POPULAR SCIENCE NOTES.

Several Russian explorations to Central Asia are sanctioned for the coming summer. Among others, Messrs Ignatieff and Kras now are to explore the Kahn Tegri Mountains, which are little known. The Khan Tegri Mountains are at the western end of the Tian Shan and are full of glaziers.

The skull resists the ravages of time better than any other bone, and the reason for it is a question which puzzles naturalists. The fact has been noted on opening the graves of mound build ers' while the skulls of buffalo, elk and other animals on the western plains are in a fair state of preservation long after the other bones have entirely decayed.

A French physician asserts that he has discovered a soporific whose effects can be exactly limited to the time required. This, will, he says, enable travellers to sleep comfortably and confident ly during a journey. He measured his doses by miles. Thus you can take a fifty mile dose before starting on a railway journey, and open your eyes, pleas. antly refreshed, at your proper station,

Considerable interest attaches to the results attained by various American and foreign scientists in their attempts to ascertain, by careful and prolonged observations, the daily increase of the earth's mass from the falling upon it of fall upon the surface of the whole earth every hour, the average weight of these even if it had no attraction.

A DIPLOMATS FIRST LOVE

Mow the New Spanish Minister Once Soughtto Mary Mr. Corcoran's Daughter.

The New Spanish Minister, Senor Murwas educated at the Jesuit College in told of Muruaga while he was secretary the young daughter of Mr. W.W. Corcoran, the well known philanthropist and Mr. Corcoran seriously objected to the free man among women, and accompa- so effectually. nied by Senator Bright of Indiana. Mr. Corcoran, called upon Don Calderon de la Baria, the Spanish minister to inform him that the engagement between his secretary of legation and Mr. Corcoran's daughter must be broken off. The minister promised to do everything in his power to gratify Mr. Corcoran's wishes and notified his attache that his relations with the young lady must cease. The young man became very angry, and challenged Mr. Corcoran to fight a duel.

The young lady sent for her lover and admitted him into the house through the back door, but their interview was interrupted by Mr. Corcoran, who was informed by a servant of what was going on. Leaving his books he hurried home and when his daughter saw him coming she got her lover to conceal himself under the piano. He was discovered, how ever, by Mr. Corcoran and kicked out of the house. Mr. Corcoran then went to Mr. Buchanan, who was secretary of state, and insisted that the young man should be sent back to Spain immediate. ly. Mr Buehanan said there was no way to bring that about without offending the Government of Spain, and declined to do it, and the two gentlemen never spoke thereafter.

But the young couple got tire of their engagement in due time, and the young lady married Mr. George Eustis, member of Congress from Louisians. and an uncle of the present senator from that state.

THE SCHOLAR OF THE ROSARY

A sweet regend tells us of a guileless but that notwithstanding his proficiency in other studies, his deficiency in this particular branch deprived him of the to

literary honors for ambitious solely for the sake of his dear hopes all centered in him as her only child Into the heart of that gentle ges of the neutral. mother he poured the sorrowful tale of his repeated trials and attendant failures panions taunts; of his humiliation and disappointments, and from her loving lips he learned where lay his remedy. Blessed Virgin, I know you have a Rosary, though I cannot say I have often every morning before going to school, to the altar of Mary and there recite it devoutly, and depend that before long, the the cause of your dejection removed,' And the prophecy was verified. In the simplicity and loving truth, the boy poured out his supplication in the Rosary, her gracious eyes beamed on him in their love, her material heart expanded as his prayer grew warmer, a power, once as if by a magic spell a marvellous transformation was wrought in his intellectual being. His imagination glowed; meteors and cosmical dust. Briefly, his ideas dilated; his whole nature seemed these observations, indicate that about spiritualized. Images of superhuman four hundred and fifty thousand meteors beauty filled his mind and verses of mu sical sweetness put them into words; and he who had been remarkable for bodies being about five grains each, the his inferiority of position among his total representing nearly five thousand schoolmates, now took his place high pounds per hour, or a fraction short of above them all, and gave promise of resixty tons every twenty-four hours. It nown so great that it seemed as if he is remarked that such an amount of ma. had but to select at pleasure one among terial falling thus daily is certainly no the many paths to literary fame so mirsmall increase to the easth's mass, and aculously opened before him. And when for this increase the earth's attraction he was questioned as to the manner this is considered responsible to the extent strange alteration had been effected, he of 20 per cent.; the balance of 80 per merely replied, with great simplicity, cent, it is alleged, would be increased that he had learned all he knew in the each hour by a globe the size of the earth Rossiy' where others might, if they pleased, learn the same, and so he came to be called, 'the scholar of the Rosary.' Full well did Mary reward his confidence not merely by gaining him brilliant men tal endowments—which in themselves are, in truth, of little real value ... but in this, that she took her pupil to her arms before he had begun to learn his lessons uaga, who has recently taken charge of of the evil world, and bore away his spirit the legation here, is an old timer and in heaven while his young innocence has many acquaintances in the city. He was yet tresh and its baptismal purity unstained. All through the tedious ill-Georgetown, D.C., and was subsequently ness which preceded his death, still secretary of legation there, as his father was his beloved Rosary twined around was before him. A romantic story is his fingers, and still did his heart find rest in the repitition of its well beloved of legation in Washington several years prayers. Intent on its sacred mysteries ago. At that time he fell in love with to the last, he said just before his eyes closed forever on this world: 'The sorrow is all gone now; there is nothing left millionaire, and became engaged to her. but joy and glory. Toese were his last words on earth; his next were breathed marriage of his daughter to a foreigner, in heaven, into the ear of her who had whose reputation was that of a rather loved him so well and proved her love

"WISE, LIBERAL, PRUDENT."

(Frem the London Standard, Tory and Church of England]

The celebration of the Sacerdotal Jubi lee of Leo XIII, otherwise of the fiftieth anniversary of the ordination of the Pontiff as a priest, will, our correspon. dent at Rome informs us, be organized and conducted by a committee which includes the noblest names of the Roman aristocracy. One can hardly conceive of any Roman, whether ar istocrat bourgeois- or plebeian, who would refuse to do homage to Leo XIII., if only permitted to take that course. The panegyric of the present Pontiff has just been pronounced in memorable words by the greatest statesman of the age Wise, liberal and prudent,, are the epit hets applied by Prince Bismark to the occupant of the Papal chair; and no one will say they are inappropriate or exaggerated. Fifty years a go Leo XIII. could have no idea of the dignity and responsibility that awaited him in his riper years. To other thrones men are born and some thrones there are that men may aspire to occupy by torce, by intrigue, or by servile adulation. But there are priests enough, no doubt. of whom a similar record might be made, yet who have escaped fame by remaining in some remote country or urban parish. It was the fate of Leo XIII; not to be born to blush unseen. No taunt has boy who grieved much because he could ever been addressed to him for amoition not compete with his fellow students in or time serving. If he was finally advan the composition of verses; not that he ced to the highest position that can deemed the art of any intrinsic value, be filled by an ecclesiastic, it is because in every position of duty. from priest. hood to bishopric and from bishopric

rank of Cardinal

the

which he was the uniformly displayed, the union of zeal with modesty, the combination mother, whose of activity and disinterestedness that disarm criticism and secure the suffra.

A man cannot be "wise, liberal and prudent" for fifty years without acquirof his master's displeasures and his com ing a considerable store of useful experience; and Leo XIII., having watched the ways of men and governments for half a century, has brought his accumul-Remember, my son ' she said, 'that no ated sagacity to bear upon the problem one ever applied in vain for help to the how to reconcile the interest of the church over which he presides with the somewhat exacting demands of modern seen you use it. Take it henceforth society and modern ideas. His conduct of the quarrel between Germany and the Vatican which had its origin in days when he little thought of wearing the source of your tears will be dried, and Triple Crown, is the supreme manifes tation of the true sagacity attributed to him by Prince Bismark. He has not acted precipitately, whether in refusing or knelt daily at the feet of his blessed Pat- in accepting the conditious urged upon roness, and while his innocent heart him by the Cabinet of Berlin. Neither allowing himself to be inflamed by the political prejudices of the Prussian Cen tre Party, not to be entrapped by the somewhat astute diplomacy of the Iron ful mandate went forth from her lips Chancellor into untimely surrender, he which never opened but in words of has at length not only succeeded in sweetness or petition for mercy and at healing the breach he did not cause, but he has extorted from one of its authors an unqualified tribute to his discretion and success.

> The Romans will therefore do well to celebrate the Sacerdotal Jubilee of such a Pontiff with all the fervor and honors



NOTICE.

Terretories and in Manitoba West of the First Principal Meridian only.

SEALED TENDERS, accompanied by One Hundred Pound Samples, and endorsed "Tender for Flour," will be received at the undermentioned Indian Agencies, in the North-West Territories up to noon of Thursday, the twenty-ninth of April, 1886.

AGENCY. H. Martineau The Narrows, Lake Manitoba. Birtle. Crooked Lakes. J. A. Markle McDonald W. S. Grant Assiniboine P. J. Williams . File Hills. J. B. Lash Muscowpetung's Reserve H. Keith . Touchwood Hills. Prince Albert.! Rattleford. J. P. Wright J. A. Mitchel Victoria. W. Anderson Edmonton. Peace Hills. W. Pocklington Fort McLeod. M. Begg . . . Blackfoot Crossi W. C. de Ballinhard Sarcee Reserve. Blackfoot Crossing.

Forms of tender, giving full particulars relative to the quality, quantity and points of delivery of the flour required may be had on application to any of the above named Agents, or from the Indian Commissioner for Manitoba and the North-West Territories, Regina; and no tender will be entertained which is not made out on one of the forms in the hands of the Agents or of the Indian Commissioner for distribution to intending tenderers. Each tender must be ac companied by an accepted cheque, ap proved by the Indian Agent for the District, for at least five per ceut, of the amount thereof, which will be forfeited if the tenderer declines to enter into a contract when called upon to do so, or if he fails to fulfil his contract to the satis faction of the Department. If the tenderer prefers to do so he may deposit with the Agent, in lieu of an accepted cheque, the notes of any Chartered Bank in Canada to an equal amount. Cheques or cash accompanying tenders not accepted will be returned, but a cheque deposited by a successful tender er will be retained until the satisfactory completion of his contract. Each tenderer is required to show in his tender the full value of all the flour which he is prepared to deliver under contract or his tender will not be entertained.

Each tender must, in addition to the signature of the tenderer, be signed by two sureties acceptable to the Department, for the proper performance of the contract.

Tenders will be enertained for a por tion of the whole quantity of flour re quired at any given point.

Tenderers residing near one Agency but desiring to tender for delivery within another Agency further distant, may deposit the tender and sample for the most distant at the nearest of the Agencies specified above, or with the Indian Commissioner at Regina.

Samples of flour will be returned, if desired, to unsuccessful tenderers on their application, and the sample submitted by a successful tenderer may be counted by him as a delivery on account of his contract.

In all cases where transportation may be only partial by rail, contractors must make proper arrangements for their flour to be forwarded at once from railway stations to its destination in the Jovernment Warehouse at the point of

The lowest, or any tender, not neces

arily accepted.
L. VANKOUGHNET, Deputy of the Superintendent-General of Indian Affairs. Department of Indian Affairs,

Ottawa, 30th Jan., 1886.

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CHARM (Alum Powder) #			- <i>,</i>	
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BULK (Powder sold loose)				
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REPORTS OF GOVERNMENT CHEMISTS

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E. G. Love, Ph.D."

"It is a scientific fact that the Royal Baking Powder is absolutely pure.
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HENRY MORTON, Ph.D., President of Stevens Institute of Technology." "I have analyzed a package of Royal Baking Powder. The materials of which it is composed are pure and wholesome.

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The Royal Baking Powder received the highest award over all competitors at the Vienna World's Exposition, 1873; at the Centennial, Philadelphia, 1876; at the American Institute, New York, and at State Fairs throughout the country. No other article of human food has ever received such high, emphatic, and universal endorsement from eminent chemists, physicians, scientists, and Boards of Health all over the world Health all over the world.

NOTE-The above Diagram illustrates the comparative worth of various Baking Powders, as shown by Chemical Analysis and experiments made by Prof. Schedler. A pound can of each powder was taken, the total leavening power or volume in each can calculated, the result being as indicated. This practical test for worth by Prof. Schedler only proves what every observant consumer of the Royal Baking Powder knows by practical experience, that, while it costs a few cents per pound more than ordinary kinds, it is far more economical, and, besides, affords the advantage of better work. A single trial of the Royal Baking Powder will convince any fair-minded person of these facts.

* While the diagram shows some of the alum powders to be of a higher degree of strength than other powders ranked below them, it is not to be taken as indicating that they have any value. All alum powders, no matter how high their strength, are to be avoided as dangerous.