors to change the fibre of our traditions in this respect. We may also believe that as he looked about in the United States and observed the incredible development of education, owing to private initiative and religious zeal, the immense and costly equipment, the personal toil and sacrifice, the rare idealism of the teachers, the secular benefits conferred upon poor and struggling communities, the healthy mutual rivalry, the facile Americanization of multitudes otherwise destined to become politically the drift and refuse of their time; as he observed their happy insistence upon the highest morality anchored in religious belief, and thereby secured the joyful acceptance of civic loyalty; as he made note of their alacrity and ardor in responding to the call of the American State whenever the hour of its supreme peril was at hand, and in offering their lives for its safety and welfare, he would cordially agree with the educational principles set forth in the following brief paragraph from the recent Pastoral Letter of our American Catholic Bishops, read in all their churches, and accepted by all their people.

Function of Government
"The State has a right to insist that all its citizens shall be educated. It should encourage among the people such a love of learning that they will take the initiative and without constraint, provide for the education of their children. Should they through negligence or lack of means fail to do so, the State has the right to establish schools and take every other legitimate means to safeguard its vital interests against the dangers that result from ignorance. In particular it has both the right and the duty to exclude the teaching of doctrines which aim at the subversion of law and order and therefore at the destruction of the State itself."

"The State is competent to do these things because its essential function is to promote the general welfare. But on the same principle it is bound to respect and protect the rights of the citizen and especially the parent. So long as these rights are properly exercised to encroach upon them is not to put in peril the general welfare, but to put it in peril. If the function of government is to protect the liberty of the citizen, and if the aim of education is to prepare the individual for the rational use of his liberty, the State cannot rightfully or consistently make education a pretext for interfering with rights and liberties which the parent, not the State, has conferred. Any advantage that might accrue even to a perfect system of State education would be more than offset by the wrong which the violation of personal rights would involve."

tion would be more than offset by the wrong which the violation of personal rights would involve."

Religious Training Essential
After all, the best security for American education and thereby for American citizenship is religious training. For this we have the authority of George Washington in his farewell address:

"Of all the dispositions and habits which lead to political prosperity religion and morality are indispensable supports. In vain would that man claim the tribute of patriotism who should labor to subvert these great pillars of human happiness—these firmest props of the duties of men and citizens. The mere politician, equally with the

religious man, ought to respect them. A volume could not trace all their connections with public and private felicity. Let it simply be asked: Where is the security for prosperity, for reputation, for life, if the sense of religious obligation desert the oaths which are the instruments of investigation in courts of justice? And let us with caution indulge the supposition that morality can be maintained without religion. Whatever may be conceded to the influence of refined education on minds of peculiar structure, reason and experience both forbid us to expect that national morality can prevail in exclusion of religious teaching."

The great primal fact of God as our maker, ruler, and judge overshadows and conditions the whole range of being. The persuasion that we are made to know, love, and serve Him offers a working philosophy of life, a compass on its stormy sea. The burdens of life are borne more cheerfully when the common heart turns easily heavenward, and amid the pressure of private sorrow and public disaster lights the demons of envy and discontent with the weapons of faith and love. The advancing centuries bring many improvements of human life, not all of them unmitigated blessings perhaps, but so far they have affected seriously the heart of man. His years on earth are yet few and troubled, his thirst for perfect happiness ever unquenched, his mistake of symptoms for causes persistent through all time. It were folly for him if he had been taught from youth to look on the endless currents of life, with Christian eyes, if he can learn to say with the good gray poet:

"I see the wrong that round me lies,
I feel the guilt within;
I hear the groan and travail cries,
The world confess its sin.
Yet in the maddening maze of things
And tossed by storm and flood,
To one fixed trust my spirit clings;
I know that God is good."

"Neither education or philanthropy nor science nor progress can ever take the place of religion," says a certain good man. "The merely intellectual agencies are no substitutes for a supernatural faith that is a distinct light and guide from that of human reason. Something higher and nobler, than flesh and blood, something eternal and immortal, broods over this world for the regeneration of man unto a destiny with God that the human mind within its own natural limitations can neither grasp nor comprehend." The man who knows the world as God's own work and every way related to a divine purpose escapes the hard pessimism of our modern life and its cold intellectual culture in whose unhealthy light hope and ardor soon wither on the ashes of faith and love. Training in religion offers the highest motives for conduct, exhibits the best examples of a good life, and in the holiness and justice of God presents the highest sources and sanctions of respect for authority and obedience to the laws. "Only too well" said Pope Benedict recently, "does experience show that when religion is banished human authority totters to its fall. . . . Likewise, when the rul-