THE ANTIPATHIES OF GREAT PFOPLE.
A writer in Land and Water, through an infliction, was conflined mach to his house, and found grost delight in being surrosaded by domestie peta, Some of his friends took a grest avernios to many of these, and could not be quieled untud they were removed. This neemed so strange to him that he resolved to look up the literature on the subject. In a work on the "Affections and Imaginations of the Mind," M. Cbevraux, a celelirated Presch writer, gives the following intercating facta: "How exceed. ingly whimaical some antipathiee appear! I have knows people faint upon smelliog the delieious fragrasee of a rose, and yet experience pleasure in amelling a jonguil or a hyacinth. A certain governor of one of the frontier towns oosld not bear the aight of fish-apawn, and a lady whom I knew went into convalsions on eeeing a craw-fish. Erasmus, who was a natire of Hotterdam, had so great an aversion to fish that he could not eves smell it withoat being its a fever. If we may eredit Ambrose Pare, is man of nome oelebrity, he says that he could never sit at a table where eels were served up without fainting. Joseph Sealiger tiever drank milk. Carden could not lear enga. Julina Cowar Soaliger had an antipatby to creasen: Uladistas Jagellon, a Polish King, hated apples; and when Du Chene, seurstary to Francis the First, amelt them, they oceasioned his nose to Beed. Henry the Third could not remain in is roon whers there was a cat the satie aversion wan observed is Marahal Khomberg, Governor of Languedee. The Emperor Ferlinand intros. duoed a gentlemas to the Cardiual de Lorraine at lnopruck, whase fear of cats was so powerful that when he beard them toew at a distater blood spurted from his nowe, M. de laucre
says that he knew a guntleman whowe fear of the eaye that he knew a gutleman whowe fear of the
hedgehig was exesesive, and who lelieved that hedgehing was excessive, and who believed that
that animal had actaally loen proying upon hir that animal had actaally loen proying upon his
eatrails fur more than two years Birails for more than two years
Hie aleo relates onother story
of a gentleman whose bravery equally simgolar of a gotleman whose bravery none disputed hot who was so nerveus when a mouse appeared
that he conld not take out his oword to that he conild not take out his owond to deatroy it. M. Vaughneim, the king'shuntaman is Hanover, fainted whenever he saw a rasited pig. The philosopher Chrysippas hated bows so much that when he was saluted he fell down. There are jersons whe caninot tolerate the sight of spiders, and there are those whe eat them for amasement. A frimed of mine, a gentlemas, brave as the best, faisted when vaccinated a
few monthe aga. He oould not mocount for it, he sail, se of course there was no pain, beither dill lie feel any repugnance.
How mp Kzer Coot -On going ones ints the Medieal Naseum in Ediabrarg, oa a sumuser's day, we felt chilly, and on looking at the therit was epresaively it at 65 , while out of doors it was oppresaively warm. Sisty- eight degrese in summer there, is quite cool enough for a sit. that femperatare in mid-winter, a feeling of seffocation, of opprenaireness, cotase over you The Boose of a day whose moraing in fis youl gire over 10 in the sua. If on getting ap is the marning, cvery wisdow and door of "
 alout sen on, sad sre them clowed, shutters and all, it will be marly aight belore the thermome. ter is materially raused, and persone consingome. ever eftee, often exclaim, "how delightfintly eool your office is, haw do you manage it" It warnth is, may we not do the same thing is wammer to keop it out ! -Joursat of floling in
Puospuangeswar-A tsileof "Canton'appos. phorus" or sulphide of osloisen, prepared more thas a century agn is foesd to bo still eapable that the phosphoces. As it is to this sulusatice luminose paints are dues the durability of the latter seven to be thise asesirel.

EVENTFUL HISTORY OF A HEMARK ABLE RAlLROAD.
Mr. Coleman Sellers, Jr., M. F., recently read a paper before the Engineers' Clab of Philadelplia, on the history of the coastruction of the Mexico and Vera Cruz railroad, and illastrated his remarks with numerous photographa and mape obtained during a reonnt trip to the country of the Montecumas. As early as 1837, the project was broached; and from that time until it was finally ppesed in 1573, by Pres. Lerdo, the road suffered at alternation of successes and defests. Daring its progress, 40 different prosidents and one emperor governed our unfortunste neighbor, and each government had, in turn, to be won over to the plans of the friends of this enterpries, and that in spite of a powerful oppowition from varions clases of the community, Not only were these difficulties anrmounted, but those offered by the climate and the natural obstacles of the route were likewise ovorcome, At length after yearn of labor and the expenditure of millions of money, the roal on now an established sucoess, and is to-day one of the grandrat specimena of engineoring the world can shaw. The ruad is 260 miles long; is laid with steel rails; is thoroughly equipped with ewgines and rolling stock; bas fine fron beilges; substantial stone stations, and all tun nels, masonry, ete, are of the beat character. The graden and curves are numerons and excessive. The haghert point of the rosd is $8,200 \mathrm{ft}$. ahove the ma, It asornde 6.500 ft . in 60 miles, anil in one case climhe $2,000 \mathrm{It}$. in 15 miles. The City of Mexico itellf is 7,60 ift alove the level of the sea, or nearly one and a half times an high as Mtt. Washington, The road was built priacipally by English capital, bat is granted a concestion by the Mexican government, which, however, is now much in arrears. All the forgna cotamerce of the mort thickly settled parts of the repahlie pasa over the roas, and the pro. jer development of the country under a stable government would emable the road to do an encrmous liusines The state of the country is shown by the fact that each train carries a
guand of $\$ 0$ soldiers of the Mexican tegial guard of 20 soldiens of the Mexican regular
amy,-E army,-Enginerring and Mining Journal.

Gifrebiss is Difirmbeta-According to Medicin Zeitung, of Vienna, Prof. Clar's success with the use of glycerine in diphtheria admits ont, either in the form prescribes a gentle aperifow grains of calanel of a mana draft, or of a fow grains of calamel, which last he holds to be properly used of ungistic remedy, and when he directs cold of great value, Coincidentally and heal, of even to the cheat, carsfotly neek rated acconding to the cheat, carefally renoof the temperatore, elevation or depression the same time given as a drink, and then commencrs at once the use of iron-glyocrite, which and 20 drop of the of anhydrous glycerine tros. Of this misture, half a tivi-chloride of given every half hour throus a teaspoonful in night. As noon an the symutout the day and mitigated, the quantity is ciminiahed to to be sponful every wecobd hour, cominiahed to a teatweliate period, a mixture composed of glycerine wo ousces, borax two grains, is nimilarly given ly a teasponefal at a time. The iron.glyceriae gradually replaced by the loras. periods, and is

Fhos relialle sorrees of information it in esti. United states thimigration from Earope to the does sot exceed, 400,000 in rumproximate, if it making by far the greatest inter of persons, ortantry has ever had in a sint immigration the migration is largely composed of year. The imonue with thesass to sopquire suall farmes who cheap lande are to to optained! farms where start directly for the Weat and s and nearly all landing. It is estitnated that thesthweat after will loring not less than $\$ 25,000,000$ of actant mosey with them into the country thin acearon

## WHY THE NEEDLE POINTS NORTHERLY DIREOTION.

Prof. Patterson, Superintendent of the United States Coast Survey, writes as follows in an. swer to an inquiry by a gentleman as to the reason why the needle points in a northerly direction:
Dear Sm:-Your note is duly received, and in answer I beg to ntate that the reason why the needle points in the northerly direction is that the earth in itself is a magnet, attracting the magnetic needle as the ordinary magueta do; and the earth is a magnet as the result of cortain cosmical facta; much affected by the action of the sun. These laws have periodicities, all of which have not as yet been determined.
The inherent and ultimate reason of the exintence of any fact in nature, as gravity, light, heat, etc, is not known further than that it is in harmony with all facts in nature. Even an oarthquake is in perfect harmony with, and the direct resultant of the action of forces acting inder general laws.
A condensed explanation in regard to the needle pointing to the northward and southward is as follows: The magnetic poles of the earth The axis of rotation makes geographical poles. The axis of rotation makes an angle of about 23; with a line joining the former.
The northern magnetic pole is at present near the Arctic circle, on the meridian of Omaha. Hence the needle does not everywhere point to the astronomical north, and is constantly varia. ble within certain limits. At San Franciseo it points about $17^{\circ}$ to the east of north, and at At Maine, as much to the west.
At the northern magnetic pole a balanced needle points with its north end downwards in a plamb line. At San Francinco it dipa about 63, and at the southern magnetic pole the mouth end points directly down.
The action of the earth upon a magnetio needle at its surface is of about the same force as that of a hard steel magnet, 40 inchea long, atrongly magnetized, at a distance of one foot.
The foregoing is the accepted explanation of the fact that the needle points to the northward and nouthward. Of course no ultimate reason can be given for this natural fact any more than for any other observed fact in the nature.
C. T. Patterson,

Supt, U. S. Coast Survey,
Distrinution of Atmospheric Prersure -
T. de Bort call attentinn Iw I. de Bort calla attention to the fact that in two columns of air, which have the name pressure at the surface of the ground, if the temperatures are different the decrease of pressure in column. Hence results a tendency of tharmer pans from the warmer to tendency of the air to pass from the warmer to the colder column, accompanied by a falling barometer in the former and a rixing barometer in the latter. The effects of difference of temperature being generally opponite to those of barometer preasure, the trana. er of air may be effectod in the upper atmos. phere, even when the pressure is lower at the winter, augment the energy of the currenta, in Winter, augment the energy of the atmoapheric
disturbances by increasing disturbances by increasing the opposition which aceanic exints between the continental and oceanic temperatures.- Oomptes Rendus.

Nkw Method or Repinisia Iron.-It is reported that Mr. Krupp, of Easen fame, has obtained a patent for refining pig by means of iron with basic brieks in takes place in a cupola lined it is claimed, the in graphite. By this method, phar and phed, the greater part of the silicon, sulphur and phoaphorus are removed, without at all interfering with the carbon.
A Lagir Locomorivg-H. K. Porter \& Co., which in aaid to have completed a locomotive which in said to be the lightest ever made for actual service. The cylinders are but aix inchem track, from the in to haul ore, on a 20 -inch of Arizona, Ita capacity on a level traw \& Co., tons, Ita capacity on a level track is 150

