## AMYAS LEIGH.

## shead tir whianond, and ended all his reaming <br> At At, nef the white crests of the breakers foaming <br> On ales the while crests of the breakers <br> oreer eqzain to thee the $0=$ winga of tnow, <br> Never to hear the eager

```
Gone Iike a dream the wild old days forever, The struggle and the ilght;
Throught trople day and night.
one the mad fost ton mee the Spaniard lying
Shain by his hand,
In forefgn land.
So peace fias come after the etruggle dreary.
The right has conquered wrong,
nd falls ilke batm on mind and soul
Ayacenara's eang.
lis wife forever-ne
Sormaw is damb
Hate and Pride ba
```

Houten Transcript

## THE MINE EXPERT 


 and will zecept it ${ }^{\text {m }}$
dint Bayland understood, an manl roil whech Battlesea's $\begin{aligned} & \text { an } \\ & \text { han }\end{aligned}$ ropped cmrclessiy zuttieseas's han to turned and we And Chara Faxon, the most beautitiful irt in twenty miles around, was the eon would be gind to help.
He walked nervousis to the window to trust his eyes with au second ding at the small roll on his deak. He
did need the money sorell, more than he would care to have anyone know And It was only an tndication of what
would come. With Battesea, whin Would come With Battiesea, who than any ten men in the country, as
This freind, his prosperity would be assured.
But somehow the thought of the
prosperity did not give him the plene prosperity
ure that it ought. Odaly enough, his
OL mind went over the snow-Clad peaks
to the mother he had left cin the East.,
and fom her the and from her to-
A smart runabout swung up to the
onfice door, and a hanasome young fel
how of about the own nee raised a onice door, and a hamisome youns a
jow of about his own age raised a
beckoning finger. The other oceupant of the runabont was Clara Faxon. Cline door.
 "In the morning, yes. But I can spare $y$ you part of the
seele, if that will do."
through my mine and make a $a$ report
of its general charneteritice opened $t$ minch yet, bot the ndicht
tions. I think point to ti Eood tuing

However, there's a rumor of a big
aynulicate's buyer approaching, and ayndicate's buyyer approaching, and
any of us will sell if wo can get our
price. Bay, two, harp, and I will be price. Bay, twa, aharp, und 1 wwill be
there to go through with yon." there to go through with you,"
"Very
well.
You may
book tor me." Faxon's eyee nawhed him a kindily glannee over her shoulder. or late he
bad thougth her manner a shade more had thougth her manner a shade more
friendly. Perhaps even Battlesea and Mr, Selee. Bat, pabawi and he turned
abruptly and went back into the abrupty and went back into the oflice
At the desk he atood for fully $a$ minute, gazing down at the roll, the fine wrinkles again coming between hit
brows. Then with an fmpatient move browa. Then with an Impatient move
ment he swept the roll tito hhis desk and turned the key. Some chance vis
itor might come in and notice it lying there.
The next day hts examinatiton of
Battlesea's mine turned out as he
 worthless as an sinvestment. And Fax-
on's was no better. The only difer
 pllectly in his ming while Battlesea
did not. So in gelling, at whatever price, one would be honest and
other a self-conscious swindier. From Faxon's mine OInt
straight to Seele's a quarter of a mile straight to seele's, a quarter of a mile
away, expectllg the eame result. But
when he left there was a strange book on his face.
He med He had examined many mines, some
of them very rich, but none had been
 from belng merely a prosperous man,
would become an immensely rich one. Moreover, it would make Battlesean his
bitter enemy, nind practically would mean his ruin in this place. And ruiln,
of course, meant the lose of whatever
chance be had of winning Clara chaxee
Faxon The wrinkles were deep in his fore-
head when he entered the office and dropped down
upon his arme It was a long. bitter fight, lasting
through the night and thto the gray dawn of the next day; but in the end he made the small roll Into a secure
package and returned it to Battlesea by his offlee boy stanting it was someac
thing that had been left tit hle office thing that had been left in his offce
by mistake Then from his notes he
made out the reports for the three by mist
made ond
mines.
One a One arternoon a week later, while
wrilting to the management of a min.
 onter, but, thlukhng it the office boy, "I-I beg your pardon, Mr. Bay-
Innd. Can 1 speak with you a mo He whirled in his chair, to find
Clara Faxon standing before him, her
俍 Ing. Mr, Bayland,", she eried, im.
petuously, before he conid speak, "papa and Mr. Battlesea are so onsenk
wThl you. Ithount you must have
doue something dreadful, the way doue something dreadful, the way
way they bave been talking; but this
morning I learned just how It wast and I hurried here. thinking yous, mingh
feel badly over tuetr being angry. You she stopped suddenly, confusedly nad was gazling int he her eyes in
way that could not be maskunderstood
Her breath nulckened eyes met squarely, and the hand
were not withdrawn.-Utica Globe.
Grocer-Do Easy Anwer.
Dou want apples to coolk
smail hoy-Both. That's what w
cook eme for.-Baltimore American.

## Power Brouzht to Thirty Milea

 In few industries has eleetrictis been atilized to such advantage as mm mm ing. Operations are there conducted region, where the cost of tuel is ex exepthonaly high, wilug to the difteut ties of transpor attion. If power be be converted tnto electricty by dyna mos, it can be transmitted economical Iy for long distancees and up gradee
that would be tmpusable to ratroade Once obtained, no matter from what source, power is needed for many pur poses in and near a. mine. Drills must
be driven inte the rock. witer pumped ouriven into the rock, water pumped er work done which calls for mechan cal energy.
One of the best illustrations of thi modern practice is furnished by the
mines of the famous Comstock lode in miness of the famous Comstock lode in
Nevada. That vein of gold and silver degrees from a vertical plane. Shaft sunk at different points in the neigh
borhood tapped it at depths varying from 1,000 to 3,500 feet. In the perio
between 1872 and 1882 one single company took out about $\$ 150,000,000$. The
whole lode has ylelded nearly $\$ 500,000$ ovo, most of that amount being pro
duced in the decade just indicated ores in 1882 and to trouble in properiy draining the mines, work was abanof water permitted. Eventually the Sutro tunnel, four and a half miles ong, opened up an outiet for much o been resumed, capitalists belng satis-
fed with ores of lower value than those which created such a sensation These are belleved to be exceedingly abundant, and the mines are
worked at a reasonable profit.
Some Idea of the cost of power there in the old days may be gathered from miles from mine to mill and that the latter was run by water brought to
it by a fume forty miles in length o-any powe from the tion two 1,400 -horse-power water wheels of the turbine type have been namos. The turbines are automatical
ny governed. Merely for tranmistan ver the Intervening country a pre sure of 22,000 volts is employed. The
current 1 s generated at 500 volts, reteed by "step-up" transformers to the fig mines by "step-down" transformers to
450 volts. It is at the that the various pumping, hoisting and
aircompressing motors are run. So cheap is the power thus supplled, says be done far more economically that

WHY SEALS SWALLOW STONES.
No Satisfactory Reason Advanced to
Explain Curione Habit.
tute museum, writing to Sclence on
factory reason has been advanced for
he swallowing or menes seals, an
this statement may probably be
ended to other animals.
"They are not taken in for ballast,
for the empty seals keep down as eas-
ily as the others; they are not swal
lowed for the purpose of grinding up
food, for they occur in the stomachs
of nursing pups; they are not to allay
the irritation caused by parasitic
worms, since the two are by no means
found together
found together: they are not taken in
with food, not merely because they
are found in the stomachs of young
seals, but in those adults that have fed
on squid caught in the open sea.
page 68 volume IIII, 'Report of Fy
Seal Investigation.'
Seal It is evident that these things are
"'It
not swallowed haphazard, but are se-
not swallowed haphazard, but are se-
lected with considerable care from
among the articles strewn along the
shore, and that a preference is extibit.
ed for rounded objects. This is shown
by the fact that, as a role, only art-
cles of one kind are found in one stom-

between fragments of barmacles and
fragments of gastropods.
"Moreover, pebbles of serpentine
and chalcedony are now and then
found on the hauling grounds, under
conditions tndicating that they were
brought there by the seals, white the
pup seen gathering pebbles on Lukanin
dud so with great care, by no means
taking the first that came to hand. The
most striking example of this discrim
nat pup which bad swallowed a buck-
the
shot whifle the chance of finding such a thing must be at a guess about one
"Furthermore, it may be sald that
sit the fur seal regurgitates bones and
other lindigestible things, the supply
of stones must be renewed from time of stones That there is any connection
to time.
between the presence of stones and the presence of a gizzard does not fo-
About the only really wise man in
the world ts the "by-stander."

KWOCKING THE KNOCKER WHO LOVES TO KNOCK
THAT IS THE WORK IN WHCH All shodio male. If a thug bitt yon on the head with a slong-shot and later talls into the
hands of the polite he may be punished severely; if a man is guilt of
peatediy knocking on a door for the purpose of causing annoyance, the lav will provide redress for the person or persons annoyed; if a man potsong your dog or clubs a mule unmercifully, he can be made to suffer; if a man
is canght taking your watch, he is held to strict account; but the knockee can knock from busy morn tiu dewy eve; he can besmirch your charactert he can ruln your business; he can defame you by innuendo; and the only satio faction is that when you get to heaven you won't see him there.
Many men carry a hammer habitually, as a policeman carries bis utghe stick-ready for use-and whenever they see an opportunity they knocit:
To the man who used his fista in such a maner, bully and brute would be too mild to apply, but the one who strikes at the character, and, throngt that, at the reputation, is not interfered with. Between the knocker and the skunk there is a marked difference, and that aifference is entirely in
favor of the skunk, which emits its offensive odor as protection. In other words, the skonk is offensive when defensive; the knocker is offensive all the time without belig on the defensive at all. There is some difference, too between the mosquito and the knocke
The knocker is a moral thug, paradosical as the expression may seem.
To moral influence he ts impervious: and, unfortunately, society has not yet tearued to put him in that class of the animal kingdom to which he belonge. with so many hateful trifituit, thot impossible, to find any other aimat animals where the knocker weuld be tolerated.
It is generaily supposed that the way to succeed in life is to work; but
among many who succeed there are those whose only work is "working" among many who succeed there are those whose only work is "working" thers, and whose idea of good business is to knock every competitor. They
seem to hmagine that by knocking and depreciating the stock of others they are sending up their own; and that by complaining they show their critica acumen. As a matter of fact, they do nothing of the kind, for "any foo can find fault; most fools do; some can do nothing else," we are often led to
believe. belteve.
The
The knocker as a rule devotes most of his time and energy to those who
are down and out, or those who are struggling. The more manfully a mas struggles the more persistently will the knocker attack him. A knocker
and rarely attacks a man his own size, for he would have diffenity in finding one as small as himself. He is worse than a rattler, for the latter at lease does not strike untll he has given warning, and when he does strike hie victum is there
from ambush.
The knoc
long better than you are, or if you see auyboody who is getting along at an knock."
Unf

Unfortunately the knockers, although in reality our enemies, are oftes
Und in the ranks of our supposed friends, and so well disgised that found in the ranks of our supposed friends, and so well digguised that wo
never see them in their true light. It is hard to think that we have to pmit up with them, but the best of men have suffered, if that is any consolation. The mistake is made of treating the knocker with contempt. He shoule be treated with a club. The best way to cure a bully is to thrash him. The best way to treat a knocker is to jump on him. Instead of which most mem
Histenn to him, forgetting that tif he will knock others he will surely knoek

## Populan jopience

Aside from errors of refraction, w H. Rivers inds the eyes of all race
and classes of men to be practically the same. The apparent superior
sight of savages is attributed entirely io practice and education, with famil
arity with the surrounding Radiat
glish engineers, is claimed to increas the effliciency of gas fires as remark to the light. It is a product of the Waste of chemical works, replaces as gas to burn brightly and completely be had in any quantity material ca cost than fire-clay.
The action of water as an anesthetic Allustrated in some recent cases In one case five hemorrholds were in-
jected with distilled water when they out paln, and the patient at once re
turned home. In another istules were opened and scraped, on
itter the injection after the injection of water, and the
other without it. The last operation of the water is declared to be the same 8
rug-a filling of the interspaces of the Hssues, thus temporarily suspend
ing intercellubar respiration and par The University of Nebraska is in
advantages of Plke's Peak as a field
laboratory for the study of plan
physiology, Rising abraptly from the
plain, and standing out in front of the
the great peak is like a section of
bottom and arctic-alpine at the top
summit is only ten miles, and the ve
tical rise is nearly 8,000 feet. Two
three botanical stations have already
mounatin. Experimental methods in
studylng vegetation and the
of new forms may here be applled
with ease.
The size of farms in Japan runs
from less than two up to about thre
and three-quarter acres aplece. Eve
these diminutive farms are often
several separate pleces, the averag
size of which is about one-elghth of an
law has been in operation for the re
arrangement of these seattered farms,
The owners are to exchange fields in
such a manner as to make their pos
scientific progress is behind the move
ment, the government wishing to en
large the cultivated fields so that
cultural machinery may be used. With
all his primitive ways, the Japanese
productive by thorough cultivation and Recent experiments by Berthelat
show that the nerves of smell are sensitive that the odor of todoform can be recognized in quantities as smalil
as the one hundredth-billionth of gram. In such a case the odor was distinct, although hundreds of years lose a thousandth part of its welght.
This indicates that the delle This indicates that the dellicacy of the
nerves of smell in detecting fte prese ence of minute quantitities of emana-
tions is of the same order as that of the spectroscope; and for this reason Berthelot calls attention to the risk of
inferring from spectros tion the from spectroscople examinstion the change of one element into
another. The spectral lines of one element might appear in the spectrua of another, owing to the presence ot
an infinitesimal impurity.

MEMORY OF M'KINL
Perfectly Cool Man in Washlingtom During August and September eding the political campaign whtel resulted in Mr. McKinley's re-election I was in the United States. It was the und certainly, within my whole earpa
and ike that during my visits to Washing on. Nearly every one seemed proe-
trated by it. Going to the White House pay my respects to the President, I
ound him the one man in Washingtom erfectly cool, serene and unaffected y the burning heat or by the pres-
ure of public affairs. Although matare of publice affatrs. Although mat-
ers in Cuba, in Porto Rico, in the hilippines, In China and in the politbeen constantly in his mind, he had bout nothing, and kept me in his offics for a full hour, discussing calumly the
various phases of the situation as they ere affected by matters in Germany.
His discussion of public affatin strength whech I quad recognized in gates at the CCiciago in 18tional, as dele
conen. One thing during this Washing asked him if he was to make any ad-
dresses during the campaign wered: "No; several of my friends
have urged me to do so, but I shall
hot. I intend to return to what ne the, better policy of the earlier
Presidents. The American people have ave ample material for judg; they, it nerfectly simple," Hee sald this in a
shay, which out it soone i became clear his dectsion;
ight.-Century.
"It looks as if the people were get--
ing on to us at last," sald the crooked poiltician. "What will we do?"
"Time, I'm afraid," replied the oth-
er, despondently.

