

suits obtained by Professor Holden, who in the last twelvemonth, it would appear, has earned \$10,000,000 for the mers of lowa. This rather astounding feat has been accomplished without mystery or jugglery of any description. and the machinery employed has been so simple that the merest tyro in farming cannot plead ignorance.

For several years the great corn producing plain east of the Mississippi had been showing a decided decline both in the quantity and quality of its leading product. This degenerative process was so unmistakable that the farmers of the belt were becoming disheartened. This was especially true of lowa, which had long stood at the head of the list as a corn producing state. Almost as a last resort the farmers of that state appealed to science for re-. lief. Their urgent demand for aid led | in the hundreds. to the engagement of Professor Holden

by the state agricultural college. The corn growers were rather skeptical as to the results likely to be brought about by a man who bore such title as agronomist, but they were willing in their strait to listen to anybody and to make a trial of any remedy. The new wonder worker began his evangel of corn by convincing his aurs that he actually knew more about the business than any of them. His ini-

fessor Holden delivered brief and telling lectures to the farmers who awaited him at every stopping place. In this way he visited from fifteen to twenty rural centers every day, and his audiences in most of them ranged well up The professor did not employ many scientific terms, but clothed his ideas

PROP.

P.G.

HOLDEN

on corn growing in language which could not fail to be understood. He explained all the advanced knowledge which had been determined by experiment and admonished the farmers that they had only to open their eyes to see for themselves. He laid special stress upon the selection of seed. To illus-trate how much depended upon this point he exhibited seed corn of all vatial campaign was one of education. rieties and stages of perfection and for a month at a time he traveled over pointed out that which was to be avoid-

the corn growing section of the state | ed and that which would produce sat-



It Contained Fifteen Months Instead of Twelve.

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HE first of the new year is an ap- , ing their letters in November when they

The first of the new year is an appropriate time to recall the remarkable story of the longest year in the world's history, a year that contained fifteen months. The original cause that led up to this was an early attempt to adjust the lungr month in their relation to the solar most soldier. Julius Caesar, was able to take the matter in hand. Among the many honors received by this conqueror was the office of Pontifex Maximus, and as head of the priestly college matrix says the New York Post. Twelve revolutions of the moon take 354 days, accustomed vigor. To imagine a mod-ern parallel we should have to suppose someone like Napoleon, on his elevation to the consulship, or Gen. Grant fresh from the Civil war and his election to the presidency, undertaking to correct a confusion in the calendar due to the manipulations of politicians. * Caesar called in the aid of Sosigenes Caesar called in the aid of Soslgenes, an Alexandrian astronomer, to rectify the error and prevent it for the future. It was in the year of Rome 708-46 B. C. according to our reckoning, that the revision took place. It is said, al-though this point is not quite certain, that Caesar intended to fix the first of January in the following year 709 (B. C. 45) on the winter solstice, the shortest day in the year. This ar-rangement would have been as nearly perfect as possible, far superior to that which we observe, in which New Year which we observe, in which New Year falls some ten days after the solstice, and has no reference to anything of a natural character. If Caesar had taken the shortest day for the first of January, he would have had a definitely fixed landmark indicated by the movement of the earth itself as pre-eminent-ly the correct point of time for this event. For the sun sinks daily and the days become shorter until Decem-ber 21 or 22, when, as if new born, the sun begins again to mount the heavens and the days begin to leagther. and the days begin to lengthen.

CULTIVATED UNDER THE HOLDEN SYSTEM THE SCANDAL OF THE NEW YORK POLICE FORCE.



COLTIVATED UNDER THE OLD SYSTEM

with a third part of the increase. The evidence in his favor is indisputable. ter of sufficient importance to warrant him in proceeding further in his invesigations. He abandoned schoolteaching and gave himself up to the perfec-tion of his system. In time his fame tour of education raised more corn than the others. Those in which he had spread, and he was offered the managethe largest audiences did best of all nent of a 25,000 acre farm in Illinois. Iowa is proud of her agronomist, and The salary tendered him was so allurshe has reason to be ing that he accepted. Besides, it was

the opportunity he had sought to establish the accuracy of his deductions. The first year of his superintendency

A LONG STAIRWAY. he planted 20,000 acres of corn, and Among the staircases the world over none, it is safe to say, is so long or difwhen it was harvested it was found that there were over 100,000 bushels ficult of ascent as "Jacob's ladder." nore than the same land had ever pro-This remarkable flight contains more duced. More than that, the average than 700 steps, all rising with the same lift in the same direction. The steps quality of the grain was greatly imwas not likely to pass unnoticed. The grees. "Jacob's ladder" ascends a particularly steep hill at St. Helena. directors of the Iowa State Agricultural The college were on the lookout for a man steps are naturally the most direct route to the summit of the hill and, dewho was engaged in experimental research along the line adopted by Hol- spite their great length, are traversed years will occur in the twentieth centulen, and he was offered the chair of agronomy in the institution. This was are said to be many persons who from and every fourth year following up to a new departure in the school, and the long practice are able to ascend the chair was created especially for Professor Holden. He did not like to give once stopping for breath.

continues to make thousands of victims | ties on the market only in driblets. The France and hecatombs in her col-les. Such is the gist of Dr. Lowenthal's article, and it cannot be said that he is inclined to be unduly pes-simistic.--London Telegraph.

THE SUPPLY OF IVORY.

During a recent visit to the London docks, her majesty, the queen, was in-formed that the stock of ivory then formed that the stock of ivory then shown represented on an average, the annual slaughter of some 20,000 African elephants. This statement has been contradicted in two letters in the daily papers. In one of these Messrs, Hale of 10 Fenchurch avenue stated that at least 85 per cent of the supply is "dead ivory," mainly obtained from hoarded stores of African chiefs, who are shrewd enough to put their commodi-

most interesting part of the letter is, however, the statement that the great bulk of this hourded ivory is obtained from "elephant cemeteries"—spots met with here and there in the jungle, where elephants have resorted for cen-turies to die. Much of the ivory that comes to the market may, therefore, according to this letter, be several hundred years old. The marvel is why it is not devoured in the jungles by porcupines, as certainly happens with tusks of the Indian elephant which are left in the jungle .- Scientific News

CHARLES SAMUELS.

MUSIC TEACHERS.

All who desire to consult the list of the representative professers and music teachers of Salt Lake should read the "Musicians' Directory" in the Saturday "News."



which a man bearing heavy weights is mounted and walks across the stage several times with her heavy burden. It is a feat that no male athlete has thus far succeeded in mastering. Miss Bell is rather a fragile looking woman, and there is no outward indication of the inimense power stored in her maxilluries. She performs the feat with apparent ease and manifests no sign of subsequent fatigue.

COMING LEAP YEARS.

The greatest possible number of leap daily by hundreds of wayfarers. There ry, the year 1904 being the first one Sundays-in 1920, 1948, 1976.



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evolutions of the moon take 354 days, about eleven days less than a true year. The ancients tried at first to correct this by insc ting, generally every other year, a special intercalary month, just as we do an additional day in leap year. In the Roman calendar, from which our own has descended, these corrections were always made at the end of the year. The earliest Roman year began in March, as we see by the numerical latin names of several of our months -September (seven), October (eight), November (inne), December (ten)-and we still add our intercalary day in jeap just before the ancient New

Tear's day. In time the months dropped their lunar character and became of irregular length, varying from thirty-one days in March to twenty-eight in February. The year had 355 days, some ten days less than a true year. Later on the first of January became both the New f January became both the Aver Year and the inauguration day of the Roman consuls. These chief magis-Tear and the inauguration day of the Roman consuls. These chief magis-irates of the Roman republic, unlike our presidents, were elected annually, to that inauguration day then was more important than it is at Washing-ton, since it was actually the beginning of a hew official are such accurated and of a new official or civil year each first of January. The intercalary month was, however, still inserted between Was, nowever, shill inserted between February and March, according to an-cient custom. The Insertion of the in-tercalary months and all matters per-taining to the calendar rested in ancient Rome with the colege of pontiffs, which formed the supreme priestly which formed the supreme priestly council, the proper observance of the festivals of the gods and other sacred days coming especially within the do-main of religion. But the pontiffs, with their chief, the Pontifex Maximus, were the other, the Pontifex Maximus, were too often dominated by political considerations. In early times they were chosen exclusively from the patri-cian families. Their privilege of in-serting or omitting the intercalary month gave them eases fulfied sering or omliting the intercalary month gave them great political power, which, politician like, they used to the stvantage of their own party and the injury of the plebelans. On personal grounds they capriciously lengthened the year when their friends held the chief magistracy and shortened it when the opposition had office. the opposition held office.

AHEAD OF THE TIME.

This practise at length involved the alendar in such confusion that in talendar in such confusion that in Cleero's day it was three months ahead of true time. Thus the first of May fell in bleak, wintry weather at what was properly about the first of Febru-ery, while the first of January came in the fall season at what is now the be-siming of October. The ancient Ro-mans had to endure the irony of dat-

IS YOUR BOY A DRUNKARD? Help Him by Orrine to Overcome His Craving. Can be Given Secretly.

y or husband has fallen a drink habit, endangering his happiness and prosperity, do not a moment in helping him to over-his craving for arink. Will-power cannot cure the liquor habit, for renness is a disease and the desire quor must be satisfied. delay como

THE SUN'S BIRTHDAY.

The Roman name for this time was "Natalis solis invicti" (the birthday of the unconquered sun.) when the lum-inary's decime was changed into a fresh accession. It is one of the greatest misfortunes of the calendar that this change was not carried out. But the story goes that about 10 days later than the solstice there was a new moon, which was the starting point of the ancient lunar months. It was still looked upon as a good augury for a month to begin on the new moon, and it was desired that the year 709, the open-ing year of Caesar's new calendar, should be inaugurated under circum-stances that would be auspicious and command the change to public approval, it was determined that the following January I should be on the day of the The Roman name for this time wa fanuary 1 should be on the day of the new moon. But as the new moon would come at different dates in other years, the good augury for that one year was secured at the loss of a far

year was secured at the loss of a far more important consideration for all fu-ture time. So our New Year is close to the shortest day, but not on it, and derives its present arbitrary position, according to this story, from the new moon happening to fail on that day in the year B. C. 45. But, apart from this, the straighten-ing out of the calendar was admirably managed. The undoing of the tangle was a serious matter and made the

managed. The undoing of the tangle was a scribus matter and made the year B. C. 46 forever memorable. The first of January fell as we have seen, about three months too soon--that is, in the pleasant autumnal weather shortly after, the vintage days, that were properly in the early part of October. The year was allowed to run on until toward the close of February, when the intercalary month was in-serted at the usual place. This added 23 days to the year, but did not suf-fice. The calendar was still two months fice. The calendar was still two months out, and the first of March was giving Rome the weather of Christmas. So at the end of November (which came at what is now the end of September), two more months were inserted, con-

Police Commissioner McAdoo made his first public statement, a reply to open criticism, a few days ago. Mr. McAdoo says he has repeatedly instructed the police that all laws must be enforced honestly and impartially. He declares that much of the recent criticism is due to a desire to defeat the present city administration at the next election. Mr. McAdoo states that he will not be the party to stir any strife between the police department and the district attorney's office.

days, or 15 months. The year extended, | after the fall of the empire. In 1582 days, or is months. The year extended, according to our present reckoning, from the beginning of October to 12 months following the next Dec. 31. This started the year of Rome 709 (B. C. 45) at the time at which our years now commence. commence, YEAR OF CONFUSION.

This remarkable year was scoffingly called "the year of confusion," but Ma-crobius correctly says that it should rather be called "the last year of con-fusion." The strong measures that had to be taken were necessary if order was to be restored and the months once again placed in their old, time-henored scasons.

time-honored scasons. But all Caesar's changes were not yet carried out. The year had still 355 days, and this was 10% days too short. It was determined to avoid in future the insertion of an intercalary month. The old experience with this arrange-ment had been sufficiently unfortunate. So the year was raised to its present length of 365 days, and thus made a solar year by adding two days each to January, Sextills, and December, and one day each to April, June, September and November, the quarter over being ndjusted by the insertion of an extra day every four years at the end of February. Our insertion of this day at the ancient termination of the year is now our only remainder of the one-time insertion there of a whole month. In this way was the great soldier's In this way was the great soldier's work carried out and the system of chronology established that we practic-ally use today. It was an appropriate tribute when Augustus changed the name of the month when Caesar was born, so that we have a reminder of this in the name of Julius (July) in

after the fall of the empire. In 1582 Pope Gregory XIII made the necessary corrections by ordering that the day after the fourth of October should be called the 15th, and to guard against the error in the future it was ordered that the year completing each century should not be a leap year except at every fourth century. This is why the year 1900 was an ordinary year, and not a leap year. Protestant prejudices held out for some time, but gradually the Gergorian calendar was adopted by all Christian countries except Russia, so that the west uses the Gregorian and Russia the Julian calendar. In Russia Russia the Julian calendar. In Russia the year 1900 took an additional day as leap year, and the calendar of that country is now 13 days different from ours, that is, from the year as it stood just after Cadear's revison. Jan, 1 with us is Dec. 19 in Russia.



DP. JAMES E. TALMAGE.

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UNHAPPY FRANCE. Dr. Lowenthal, who is a member of

the commission which is investigating the causes of the shrinkage in census the causes of the shrinkage in census returns, is not exaggerating when he says in a recent article that "alcohoi-ism alone is killing France." Tuber-culosis, he continues, which of all dis-eases is the most easily avoided, is raging in France with more violence than any other country in the world. Every year it kills more than 150,000 victims, and contaminates more than The construction of the set of the set of the desire of the the world of the set of the



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