What the French Are Doing to Open Up the Greatest of Deserts



TUNISIAN BRAKEMAN AT WORK

rend is bound to revolutionize the der that passengers may not get left. African continent. Already the The methods of ticket selling and baggage from lorse, who breath is smoke and whose checking are such that one should be at the the sides and it is not possible to go eye is fire, is beginning to fight up the train at least a quarter of an hour before through a whole train, as in our country darker spots of these blackest regions on starting, and he will then have to wait his. The seats are well cushioned, and as the eastern Africa, where they are building a others, each of whom consumes at least tunities for seeing are good. The second line from the Cape of Good Hope to Cairo, two minutes at the ticket office and twice and third-class cars are divided up in the This has been extended from the Mediter- that time with the baggage master. If the same way and the second class is almost nanean southward for a distance as great ticket is a return the agent figures out a as good as the first as from the Atlantic to far beyond the reduction of 30 per cent off the regular fare. The third-class seats are bare board Mississippi, and the extension from Cape and makes a memorandum of the amount benches and they are usually filled with Town to the north is greater still. The on a ledger as well as on the ticket itself. Arabs, Moors and Kabyles, with a sprin-Rhodesia railway system reached the Zam. The ordinary tickets are somewhat like kling of private soldiers. The latter rekhedive of Egypt. His majesty is rich and ally form a live field for railroad engineers
best river in 1905. During the last year it ours, but the "returns" and excursion ceive wages of only about 1 cent per day
he has trouble in investing his surplus. He it is now in such an unsettled state that as extended beyond that point at the rate certificates are of the size of a legal docu- and hence cannot travel in luxury. of almost one mile per day, and it is now ment and quite as imposing. at the Broken Hill mines, within less than

scribe the various stages. an extensive rallway system; Egypt is gridironed with tracks and trunk lines are being surveyed in the Soudan and in th Congo valley.

Africa Versus the World. In fact, railroad building is now going

on in Africa about as fast as in any other part of the world. The continent is increasing its mileage at the rate of over 10 cent per year, and while it has yet the fewest lines of any of the grand divisions of the globe, its means of communication are rapidly growing.

At present the chief railroad continent is North America. It has between 250,000 and 200,000 miles of iron tracks. Next comes Europe with less than 200,000 miles, and after that Asia with something like 50,000. Australia has 16,000 miles of railroad lines. and Africa a little over 15,000. Of all the countries of the world the United States leads in its iron highways. We have more tracks than all Europe, and three times as many as all the continents outside ours.

Here in Africa the principal ratiroads may be grouped into three systems. The first embraces the Tunisland-Algerian roads of the Atlas mountains, the second the Egyptian lines and the third the South African roads, which have a greater mileage than those of the other two systems combined.

Railroads of the Atlas.

In this letter I shall deal only with the several which the French are projecting across the Sahara. During the past few months I have traversed nearly every mile of track in the region of the Atlas, and Le Ray de Chaumont, son of the Count de have gone over the roads which are being Chaumont. He was born at Chaumont, pushed down into the desert. I am writing on the Lorie near Blois, France, on Novemthese notes at Biskra, in the Schara, at the ber 11, 1760, was educated at the celebrated end of a railroad which takes one almost college of Juilly and at 17 became a courtier 200 miles south of the Mediterranean sea, of Louis XVI and Marie Antoinette. and I have already inspected, the military line which goes down into the desert far manner and noble birth, and soon become below this point along the borders of the a court favorite. No Frenchman had better

It is generally claimed that the French are not good colonizers, and that they are allowing their vast possessions, scattered here and there over the world outside France, to remain as they were when they obtained them. This is not so as to Africa. The fertile parts of Algerta and Tunisia tion started he became an advocate of are covered with railroads. There is a line American liberty. He received in his paintee about as long as from Philadelphia to Chi- in Passy the American commissioners when cago with branch lines to the north and they reached Paris, and Franklin remained of the Twil.

Algeria alone has now more than two a grest part of north Africa by sleeper.

In Tunista, which is almost as big as the ate of Illinois, there are now something pendence. like 600 miles of railroads. They are

propriations for their extension. A part of the Alperian system belongs to The various supplies mentioned included the government, and another part is in the food, clothing, muskets, causes, ships of hands of some of the French reliment com- war and money. In part these were abpanies. This is so of the road from Oran to Algiers: it belongs to the Paris, Lyons and mont's great fortune was used in advances Mediterrunean corporation, and its chief to the American cause. Some of the adoffices are in France. The Subara lines wances were provisionel loans, but nothing are largely military, and they could hardly was expected in return until the colonies exist without government support.

different from that of the United States, obligations

BISKRA, in the Desert of 82- twenty miles an hour and the railroad class, and semetimes I have a compart-

The work is rapidly going on in turn with a crowd of Arab soldiers and sides are walled with windows the oppor-

600 miles of Lake Tangenyika. I expect to fore I leave Africa, and will be able to de- are allowed free and everything must be trains. Others stop at the stations for the Atlas mountains of Morocco to Tan- Africa and one of the worst governed and go along the greater part of this route beum the coasts of both east and west checking baggage and the agent registers tion there is a lunch room, called a bu- frunk line from the Nile to the Atlantic. frica railroads are being built into the the weight whether it is below seventy vette. nterior, which will give access to the cen- pounds or not. The checks are not made. The usual rate for dinner is about 40 in the present condition of that country, cepting the French regions of the Desert tral and southern parts of the continent, of cardboard or brass, as in our country, cents and for that sum one gets an ex- and it is doubtful whether the travel and of Sahara, Morocco is almost as large as the Atlantic ocean. This was the line Here in the north the French colonies have They are merely receipts on a thin, tough cellent meal with a quart bottle of white freight of the region between Tripoli and those two countries put together, and it favored by Si Mehdi el Menebbi, the ex-



FREIGHT TRAIN OF THE CENTRAL SAHARA

At the depots the poorer Arabe threw these wine is good and the food is excellent. bags over their shoulders and murch off

First and second-class passengers take numerous values and bundles into the cars. they all go into the car. At every stop and start the porters take all my stuff in and out for me and the rates are so low that good, lusty Arab can carry my baggage.

In the Cars.

hara. May 15.-(Special Corre- clicks at the stations are purposely kept ment for myself and son. The cars are the other. They are usually entered from

Enting Arrangements. Within the past year or so dining cars the railway system of Tunisia.

Only about seventy pounds of baggage have been put on some of these Algorian

paper so arranged that one-half of each or red wine thrown in. Luncheons are the Nile would ever make that part of the receipt can be given to the passenger and often put up and brought to the cars at road pay. The length of this trunk line the other doubled up and tied with a string a cost of about 10 cents each. For that all mid, would be about as long as from one gets two slices of roast beef or a half New York to Salt Lake City, and fully two-Most of the natives carry their belongings chicken, several boiled eggs and also thirds of it remains to be built. Here in in bugs not unlike coffee sacks and much cheese, sweet cakes and fruit. There is Algeria and Tunicia there are roads runof the checked baggage is of that nature. always a quart bottle of wine put in. The ming east and west about us tar as from

Railroad Employes.

I have not the railroad wages at hand, ward, but they must be exceedingly low. Every I am now traveling with nine packages and station has a large number of officers and soldiers. A cross-roads depot which in our country would hardly be thought iterranean through the Libyan desert. The worthy of an agent requires a half dezen knedive has traveled on horseback over this the cost of handling is little. Four cents guards and the large stations proportionis a big enough fee for one man and one ately more. There is always a chief depot manager, a baggage master, a telegraph ported a large population. Everywhere ha operator, a ticket soller and a number of porters. It takes a half dozen men to start. There were ruined towns and villages and The first and second-class compartments a train. The engineer whistles, one of the snough stones in them to build a hundred (Copyright, 1947, by Frank G. Carpenter.) trains do not make more than fifteen or are comfortable. I am traveling first guards rings a bell and others run from new settlements. Here and there he car to car and shut the doors while they crossed rich ouses, and he has advanced ery "Get on, gentlemen, if you please." spondence of The Rec.)-The rail- five minutes behind every other time in or- divided into little box-like rooms by par. On the cars themselves there are many part already built is now doing so, and he titions, which run across from one side to employes. There are engineers, firemen has widened the sauge to accommodate the and brakemen galore. Every train has its traffic. If it should ever be completed to mail clerk and its baggage man and often Tunisia, and the Morocco extension made. an express messenger as well.

New Railronds for North Africa. The railroads of Algeria and Tunisia at tar, and there will be a probable connecpresent have a length of almost 3.00 miles. The new lines projected number many built from Cairo to connect with the lines thousand miles more, and in the near fu- new going south through Damascus and ture the railroad system of this part of the Jerusalem. world will probably be several times what it is now. One of the most remarkable of the new schemes is fathered by the young proposes to build a railroad from Egypt the powers will have to take hold of it to Tripoli which may be extended on around within a short time. Both life and propthe Gulf of Gabes and thus conset with crty are unsafe, and it is impossible for

Another scheme is to build a line through weighed. There is a tax of 2 cents for luncheon and dinner, and at every sta- gier, the two projects completing a great most backward. It has ten or more mil-The Morecco scheme cannot be attempted richer than either Algeria or Tunisia. Ex- Mogador to Marakech and Fez. This

New York to Chicago, and in Egypt the khedive has already built something like sixty or seventy miles from the Nile west-

On the Libyan Deserts. A part of this route goes along the Medsection and was surprised to find that the country has rich soil and that it once supwent he saw the remains of the Romans the opinion that his road will pay. The would bring Africa within four hours of Europe by way of the Struit of Gibraltion with Asia by a road which might be

Morecee's Railway Possibilities.

foreigners to travel through it. Morocco is one of the richest countries of lion population and it is said to be far

has no roads nor any highways of com- war minister of the sultan. Both the munication except bridle paths. It has French and the Germans are now after some large cities, such as Fez. Marakech rallway concessions in Morocco. and Mekinez, and eight or more coastal ports. The country is such that railroads could be easily built through it, and I am told that the natural resources would eventually make the roads pay.

One of the first lines to be constructed in

Morocco will be from Tangier, the port opposite Gibraltar, to Fez. the capital The distance is 175 miles and at present continent from the Nile to the Atlantic, all the freight between the two cities is and it is wonderfully rich in resources and carried on came's, donkeys and mules, people. The barrier between the two Travelers usually go upon horses and they regions is the great Desert of Sahara, must always be accompanied by soldiers which is as long as the Mediterranean and ally form a live field for rallroad engineers or pay a tribute to the tribes along the as wide as from the Atlantic ocean to the Another scheme is to extend the West-

ern Algerian road, which now goes to Tlemcen, on to Fez. This would connect sand and have climbed the mountains and the chief capital of the sultan with the plateaus which are found here and there French colonial railway system and give Morocco access to almost three thousand miles of railroad communication. Still another road proposed is that from

would furnish Fez with a short route to

ing them. He also induced other Euro-

In 1794 and 1796 M. Necker, the great

French minister of finance, and his famous

daughter. Mme. de Stael, made large in-

vestments. A letter from the latter is in-

"I regard you as a guide" she wrote

to him, "and since it is owing much more

calculations in the world that I confide the

Later she wrote that she was sorry that

"I understand you have managed your

lands with great skill. I cannot imagine a

Another important sale was to Joseph

Napoleon. Le Bay was in France just after

Benaparte, king of Spain and brother of

Waterloo. He had known Joseph Bona-

parts for many years and hastened

to lend him assistance. The account of

Bonaparte's purchase is thus related by

dinner, said suddenly to him: I remember

you spoke to me formerly of your great

possessions in the United States. If you

still have them I should like very much to

have some in exchange for a part of that

silver I have in those wagons and which may be pillaged at any time. Take 400,000

or 500,000 francs and give me the equivalent

"Mr. L. objected that it was impossible

to make a bargain where one party alone

knew what he was about. 'Oh,' said the

prince, I know very well, and I rely more

Le Ray took the silver and jewelry,

valued at 400,000 france and after Bonaparts

estimated value was \$85,500. He continued

retired to France, where he died in 1840.

the work of Le Ray on account of his

having built the first comparatively good

road in the county, the old St. Lawrence

river turnpike from Malone westward to

the Black river in Jefferson county. The

roud was opened in 1810 and was for many

years a very important thoroughfare.

Franklin county finds especial interest in

on your word than on my own judgment."

she was unable to cross the ocean to see

fortune of my children to you . . .

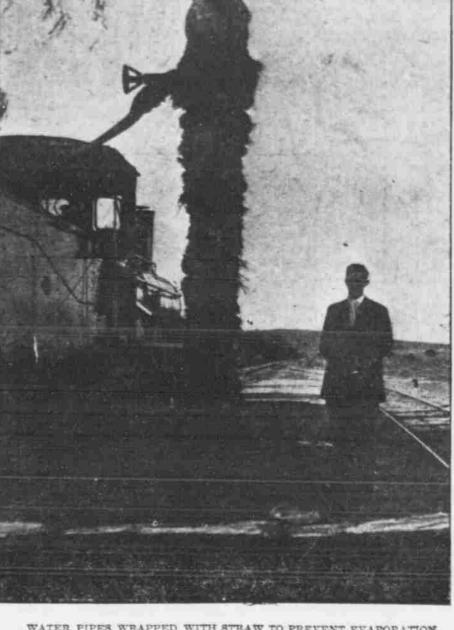
ber property and said:

more noble career than yours."

New York.

in land.

has been written.



WATER PIPES WRAPPED WITH STRAW TO PREVENT EVAPORATION.

Railroads Across the Sahara

More interesting than any of these schemes are those which are planned to connect the rich regions of the Atlas mountains with the Soudan, that great fertile, healthy belt of north central Africa. The Soudan runs clear across the Rockies. It is in this desert that I am now writing. I have ridden for many miles over its rocky wastes of stone and in many parts of it.

The Sahara itself is neither level nor low. It has vast plains where the sand stretches out on every side to the horizon. but there are many places where the country is rolling. There are gorges along the beds of dry rivers, there are mighty bluffs of stone and no end of hills and mountains. I am in sight of the chief range of the Atlas at Biskra, and its hills are dryer than the Sahara itself. I rode for several hundred miles along the range which separates Algeria and Morocco. The sands of the desert go to the foothills and pile up there in great masses, while the slopes above are absolutely bare of vege-

William Constable was in Paris negotiating colonists and thousands were sent from The average level of the Sahara through-During this delay the young Frenchman for the sale of 2000 seres of wild land France, Switzerland, the Netherlands and out is as high as that of the Blue Ridge formed intimate friendships with eminent in what are now Lewis and Jefferson Great Britain. Le Ray knew the needs mountains in Virginia. There are but few places where it drops to 500 feet above the sea, and only one or two in which it fails below sen level. Lake Chad itself is say-As a result those who came were farmers, eral hundred feet above the ocean.

gardeners, laborers, mechanics, millwrights, In the lower part of the central Sahara, tradesmen, priests, physicians and school on the upper edge of which I am now writ-They organized the company of New teachers. Le Ray furnished them with ing, there is a plateau extending from York, known later as the Castorland com- the equipment of civilization and the terri- northwest to southeast, which is on the pany, whose story of high purpose and tory was soon dotted with schools and average more than 2,000 feet high, and upon it there is a mountain range which rises in places to almost 10,000 feet. The building going to and from Europe, ascer- mountains are so high that they are taining the needs of the people and supply- crowned with snow in the winter.

In the western Sahara the country is peans of wealth and influence to purchase almost equally rough, and there is much lands and promote the interests of northern rolling land in the Desert of Libya, at the

For forty years he continued this state

Poor Pince for a Railway.

In addition to its rolling character the desert offers many obstacles to railroad teresting as indicating the personality of building. One is the long stretches over which the track must go without water, and another is the enormous cost of hauling the fuel. At Colomb Bechar, the terto your personal character than to all the minus of the road which the French are building southward toward Timbuktu, coal is now worth 200 a ton; and, unless mines can be found along the line of the route, a cheaper fuel must be obtained or the extension ahandoned. The stations at present are chiefly at the oases; but even there the pipes which supply the water tanks are wrapped with straw to recard evaporation and every means is used to

increase the water supply. The Sahara liself can furnish but little support for a railroad. It is poppered with cases, but the fertile spots are far apart, and it is only in such regions as the Fezsan. Twat and Tafflet, where there are a large number of oases together, that there will be many passengers or much freight, The prince, having invited Mr. L. to The Sahara has, all told, about 80,000 square miles of cases, but these are scattered over a region larger than Europe and many of

> them are inaccessible except to camels. The freight of the desert is chiefly made up of dates, grain and alfa grass. Some tobacco and cotton are raised in the southern Sahara, but not enough to form a freight item, and the sait mines, which now supply a part of the caravan loads, would not make a great truffic.

Soudan is Different.

The Soudan, at the south of the Sahara, is far different. It has an enormous popullation of native blacks. No one knows how many there are, but the probability is that had visited America and had seen the they number between fifty and one huntract he received deeds for lands in Jeffer- dred million souls. There are something son and Lewis counties. Of Joseph Bons- like twenty-five millions in Nigeria alone, parte's life in northern New York much and the French and German provinces contain many millions more. There are big In 1834 Le Ray gave much of his property towns there, such as Kuka and Kano, to the management of his son, Vincent, which are now carsvan centers, and others, and in the schedule accompanying the such as Timbuktu, which were cities once, transfer is the information that 348.26 acres and which would be great again if a railof northern lands were then unsold. Their road could be built to them.

At present the caravan trade is falling off. promote the interests of the colonists. The trains of 1,000 or more camels, guarded. until 1806, when all of his American prop- by soldiers, which used to start across the erty was turned over to his son and he Sahara with perhaps a half million dollars' worth of goods, consisting of lvory, gold dust and slaves, have dwindled to trains containing 100 camels or less, and the curuvan trade diminishes every year. It stilt carries some European merchandise across from Tripolt. Touisia and Algeria to the Soudan, but most of the goods for that

(Continued on Page Four.)

Warm Friend of America in Days of Revolution

R triends of the American cause during the tenant when Paul Jones' famous fleet was revolution. The aid which these two gave purchased and equipped. to this country at that time has been compared with that of Lafayette, but little has been written about them and it remained for Dr. Charles W. Collins, historian of the Franklin County society, to search out their deeds and give them credit for their part in the early bistory of the country and the state. The result of Dr. Collins' work appears in a little magasine called Forest Leaves which is published in connection with the work done for cumsumptives at Sanatorium Gabriels

in the Adirondacks. "Among the great men associated with the early history of Franklin county." he says, Le Ray de Chaumont is surely the most interesting personage. As courtly as William Constable and nearly as learned as Richard Harison, he had the qualities possessed by neither; and his life touched railways of northwestern Alaska, and of the great events of his time, both in Europe and America."

> The man who was known as James D. Le Ray in America was James Donatien He was rich, handsome, of distinguished

> prospects of social and political advancement when the arrival in France of Benjamin Franklin changed the entire course of his life and eventually led him to the wilderness of northern New York.

His father, the count, believed in the doctrine of Rousseau, and when the revoluconnecting the ports with all parts a guest of his household during the eight years of his sojourn in France.

Louis XVI could not receive the comthousand miles of railways, and its rail- missioners without danger of precipitating receipts are between \$6,000,000 and a war with England. The Count de Chau-17,000,000 a year. There is a heavy freight mont as an efficer of the government was traffic, and the second and third class pas- in the same fix, so he resigned his post, senger cars are always well filled. There although he was about to join the French are alsoping coaches at high rates between ministry, and as a private citizen took up Ocan and Algiers, and one can go across the negotiations between the king and Franklin which finally resulted in the French recognition of American inde-

In a letter to Washington in 1879 Franklin mainly confined to the porthern part of said that Chaumont was "the first in the country, although there are some lines France who gave un credit and before the running down the east coast and inland to court showed us any countenance trusted fertilizer deposits which lie there. These us with 1,000 barrels of gunpowder and roads are all French, and the Tunisian gov- from time to time afterward exerted himernment has recently authorized large ap- self to furnish the congress with supplies of various kinds."

solute gifts and more than a half of Chauachieved independence and the new nation Railway travel in northern Africa is far became abundantly able to discharge its

In comparison with us these people are still To all of his father's work the son. James century or so behind the times. Express D. Le Ray, gave his most enthusiastic as-

of the men who did most for the guage and American doctrines from no less adequate appropriation. development of northern New a teacher than Franklin. For months York was James D. Le Ray, a young Le Ray was engaged in providing Frenchman, who, like his father, ciothing and equipment for Lofayette's the Count de Chaumont, was one of the best army and he was his father's first lieu-

> Dr. Collins considers the work of the Chaumonts quite as important as that of Lafayette and he remarks upon the fact that these noble Frenchmen are almost unknown in America, while the name of La fayette is a household word. He finds a parellel in the case of Robert Morris, the great financier of the revolution, who died in poverty, neglected, and of whom not even a biography was written for more than a century. But recent historians are

country to try to arrange a settlement, the saving of his life and fortune.

SCHESTER, N. Y. May 18.—One sistance and he learned the English lan- lowed five years to pass before voting an chase of northern New York lands and Then Le Ray returned to Europe for tation and altogether arid.

verneur Morris and William Constable. Le Ray renounced his title of nobility and alterionce to France, became an American citizen and married an American girl. Miss Grace Coxe of New Jersey. The American citizenship later proved

extremely valuable to him. When he returned to France to put his father's affairs in order he escaped arrest during the French revolution because he was an American, and was also able to keep the family extate from confiscation.

fame, he says, and it may not be a far citizenship proved useful. The Count de and Franklin, and the great work of his cry when the American people will put Chaumont was arrested as a royalist and life began. Count de Chaumont and his son in the first would have been guillotined but for the He established his residence and offices rank among the men who made the re- intervention of his son. The American in Jefferson county, where the homes of envoy's threats were too much even for his agents, surveyors, clerks and servants The American loans caused financial diffi- the half mad revolutionists, and the devo- formed the village of Lerayville From Le Rayculties for the count, and two years after tien to the American cause which the old this center the work of developing the the end of the war he sent his son to this count had shown years before resulted in country progressed rapidly. Explorations Washington. Morris and Franklin urged. At this time Constable, Macomb and and the region was prepared for settle-

the claim, but an indifferent congress al- McCormick had effected their great pur- ment,

and progressive Americans, so his time counties to Pierre Chassunis. Le Bay's of the new country and did not select the brother-in-law, Chassenis and his asso- colonists by chance. clates planned to found cities in America where refugees from the reign of terror

could find peaceful homes. failure is one of the most commantic in the churches, erected largely at his expense. state of New York. After the futile attempts of the Chassanis syndicate to colonize, Governor Morris and Le Ray took charge of the property and Le Ray eventually became principal owner. He also In 1784 Le Ray was special envey of the purchased of Constable vast tracts in the giving to Morris a juster measure of United States to Algiers, and again his present counties of Jefferson, St. Lawrence

were made, roads were built, mills erected



- NOME OF JAMES D LE RAY AT LE RAYVILLE, NY ERECTED IN 1888.