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"If I could make you happy," he said "I should be content." 'Make me happy?" repeated the girl "I do not think there is any happiness in

By noon the next day, nearly every immate of Avondale Castle became aware of the fact that on the preceding night this world." a terrible scene had been enacted between Mrs. Meason and her granddaugh ter, and that, as a consequence of this, Lady Constance was seriously ill.

It was from no very ardent wish to stay at Avondale that Mrs. Meason remained; she had simply a desire to arrange mat-ters for Lady Constance-in other words, hand. to compass her engagement to the Duke d'Azzeglio.

CHAPTER VII.

Her ardent wish to make the duke her grandson led her to do a questionable deed; she determined to call upon him, and, if possible, put matters right between him and Constance. She found him at home, and was ushered immediately into his presence: he received her courteous-ly, and when she spoke of Lady Constance his face grew grave.

"You will pardon me, madam," said he, "but this is a subject which I must decline to discuss, even with you. The lady has given me her answer. I suppose, as s gentleman, I should accept it, and say ne more."

"Lady Constance," pursued Mrs. Mea son, "is fully sensible of the honor which you conferred upon her when you offered, her your hand, she when you offered, not from any feeling of aversion toward yourself, but because she believed that she was not at liberty to accept it."

The duke started. "Not at liberty? he said. "Are, then, her affections engaged? And, if so, why

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have you kept the matter secret?" dear duke," said Mrs. Meason, "there has been no concealment because

tore open the letter and read: "My Darling Constance-Your letter there has been nothing to conceal. Lady Constance is not engaged, but she is the soul of honor, and until a short time ago she believed that she was bound by a foolish promise, given half jestingly in childhood. At one time she was thrown much into the society of her cousin, who has now gone to the war. She gave him soul of honor, and until a short time ago

ess him. The stranger puzzied He wore the dress of a beggar, yet his becupation was that of a gentleman. "Good morning, my friend," said Fev-eral, lightly. "I am in want of some in-formation which I hope you may be able and willing to give me." "Oh, you are, are you? Well, if you want information, you'd best seek it in the village. I ain't a spy or 'n informer."

"Precisely: I never suspected you of being either. I did, however, suspect you of being possessed of good manners, since you have the honor of being in the service of so very charming a lady as Lady Con-"Lady Constance! what may you know

"Very little, I must confess. I have merely seen her once, when she was walk-ing in the park with a friend of minehe Duke d'Azzeglio.'

The old man started, and stared stupid-"The Spanish duke a friend o' thine?" Now tell me, my friend, is the duke a resident here?" "No, he be only a visitor."

"His grace is a friend of Lady Constance? fuel is not given.

Jacob, with a peculiar smile. "They do say he be going to marry her." "Ah!"

"Lady Constance," said the duke, grave-"pray pardon me if I mention a sub-ect which may be a painful one to you. Feveral handed it to the ranger, who was highly pleased.

have heard that you are attached to your She did not answer him, but, with a hudder, she covered her eyes with he be obliged," and, with a pleasant "Good-day," he limped off to gather fresh infor-"May I ask," pursued the duke, quietly,

"If your cousin is a poor man?" "He is not rich," said Constance. "You are doubtless aware," said the

fuke, watching her quietly from between the half-closed lids of his eyes, "that I am rich beyond the desire of any man, and could easily spare half of my wealth, and will, if by so doing I can secure your

happiness." "I do not understand." girl; "you are the only one left me now. "I mean I will make your cousin a rich What is wealth to me? would it bring man, and then I suppose you would be ne happiness?

"Become his wife?-no, never. You do not understand, sir, when you talk like take your place in society by his side." that. I and my cousin can never be more than cousins-we can never be man and wife.'

"You do not wish to marry him?" "No, I do not wish it." The duke was about to reply when the

a letter for Lady Constance. One glance at it and the blood flowed back to her heart. It was from Frank Howarth. "Will you excuse mo?" she said, faintly. The duke bowed, and led her from the and deew the curtains. search; he must be there still."

On reaching her room a slight sound attracted her attention; she turned quick-My Daring Constance-Your letter has driven me mad. In heaven's name, what does it all mean? Not that you do not love me. I will never believe that. It. It was a letter with a stone attached



"Certhinly," replied Feveral, "though must confess we have not met for years.

"Ay, something of that sort," replied

The stranger's face, hitherto so pleasant and smiling, grew suddenly grave. The sketch of the lodge being finished.

"If you will grant me permission walk in the park now and again and make a few sketches from nature. I shall

mation in the village. Late that same night Lady Constance and her grandmother were alone in the

dining room at Avondale Castle. "Constance," said the old lady, "why are you so stubborn in this matter? The duke is a man of high family, and of enormous wealth. Were you his wife I could die in peace." "Ah! do not talk of dying," cried the

"Become his wife?-no, never. You do "If you have any love for your mother's The girl shuddered and covered her

nce. "You ask too much." she said. "Ah! grandmal" she cried suddenly, "what is that? I saw a man. He was standing

door opened and a servant entered with near the window, looking at us. I will

and drew the curtains. oom. Constance hurried to her boudoir.

(To be continued.)

the sun and the moon. Solid Petrolenm It is reported in Science that Monsleur De Humy, a French naval officer, has invented a process by which

petroleum can be converted into solid locks, as hard as anthracite coal. Common petroleum oil, it is asserted, has been thus solidified, and the blocks in burning, give off intense heat and are slowly consumed. One ton of solld petroleum used as fuel is said to be equivalent to thirty tons of coal. The comparative cost of the two forms of

#### Glant Plants on Mountains.

Recent explorers of the Caucasus Mountains have reported the existence there of a peculiar race of gigantic herbaceous plants growing at a height of nearly 6,000 feet above sea-level. Plants belonging to the same botanic families, but growing at the bottom of the valleys below, do not attain an extraordinary size. For instance, a species of campanula-our ordinary harebell is a campanula-grows only two feet high in the valleys, but on the mountains it reaches a height of six feet, and its stem becomes thick and rigid, like that of a small tree.

#### Armies on Icc.

Army engineers in various countries have calculated the thickness of ice necessary to sustain certain weights. Ice two inches thick is deemed strong enough to bear a man's weight, ac cording to a summary of the army rules on this subject published in "Engineering Mechanics," and on such Ice infantry may march if the distance between each man is properly spaced. lavalry and light field guns can cross four inches thick. Six-inch ice will sustain heavy field guns; eightinch ice artillery batteries with horses; and ten-inch ice "an army or an innumerable multitude." On fifteen-inch ice railroads have been laid and operaled for months at a time.

The Fluoroscope Mr. Thomas A. Edison has invented a apparatus, called the fluoroscope, the aid of which a surgeon, instead of photographing with the X rays the bones or other hard substances concealed under the skin and flesh of a patient, may actually see them.

erforms a similar feat, but this time, for the sake of variety, with a rifle bui-let. An English novelist, in describing river side people says, "They go to church but three times in their lives-when they are baptized, when they are The Eminent Divine's Sunday married, and when they are buried." It is only people in novels who go to be buried during their lives. Mr. Ridee Haggard, in his "King Solomon's Mines," made an eclipse of the moon take place at the new moon instead of at the full, when the earth is between

bows, and with little colls of rope, Old men and women, boys, and girls, all gathered closely about a covered

are filled during the night, and it is out of amiable consideration for those who love their morning nap that they are given as good a chance as their neighbors of getting an unsolled supply. It is the first instance that has ne to my notice of a commendable municipal restraint upon the reprehensible practice of early rising. found, on closer investigation, that the

water was of excellent quality.

Training the Human Body. By those who will exercise the rejuisite patience, the body and its various functions may be brought under perfect command. Even the vital fund tions of the body may be affected. There have been not a few exhibitors who could actually control the heart beat, making their pulses noticeably dower or faster according to their pleasure. The seemingly miraculous cats of acrobats are simply the results of continually placing particular sets of muscles under complete control of

REY. DR. TALMAGE. Sermon. Subject: "Bad Company."

TEXT: "Walk not thou in the way with them."-Proverbs 1., 15.

them."-Proverbs 1, 15. Hardly any young man goes to a place of dissipation alone. Each one is accompanied. No man goes to ruin alone. He always takes some one else with him. "May it please the court." said a convicted criminal when asked if he had anything to say before sentence of death was passed upon him.-"may it please the court, bad company has been my ruin. received the bleesing of zood parents and in return promised to avoid all evil associa-tions. Had I kept my promise I should have been saved this shame and been free from the load of guilt that hanses around me like a vulture; threatening to drag me to justice for crimes yet unrevealed. I who once movel in the first circles of society and have been to guest of distinguished public men an tost, and all through bad company." This is but one of the thousand proofs that evil associations blast and destroy. It is the invariable ruie. There is a well man in the wards of a hospital where there are a hundred people sick with ship fever, and he will not be so apt to take the discase as a good man would be apt to be smitten with moral distemper if shut up with iniquitous companions. In olden times prisoners were herided together in the same cell has acon companions. In olden times prisoners were herded together in the same cell, but each one learned the vices of all the culprits, so that instead of being reformed by incarcera-tion the day of liberation turned them out

tion the day of liberation turned them out upon society beasts, not men. We may, in our places of business, be com-peiled to talk to and mingle with bad men, but he who deliberately chooses to associate himse'f with vicious people is engaged in carrying on a courtship with a Delliah whose schears will elip off all the locks of his strength, and he will be tripped into perdi-tion. Sin is eatching, is infectious, is epi-demic. I will let you look over the millions of people now inhabiting the earth, and I challenge you to show me a good man who after one year has made choice and consorted with the wicked. A thousand dollars' re-ward for one such instance. I care not how strong your character may be. Go with ward for one such instance. I care not how strong your character may be. Go with the corrupt and you will become corrupt. Clan with burglars, and you will be-come a burglar. Go among the unclean, and you will become unclean. Many a young man has been destroyed by not appreciating this. He wakes up some morning in the great city and knows no forning in the great city and knows no some place where they ought not, the good water lily." And so, while the world plays, being man has invariably to pay the charges. At the moment the ticket is paid plays and never works. Look out for the man who always plays and never works.

<text>

Are you fond of pletures? If so, I will show you one of the works of an old master, Here it is: "I went by the field of the slothful and by the vineyard of the man void of

t devil tempts most men, but idlers tempt the devil."
A young man came to a man of ninety you make out so live so long and be so well?"
The old man took the youngster to an or chard, and pointing to some large trees when it of apples, said, "I planted these trees when it was a boy, and do you wonder that now it was not right. He was a defaulter for £37, "We gatter in old age what we plant in our youth. Sow to the wind, and we reap the whirdwind. Plant in carly life the right kind of a Christian character, and you will eat baselous fruit in old age and gather these trees."
Jurge you to avoid the perpetual pleaster soeker. I believe in recreation and amusement. God would not hate made us with the capacity to inaugh if He had not intended us sometimes to induge it. God bath hung

us sometimes to indulge it. God hath huns in sky and set in wave and printed on grass many a roundelay, but he who chooses pleas-ure seeking for his life work does not un derstand for what God mule him. Our 

cleaniness effected. The cat pays for the fragments it east by cleaning the house of vermin. The fly that takes the sweetness from the dregs of the cup compensates by purifying the air and keeping back the pestilence. But the gambler gives not any-thing for that which he takes. I recall that instance the descent as a return but it is fai and by the vineyard of the man void of understanding, and lo! it was all grown over with thorns, and nettles had covered the face thereof, and the stone wall was broken down Then I saw and considered well. I looked upon it and received instruction. Yet a lit-tie sleep, a little sumber, a little folding of the hands to sleep. So shall thy poverty come as one that traveleth and thy want at an armed man." I don't know of another sentence in the Bible more explosive than that. It first kisses softly, like the face of a cannon, and at last bursts like a fifty-four pounder. The old proverb was right, "The t devil tempts most men, but idlers tempt the devil." A young man came to a man of ninety years of age and said to him, "How have

The whole world is robbed. What is most and, there are no consolutions for the loss and suffering entailed by gaming. If men fail in lawful business, God pittes and society commiserates, but where in the Bible

of muscles under complete control of the will. We should do well to try to appreciate how important, to our phys-ical being at least, the gaining of a complete control over bodies may be. The student who has before him a dif-ficult passage or problem must, if he would succeed, exercise sufficient will have to relevant to the booken in," and they imme-diately proceed to break him in. Young man, to break him in. Young man to be break him in. Young man to be break him in. Young man to be would to avoid those whose state, he came down from the saloon and go a-boating. All these sports are grand in the suber the saloon and regular business it is to play ball, skare or go a-boating. All these sports are grand in the suber playes. In over derived so much ad vantage from any ministerial association as from a ministerial cluo that went out to play ball every Saturday afternoon in the out skirts of Phinadelphin, These recreations are grand to give is musclish that solute proceed to break him in. Young man to be acceled to break him in the owne our regular foil. I believe in musclish that solute proceed to break him the break in the solute the suber of the saloon and go a-boating. All these selected is a more derived so much ad vantage from any ministerial cluo that went out to play ball every Saturday afternoon in the out-skirts of Phinadelphin, and spirits for our regular foil. I believe in musclish the play is an in sonial to the saloon and point of the saloon and provide a grand to give in strate for the saloon and spirits for our regular foil. I believe in musclish that solute? What gambler subscribed would succeed, exercise sufficient will force to place everything else in his mind second to the task before him. It is much the same in our daily life. Mul-is much the same in our daily life. Mul-titudes of petty things tend to make us forget our purpose in living, and if we are to rise above them, we must remember to unburden our minds of the "worries" that we may have room for the "realities." We must shun ex-citement of every kind. We must live an even, temperate life; and we chan do this easily enough if we have gained perfect control over ourselves. we not the stand the skeptie—the yours the grand undustries of Church and State. Twarn you to shun the skeptie—the yours other innocent sport. I claim them all as belonging of right to those of us who toll in the grand industries of Church and State. But the life business of pleasure seeking always makes in the ond a criminal or a sot. George Brummel was smiled upon by all England, and his life was given to pleasure. He danced with the peeresses and swung I warning to young men and say, "Boware of elionging of right to those of us who to it is more a served by the housest men who have come served by the housest men who have come into the pay, and this assounts for the fact is the grand industries of thurch and it is that industries of thurch and it is assounts for the fact is that industries of thurch and it is assounts of the house that the out of a hundred who gamble, have assound by and its is that assound its is the wast assound to be post, miserable, hag-hag-hag adding fabre and motter, but I have to the industries of thurch and its is assound to be post, miserable is and wong if or our it. They will the it post as an event by the housest men will, by their sease and event it is assound to sound it is assound to sound it is assound to be adding fabre and motter, but I have to the there is and wong if or over it is and hub it is wast as and sound it. There and event is assound to sound it is assound to sound it is assound to be adding fabre and motter. I have a sound it is assound the assound it is assound to sound it is assound to be adding fabre and indication. They will tell you may be able to look back to none which was the stands over the outher of its as and sound it. These is and wong if a sub adding the stands work is assound to be adding the stands work is assound to be adding the stands work is an event is assound to be adding the sound is into was assound its is the sound is into was assound the assound is is assound the sound is assound the assound is assound the assound is is asso to hiss and, uncoil with the adders of an eternal poison. Again, avoid as you would avoid the death of your body, mind and soul any one who has in him the gambling spirit. Men who want to gamble will find places just suited to their capacity, not only in the under-ground oyster cellar or at the table back of the curtain covered with greasy cards, or in the steamboat smoking eabin, where the bloated wretch with rings in his ears deals but his pack and winks at the unsuspecting traveler-providing free drinks all around -but in glided parlors and amid gorgeous surroundings. This sin works ruin, first, by unhealthful to the steamboat in every age men have This sin works ruin, first, by unhealthful stimulants. Excitement is pleasurable, Under every sky and in every age men have iought it. The Chinaman gets it by smok-ing his optum, the Persian by chewing has-heesh, the trapper in a buffalo hunt, the sailor in a squall, the inebriate in the bottle and the avariclous at the gaming table. We must at times have excitement. A thousand volces in our nature demand it. It is right. It is healthful. It is inspiring. It is a de-dre God riven. But nurthing that first such accept the invitation to a better feast. The promises of God are the fruits. The harps of heaven are the music. Clusters from the vineyards of God have been pressed into tankards. The sons and daughters of the Lord Almighty are the guests. While the Lord Amignity are the guests. While standing at the baquet to fill the curs, and divide the clusters, and command the harps, and welcome the guests, is a daughter of God on whose brow are the blossoms of para-dise and in whose check is the flush of celes-tial summer. Her name is Religion. size God given. But anything that first gratifles this appetite and huris it back in a certific reaction is deplorable and wicked. Look out for the agitation that like a rough that first

### A Public Reservoir I saw an interesting sight while in Venice. Entering a little square shut in by high houses, and, like most Vene-tian squares, dominated by the unfinished facade of a time-stained church I noticed a singular activity among the people. They were scurrying in from every alley, and hastening from every house door, with odd-shape copper buckets on hook-ended woode

well curb in the middle of the square; and still they hurried on, until they stood a dozen deep around it. Pres ently the clock in the church tower slowly struck 8, and a little man forced

his way through the crowd passed his ponderous iron key through the lid, and unlocked the well. There immediately ensued a scene great activity. The kettles went jangling into it, and came slopping out again at an amazing rate, and the people trudged off home, each with a pair of them swung from each should der. The wells are deep cisterns, which

ALLS of primise, which she now marry the Duke d'Azzeglio door of Avondalo Castle If I am to los you, perhaps heaven will be merciful and Having once aroused the duke's curl-

osity and gained his car, Mrs. Meason continued to talk to him confidentially. be sure that I shall come to you, and ask When she left she had extracted from him a promise to call personally at Avon-dale Castle and inquire for Lady Constance. The duke accompanied her to the carriage, and, with a sinister expression eyes; the next day she went out to walk in Avondale Park. She had not proceed ed far when she was startled by a sudden apon his face, watched it roll away. "She hates these Howarths," he said,

and although she does not love me, she rustling of the boughs. She looked about her; the sound of footsteps fell upon her wishes to have me for her grandson. It ear; a figure approached her; it was the

wienes to have me for her grandson. It will answer my purpose to fall in with her wishes in this case. Let me see; there was a story about Mrs. Meason and the Howarths. What was it? I must Duke d'Azzeglio, "I was on my way to the Castle," said the duke, taking her hand, "when I saw

He returned to his room, touched a lowed. I have something to say to you small hand-bell which stood upon his Lady Constance; shall I say it now, of table, and his Spanish servant answered. fer it till some future time?" The duke spoke rapidly in Spanish. In "As you please." "Then I will say it now. Last night less than a week from that day he was fully aware of the true story of the life and death of the young Countess of Harafter you had retired, I spoke for a while with Mrs. Meason. I told her you were pale and sad, and needed change. She

rington. "The old lady is dangerous," he said agreed with me; a change to Spain might to himself when he was fully acquainted with the true facts of the case; "but she be beneficial; therefore, I place my hous entirely at your disposal. Only say ye cannot be dangerous to me. I know her and I will bid my servants prepare as

for the reception of a queen." He spoke eagerly and quickly, and fixe -that is enough." After her interview with the duke, Mrs. Meason was in a more contented frame of mind. She went without warning of his dark eyes upon her with a strange piercing glance. The girl shook her head. any kind to her granddaughter's room. Lady Constance was alone sitting in an easy chair with her lap full of her cou-"You are good," she said, "but I would ather remain at Avondale." "For why-to be tortured daily, hourd sin's letters. by sights and memories which

our heart and make your young life pu "Child, child, why are you grieving like ratory? You were not born to waste yo this?" said Mrs. Meason, softly; "are these people to blight your life as they blighted the life of my child? Can you life in solitude; you were made to rule as surely as a star in heaven is made to not forget this man?" "No, I cannot," cried the poor girl; "7 "Pray do not speak so if we are to re

· CHAPTER IX.

main friends. shall never forget him." "Then if you cannot forget him, marry

The girl threw up her hands in terror.

The girl threw up her hands in terror. "I cannot," she said; "not now. When-ever I think of it I see my mother gazing at me with sad, reproachful eyes, and I know if I married Frank she would al-ways gaze at me so; I should never get rest or peace, never. I wish, ob, how I with you had never sucken! It would to let me do either." things which even a friend cannot under wish you had never spoken! It would have been better, I am sure; then I might

have had some happiness. I shall never duke. have it now." "My darling, it is of you I am thinking walk with you back to the Castle?

Do not shrink from me; it is cruel. All I have done I have done for your sake; reer that." When she had gone Constance sat m

aless for fully half an hour. Then went to her writing table, and sat the retreating figure of the duke. down to write. "I know now," she wrote, "that I can

never become your wife. Try to forget me. It would have been better for us both I we had never met. Do not think that I am writing a hasty decision. I have reted well, and I pray that we may never CONSTANCE." most again. CONSTANCE." Having written this, she placed it in an envelope and addressed it to Captain Ho-warth. Then she sat down, kissed the letters which she had in her lap, and place letters which she had in her lap.

d them one by one in the fire.

CHAPTER VIIL The summer months had completely passed away; autumn was well advanced. ret the family still lingered at Avondale Castle. The duke was again a constant visitor at Avondale Castle; indeed, his visit was looked for with pleasure by all, including Lady Constance bergelf.

At first, knowing what had passed, she had shrank from meeting the duke. Af-ter their first interview, however, her an-

# ess vanished; the duke was so cour

Barness vanished, the day, "I once did the said to him one day, "I once did fou a wrong-in thought. I ask your four a wrong of the solution of the solution of you would not be so forgiving, so ind to me."

The duke looked at her. She was sib the moonlight was streaming

let the next bullet lay me low; if I escape be sure that I shall come to you, and ask News in Brief. pity's sake, my Constance, write to me and tell me I have had a horrible dream. "FRANK." -Germany has a steel flywheel. All that night she scarcely closed her -There is only one sudden death

mong women to eighty among men. -Dr. F. Shue says there are forty

varieties of edible turtles in the United itates. --- Harvard College has discovered

fourteen new variable stars of long ou coming toward the park, and folperiod. -Hong Kong ranks fourth among

the world's great ports. The annual value of the trade is estimated at \$200, 300. -Mexico is a good market for us

Dur exports to that country last year were \$130,000,000 in excess of those of 1894.

-A bill has been introduced into Congress for the construction of cruisers in which electricity will be used as

power. -Australia has furnished more crimes and disasters this year than in any previous year for over a quarter of a century.

-Fashion, although it makes abject slaves of most of its votaries, has done as much to civilize the world as the catechism has.

-The planet Mars resembles the earth more closely than any other of the s lar systems that we know any-"My child," he said, "what you offer thing about.

ne is not friendship. The office of a friend is a sacred one, and means much. A friend should console and help; you refuse -A doctor has discovered that the heavy hats worn by women are responsible for some recent vagaries of "Because I cannot. There are certai the feminine mind.

---Dr. Peters, the African explorer, is stand, and sorrows which cannot be shar-ed. You offer to be my friend. I will about to undertake a new exploration accept your offer, if you will not demand a confidence I cannot give." "I accept the condition." replied the of Somaliland under the auspices of number of wealthy Americans. -The Pennsylvania has introduced "And now, Lady Constance, may an economical innovation on its Southwest system by having the fires on all its locomotives started with crude She bowed, and they passed on, keepin to the avenue of beech trees. Scarcely had they gone a hundred yards oil.

-According to Sir Benjamin Richwhen a man emerged from the shadow of the trees and stood fixing his eyes upo urdson, the normal period of human life is about 110 years, and seven out of The stranger was a middle-aged mit ten average people ought to attain that

evidently a gentleman, though his clothes vere ragged and travel-stained; and whe age. he moved he limped, as if his feet were -In a recent magazine article John blistered with the wornout shoes he wore. "So," he said, "I have found my gentle-man at last! May imprudence dance at-Morley says: "There are probably not six Englishmen over fifty whose lives need to be written or should be writendance on revenge, and to aid my pur-ose! I have waited patiently for years. ten.'

I have crossed the world in pursuit of him; I have followed him from hand to land, and now we are to meet! Keep -Young man don't forget that the world is watching you, and most of us are more ready to charge your account calm, Feveral, keep calm. Let me se with something had than something what am I? An artist, and for the presrood

not am 11 An artist, and for the pres mt, at least, I must follow my vocation. To begin with, I think I will sketch the Ranger's Lodge-make a few inquiries, then wait for a chance to send me-the -Roughness is a needles cause of liscontent. Severity breedeth fear, but roughness breedeth hate. Even reproof from authority ought to be grave, and not taunting.

The proposed railway up the Jung-Mr. Feveral, as he styled himself, con finued to walk in a desultory limping frau, Switzerland, will be 12.3 kilo-meters long, and will cost \$,000,000 fashion toward the Ranger's Lodge, rancs. To pay, it would have to carry wretty little building set on the borders 17,000 passengers a year. of Avondale rark. He paused before it;

then he felt in his coat pocket, produced a pencil and drawing book, and began to sketch the lodge. As he had antici--The total amount of the fortune of the Bothschild family is now put at \$2,000,000,000. pated, an out-at-elbows artist soon at-

racted attention, the door of the lodge -Liquid air is now an article of compened and the ranger appeared. merce, and is expected to prove of value The ranger was an old man, very short not only for refrigeration, but as a and very wizened, but with a i.een eye source of oxygen. Nitrogen is elimina-The duke looked at her. She the oper and very wizened, but will a local a ted until the product contains 70 per-ting in a large armchair near the oper and plenty of shrewd sense. Seeing a ted until the product contains 70 per-tindew, the moonlight was streaming in transer at his door, he came out to ad-

mon the fact that the X rays possess the property of rendering luminous certain substances, which chemists call fluorescent, Mr. Edison first determined, by experiment, that the best fuorescent substance for this purpose was calcium tungstate. The tungstate is spread in a smooth layer upon a piece of pasteboard which forms the bottom of a small box, having holes for the eyes at the upper end. A

Crookes tube, enclosed in another box. is excited by a current of electricity and if the hand, fer instance, is to be eramined, it is placed upon the box containing the tube. The observer then looks into the viewing box, whose tungstate-covered bottom is placed directly above the hand, and sees, with startling distinctness, the bones and toints, showing as dark and delicately graduated shadows, while the flesh is only faintly visible. The reason the bones appear is because they intercept the X rays, and thus prevent the

tungstate surface from becoming fluorescent where their shadows fall. The Banners of the Sun.

The expedition which will go from the Lick Observatory to observe the eclipse of the sun in Japan next August will carry a novel photographic machine to picture the great coronal streamers that are seen around the sun when its globe is hidden behind the moon. The sun's corona has been photographed during previous eclipses, but as its light is much stronger near the sun than at a greater distance, the photographs have invariably been overexposed for the brighter part of the phenomenon when so timed as to catch the image of the fainter parts; and, conversely, the outer portions of the streamers have been lost in the photographs when the exposure has been vine. It was his last effort made short enough to give a good im-

age of the bright inner portion. Mr. Burckhalter, of the Chabot Observa-tory, Oakland, who will accompany the expedition referred to, thinks he has contrived a machine that will equalize the exposure for all parts of the corona, and thus enable him to get a perfect photograph of the wonderful display around the sun during the eclipse. The principal feature of his invention is a rotating diaphragm, driven by clockwork and provided with a peculiarly shaped hole for the passage of the light, whereby the faint outer part of the corona will get a much longer exposure than the brill-

lant inner part.

#### Astonishing Statements

A certain woman novelist writes so amusing a fashion that the many blunders which mar her work are not discovered by the critical. In one of her novels will be found a horse win ning the Derby three years in succes sion; guardsmen sitting up all nigh drinking hard, smoking perfumed cigarettes, gambling for fabulous sums and starting forth in the morning after breakfast of ortolans and green Chartreuse, fresh as datsles and prepared to do deeds of prowess in the hunting field or at the covert side; and that great feat, too, performed by a man with a "tawny mustache and flanks like a greyhound," who, while snipe shooting, espies an eagle, " a dim speck in the ethereal vault." What cares he that his cartridges only contain tiny snipe shot? He bangs away with unerring aim, and "slowly the king of birds, with his glorious pinions outstretched, sinks at his feet a corpse." In another of her books a gent

Not Quite Correct.

In telling a joke, it is well to under stand it thoroughly. A party of men were wont to amuse themselves a table by relating anecdotes, conun drums, etc. Mr. Archer was always reatly delighted at these jokes, but never related anything himself, and being rallied on the matter, he determined that the next time he was called mon he would say something amusing. Accordingly, meeting one of the waiters soon afterward, he asked him if he knew any good jokes or conundrums The waiter immediately related the

following: "It is my father's child, and my mother's child, yet it is not my sister or brother," telling him at the same time that it was himself. Mr. Archer bore this in mind, and at the next meeting of his friends propounded it. "It is my father's child, and my mother's child, yet it is not my sister or brother," throwing a triumphant clance around the table. "Then it must e yourself," said one of the company. "I've got you now," said he; "you are wrong this time; it is the waiter." A shout of laughter interrupted Archer, who perceiving the mess he had got into, acknowledged his error, and told he company that he would pay for the

Where the Snake Boards.

The prairie marmot and the burowing owl come into neighborly contact with the rattlesnake, but the acquaintance does not quite amount to friendship. The prairie matmot takes a lot of trouble and builds a nice burrow, and then the owl, who is only a slovenly sort of architect himself, comes along and during basiness hours. Nothing would takes apartments. It has never been put encounce four occupation and associate with them. guite settled whether or not the study of the time they lounge around the puite settled whether or not the lodger and the landlord agree puite settled whether or not the lodger and the landlord agree pleasantiy together, but in the ab-sence of any positive evidence they may be given credit for perfet a min-bility, because nobody has found traces of owi in a dead marmot's in-terior, nor of marmot in an owi's. But the rattlesnake is another th nz. He waits till the residence has been made perfectly comfortable, and then he comes in himself, not in the friendly capacity of a lodger, but as a sort of unholly writter—a scaly man in possession. He eats the marmot's

in possession. He eats the marmot's I family and perhaps the marmot himself, carling himself up comfortably in the be-t part of the drawing-room. The owl and his belongings h leaves severely alone, but whether from a doubt as to the legality of distraining upon the goods of a lodger, or from a certainty as to the lodger's goods including claws and a beak, naturalists do not say. Personally I ncline very much to the claw and beak theory, having seen an owl kill a snake in a very neat and workmanlike manner, and indeed the rattlesnake sometimes catches a Tartar even in the marmot.

warning to young men and say, "Beware of evil companions." I warn you to shun the skeptic—the young

to live. I want your soul." The dying man says: "Don't breathe that cold air into my face. You crowd me too bard. It is getting dark in the room. O, God?" "Hush," says Death. "You said there was no God." "Pray for me," exclaims the expiring infidel, "Too late to pray," says Death. "But three more seconds to live, and I will count them off—oue, two, three!" He has gonel Where? Where? Carry him out and bury him beside his father and mother, who died while hold-ing fast the Christian religion. They died singing, but the young infidel only said: "Don't breathe that cold air into my jace. You crowd me too hard. It is getting dark in the room."

in the room." Again, I urge you to shun the companionship of idlers. There are men hanging around every store and office and shop who have nothing to do, or act as if they had not.

> musician in bringing out the tune plays at and he breaks down the instrument. God never made man strong enough to en-dure the wear and tear of gambling exditement. No wonder if, after having failed in the game, men have begun to sweep of imaginary gold from the side of the table The man was sharp enough when he started

at the game, but a maniae at the close, A avery gaming table sit on one side cestasy enthusiason, romance-the irenzy of joy, of the other side, flerceness, rage, tumuit. Th time, but his touch is death. Before you inow it you will in his presence be ashamed of you twork dress. Business will become o you drudgery, and after awhile you will one your place, and after awhile you will one your place, and after ward your respect-ibility, and last of all your soul. Idieness a next door to villainy. Thieves, gamblers, purglars, shoplifters and assassins are made rom the class who have nothing to do. When the police go to hunt up and arrest a suprit, they seldom go to look in at the busy carriage factory or behind the counter where diligent clerks are employed, but they go mong the grouns of idiar. The alay is gro-fng on at the theatre, when suddenly there is a scuffle in the top gallery. What is it A policeman has come in, and leaning over has tapped on the shoulder of a young man saying, "I want you, sir." He has not worked Luring the day, but somehow has raked together a shilling or two to get into the top gallery. He is an idler. The man on his right hand is an idler. professional gamester schools himself into apparent quietness. The keepers of gamb-ting rooms are generally fat, rollicking and ing rooms are generally fat, rollicking and phese, but thorough and professional gam-blers, in nins cases out of ten, are pale, thin, wheezy, treimulous and exhausted. A young man, having suddenly inherited a large property, sits at the hazard tables and takes up in a dice box the estate won by a father's lifetime sweat and shakes it and tosses it away. Intemperance soon stigma-izes its victim, kloking him out, a slavering fool, into the ditch, or sending him, with the drunkard's hiccoughs, staggering up the street where his family lives. But gambling foos not in that way expose its victims. The street where his family lives. But gambling does not in that way expose its victims. The gambler may be eaten up by the gambler's passion, yet you only discover by the greed in his eyes, the hardness of his features, the nervous restlesances, the threadbare coat and his embarrased business. Yet he is on the road to hell, and no preacher's volce or starling warning or wile's surresty can

In some way the man you hate al ways manages to become acquainted with the girl you like best.

There is room to question the genninences of that charity which expends \$10 m order to give \$1 to the poor. We sometimes pray for more grace,

when what we need is more grit. Do right yourself, and you will help

True happiness ne'er er tered an eye; true happiness resides in things un

There are but three classes of me -the retrograde, the stationary and the progressive.

It is not kind to say disagreeable things when to do so is unnecessary. It's a gross-grained wife that will

Sunshine is a flower maker, smiles nake the blossoms of the sou'.

Wanting to do right will amount to

Our trials do not weaken us. They only show us that we are weak.

some other man to behave himsel'. seen.

cold in a new bonnet.

little, unless we decide to do it.