A mining engineer is simply an engineer engaged in mining; and the engineering part of mining comprises the opening of mines, the support of their walls and roofs, the extraction of ore, coal or rock, the hauling and hoisting of mein and materials, the drainage, lighting and ventilation of the mine-workings. These operations involve civil, mechanical, electric or hydraulic engineering; and conse-quently the mining engineer must be acquainted with all these branches. The peculiarity of his profession is that the work is largely done under-ground, and therefore involves some special difficulties and dangers. The penalty for mistakes is some times very heavy. Bad ventilation in

of

ears' iten-sen-here

buse.

arch the the

er in cians the veral lting llaps

Vash

er a 1

e **an-**n e**n-**Lake

neers miles

overs

prove than miles ently, expe

onths cut-off p. A e soft (ester-away ndings A few 0 feet

disap-

organi-portion-sed up-nt last is en-y 2,000 at the a. Un-is year legates, it has

N en Gas aned.

gas in the re-acturing oby and rs. the still to clean

the still to clean n explo-ed the rom the st burn-

ance on e leaves Con-but he ery.

DN Meetblicar in the irg on minate Gener-Court. nan of ne call ... Willorgani9

4

that the work is largely done what ground, and therefore involves some special difficulties and dangers. The penalty for mistakes is some-times very heavy. Bad ventilation a coal mine may cause, not merely a lot of headaches, like bad ventilation lot of headaches, like bad ventilation in a building, but explosion and con-flagration, destroying hundreds of lives. Bad civil engineering, in the support of the walls of a deep shaft, may lead to the collapse of the shaft, imprisoning the miners below. Bad mechanical engineering in the con-struction and care of machinery may result in the breaking of a steel rope, precipitating a cage-load of men hun-dreds of feet to certain death. On the other hand, mining is not,

dreds of feet to certain death. On the other hand, mining is not, on the whole, an extrahazardous or unhealthy occupation. Those of us who spend much time underground come to feel ourselves safer there than anywhere else. Three or four perils are constantly present, and must not be carelessly disregarded; but scores of accidents which befail the laborer on the surface never hap-men below.

the laborer on the surface hever hap-pen below. The definition of a mining engineer which I gave at the beginning omits many things generally supposed to belong to that profession. The truth is that, in this country especially, mining engineers often used to be, and sometimes still are, called upon to perform many duties outside of mining engineers.

The Mining Engineer And Andrewski and roots, the bandling and by the restring and even romantic advert

THE PULPIT.

AN ELOQUENT SUNDAY SERMON BY DR. CURTIS LEE LAWS.

Theme: Backsliding.

MOND, PH. D., LL. D.,
maintee of Mining Equineers.
without fear of mininestimates in Artona, or solution of the analysis of the Artona of the analysis of the Artona of the A

lagged behind, or, as the record says, the followed afar off. When the company reached the judgment hall, John went in with Jesus, but Peter, straggling in late, dared not go there, but with shamefacedness sat out in the court and warmed himself by the fire. Step by step he had led to his own undoing. The servants jeered him and taunted him, until he grew profane and blasphemous, and declared that he never knew Jesus of Nazareth. Had he followed close to the Master, the presence of Jesus would have sustained and strengthered him, in the companionship of John he would have been saved from the influence of the evil company which proved his ruin. Is not this the you began by sheer neglect. You did not courage, and he would have been saved from the influence of your backsilding? You began by sheer neglect. You did not commit outward positive sink, but you neglected the means of grace. You were startled when you recognized the growing indifference in your boging indifference in your boging indifference in your boging and you to give up the prayer first of your backsilding? You began by sheer neglect. You did not commit outward positive sink, but you neglected the means of grace. The you become irregulation of the growing indifference in your boging and you no longer delighted in you drooped out of all church attend point were your to give up the prayer for sunday evenings, and gradually and for the your key the to the stend of the devisions presence of your Lord nor start out to make shipwreck of your fatted out among unbelievers, and being your Master in ways which fer years ago you would not have fatted out among whelevers, and being your Master in ways which fer years ago you would not have fatted out among the bind the prophe, for they belong to God. They been redeemed by the blood of the shear and drifted out of the specie, for they belong to for the years ago to use the each form the beginnice. They ought to be each of the shear shear the shear the shear shear the shear shear the shear shear the shear shear th

"MEMOIRS OF DAN RICE," THE CLOWN OF OUR DADDIES.

At Last, There is on Sale a Book Brimful of American Humor.

At Last, There is on sine s beac Brimful of American Humor. Any bookseller will tell you that the constant quest of his customers is for "s book which will make me laugh." The bookman is compelled to reply that the race of American humorists has run out and comic lit-erature is scarcer than funny plays. A wide sale is therefore predicted for the "Memoirs of Dan Rice," the Clown of Our Daddles, written by Maria Ward Brown, a book guar-anteed to make you roar with laugh-ter. The author presents to the pub-lic a volume of the great jester's most pungent jokes, comic harangues, caustic hits upon men and manners, lectures, anecdotes, skotches of ad-venture, original songs and poetical effusions; wise and witty, serious, satirical, and sentimental sayings of the sawdust arena of other days. These "Memoirs" also contain a series of adventures and indients alternat-These "Memoirs" also contain a series of adventures and incidents alternat-ing from grave to gay; descriptive scenes and thrilling events; the rec-ord of half a century of a remarkable life, in the course of which the sub-ject was brought into contact with most of the national celebrities of the day. The book abounds in anecdotes, humorous and otherwise; and it af-fords a clearer view of the inside mysteries of show life than any ac-count heretofore published. Old Dan Rice, as the proprietor of the famous count heretofore published. Old Dan Rice, as the proprietor of the famous "One Horse Show," was more of a national character than Artemus Ward, and this volume contains the humor which made the nation laugh syen while the great Civil War raged. This fascinating book of 500 pages, beautifully illustrated, will be sent postpaid to you for \$1.50. Address Book Publishing House, 134 Leonard street, New York City.

Poorly Put. Sympathizing Friend-Kate, I am sorry to hear that your husband has gone to heaven. Kate-Well, where did you want bin to read

Stuart's 1 in the after a measure, ion of a oss the ittsburg,

ase bill votes in 16 mem-

pposition members soldiers' e finally, enate for provides in \$6-a-War vet-come does

oney of English of three estimat-

Dies.

Dies. cey Mel-prominent d of An-ted with s, died at rs. Mr. spirit in culture in He was veral na-

ens to a is so dif