system as fast as it is taken in, and bence it accumulates in the body, saturating every organ. The benumbed sensibilities of the person thus saturated give no warning of the mischief which is being wrought in his system, and the danger which threatens life as well as health."

Only a short time ago, on May 9th, the press dispatches from Cincinnati, O., announced the death of a man named Cameron, giving the cause as starvation. In the telegram it was stated that he smoked fifty to seventyfive cigarettes a day. This is sugges-tive of the fact that tobacco is not a food, and none of its ingredients gives support to any part of the hody. It does not add to, but substracts from, the total vital furce. In the instance quoted its effect upon the stomach was such that the organ could not retain food of any character. The craving was for the tobacco-poleon, and the victim smoked away with great ve-But the uemon was insatiabemence. ble; the tobaccc-babit was not content with makinga elave of its victim, and as it could not support, it killed bim. Cameron's sickness and death were due directly to tobacco-smoking. For the quenching of the awful thirst it created, poison flowed instead of water, with the only result that nature could permit.

Why is it that a tobacco user suffering from injury or disease recovers more slowly than one who refrains from stimulants and parcotics? - Because, like alcobol, tobacco disturbs the processes of nutrition. It paralyzes the tissue builders, lessening their activity. The delicate organs by which the im portant processes of life are carried on are bindered in their work, helog required to expend much effort in removing from the body the noxious intruder. The germ-destroying cells also are paralyzed, and thus render the body more vulnerable to the attacks of disease germstban when in a normal condition.

Some people have assorted that tobacco is a preventive of disease during malignant epidemics. This was proved long since to be a mistake; and that, on the contrary, the tobacco-habit rendered persons more liable to infec-tions particularly affecting the stomach. The eminent English physician Lizars says: "During the preva-lence of cholera I have had repeated opportunities of ing that individual observ ing that individuals addicted to the use of tobacco, especially those who shuff it, are more disposed to at-tacks of that disease, and generally in its most malignant form." As early most malignant form." As early the cholera epidemic of 1849, in Philadelphia, it was shown that smokers were specially subject to the infection, and medical attendants who had contracted the tobacco habit fell ready victims because the cigar attracted the malady, while the non-users of the weed were able to attend to bospital patients, and themselves escaped.

Not only the stomach, but the liver and all the digestive organs are disordered by tobacco-using. It is sometimes urged that chewing excites the salivary glauds of the mruth, increasing the flow of saliva and alding the process of digestion. But the tobacco chewer spits out with the tobacco juice the chemical secretion which about go to the stomach, and thus drains off

the salivary fluid to no good purpose. If he were to swallow it mixed with the futce containing nicotine, it would take bim a long time to become accustomed thereto without nauses accompanying the act, and then would increase the poison in his system and cause greater peril to life. But the drawing of an unusually large amount of saliva is not an aid to digestion, even if the fluid could be swallowed in its natural state. To so excite the salivary glands is a violation of the law of nature which soon exhibits itself in chewers in the sharp and fleeblees jaw, and the sallow and cadaverous countenance.

A further trouble connected with the digestive organs, arising from the use of the drug, is the increased danger in malarial fevers. For instance, in typhoid fever there are ulcerations in the bowels which oiten produce death by perforation, or eating through the coate of the intestine. Medical authorities say the use of tobacco favors perforation. Among the effects of its excessive use are debility and loss of tone of the stomach, nausea, failure of appetite, indigestion, constipation of the bowels, sick beadache and billoueness.

Those whose employment leade them to an active outdoor life, where an abundance of fresh air strengthene the system and would greatly prolung existence in mortality if given upportunity, often show little signs of nicotine poison in the vital organs until advanced in years; while the roan of sedentary babits early falls a victim to dyspepsia, uervousnes, paralysis, or other organic difficulties which render existence burdensome. But whether man works inucors or out, the effects of the tobacco habit are clearly shown either in the mental or physical condition, or in both; for as was remarked at the outset of our inquiry, the workings of the poison exhibit themselves through natural effects at every step in the progress of absorption by the buman body.

ENGRAVING DIAMONDS.

It is noted as one of the intest and most marked triumphs of modern science in its applied form that a process has been found by which diamonds can be engraved. The disdiamonds can be engraved. covery is attributed to a French mechanic named Bordinok. The 'Che method employed is as yet a well preserved secret, except that the fesults are obtained by means of bardening and tempering in a peculiar way the tools employed. It is given out that the inventor by his new method can net only produce engravings on the surface of the polished stones, but perforate them and form them into elaborate designs and give to each curve the highest degree of polish. Jewelers are said to be much exercised over these new and valuable ornaments that are already in urgent demand.

The discovery will be of some interest to theologians, too, inasmuch as it may re-open a question that has been discussed somewhat. It will be remembered that to the official robe of Aaron and his successors belonged an ornament cousisting of twelve preclous stones, on each of which was an graved the name of one of the twelve

tribes. The third stone in the second row was a diamond. Objections have been made to the truthfulness of the Mosaic description on the ground of the impossibility of engraving anything on the bard surface of the diamond, and the only reply to this objection so far has been that probably the translation is in error, some other precious stone being referred to in the original. Should it prove correct, however, that M. Bordinck has made, the discovery as claimed, it is conceivable that he has simply re-discovered a lost art with which the ancients were familiar. It would be another illustration of the trite saying aboutthere heing nothing new under thesup.

THE SHORT LINE'S EARNINGS.

Now that the general policy of reeivers blue for the Union Pacific, the Oregon Short Line, and other portioneof the great milway system seems to be definitely settled, it may be interesting to consider the comparative losses and gains in operating the divisions which lie in the mountain region. The Utah-Southern division includes from Salt Lake south to Jush: the Utah Southeru Extension takes in the section from Juab to Frisco; and the Utab & Nurthern consolidation with the Oregon Short Line has that from this city north. The estimated losses and profits. for the year ending June 1, 1895, are figured up se follows by the present management:

E

Es

Es

E

Nortbern division	533,598 86
timated defioit, Idabo Ceu-	
tral division.	15,160 23
stimated deficit, Utab South-	
ern first and general mort-	
gage division	96,160 87
timated deficit, Utab Sou.b-	
ern Extension mortgage	
division	37,200 22:
stimated surplus, Oregon	
Short Line & Utsh North-	

eru consolidated mortgage

With this showing, while the lines included in the division from this city northward are profitable, that from Sait Lake to Frisco has been operated at a loss of more than \$133,000, nearly three-lourths of which was on the division from Juab southward. The line from this city south, as a whole, never has paid expenses, that condi-tion being one of the factors by which the proprietorebip of the line from Orden south was made to change frum the original to its present situation, The only way by which the southern section could be made profitable would he as part of a main line through to alarge mart such as southern California. -that being the strong reason urged for its excension to Los Angeler, and which almost accompliabed the taking up of the enterprise when grading was begun from Milford west. It by any combination of cir-cumstances the Utab Southern extension should now become part of a trunk live to the coast, it is not probable that the cosl and iron deposits of Iron county, which have come to prominent attention recently, would be left out; therefore the route would be diverted