THE DOMINION PRESBYTERIAN

THE DIAMOND MINES OF SOUTH AFRICA.

The most famous diamond mines in the world are Kimberley, De Beers, Dutoitspan, Bulfontein and Wesselton. Kimberley is practically in the centre of the present diamond-producing area. The five diamond mines are all contained in a precious circle three and one half miles in diameter. They are irregular-shaped round or oval pipes, extending vertically downward to un-known depths, and becoming narrower as the depth increases. They are considered to be volcanic necks filled from below with a heterogenous mixture of fragments of surrounding rocks, and of order rocks, such as granite, mingled and cemented with a bluish-colored hard mass, in which famous "blue ground" the imbedded diamonds are hidden.

How the great pipes were originally formed it is hard to say. They were certainly not burst through in the ordinary manner of volcanic eruption, since the surrounding and enclosing walls show no signs of igneous action, and are not shattered or breken up even when touching the "blue ground." It is pretty certain that these pipes were filled from below after they were plerced, and the diamonds were formed at some previous time and mixed with a mud volcano, together with all kinds of debris eroded from the rocks through which it erupted, forming a geological "plum pudding." A more wildly heterogeneous mixture can hardly be found anywhere else on this globe.

It may be that each volcanic pipe is the vent for its own laboratory e-a laboratory buried at vastly greater depths than we have yet reachedwhere the temperature is comparable with that of the electric furnace, where the pressure is flercer than in our pury laboratories and the meltingpoint higher, where no exygen is present, and where masses of liquid carbon have taken centuries, perhaps thousands of years, to cool to the solvalidation colt

idifying point. In 1903 the Kimberley mine had reached a depth of 2,599 feet. Tunnels are driven from the various shafts at different levels, about 120 feet apart. to cross the mine from west to east. These tunnels are connected by two other tunnels running north and south. The scene below ground in the laby-rinth of galleries is bewildering in its complexity, and very unlike the popular notion of a diamond mine. All be. low is dirt, mud, grime; half-naked men, dark as mahogany, lithe as athletes, dripping with perspiration, are seen in every direction, nammering seen in every direction, nammering picking, shoveling, wheeling the trucks to and fro, keeping up a weird chant which rises in force and rhythm when a greater task calls for excessive mus. cular strain. The whole scene is more suggestive of a coal mine than of a diamond mine, and all this mighty or ganization-this strenuous expenditure of energy, this costly machinery, this ceaseless toil of skilled and black labor -goes on day and night, just to win a few stones wherewith to deck my lady's few stones wherewain 40 deck my taoy in finger I All to gratify the vanity of woman! "And," I hear my fair reader remark, "the depravity of man!" Prodigious diamonds are not so un-common as is generally supposed. Dia-

Prodigious diamonds are not so uncommon as is generally supposed. Diamonds weighing over an ounce (BL5 carate) are not unfrequent at Kimberley. I have seen in one parcel of stones eight perfect ounce crystals, and one sinestimable stone weighing two ounces. The largest known diamond, the "Cullinan," was found in the New Premier Mine. It weighe no less than 3,025 carata, or 1.37 pounds avoirdupois. It is a fragment, probably less than half, of a distorted octahedral crystal. The other portions still await discovery by some fortunate miner.

At the close of the year 1904, ten tons of diamonds had come from these mines, valued at §30,00,000. This mass of blazing gems could be accommodated in a box five feet equare and eix feet high. The diamond has a peculiar luster, and on the corter's table it is impossible to mistake it for any other stone. It looks somewhat like clear gum arabic. From the corting room the stones are taken to the Diamond Office to be cleaned in acids and sorted into classes by the valuators, according to color and purity. It is a eight for Aladdin to behold the sorters at work. In the Kimberley treasure store the tables are liverally heuped with stones won from the rough blue ground-stones of all sizes, purified, flashing and of inestimable price; stones coveted by men and women all the world over.

Where fabulous riches are concentrated into so small a bulk, it is not surprising that precautions against rob-bery are athletate. The Illicit Dia mond-Buying Laws are very stringeni; and the see rehing, rendered easy by the "compounding" of the natives, is the most drastic character. The of value of stolen diamonds at one time one Now the reached \$5,000,000 a year. Now the safeguard against this is the "com pound," a large square enclosure of twenty acres surrounded by rows of one-story buildings divided into rooms holding about twenty natives each. Within the enclosure is a store where the necessaries of life are supplied ut a reduced price and wood and water free. In the middle is a large ewim-ming bath with fresh water running The rest of the space through it. devoted to games, dances, concerts and any other amusement the native mind can desire. In the compound are seen representatives of nearly all the picked types of African tribes.

-Sir W.'S. Crookes, in N. A. Review.

TAME ANIMALS I HAVE KNOWN.

By Nixon Waterman.

A thick fleeced lamb came trothing by, "Pray, whither now, my lamb?" quoth 1. "To have," said he, with ne'er a stop, "My wool clipped at the baa baa shop."

I asked the dog: "Why all this din?" Said he: "I'm fashioned outside in, And all my days and night I've tried My best to get the bark outside."

A hen was cackling loud and long, Said I to her: "How strange your song!" Said she: ""Tis scarce a song; in fact, It's just a lay, to be eggact."

I asked the eat: "Pray tell me why You love to sing?" She blinked her eye. "My purr-puss, sir, as you can see, Is to a mews myself," said she.

I asked the cow: "Why don't you kick The man who whips you with the stick?"

"Alas! I must be lashed," said she, "So I can give whipped cream, you see!" "-Christian Advocate,

To the prophets visions came and vent; they saw the light and the splendor of them, and then that faded and the shadaw was left. But for you and me there shall be no fading; for us the light shall be enduring; the sources of strength shall be unfailing, when the Master walks with us, and we with Him If we are in constant communion with Christ, the strength of God shall be ours; there shall be no battle that does pot end in victory; no darkness that His light does not dispel; no hope unto which we shall not some day attain.--G. Glen Atkins.

THE MISTAKE OF THE CLEVER WOMAN.

Clever women are so accustomed to be ing told that men are stupid animals, fitted only to be treated like children, that it is sometimes great fun to see how often the common or garden var iety of man can surprise these clever omen by exhibiting almost human intel igence when it comes to choosing a wife, and jolting the clever woman clear out of her bearings by marrying some plain little brown wren of a girl whom the clever woman had completely over looked as a possible rival. Men would be more successful in their marriages if women were not such graceful and at tractive hypocrites. Yet it is a curiouthing that the quality which often wins a man in spite of himself is that quality which the man hunting woman oftenest fails to simulate-and that is the simple. sympathetic, old-fashioned attribute of consideration for other people-consid eration for the tastes, prejudices, anti-pathies, feelings and infirmities of par-euts, of old people, of shy children, of the sick, of the religious.

A WORKER OF GHENT.

By William Rittenhouse.

In the old Flemish city of Ghent, just across from the massive walls of what used to be the convent of the Chartreux, stands one of the most interesting statues of the world, to my mind, for it is one of the very few statues any city has ever put up to a working manlevin Bauwens.

When I first saw Lievin Banwers there, on his pedeetal, I thought he was some hero-patrict of French Revolutionary times. Young, slim, eager, the statue looked the part. "Int Levin Banwens was just a worker of Ghent- a weaver of -cloth, busy at his weaving when Marie Antoinette was beheat-led, and Nap-Lon was rising to greatness. Through Juthat troubled time, the young Flemian weaver was pursuing, with eager cour age, a guarded secret, to surprise which might mean death.

Ghent had always been a city of spinnors and weavers, since its beginning far back in the centuries. From it todward the Third, whose Q teen Flulippa, w z a Fleming, had sent weavers to England to teach his subjects how to weave woollen cloth. Ghent had forty thousand looms even then, in mediaeval days.

But in Lievin Bauwens' day, England, in her turn, had a knowledge of weaving that Ghent needed; and unlike Ghent, England was not willing to teach her secrets of weaving. The hand loom, in Great Britain, was, in fact, passing away before the new methods in which machinery was used. The spinning jenny and the "mule" had been revolutionizing things. Unless Ghent gained this new knowledge, her looms must stop.

stop. So Lievin Bauwens went over to England, and in the first year of the nineteenth century he was back again in Ghent, where the Revolution had driven the monks out of the big convent of the Chartreux, leaving it empty. Here the brave worker, armed with the secrets of spinning, set up the first spinning mill off the Continent of Europe in 1801 and brought with him hope and prosperity to the weavers of Ghent. That is why the status stands there, outside the massive old convent, with his hand on the yard of cloth that meant so much to Ghent, the weavers' city. These are heroes and heroes. The work of peace, the daily drudgery of a busy

There are heroes and heroes. The work of peace, the daily drudgery of a busy trade, has its place for them, as well as the battlefield. The worker does not always recognize this, nor rise to its inspiration. Lievin Buuwens did. He was a true patriot and a brave citizen-and therefore. I repeat, his statue is one of the most interesting in the world, though his hand holds neither flag nor sword, and his name is almost unknown outside of Ohent.-British Workman.