EVERY DAY SCIENCE

ful, but Likely to Be.

THE USEFULNESS OF ASBESTOS.

Statistics Upon the Cost of Running the

Big Ocean Steamers.

PREPARED FOR THE DISPATCH. ]

The results obtained by the use of smoke-

ess powder have not been altogether satis-

factory. Sir Frederick Abel, however,

points out, in his address before the British Association, that recent military displays in

Germany have afforded valuable indications

of the actual change which is likely to be

tions under which engagements on land will

man powder is not actually smokeless, the

independent rifle firing is not visible at a

rapid salve firing by a large number of men

does not have the effect of obscuring them

When machine guns and field artillery

are fired with the almost absolutely smoke-

less powder now being used in England

their position is not readily revealed to dis-

taut observers by the momentary vivid flash

of flame and slight cloud of dust produced.

The further development of the new varie-ties of explosive agents appears to promise a

very important advance in the art of artil-lery, but there are formidable practical difficulties to be overcome before this prom-

Asbest ...

part in certain industries. In workshops

foundries and mills it is used to guard the

face and hands of the workman from fierce

heat, and generally to make working in hot metals a safer and more comfortable occu-

pation. Ashestos mittens enable firemen.

assayers, refiners, etc., to grasp hot trons, crucibles and the like with impunity. Fire-

proof masks for the face are also made of asbestos, and the heat from the hottest fire is

said not to penetrate them. Air is drawn from beneath the mask for breathing, so that

the burned or flame and smoke-laden atmos-phere is not inhaled. Complete suits are

Although for a long time the extent of the fire on one side of the curtain was so great

that the asbestos curtain must have been red hot, it remained intact, and the stage was

Insect Interference With Railways.

Well authenticated stories of trains being

topped by grasshoppers have often been

told, and not long since the passengers were

driven from a train by Junebugs. A new

aggressive element is now recorded in the

shape of a swarm of bees. The offenders

in this case came buzzing out from a neigh-boring farm and slighted on the tender be-hind the engine of a freight train, as it

stopped at a station to take water. The en-

gineer and his assistant promptly made tracks for the waiting room of the station,

out the fireman, who was busy shifting coal,

was in an instant covered with the insects. Half mad with pain he jumped off the tender and rolled in the grass at the road-

side. Presently the time for starting the

train arrived, but the bees held the fort, and

idea, however, struck the engineer, and quietly securing possession of the adjustable hose with which the engineers are secus-

tomed to clean up their cabs, he got the drop

on the bees and turned on them a steady stream of cold water. The effect was mag-

ical, the entire swarm took to their wings

Running Enropenn Steamers.

Reliable data concerning the cost of run-

ning the fast European steamers have hith-

erto been difficult to obtain. Some statistics

of the voyage of the Normannia, the magnifi-

cent addition to the Hamburg-American

line, have been collected, and as the figures

apply practically to a run of the City of

Paris from New York to Liverpool, they

are interesting. When the Normannia starts on an Eastward voyage she carries nearly 3,000 tons of coal in her bunkers, and it costs about \$3 50 per ton. The stokers daily shovel into her furnaces between 250

and 300 tons. The expenditure for coal ap-

voyage. All expenses included, it may be said that one trip of the Normannia costs its owners not less than \$25,000. The re-

ceipts from all classes of passengers on a good midsummer trip are over \$50,000. Usu-

ally the Normannia carries 800 tons o

freight, which, at the transportation rate of

Conl Washing.

has dealt with 500 tons by the wet process.

driven by a 100-horse power steam engine, and the water used in the process of wash-ing is circulated by means of a powerful

re of very dirty hard and soft smudge.

The coke produced is of uniform quality,

and the ash in the coke is kept steadily be-

small peat, suitable for fuel, is produced by the washer.

Animals in War.

and London by means of carrier pigeons.

It is quite probable that the excellent re-

pigeons at the Italian naval maneuvers

have induced this step. Of the 105 pigeons

use dogs as auxiliary sentinels. The nat-

ural ferocity of these dogs, which is con-siderable, is increased by the way in which they are trained. The animals are tied up

and natives are engaged to beat them and otherwise ill use them. The duty of the

French soldier, on the other hand, is to feed

and pet them. The consequence is that at night when they are fastened to a sentry box

they naturally give the alarm directly an Annamite or a Tonquinois approaches.

Supply of Natural Gas.

Prof. McGee, of the United States Geo

a long time yet, but it will surely fail."

It is proposed to make arrangements dur-

A coal washing plant has been erected at

about \$10 a ton, amounts to \$8,000.

proximates \$1,000 a day, or \$8,000 for the

and left the train to resume its journey.

sayed and the stage stock was uninjured.

Asbestos has come to play an important

from distant observers.

ise can be fulfilled.

should be mailed to reach THE DISPATCH not

Jr. O. U. A. M.

A delegation of Juniors will be in the city from Wheeling to-day.

J. B. Kepple, Councilor of Slate Lick Council, visited Acme Council on Thursday evening.

At the last meeting of Samuel Harper Council No. 503, National Representative Peck presented a flag and T. F. Ashrord a Bible.

There are 24 counties in Pennsylvania with-

W. T. Kerr and J. K. Emge visited Greens-

burg Council this week, and talked on the change of name for the boys up there. The in-dications are that the Juniors of Greensburg will give a majority for the new name.

At the last meeting of the State Council of the Sr. O. U. A. M. of Ohio, the representa-tives to the National Council were instructed to advocate a change of name to "Order United Americans," the same that the Juniors are fighting for.

Order of Solon.

Chartiers Lodge, No. 8, received several ap-

Supreme Vice President C. L. McMillen at-

tended the meeting of Manifold Lodge of Parkers, Pa., on Tuesday evening. Brother McMillen will establish lodges of Solon at Em-lenton, Ebensburg, Dubois and Brookville.

Supreme officers B. F. Beatty, C. L. McMillen and Frank Y. Over organized Sterling Loige Tuesday evening, at the residence of Mr. and Mrs. W. J. Sterling, Bedford avenue. This lodge has a charter list of 25 members, who are an euthusiastic lot of workers. They have bright presents any injuries a large

who are an entitle with a large membership, and in the near future will make a strong bid for first honors.

J. L. Gause was among the initiates of Du-quesne Lodge No. 15 Tuesday evening. Brother Gause was for a number of years connected with the Woodman's Mortuary Association of the West. He shows marked ability, and is an enthusiast on the plan of mutual co-operative beneficial orders. He has received a commis-sion as deputy organizer, enlisted in the cause

Select Knights of America

Rumor has it that a new legion is about to e started in Manchester.

Liberty Legion No. 20 comprises hard, earnest workers, and when it comes down to a jolly, sociable crowd they are hard to beat,

Grand Commander Kirker reports a fine charter list about ready at Sewickley, com-prising some of the best element in the valley.

Past Grand Commander Bowen has the sym-pathy of the entire order. The physicians make a very discouraging report to him con-cerning his wite's illness. They have no hopes

cerning his wife's indess. They have no nopes of her recovery.

Colonel C. V. Lewis has succeeded in securing half rates for the round trip to Evans City and return Wednesday evening next. The train leaves at 5:30 P. M. Councils will report at Pittsburg and Western depot at 5 sharp.

Since their return from the lakes of Mich-gan the members of Believue Legion No. 31 are keeping as mum as an oyster. It is said there are some good jokes among them, but no one appears anxious to start the ball rolling.

lassified under this heading.

## A REVIEW OF SPORTS.

Some Remarks About the Proposed New Rule Regarding the Amateur Athletes.

STANDARD DEFINITIONS GIVEN.

Comment on the Recent Battle Between Jimmy Carroll and Andy Bowen-Myers Compared With Them.

OPINIONS ON BASEBALL MATTERS.

Possibilities of the Proposed Buyung Out of the Cincinnati Club

If the appropriements and declarations of various officials in amateur athletic organizations and prominent patrons of amateur sports are true we are to have more stringent rules regarding amateurs than we now have. The Amsteur Athletic Union will meet at Washington on October 11 and the question of still more rigidly defining amateurism than it is now will be discussed. In other words there is a very strong desire to "draw the lines" tighter on amateur and mark out more distinctly the dividing point between an amateur and a professional. During the week the question has been extensively discussed, and I may add that the action of battle from the start, and although it lasted certain athletic clubs in "keeping" certain 21 rounds I am persuaded that it would eyelists for certain events has been the have ended sooner had gloves less in weight cause of the determination to knock all the than five ounces been used. It was, howprofessionalism out of amateur sports. This ever, one of those game and plucky conis a very important matter to patrons of tests that anybody who admires pluck can sports, because I don't know of a period in American history when the "sporting craze" was greater than at present. Without doubt there is a larger following of sports and pastings in the United States to day than pastimes in the United States to-day than there has been in the history of the country. And that desire to indulge in sport is growing rapidly still. In every city clubs are beaten I do admire the little fellow because being formed and annual contests and field days arranged. This goes to show that no question of a sporting kind could be of more interest than the one I have just referred to above. But the question is not only interesting because it relates. tion is not only interesting because it relates to narrowing the limits of amateurism, but hausted nature had to yield. He was it is also significant because it prompts an inquiry into the question of what certain amateurs have been and are doing now. It also will cause many people to read up the floor only because he hadn't strength to realso will cause many people to read up the standing definition of an amateur. To deal with the matter at present cannot be other than interesting to a large number of readers in and about Pittsburg. An athletic club of unusual size has been organized here, and, if I am rightly informed. ore than one amateur rowing club will be formed next year This being so, it will be well that every member of these organiza-tions know what they can and what they cannot do as amateurs; in short, it will be to their advantage and to the advantage of the clubs if each can read his title clear to the ranks of amateurs. well that every member of these organiza-

Some Facts Worth Knowing. I am fully persuaded that there has for

very long time been some very erroneous impressions affoat in and about Pittsburg regarding what an amateur is. Every day, in fact, we read of "amateur" baseball clubs and individual players contesting for stakes and playing for salaries. At various sports recently contests have been on the programme inducing amateurs and professionals alike to compete together, and really the idea seemed to prevail among the pro-moters of these sports that there would be no harm in such contesting. It will be a pity if any amateur is led astray by any such trap or red-herring trail. Depend upon it, matters have come to such a pass less affair between McAuliffe and Myers the "almighty dollar" is the only object of no harm in such contesting. It will be a pity if any amateur is led astray by any such trap or red-herring trail. Depend that the term "amsteur" will in future very safely guarded, and it will be well for those who are connected with the new local organizations to be very careful as to what they do in the way of competing for prizes. So that we can proceed in this matter intelligently, I give two definitions of an amateur athlete. The first is that of the National Association of Amateur Athletes of America. It is as follows:
"An amateur is any person who has never

competed in an open competition, or for money, or under a talse name; or with a protest with large gloves is uncertain. I would, however like to see an encounter between Carroll and Jim Carney. They are of the same style of fighting, and a contest fessional for a prize, or where gate money is charged, nor has ever at any time taught, pursued or assisted at athletic exercises for money or for any valuable consideration But nothing in the definition shall be construed to prohibit the competition between amateurs for medals, cups or other prizes than money.

the definition of the Amsteur Athletic Union of the United States. "One who has not entered in an open competition. or for either a stake, public admission money or entrance; or under fictitious names, or has not competed with or against a pro essional for any prize or where admission is charged, or has not instructed, pur-sned or assisted in the pursuit of athletic ex-ercises as a means of livelihood or for gain or emolument; or whose membership of any athletic club of any kind, was not brought about or does not continue, because of any mutual understanding, express or implied, whereby his becoming or continuing a membenefit to him whatever, diret or indiret, and who shall in other and all respects conform to the rules and regulations of this or-

About the Definitions.

Now nobody can reasonably contend that the above definitions are not very rigid. In reading them it is easy to see that the desire of the framers has been to keep amateurism as pure as it ought to be, and I do contend that it cannot be kept too pure, because I am one who has always firmly believed that Persons who write in this strain a perpetuation of those healthy exercises of life and wholesome out-door sports almost entirely depends on the amateurs and the latter depend on their honesty of purpose and honorable conduct. That is passing, however, about the definitions. Well, they are pretty rigid, and still they have been violated for years, and, I don't besitate to say, they are being grossly violated now both in this country and in England; for the English definition is just as rigid as the deal at the Ormonde Club than Carney got American. For a long time it has been known that certain r embers were being "kept" by certain clubs. This has been "kept" by certain clubs. This has been particularly so among the bicycle organizations. We also know that not only have clubs "kept" star members, but that other members have lived on the business of bieveling. This has been a notorious fact for a long time. In other cases members of clubs have received considerably more than win, although, as I have always contended, Slavin is a better man than many people think he is. But Mr. Temple, proprietor of the club, will be the winner. He will clear their railroad fare for competing in contests. A prominent member of the Berkeley Athletic Club is quoted as saving: "Why, I know of at least one case where a member of the New York Athletic Club's cycling brigade receives a weekly allowance in the form of 'training expenses.' That means a handsome salary. Not alone in this, but in several other ways, are these men paid. Some of them, who ostensibly hold posi-tions in mercautile houses, have substitutes put in their places while they are out of town racing. These substitutes are paid by the club. Theater tickets, hotel bills, been sold indiscriminately, and goodness only knows who will and who will not be in the place. If all comes off weil the winner will reap a good harvest in the show business. Should McAuliffe win it will be worth thousands of dollars to him, independent of the work. suits, wheels, and the entire expenses of these men are, in a majority of paid by the organization which they repre-sent. It was clear 'fat' while it lasted, but I think the mine has been about worked." If this be true, and I believe it is, then amuteurism is a fraud. If it is within the province of this question to refer to English amateurism, I would ask what about such amateur cricketers as W. W. Read, Dr. Grace, and others. It is a well known fact that the former has no means of livelihood except his cricket playing. The Surrey Club pays him, I think, \$1,000 per year for being leading middle-weights contest, as there are

what is called assistant secretary to the club, but we all know what that means. I so many of them, and they are all good and popular men.

mention this to show that there is an inter-

to be an amateur let him be a professional, but by no means let him act and compete as

forbids an amateur from competing with or against professionals. I have often won-

ful. There may be a "chiel amang ye takin' notes." I also fear that if a thorough

investigation were made we would find com-paratively few bona fide amateurs among

our leading performers here. Were I an amateur I certainly would not take part in

any contest that was not gaurded in the

most rigid way against what may be called amateur frauds. Young athletes who are in

the sport because of their love for it cannot

Carroll and Bowen.

grumble about the battle between Jimmy

Carroll and Andy Bowen, which took place

Bowen's. Carroll is an older general than the youth of New Orleans, but he certainly

be a victory for him. He is a beaten man, and if he can meet Carroll in a contest with

large gloves and get \$500 if he loses, he is

very wise to try and get it. He, of course, has a chance to win, as many things are likely to happen in a prize fight that no-body expects. Certainly if all were well I don't think he could make as good a stand

against Carroll as Bowen did, but a con

between them under London prize ring rules would be very interesting. I have a notion that the pair will get together before

long; indeed, if Carney would venture to

this country again, they would have a bat-

on the result An outcome of the Carroll and Bowen fight is the offer of the New Or-

leans Club to give \$8,000 for a fight between Fitzsimmons and Jack Dempsey. This is an offer that Dempsey cannot refuse if he wants to fight at all, but I am inclined to

think that he has better things in store.

Dempsey is not anxious to meet the wonder from the Antipodes. Fitzsimmons is eager for the battle and the delay is all on account

of Dempsey. It seems to me that the days of the "three Jacks" are fast waning. Jack

Sullivan is now an actor, Jack Dempsey is

not anxious to fight any more and Jack Mo-

Slavis and McAuliffc.

During the week the veriest nonsense has

between Slavin and McAuliffe. Americans

have been led to understand that all kinds

of fearful things are in store for McAuliffe

if he is likely to defeat the Australian.

good a following in London as Slavin has here. Why does anybody

expect that the Smith party will be on the

also on the McAuliffe side. But there

seems to be a persistent desire on the part of

some people to paint everything and every-body English in the very blackest terms.

in this country when he fought Jack Mc-Auliffe. But I am inclined to think that

stood that the battle will take place to-mor-

row evening. This is nearly two weeks be-

informed that both men are in excellent condition. I still think McAuliffe will

much more than the purse is worth, but I don't think the club will be permanently benefited by the affair. The club is not

first class by any means, as it is com-

posed of some very questionable book-makers and other kinds of sporting

men. But still I think that the club will be desirous of conducting this

affair in an honorable and fair way. If this

battle is inter:ered with by a mob it will be

the end of the club. True, tickets have

pendent of the purse. He is a stranger in England, and it he were to defeat Slavin

every music hall in the country would want him. It is also probable that if the battle

goes off all right there will not be any more

fore the date originally selected, but we are

Patrons of the fistic art cannot very well

be too careful.

national tendency among organizations to pay amateurs and to pay them in a way that will evade the law. Most certainly I am arguing against a man being paid for his work, but if a man declares himself under a rule that prohibits pay then let him live up to it. If he is not wealthy enough to be an amateur let him he a manufacture. Baseball Affairs Baseball teams are continuing to plod their weary and respective ways to the end of the season, and as the end gets very near rumors as usual become more and more prolific. As far as Pittsburg is concerned I don't think we'll be any behind hand in producing rumors; indeed, already I have an amateur while he is receiving more money in return than a professional. There is another feature in the above definitions worthy of note. I refer to that part which had a very long list given to me. A few days ago a very intimate friend of mine interested in baseball affairs told me that he knew it for a fact that scarcely a player at present in the local P. L. team would remain in it if Mr. Hadlon was retained as manager. Another friend walked a considerable distance to let me know that Beckley, Staley, Carroll and Maul had all declared against professionals. I have often wondered why this does not include cricket and
baseball playing. In these sports
amateurs are allowed to play side
by side with or compete
face to face against professionals, and the
great object certainly is a prize—it is gate receipts. Why not the same rule in a regatta
or other athletic sports? However, I am
inclined to think that anotanging will be to friends that they were tired of the Players' League. These are samples of the rumors that one daily hears. But as soon as one begins to try and get a tangible hold of them they will-o'-the-wisp like, vanish. Doubtless many players will inclined to think that amateurism will be more safely guarded in future than it has been in the past, and this belief prompts me to suggest to local amateurs to be very carenow and again give utterances to complaints and discontent just as mon-archs on thrones do. But certainly these grumblings do not always mean an beolute abdication or change of employers. How-ever, I am ready to believe that there will be many changes during the winter, and I won't be surprised if there is considerable remodeling in the Players' League. It needs it, and that fact will prompt many ball players now in it to think carefully about the future. The days of charity in the Players' League are about over, and next season the players who do not fill the bill will have to make room for others. The new League must get solidly down to husiness principles, and when that is done there will be no reason, moral or otherwise, to expect a ball player to refuse the highest offer for his services. I fail to see how life will be any better for a player in the Player's League at \$2,500 per senson than in the National League at \$3,000, or vice versa. If it is a matter of business for the capitalists of the

> thorough going business principles, most assuredly it is a matter of business for players to take legitimate advantage of the stuation. That is common sense, and it only shows that all the sentimentality that was imported into the new organization at the commencement was very, very empty. I remarked this at the time, and predicted that solid business principles must be resorted to sooner or later. Well, then when players know that they are no more secure in one organization than in another we shall not only continually hear of players going to leave one and join another, but we shall be told of their actually doing so frequently. In short, as long as there is a conflict there will more or less be chaos. Nothing will be secure, and I trust the public will have none of it.

P. L. to govern their organization on

The Cincinnati Deal. Whether or not the Players' League will ommence next season with a Cincinnati to make such a good stand. The large gloves, no doubt saved Bowen from being club in its ranks I know not, but I do know, and have known for several days, that the settled sooner, as Carroll's hitting was much stronger and more frequent than P. L. was trying to buy that club out. If such a consummation can be reached the P. L. will have achieved a very great stroke of policy, as it will place the National League in dire difficulties in the western part of its circuit. I have also been told by a gentle-man who is "in the know" that if the Cincinnati deal is perfected Buffalo will be dropped from the P. L. Of course this is stands best. Although it is not a safe guide it may be interesting to make a few comparisons. We can all remember the contest between Myer and McAuliffe, which what common sense would dictate under the circumstances. If the Cincinnati club is sold body and soul to the P. L. there wil undoubtedly be a strong wail in N. L. quarters, Certainly the N. L. magnates ended in a dra: after the men had been in the ring a long time. But Bowen would not expect such a deal, but if we look peen in the ring a long time. But Bowen appears and defeats Myer, and now Carroll comes and defeats Bowen. Certainly McAuliffe defeated Carroll, but it was one of the most fortunate events in McAuliffe's caat the matter closely we'll not find much to be surprised at. I have always contended that Cincinna . joined the N. L. under questionable circumstances on the part of the League Of course President Stern took reer, because be certainly had much the worst of the battle. But the Carroli-Bowen the step thinking it a good business venture. It has not been so. Well, the League, recontest convinces me more than contest convinces me more than ever that the affair between Mc-Auliffe and Myer was a farce. Mc-Auliffe made a remarkable fight against gardless of the consequences that might be-fall the American Association, encouraged Cincinnati to jump, and certainly when a club is secured in that fashion nobody can se ball nowadays. This being so, let course Myers has challenged Carroll to not be surprised at anything because all fight, and why shouldn't he. Defeat will kinds of moves will be made to secure that object. It seems to me that if the Players' League gets Cincinnati there will be less chance of a compromise than ever, because for the Players' League to desire freindship with the National League after that, would be asking the good of a man after you had broken his nose. But I still maintain that a compromise can be effected satisfactory to

both parties. The time is past for standing on one's dignity and imagined prestige.

The Trotting Season. The trotting season is fast drawing to a close and it will go on record as a very remarkable one in many respects. It has introduced a very large number of young horses and good ones. During the season this country again, they would have a bat-tile certainly. It is a hard ques-tion to decide whether Carney is better than Carroll or the latter the superior of Carney. Should they ever fight there will be lots of money speculated we have discovered two very significent facts, viz.: that the sport is more popular than ever and that the equality of American bred trotters is improving. One very interesting feature has been the double team performance of Mr. Hamlin's Belle Hamlin and Gastina. Mr. Hamlin has driven the pair himself and I should think he is 70 years old. The timers at Philadelphia claim that on Friday the team went a mile in 2:1514, and some spectators claim it was a second slower. I expect the judges' and timers' opinion will go, however. The performance was a great one One thing I would like to see ere the season closes. I would like to see a race between Nancy Hanks and Sunol. Should they contest against each other the race would b a great one. PRINGLE.

Worth Remembering. The historical old Block House, situated half a square from the Exposition, comes in for its share of honor this year. By show-ing its stars, it tells how liberty was gained. been published about the proposed battle Another noted house, at the corner of Cecil alley and Liberty st., the site, which was originally owned by the first white settlers, it being given the Cecils by King James for giving immediate news of the death of Queen Elizabeth. This is the Half Century House of John McCullough, 523 Liberty st., the forget that McAuliffe has just as name being gained by carrying stock which is actually that age, and all the stock is known to be pure, as the firm cling to the known to be pure, as the firm ching to the old adage: "When buying, buy something." This gives all the opportunity of obtaining pure liquors at reasonable prices. Give the firm a call, and we are satisfied you will side of Slavin? The Sporting Life party is spend a pleasant time while visiting the Half Century House, one of the most inter-esting places outside of the Exposition. Strangers, before leaving the city, be sure and visit the Half Century House, 523

VISITORS to the Exposition should not fail to see the display of diamonds, watches, jewelry and silverware, at Henry Terhey-den's Jewelry House, 530 Smithfield st.

The World Renowned Chickering Plane. Henricks Music Co., Lim., 79 Fifth ave., are the sole agents here for the world renowned Chickering, also the celebrate Wheelock and the famous Sturvesant pianos. Prices reasonable and terms easy

Don't Forget The excursion to-day on the Mayflower Boat leaves at 2 P. M. Fare 25c.

Ningara Falls and Return, \$4 75. Toronto, Canada, and return, \$5 75; Via Allegheny Valley Railroad, Tuesday, September 23, Tickets good five days return ing. Train leaves Union station at 8:30

logical Survey, says, with regard to the sup-ply of natural gas: "It will fail; it may be BARGAINS in our housekeeping depart-ment this week. See the value we offer in towels at 61/c, 10c and 121/c each. This opinion appears to be very suggestively TTSSU HUGUS & HACKE. This opinion appears to be very suggestively put. All wells that have been heavily drawn upon or a period of three or four years have gradually diminished in pressure. Some have become useless. Others have been almost wholly exhausted, but after being securely closed, they have recuperated to such an extent that it looks as if the sup-

Exposition Visitors Do not fail to call at Lies' popular gallery, 10 and 12 Sixth street, and have your picture taken. Good work, low prices, prompt de-livery. Cabinet photos \$1 per dozen.

Smokeless Powder Not Yet Success-

Feather Factories

chamber. The feathers are cleansed by being placed in a large steam-heated boiler, into which steam is projected and made to cleanse every particle of dirt from the feathers. Long before they have time to be wet through by the steam dry air is injected from one side, while suction currents draw off every particle of dust or dirt loosened by the steam

Keeping Walls Dry.

phere is not inhaled. Complete suits are made of asbestos fireproof cloth, principally for the use of firemen, and, for domestic use, sadiron holders, which enable the iron to be grasped with comfort, no matter how hot it is, are another example of the uses to which asbestos may be put. Asbestos curtains are now being introduced in theaters, and the utility of the material for this purpose was recently put to a severe test in Manchester, England, where a large theater took fire. Although for a long time the extent of the Comparatively little is known of the qicksilver production of this and other countries. During the year 1889 there were 26,464 flasks, or 2,024,496 pounds of quicksilver produced in California. About 20 flasks less than \$1,000 in value were produced in Oregon. There are 11 productive mines in California, with 36 furnaces. The productive mines and active furnaces em-ployed 937 operatives, of whom 416 were engaged on surface work and 521 were em-ployed under ground. The number of tons of cinnabar ore mined in producing the quicksilver was 95,714 tons. The average cost of producing a flask of quicksilver was \$33.31. The total capital invested in the active establishments in this country is stated at \$1,331,114, of which \$680,470 is in mines and real estate, \$222,300 in furnaces, houses and other surface improvements and \$124,075 in quicksilver unsold. The production of quicksilver throughout the world for the past ten years is 1,093,611 flasks, of which the United States produced 407,675, as against 685,936 produced by Spain, Austria and Italy.

An ingenious contrivance for indicating the speed of railway trains has been invenby a Frenchman. The apparatus consists of a cord connected with an arm carrying a stylus which marks the vibrations upon a piece of paper covering a revolving cylinder. The cord, when put in play, gives a normal musical note. The speed of the train is de-termined by the number of vibrations indicated, which, as the number of vibrations per second given by the musical note is known, can readily be ascertained. The more rapidly the train travels the smaller will be the number of vibrations traced on the evlinder. Convenient tables are prepared showing to the practical observer the exact relation the readings have to the speed.

Demand for Intelligent Machinists. A leading iron journal states that improvements in the new navy are bringing young men to the front in all departments, not the least of which is steam engineering. In the modern ships, in addition to the great triple expansion main engines, with all their complicated parts, there are dynamos, blowers, steam steerers, and auxiliary engines of all kinds and sizes, scattered in widely separated parts of the vessel, and with the small number of engineers carried, a large and intelligent force of machinists i pressing necessity.

The Extension of Hellography.

with a well-managed heliograph line is afforded by the operations that have been carried on during the past summer over the a colliery in Yorkshire, England. The line from Fort Stanton in Mexico to Whipplant has a capacity of 400 tons per day, but ple Barracks in Arizona. The line is 1,000 piles long and connects 25 stations, some of The system adopted is carefully sizing the smudge, and automically washing and rewashing it after crushing the various sizes. The plant is which are 45 miles from each other. It is now conclusively proved that the signals from a four-inch mirror can be distinctly read at a distance of 95 miles.

An important innovation has been incentrifugal pump, which, when in full work, circulates nearly five tons of water per minute. The object in erecting this plant was to produce a high-class coke out of a mixtroduced in the shape of a machine for preparing molds for easting. The machine is designed to produce a complete mold at one operation, and thus to replace skilled hand labor in making molds from pattern plates. It is claimed that a lad can operate the ma-chine with the assistance of a labarer, and low 4 per cent. Besides the preparation of the smudge for the coke ovens a quantity of is able to ram and mold as many as 1,000 boxes per day.

The Tack Industry.

ing next year's British maneuvers to open regular communication between the fleet sults of the experiments made with carrier three-quarters by all of New England. then let loose, 86 arrived promptly at Pia-cena from Spezzia, 6 with some delay and only 13 were lost. In Tonquin the French MRS. PAUL TESMER, Braddock, Pa.,

suffered eight years from a fleshy growth on the sight or both eyes, until one was nearly blind, when she had them operated upon by Dr. Sadler, 804 Penn avenue, with a cure so perfect that no evidence of the disease re-

solid relief wall paper made.
Tusu W. H. BARKER, 503 Market St.

One of the pleasing features of the Exposition to visitors is a ride on the steamer Nellie Hudson. The boat is crowded daily. and has all the business it can attend to Trips are made every hour to Davis Island

TTSSu FURNITURE packed for storage and ship-ment. HAUGH & KEENAN, 34 Water st.

ply can be so husbanded that exhaustion becomes improbable. The fact that wells can be so managed has led some to conclude that there is continuous generation and that the production is sufficient to supply mod-erate demands indefinitely.

The feather cleaning industry engages several large factories at Mannheim, Germany. The factories are worked by steam, use enormous machinery, and employ hundreds of hands in the preparation of feathers for market. The feathers come in great quantities from Russia, Austria and other INDUSTRY OF PREPARING FEATHERS parts of Europe, as well as parts of Asia, China, especially sending vast quantities, which are invariably in a very dirty condition. The feathers come into the factory in large bales, which are opened near a kind of gin or breaker, which shakes out the feathers and flings them around in a chamber through which a constant current of air is blowing. From this machine they go to another, in which, by means of ventilators, a separation of the short and light feathers from the long and heavy is made. Stage after stage the feathers fly through different wrought by the new explosive in the condimachines, each machine separating the light from the heavier, until the most delicate, flaky snowdown is flung out into a large chamber. The feathers are cleaned by bebe fought in the future. Although the Germost transparent film of smoke produced by distance of about 300 yards, and the most

A valuable method of keeping walls dry is given in a recent issue of the London Architect. It consists in using two washe or solutions for covering the surface of the walls, one composed of castile soap and one of alum and water. The proportions are three-quarters of a pound of soap to one gallon of water, and half a pound of alum to four gallons of water, both substances to be perfectly dissolved in water before being per ectly dissolved in water before being used. The walls should be perfectly clean and dry, and the temperature of the air not above 50° Fabrenheit when the compositions are applied. The first, or soap wash, should be laid on when boiling hot, with a flat brush, taking care to form a froth on the brick work. This wash should remain 24 hours, so as to become dry and hard before the second, or alum wash, is applied, which should be done in the same manner as the first. The temperature of this wash. as the first. The temperature of this wash, when applied, should be 60° or 70° Fahrenheit, and this also should remain 24 hours ore a second coat of the soap wash is put on. These coats are to be applied alternately until the walls are made impervious to water. The alum and soap thus com-bined form an insoluble compound, filling the pores of the masonry and entirely pre-venting the water from entering the walls.

Quickellyer Statistics.

Speed and Musical Tone.

A striking proof of what can be done

Sand-Molding Machine.

Several attempts have been made to establish the tack industry in the South, but they have failed from difficulties in handling the material. This branch of the iron trade is in the hands of New England manufacturers, and is practically confined to Massachusetts. More than two-thirds of the tack business is controlled by that State and fully

According to the decision of Grand Commander Kirker all pages wear knee breeches. It would be a funny sight to witness Grand Senior Page George M. Draper and Grand Junior Page Ben F. Leech clothed in this manner.

The Committee on Ritual have about completed their work and it is in all probability in the hands of the printer at this writing and will be delivered to the legions within the time specified by the Grand Legion, namely 60 days from adjournment.

Grand Commander Kirker will visit Humboldt Legion No. 17 on Tuesday evening next and cordially invites all comrades who can to accompany him ubon this occasion. They will report to him at P. Ft. W. & C. depot, Allegheny, at 7:30 P. M. sharp. Japanese Paper Haugings,

I have now in stock a large selection of new Japanese papers. They are the most durable and produce the best effect of any

All members of the committee on the annual reception of the First Regiment Select Knights of America are urgently requested to be present at the meeting on Tuesday evening next at the Central Hotel, Third avenue and Smithfield street. Field and staff officers will also take notice, HANDSOME silk novelties, the latest craze for sleeves, etc., in black grounds, coloued stripes and figures. HUGUS & HACKE. L O. O. F.

Western Star No. 24 will hold its election of officers for the ensuing term next Wednesday evening, and all brothers of this lodge are requested to be present. Mt. Moriah Lodge held a pound social and latertainment Friday evening as their half, 102

Fourth avenue. It was well attended, and was a decided success, both artistically and financially. Colonel C. V. Lewis was the auctioneer, and disposed of the pound packages to excelent advantage, and the audience departed for home at a reasonable hour, highly pleased with the entire programme. SOCIETIES

The Hentasophs.

A large conclave will be organized at Jean nette about October 1. The Supreme officers have about completed their official visits in district No. 7. Knobley Conclave at Cumberland will have The October roll of honor will show som

Samuel Buxbaum is in charge of the Jeanette at for charter. He has been very successful he material procured as usual is very good. Deputies Shaw, Blythe, Berlin, Cornellus and Jones, of the Allegheny county district, are making their official visits to their respective

Rush, energy, work and a forward movement directed all along the line by the officers fraternal orders. The Heptasophs keep pace with all of them.

If any conclaves do not now make considera-ole gains it is their own fault; fraternal insur-nace is getting better understood daily by the lestrable material. District Deputy M. A. King, of Mt. Pleasant

was in the city during the week and called on the Supreme Archon. He says his condiaves are making a steady progress, and is confident his district will number 300 in the required later than Saturday morning. Reasonable space will be freely given to all organizations The Supreme Archon during the past week was compelled to suspend a conclave for not holding regular meetings. The fine was promptly paid, the conclave reinstated, and the officers and members realized that laws will be strictly enforced.

State Councilor Collins will visit the South-side councils this week. A subordinate guild of Royal Americans, the new order fully described in THE DISSATCH two weeks ago, will be instituted at Mononga-hela City, with over 100 charter members, Sep-tember 23. Bay City Council No. 3, will celebrate its first anniversary on September 30. A new Council was instituted at Homewood, Beaver county, on Tuesday evening.

tember 25.

Pittsburg Lodge No. 2016, of the Ancient Order of Adhesive Mogullions, will be instituted Thursday evening. October 9. The following are the officers elect: Past Master Mogul, J. P. Marshall; Master Mogul, W. G. Nixon; Senior Mogul, J. W. Harcum; Junior Mogul, William Domfeit; Worthy Sune, J. V. Brook; Quill Driver, C. W. Ekey; Inside Snoozer, J. J. Hanna; Outside Snoozer, H. Halley; Cash Grabber, Jos. Peterson; Deputy Grand Master Mogul, Joz. Peterson. There is not much of interest except the vote on the proposed change of name this week. Young American Council, of Philadelphia, will hold a big fair, to be opened October 4. The total contributions to the Washington Monument Fund were swelled this week to \$91 55.

Mogul, Joz. Peterson.

S. A. Smith, Supreme President Order of the Annal Friend, organized Allegheny Lodge on Wednesday evening, September 10, with the following officers: H. T. McCurry, Past President; George A. Murdock, President; George McNemry, Vice President; R. W. McLaughlin, Secretary; William Dilworth, Treasurer; S. A. McCurry, Chaplant; J. W. Young, Marshal; J. H. Sproul, Guard; J. T. McCurry, Sentinel; C. C. Bippus, Medical Examiner; George A. Murdock, H. T. McCurry and George McNemry, Trustees. This lodge will meet Wednesday evening, September 17, at 7:30 o'clock, at the office of G. A. Murdock, No. 10 Federal street, Allegheny, where persons wishing information can get it.

In the Pittsburg and Allegheny district there New York City, with its millions of people, has only one council of Juniors, with a mem-bership of 125. Organizers will be sent there at The flag pole of the Salinesville, O., school house was broken off by lightning on Thursday, but the patriotic Juniors have already erected another one. There are 24 counties in Pennsylvania without any representatives of the order. The
new-name people charge that the order's cumbersome cognomer is responsible for this.

York Council No. 505, of York, Pa., was instituted last Thursday with appropriate ceremonies. In the afternoon a big parade, headed
by Chief Marshal F. S. Girter, took in the
town.

tion can get it.

In the Pittsburg and Allegheny district there are 25 lodges of the Loyal Orange Institution, and all of them are in good working order. New lodges are being planned in Soho, Mc-Keesport, Braddock and other towns. There are four Ladies' Loyal Orange Lodges, and they are all very prosperous. A new one was started in Homestead last week, called the Martha Washington. In the ladies' lodges men are admitted as members and visitors, but the ladies rule the lodges, and are endowed with supreme power. A course of lectures will be delivered in St. James' Church, Penn avenue and Sixteenth street, on Sunday evenings, by the Rev. W. Thompson, to which the members of the order and the public generally are invited. The first lecture will be on Sunday evening, September 21. Subject, "John Wick-liffe." All are welcome.

GOSSIP OF THE GUARDS.

The public meeting to be held next Saturday evening in Lafayette Hall, under the auspices of the Past Councilors' Association, promises to be very interesting. The programme will include speeches by Hon. H. I. Geurley, Rev. M. D. Lichleiter, S. U. Trent, Esq., E. Lindsay Grier and State Councillor Collins. The admission will be free. THE teams of the Second Brigade arrived home from the Mt. Gretna contests yesterday afternoon. Captain Emory Thompson, of the Mr. Lappe, of New Martinsville, W. Va., will soon organize a strong lodge at that place. Fourteenth Regiment, was the only member of the local shooters that won Coleman money, although a number of others made good scores. The boys are enthusiestic over the manner in Medical Examiner Dr. Frank McDonald, ex-amined 13 candidates for Sterling Lodge Tues-The boys are enthusiestic over the manner in which they were treated while away, and state that while the Third Brigade got away with most of the trophies, everything was won on its merits. J. J. Mountjoy, a member of the Sixth Regiment and one of the best shots in the United States, is trying to arrange an international association of teams for the purpose of meeting once a year on Mt. Gretna and other ranges. The scheme bids fair to be a success, and should the association be formed it means the death of the Greedmoor meetings, which have generally been unsatisfactory in the last few years.

A SWEEPSTAKE match is being talked Duquesne Lodge, No. 15, initiated three new members Tuesday evening and received six applications for next meeting. Supreme Treasurer R. J. Godfrey left for Warren, Pa., Saturday. Brother Godfrey will visit Erie, Cleveland and a number of other points in the interests of Solon. The Supreme Executive Committee held a meeting Tuesday, September 16. The Chairmen of various committees presented excellent reports for the past quarter.

A SWEEPSTAKE match is being talked of between Sergeant Pratt, of the Thirteenth Regiment I have done. E. H. Price." Faithful Lodge of Allegheny held its first regular meeting Tuesday evening, and received quite an addition to their charter list initiating several new members and receiving applica-tions for others. Thirteenth Regiment; J. J. Mountjoy, of the Sixth Regiment, and J. J. Huggins, of the Sixth Regiment, and J. J. Huggins, of the Fourteenth Regiment, the conditions to be a purse of \$300 and the distance to be 200 yards, each man to fire 100 shots. All three gentlemen have fine records at the above distance and the match would have taken place at Mt. Gretna last week had Colonel Watres given his sanction. The probabilities are that the contest will be arranged shortly to take place on the range of the Fourteenth Regiment and the boys in the Suave Brigade will back Mr. Huggins strongly.

CAPTAIN JOHN T. DURANG of the Second plications and initiated one at its last meeting. Past Supreme President Geo. F. Naylor is an enthusiastic worker and has a watchful eye on the prosperity of No. 8.

CAPTAIN JOHN T. DURANG, of the Second Regiment, died last Wednesday. Captain Durang was the senior Captain in the National Guard of Pennsylvania, having been first elected to that commission September 3, 1867. His record in the Pennsylvania militia starts in 1844, when he enlisted as a private in one of the Eastern infantry corps. Since that time he has been actively connected with the guard, and was known and respected all over the State.

COLONEL SMITH, of the Eighteenth Regiment, has decided to parade his command on Thanksgiving Day. The regiment has not turned out on this day for several years past, although formerly it was an annual custom of the organization to do so, but for some reason it was stopped. It is expected that the old mem bers will be in line and a good showing made. THE new tinned shells for the Springfield

rifles are now being issued from the State arsenal. The shells are made of brass with a covering of tin and are said to corrode the gun much less than the old shells. Markamen in using them will find that in firing an elevation of 25 yards less should be used than with the brass or copper shells. A COMPARISON of the cost of National Guards to some of the more prominent States

beneficial orders. He has received a commission as deputy organizer, enlisted in the cause of Solon and will no doubt become prominent in the list of deputies.

Warner Lodge No. 12 celebrated its second anniversary Thursday evening. Solon Hall was beautifully decorated, and the large number of members and guests present voted the affair a grand success. Brother Joseph Little presided, and Brother Dr. R. E. Warner made presentation speeches on behalf of the donor of several valuable and useful presenta, Brother S. A Johnson responding in behalf of the longe. The musical and literary part of the programme was highly entertaining, and contributed largely to the enjoyment of the evening. Planta Beatrice.

## General Meade Legion No. 19 has adopted the action of the Grand Legion and gone to work in earnest to strengthen its ranks. New Castle Legion will obligate five new members at its next meeting. Comrade John Clapie reports the legion in fine working order. Central Legion No. 9 will apply at once for reinstatement in the order. This will give gen-eral satisfaction throughout the order, as No. 9 was certainly a fine legion.

Produces a Beautiful Complexion. Whitens a Sallow Skin,

Removes Moth and Liver Spots, Prevents Sunburn and Tan To Travelers it is Indispensable. Keeps the Skin Perfect in Any Climate,

PLANTA BEATRICE, per jar ....

FLESH WORM PASTE.

Skin Refiner and Pimple Remover. Will refine a Coarse, Rough, Porous Skin. A positive cure for Pimples, Eruptions; removes that disagrecable Redness with which so many are afflicted.

FLESH WORM PASTE, per jar ...... .. \$1 50 Our complete line of toilet requisites and manicure goods are absolutely pure, and can be obtained at the following representative druggists. Egger's Pharmacies, 11 Smithfield street,

172 Obio street, 299 Ohio street. Rankin's Pharmacy, corner Penn avenue Markell Brothers, Central Drug Store, 6219 Penn avenue. Drs. S. M. & O. M. Goldburg, 54 Sixth

street. Or of Sole Manufacturers, LONDON TOILET BAZAAR CO., Wholesale Office: 20 East Seventeenth st. 38 and 40 West Twenty-third street, New York.

Treatise on the complexion at above address free, or sent to any address on receipt of 4 cents.

shows the Pennsylvania militia to be run on the cheapest plan. The cost last year was \$55.85 per man, while in New York it was \$36.78, in Connecticut \$45.41. New Jersey \$36.78 and Massachusetts \$37.85. LIEUTENANT W. H. WASSELL, of Company

B. Eighteenth Regiment, lenves for Washington to-morrow. Mr. Wassell is a graduate of West Point and recently held a commission in the Ninth United States Infantry. He is an applicant for reappointment in the regular service. ADJUTANT WILLIAM P. CLARKE, of the

Tweith Regiment, has been granted a seven months' leave of absence, and Captain William B. Balay, of the same regiment, has been discharged by reason of resignation. SERGEANT JOHN HENRY, of Company C,

Eighteenth Regiment, was elected Second Licutenant of the company last Tuesday even-ing. E. J. Lance, the opposing candidate, was defeated by a small majority. COMPANY drills were resumed in the Four

teenth Regiment last week and the attend-ances, as a rule, were good. In the Eighteenth Regiment most of the companies have com-menced for the winter. COMPANY H, of the Eighteenth Regiment will be inspected by its Commander, Captain R. W. A. Simmons, on Tuesday evening. October 2, in the regimental armory. Diamond street. LIEUTENANT W. H. BEAN, of the regular

service, who is on an inspection detail in this State, spent a few days in the city last week. Beaver County Fair Excursion Via the Pennsylvania Lines, Sept. 23 to 26. On September 23, 24, 25 and 26 excursion tickets, good returning until September 27, will be sold via the Pennsylvania Lines at

When baby was sick, we gave her Castoria, When she was a Child, she cried for Castoria, When she became Miss, she clurg to Castori When she had Children she gave them Castori

75 cents from Pittsburg to Beaver, or to

West Rochester (opposite fair grounds).

an9-77-MWFSn

## Catarrh Permanently Cured.

"I am a blacksmith and my trouble began by my working in a draft," said Mr. E. H. Price, a well-known resident of Lawrenceville, who lives on Forty-six-and-a-Half street, and is in the employ of the Sheffler Bridge Company, "I caught a severe cold and from that time my catarrhal symptoms manifested themselves. My head and nose would be so filled with mucus that I was compelled to breathe through my mouth and my nose would often get sore. I had pain over my eyes, dizziness and noises in my ears. The mucus that dropped into my throat



Mr. E. H. Price.

caused me to be almost continually spitting. The disease finally reached my lungs. I felt a weight in my chest as if my lungs were stopped up. My breath became short and finally a violent cough set in, which increased until I coughed day and night. I had eructations of gas from my stomach, and I had a tired feeling, but more so on getting up in the morning As I read in the papers statements from patients who had been cured by the catarrh specialists at 323 Penn avenue of conditions similar to mine I took a course of their treatment and became completely cured. It is now some time since I took their medicine and my cure has remained permanent. I shall be glad

THE PRESCRIBING

And treatment of all patients at the Catarrh and Dyspepsia Institute is, and always has been, under the direct charge of skilled specialists, who are regular graduates and registered at the Prothonotary's office, as anyone will find by inquiring. They are permanently located at 323 Penn avenue, near Fourth street, and will continue to treat their specialty, catarrh and dyspepsia, as heretofore.

will continue to treat their specialty, catarrh and dyspepsia, as beretofore.

While they charge a reasonable price for treatment, they refuse no one treatment or medicine because he is poor.

Office hours, 10 A. M. to 4 P. M., and 6 to 8 P. M. Sundays, 12 to 4 P. M.

Consultation free to all. Patients treated successfully at home by correspondence. Send two 2 coent stamps for question blank and address all letters to the Catarrh and Dyspepsia Institute, 323 Penn avenue, Pittsburg.

AN IRON-WORKER'S TESTIMONY

IN FAVOR OF DR. BYERS' METHOD OF TREAT MENT-A DESCRIPTION OF THE ANTISER. TIC SPRAY APPARATUS.



Mr. Fred Haus, Sylvian Street, City.

Mr. Fred Haus, Sylvian Street, City.

Mr. Haus is employed at Jones & Laughing American fron Works. For three years he had been troubled with his stomach and abortness of breath. Never had any sickness before. Trouble began with weakness and loss of appetite. When he came to Dr. Byers office he was lessing flesh rapidly, had cough morning and evening, night sweats and the usual dyspeptic trouble which follows such a train of symptoms, coated tongue, bad taste in the mouth in morning, bloating and belching up of gas after eating, paipitation of the heart, dizziness, etc., etc.

gas after eating, palpitation of the heart, dizziness, etc., etc.

He was induced to try Dr. Byers through the testimony of a fellow workman in same mill, Mr. John Lewis, and was entirely relieved of all the troubles after thorough and systematic courses of treatment of five months. The only unpleasant symptom he has left is an occasional palpitation when he gets a bad cold, caused by an unusually irritable heart. DR. BYERS' METHOD OF TREATMENT.

DR. BYERS' METHOD OF TREATMENT.

A porcelain-lined cylinder, filled with purified condensed air, by which the Doctor treats catarrh of the nose, throat and upper air passages. This air passes through a flexible tube, at the end of which there is a spray generator, formed of two glass tubes, one of which turns downward, and is inserted into a medicated fluid, which the air sucks up in minute quantities and trajects out into the form of an atomized vapor. With a pressure of 20 pounds to the square inch, it will throw a spray of four feet in length and of considerable volume. This spray not only cleanses the milamed membrane of the viscid excretion which collects on its surface, but deposits remedial agents upon the irritated membrane, reduces the inflammation and soothes it. This rendurs a cure much more speedy than can be effected by any other means, and leaves the parts fresh and clean after each application, thereby promoting the comfort of the patient during the progress of cure.

DR. BYERS' CREDENTIALS. DR. BYERS' CREDENTIALS.

Dr. W. C. Byers is a graduate of the Jefferson Medical College of Philadelphia, 1872, as his diploma in office will show, and is regularly registered in the Allegheny County Medical Record. He treats each patient locally once per week, and furnishes all necessary medicine for home nee for the uniform fee of \$5 a month. For those patients who cannot visit his office he has devised a small instrument by which they can use his "Antiseptic Spray Treatment" at home.

Office of Dr. Evers No. 421 Penn avenue.

Treatment' at home.

Office of Dr. Ryers, No. 421 Penn avenue.

Specialties, catarra, all nervous, blood and skin
diseases; all chronic diseases.

se20-asu