with the Dhu Loch still higher up, surrounded by dark precipitous rocks, has very often been
resorted to by the Queen and the Royal family resorted to by the Queen and the Royal family
in their short excursions of one day from Balmoin their short excursions ier Majest's pleasant book, "LLasves,
ral. Her Mas
from the Journal of Our Life in the Highland," ral. Her Mor
from the Jounnal of OOrLife in the Highlands,",
which as been so many times quoted for des. whiphions of places shown in our Illustrations, occasionally refers to Loch Muick, where a boat
was kept and one or two huts were built, thirty Was kept and one or two huts were built, thirty
gaars ago for the accomodation of the Queen gears ago for the accomodation of the Queen
and the Prince Consort. The Falls of the Muick and the Prince Consort. The rails of the Minck of our Engravings this week. Her Majesty,
speaiking of the streaa, remarks that it "falls in speaiking of the stream
the most beantiful
stones in the glen."

## THE CHANNEL TUNNEL

It we except the recent pablic protest of Sir Garnet Wolseley against any attenmpt to abolish the "silver streak" which is at once the pride
and the horror of the sea-sick British passenger, the outside world has lately heard but little of Channel tunnel. The engineers and their valiant little bands of workmen who are steadily cutting
their way through the lower chalk from both their way through the lower chalk from both
sides of the Straits of Dover have however, been
 Miderable section of the works is expected to to ready for official inspection at the end of this
month or the begining of December. The work meanth or the beginning of December. The work
now being so energetically pushed forward is that now being so energetically pushed forward is that
of a drift way, which, if the boring proves succeesful, may ultimately be enlarged into the intended great highway for passengers and mer-
chandise between England and the Continent. On the French side the work has, as we stated a fow days ago, already reached a distance of 1,800 mave been completed. This makes in all 3,400 metres, or considerably more than one-tenth of
the entire extent of piercing to be accomplished, the entire extent of piercing to be accomplished, the tunnel being rather more than 29 king to which must be added the gradual descent of about a mile and a quarter on either side, rendered necessary by the circumstance that he sufmarime three hundred feet below the surface.
So considerable an amount of progress as this must necessailitg feasibily of ask which was long re garded as the mere dream of a scientific enthu siast. The truth is that practical engineers who have given attention to the subject have long
regarded the problem as simply one of cost and regarded the observations of Sir John Hawkshaw long ago, led that experienced enginewr to the cavated in the lower bed of homogeneous chalk This stratum is known to be 500 feet deep on tical in character on each side of the Straits there is little reason to doubt that it stretcher heneath the sea uninterruptedly, covered only hy the
familiar sand and shiugle of the shores. Such a bed offers to the engineers pecaliar advantages. the same stratum the gradual descent of the tunnel corresponding to the shelving bed of the Bay and the French shaft, a little to the west of Calais, attains a depth of about 180 fet $t$ below worked; for though it is not sho manaigeable as worked, soft, pure, white upper chalk which is so
the eve in the cliff of our southern familiar to the eye in the cliffs of our sonthern
coasts, it still yields readily under the action of coasts, it still yields reade principle of a carpen. ter's auyer. Comparea, , herefore, work of siow labour of cutting the task is really child's play. In the whereas Mr. Brunton's machin has been shown to be capable of catting through the chalk at the rate of a yard an hour. Lastly, while the slightly greater hardnes8 of what is with the more yielding nature of the upper strata is hardly worth mentioning, its greater resistance to the percolation of water is an invaluabe a few years ago by Sir John Hawkshaw along
at ee shore at Brighton below high-water mark, was in the upper chalk; hence the work was greatly impouden gallons per minute having mometimes to be pumped out. But even here the undertaking was nor would a considerable percolution in the Channel tunnel probably prove a difficulty too great to be grapiled with. It has bean said,
indeed, that nothing could hinder the ultimate completion of the tinnuel but the very improbsble existence of open wnile to a depth of two
from the bottom of the sea from the bottom of the tunnel will at all points
hundred feet ; for the bed. No practical miner and excavator, howbear is prone to despise the difficulty of water;
ever any large infiltration would unquestionably
and add greatly to the already great expense of the undertaking. Under these circumstances, it is been shown, as far as experiments can show, to be practically watertight. That no great diffi. culty sufficient air may be assumed in these days of large experience in long tumnelling. And thorgh, as the work progressass, if it is really
carried beyond the eaperimental stage, the dis-
tance along which the excavated chalk must be
removed to either shaft will be constantly increasing, there need certainly be no delay on
this score. We need hardly say that every mile of the work successfully executed wonld increas the probabilities of success in a constantly increasing ratio.
Supposing that it is decided to go on with the
work, and that the $u \cdots$...ded twenty millions can work, and that the u...led twenty millions can be raised, there seems little reason to doubt that
the tannel might be completed in a few years. the tannel might be completed in a few years.
The original calculation was that it would only require two years to pierce a way seven or nel to the other a machine being orked from neach side. Now that the experiment is proceeding in good earnest there seems every reason to hope that the task mipht be accomplisked within
something less than that period from the present something less than that period from the present
date. If so, another four years would probably be required to complete the entire work and
render it fit for traffic. Long before then, how. ever, we shonld have really solved the pro-
blem of the possibility of annihilating that sea passage, which from countless ages before the immest daun of historic time, has been the in-
evitable condition of communication between these islands and the Continent of Europe. Nor would the eventual opening of the Chunnal
line, though it would crown the labour, be the line, though it would crown the labour, be the
most striking of the events in the history of the most striking of the events in the history of the
undertaking. There is something strangely fascinating to the imagination in the thought of a bed of the sea quietly pursuing their daily labour, While overhead the hurricane of last week was lashing the waves, and no packet-boat dared to
put forth from the shelter of the harbours on either shore. But still more impressive is the thought of the time, now we may almost venture to say approaching, when the excavators, detect-
ing with quick ears a dull echo, as it were, of the ing with quick ears a dull echo, as it were, of the
noise of their own labours, will pause to listen ; and then going forward with a loud cheer and with redoubsed energy, hilt see the thin wail rall, and
stand suddenly face to face with their comrades from the opposite shore.-London Daily News.

## LADIES ON HORSEBACK

Every one remembers the passage in one of Thackeray's books, in which he remarks on the
perennial interest men take in talking about perennial interest men take in talking about
horses. Take any two grooms pacing behind their masters in the park, he says, and you may
safely conclude their speech is about horses safely conclade their speceh is about horses,
racing, or betting, or breeding, or rearing, but till about their favorite animals. Thackeray made no new discovery, in thus saying, but he
s:ated a truism, such as all the world recognizes, and is ready, to quote. The interest women
take in the same a varying line, but it is scarcely less eager. The woman who rides at all in any sense that is Yurther than being placed on the top of a horse,
while he canters a couple of times round the ow, thinks more about her performances than of ay of her other daily achievements. Nothing
that can be said or written about the matter is without interest for her. One of the latest conribations to the literature of riding is Mr
Power 0 'Donoghue's "Ladies on Horseback published by Messrs. W. H. Allen \& Co., and a good deal of discussion has followed its appear a lady's opinion on matters wholly feminine
should be of paramount value to the members of should be of paramount value to the members of
her own sex. On the question of her seat on horseback, however, this is certainly not the
case. The best teachers of rider those most resorted to are men, though the rate vious view would seem to be that no one better to combine seeurity of positionin the saddle with grace. The question of the relative safe
ty of the different attitudes of men and women on horseback has never been satis.
factorily decided. A woman will elways excuse timidity by pleading the insecurity pomuel, though dangerous in case of accident who know how to resolves itself into the point of whether or not the rider is a good one. A bad workman neve never hinder daylight from appearing betwee him and his saddle. Plenty of people, both
men and women, ride loosely and awkwardly yet do not part company with their horses eve in getting over rough places. To the astonishment of benolders they appear on the ot her side
still in contact with them if only by the reins. But the human being who makes himself one with his beast, who moves with its movements, might, is probably born with the capacity, as a This is said to be with his peculiar talent. This brings us to what we must consider a -namely, that it is unwise to put children early on horseback. Two things ary absolutely
necessary to make a good horseman or horse woman, and these are nerve and seat. Which comes irst in importance may be a mattor oo
divided opinion, but we should have thought no one wonld have disputed the desirability of cal-
tivating both early. All exercises requiring flexibility and strength of muscle onght to be commenced early. No one would think of taking to acrobatic performances late in life, and
even the modified
movements of the dance are not to be acquired in maturity with any but the
smallest degree of grace and elegance. The smallest degree of grace and elegance. The
physical faculties needed for riding are practi-
cally the same. The unconscions adjustment
of the body to unexpected motion the easy pli. ancy of give and take between the horse and his
his ancy o give and take between the horse and his niee surelp best learned while the joints are flexi-
ible ible and the muscles supple. The authority in question thinks that children should only be placed on ponies or horses of extreme quietness,
and that, being used to such, thev will be and that, being used to such, thev will be
frightened when they find a spirited animal frightened when they find a gpirited animal
under them. We do not take this view. The fall of a child from a small horse is not likely to be a serions business, and it is absolutely the
beast lesson against the recurrence of the sanie thing. Until one has found how easy it is to f.ll from a horse, no one has any idea of how unceasing must be the guard against it. This habits which help to shield ng from all sorts of danger. but we think it very doobtful if it can
be acquired after youth is passed. Nerve is of be acquired after youth is passed. Nerve is of
course more a matter of temperament, and also conarse more a matter of temperament, and aliso
of avcidental health and mood. But a naturally nervous child may be trained to a certain amount of self.control, and few modes of doing back. and in one way stronger frrce gives self-confidence, the free motion in the open air strengthens the system and gives it tone, and if the much more pleasant and efficacions gentle friend liness is with his animal than angry violence he Filt be bestowing npon him a potentiality of
future enjoyment little dreamed of perhaps at tature enjoyment little dreamed of perhaps at
the moment by either. Not all men cultivate as they should do intimacies with their animals, nor appreci
friendliness.
The stirrup best suited for a lady's use has long been a matter of debate. Her best friend she comes to grief. We are glad to find that Mrs. Power O'Ponoghne is in favor of the sim.
plest. In point of fact, a lady should never be dependent on her stirrup. She will never
have a firm square seeat, with her shoulders at right angles with those of her horses, as long as
she places her weight on her stirrup.leather. It might be too much to expect a lady riding across coantry in view of the hounds whose stirrupleather snaps to continue the pace unchecked, her saddle by the mishap, and she ought to be able to ride to the nearest forge to have it set
right. Even with the plan right. Even with the plain man's stirrup
woman will run great risks if she has the habit of thrusting her foot into it up to the heel of her to disengage her a fall she will be as little able the dangerous patent slippers. Then we all should ride with the stirrup lightly caught o the broad of the sole, much as a man does, and
she should be able to move her foot in and out of it with perfect ease and going at any pace. dangers of being dragged in case of accident angers of being dragged in case of accident,
but it will give a firmuess, ease, and closeness o her seat ntherwise unattainable. Most women who drag on their stirrup hod on by their and piteous is the aspect of the rider. In fact this is not riding at all but getting on to a horse's equestrian is the proud feeling of conscious secu-
rity, the sense of perfectly attained equilibrium the delight of guiding and controlling a spirited intelligent, and obedient steed. Not man sensalions are more kenly pleasant, nor more
suhtty minister to self-complacency than the light toach on the curb by which a too apirited horse is reminded he must obey and the gradual
return to the snaffle which tells him that onl obedience is required of him. Nothing of this can be known to the heavy-handed individua
who keeps his or her seat by holding on th reins and wages a perpetual combat with the ag-
grieved animal. The ladies of to-day have a great advantage over those who rode twenty
years ago in the present fashion of short, tight years ago in the present fashion of short, tight
habits. The long sweeping garment which used
to be considered indispos. to be considered indispensable, and the holding
up of which when not on horseback was studied art in itself, is now very properly regardwomen hunted in it is not easy to imagine. The pictures which have come down to us of ladies on orracoling steeds with long manes and tails, and
habits fluttering about the horses' habits fiattering about the horas8 heels, would
seem to indicate that they never ventured out seem to indicate that they never ventured out
of the safe precincte of the Park. On the other hand riding-sxirts may be made too short for
grace. As hinted before, the interest women take in horses and horreeg affairs is largely tinc-
tured with a porsonal feeling. That they more care and anxiety on their get-ap for the hunting-field than nien do on their cord-tops we is not u question of comparison. But they certainly share the love of the horse and his assciation, and "Ladies on Horseback" is and will remain a popular book.

Quiz.
The first of the series of races between the Atalanta and Mischief, for the American Cup, contly, distance 40 miles. The Mischief won by 28 minutes 301 seconds, the Gracie, which
also sailed over the course, beatirg this time by aiso sailed over the course, beating this time by
6 minutes, 17 seconds, in 4 hours 5 minutes 46
seconds.

## DREAMS.

In a large class of dreams, it is certain that
the persons or things seen have been previonsl/ the persons or things seen have been presiouslo well known to the dreamer, but perhaps not
lately thought of. If, according to the philosophy generally recaived such appearances are nor objects seen, they are still wonderfal persons or objects seen, they are still wonderfal. A be
loved and long-lost friend suddenly appears in dream, so like the waking reality that it is imcausod by distinguish betwe we may well speak of such things as " wonders,"
be the explanation of them whe be the explanation of them what it may. Dr.
Abercrombie treats of dreams as hallucinations Abercrombie treats of dreams as hallucinations, and in sapport of his opinion relates the follow ing:- An eminent medical friend, having sat ap late one evening, under considerable anxiety
about oue of his children who was ill, fell asleep in a chair and had a frightful dream, in which He awoke with the fright, got up instantly, and walked to a table which was in the middle of the room. He was then quite awake, and quite con-
scions of the articles around him ; but close to the wall, at the end of the apartment, he dis. tinctly saw the baboon making the same grim-
aces which he had seen in his dream. The spectre continued visible for abit haf a minute a baboun making similar grimaces the speen would just'y he called a rerollected image ; but it is still wond.rful that such an image should suddenly start into existence, like the living thing itself. If he had never seen a baboon under similar conditions, but ooly a picture of one, it is still more wonderful that the picture after having been forgotten perhaps for years should in
an instant assume the form and substance of a living crrature, and in all respects act as if alive Look at such phenomena as we will, they are,
to ayy the least, marvellous. To assume. that of ideas is ouly to urge one my tion of another. A ssecond mystender in ef explana set of ide transiormation or substitution of on the new images are the betual product of the
old old One night, for example, the writer dreamed
that he was walking by the side that he was walking by the side of a river, and
saw a fair young girl taken out of the water and laid upon the bank. She was dead, but her fixed upon hime, as he thonght. with and wer gaze. The intensity of the feeling thus excited caused him to wake, and after a fow moment reflection, he was able to trace this dresm to it origin. Immediately before going to bed, he
had heard the mouse-trap in the pantry shn down with a click, and wishing to set it again he had drowned the mouse in a pail of water, and
had afterwards shaken it out of the trap. He
 were open as it lay dead on the table, and that
they were blue. He then re-set the trap, and immediately went to bed. The dreaming, sense of a fair young girl ; the pail of water had beditions of the little drama that was to be playe ver again ; and two or three atrange characters were introduced iu the shape of the persony who drew the girl out of the water. So far the dream is accounted for; but is it not wonderful when
viewed in this light? It is as if a poet, with fine dramatic iustincts, had taken a hint, from the drowned mouse, aud invested the incident with transformativn did not occur to the writer while he was awake. Why, or rather, by what law of intellectuality did it occur to him when asleep?
-Cassell' Book of Wonders.

## NEWS OF THE WEEK.

Ex-President Diaz has been married
Trang snowed up and abandoned in Nebraska.
Rumoors of Bismarck's intended resignation. Thi Land Act is being favourable accepted Rayo tenants
Relations between Mexico and Guatemala
said to be very critical. Thrkx thousand operatives are on a strike in The stafiordshire potteries.
Serious earthquakes have occurred at Chios, and the village is disappearing.
The Sheriff of Mecca has refused to permit
Midhat Pacha to make a pilgrimage to that city.
Parnelu has sent in his subseription to the
Wicklow Hunt, and $h$ ipes hunting will not be stopped.
A genkral amnesty is to be granted hy the
Russian Governuent to persons convicted of press offences.
Tum Onnada Temporance Act in Pictou nearly 1,200 .
A dispatch frnm Havana says the Goveruthe sbatraction of the tax records.
Thk Allan steaner Corean was successfully under steain yesterdey morning.
A despatch from Hoay King savs a terrible
typhoou has ravaged
 honsee. Sixty

