One of the Foremost Astronomers of the World, He Has Invented a Muchine For Measuring the Heat of

the Sun, Moon and Stars.

There has been in this country for some time past one of the greatest scientists of the age, a Portuguese priest who has made discoveries which place him in the front rank of the astronomers of the world. This is Rev. Father M. A. G. Hinnalaya of the archdiocese of Braga, Portugal, Father Himalaya came to this country to erect and operate his great invention, the "pyrheliophor." at the St. Louis world's fair. He is devoting his time to study and research and makes his home at present in Washington, where, in addition to his scientific work, he acts as temporary chaplain at the Visitation convent, on Connecticut avenue. as well as assisting at St. Matthew's church.

The international jury of awards at the world's fair last year gave Father Himalaya the grand prize, the highest recognition accorded any exhibitor. His invention, the pyrheliophor, attracted more attention and was more honored than any other instrument in the group of physical and astronomical devices. The pyrheliophor is a "sun machine," and, briefly stated, it is an instrument which measures the heat of the sun, moon and stars. It is doubtful if in the popular mind radiated heat is ever associated with any planet except the sun yet Father He malaya's invention has made possible the exact measurement of heat from the moon and stars as well as discov ering that hitherto indefinable extreme opposite of absolute zero now known through this priest-scientist's demonstrations as "supreme degree."

Father Himalaya is an interesting character, a man absolutely devoted to his work. He holds his science as sa cred, as is shown by his refusal to allow his sun machine to be moved to the east from St Louis, where it still stands, to be used for exhibition pur-

There are only three other pyrheliophors in the world, two at Paris and one at Lisbon The experiments made with these have been revelations to sel ence With the instrument at St. Louis Father Himalaya generated heat to 6,800 degrees F After the close of the fair he spent over a month at night experiments, testing the heat from the moon and stars, and demonstrating that such beat is measurable.

"The reflection of the moon," says Father Himalaya, referring to these experiments, "when concentrated in a small area by aid of the sun machine, produced a measurable heat, which, while not very intense as gauged by a mercury, gas or alcohol thermometer, was, however, distinctly appreciable when projected on the human skin, es pecially upon the face. But while this heat from the moon's rays is with difficulty measured by ordinary thermometers, it contains actinic qualities nevertheless electric-chemical rays which readily impress the nerves and affect certain chemical elements." This, Father Himalaya says, might be given as an explanation of a certain phenomenon of Hindustan, by which it is said natives sometimes become insane from sleeping in the moonlight. The experiments with the stars and planets have proved especially interesting. Mercury, Venus and Jupiter were found to produce an appreciable heat and actin ic phenomena, but the heat of Saturn was scarcely measurable. Mars, Neptune and Uranus have completely resisted all tests so far, and no instrument has yet been found accurate enough to measure the heat of Sirius, the most important of all the stars. But it is not unreasonable to expect that their subjection to the tests of the

scientist will yet be accomplished. Father Himalaya's sun machine will woon reach another point of perfection, and a very useful one, when it is used to photograph the heavenly bodies. "I have made calculations," he said, "which will eventually make the pyrhellophor the most perfect instrument ever invented for astronomical photography."

Father Himalaya has been collaborated with in his work by two distinguished women of Portugal, Mme. Emilia dos Lantos of Oporto and Mine. Clementina Pinto Leite of Lisbon, and by M. Adolph Demy, a French philanthropist of Paris. It has been their financial aid which has enabled the young priest-scientist to execute his researches and devote his time exclurively to science, for which purpose be has been relieved of pastoral duties by his bishop. He will continue to reside in Washington for some time, procecuting his studies.-Washington Star.

The Abbe Olimer.

The Abbe Olmer, parish priest of St. Laurent, in Paris, a very important district, has been obliged to resign at the age of sixty-five owing to oncomthe blindness. M. Olmer is remarkable for this: He is the son of Jewish parents and was born in Paris. When quite young and supposed to be dying he was baptized by a Catholic servant in his family. Then he recovered. The servant told the Jewish parents what she had done, and they became Catholics. The young Olmer was looked after by Mgr. de Segur, who sent him to a provincial college and subsequently to St. Sulpice, where he was ordained in 1864.

The Greatest Foe.

The greatest foe the Catholic Church has to contend with is ignorance of her life, her purpose, her mission. If those outside her pale but knew her story how they would revere and love her! -Catholic Union and Times.

## A NICKEL FOR THE LORD.

Think of This Little Story When the Plate Comes Bound.

Sunday he wore a rose on the lane. of his coat, and when the plate was passed he gave a nickel to the Lord. He had several bills in his pocket and sundry change, perhaps a dollar's worth, but he hunted about, and, finding this poor little nickel, he laid it on the plate to aid the Church militant in its fight against the world, the flesh and the devil. His silk hat was beneath the seat, and his gloves and caue were beside it, and the nickel on the plate—a whole nickel.

On Saturday afternoon he had had a gin rickey at the cafe, and his friend had had a fancy drink, while the cash register stamped 35 cents on the slip the boy presented to him. Peeling off a bill, he handed it to the lad, and gave him a nickel tip when he brought back to him the change for the bill.

A nickel for the Lord and a nickel for the waiter!

And the man had his shoes polished on Saturday afternoon and handed out a dime without a murmur. He had a shave and paid 15 cents for it with equal alacrity. He took a box of candies home to his wife and paid 80 cents for them, and the box was tied with a dainty bit of ribbon. Yes, and he also gave a nickel to the Lord,

Who is this Lord? Who is He? Why, the man worships Him as Creator of the Universe, the One who put the stars in order and by whose immutable decree the heavens stand. Yes, he does, and he dropped a nickel in to support the Church

And what is the Church militant? The Church militant is the Church that represents upon earth the Church Trlumphant of the Great God the man

gave the nickel to. And the man knew that he was but an atom in space, and he knew that the Almighty was without limitations, and knowing this he put his hand in his pocket and picked out the nickel

and gave it to the Lord. And the Lord, being gracious and slow in anger and knowing our frame. did not slay the man for the meanness of his offering, but gives him this day his daily bread.

But the nickel was ashamed if the man wasn't.

The nickel hid beneath a quarter that was given by a poor woman who washes for a living -G. F. Raymond in Toronto Star.

### Protestantism In Spain.

The Protestant proselytizers in Spain have of late been arousing excitement. A number of them a few weeks ago brought a popular attack upon themselves by indiscreet conduct. The affair was of course bruited to the world by them as an exhibition of Spanish intolerance. They have now a grievance against no less a person nas, bishop of Barcelona, drew the attention of the government to the fact that in creeting a church in that city the Protestants had not complied with the provisions of the law which prohibits the use of all external emblems of a religious character in churches and chapels belonging to any other denomination than the state church. The government formally took up the matter, and the necessary alterations were made. The cardinal at the same time wrote to the king, and one of his majesty's secretaries drew up a private letter affirming the monarch's loyalty to the church of his country. The king signed the letter, and the cardinal, on receiving it, gave it to the press. His majesty in sending the communication to the cardinal-bishop merely performed an act of courtesy toward a prelate with whom he is on terms of friendship.-London Catholic Opinion.

A Minister & Convert. Willoughby Jewell, a minister of the Protestant Episcopal church at Hackensack, has left that church and become a Roman Catholic. He was received into the Catholic faith at Newman school, Hackenback, by the Rev. Father Gartland, the chaplain. Mr. Jewell will now begin his studies for the Catholic priesthood at the Sulpician seminary at Montreal.

Judged For Ourselves. We shall each stand alone and apart before the "great white throne" when the books are opened, and as Christ died for each one of us as completely as if He had no one else to die for, so we shall be judged each by himself, as if he were the only one to be judged.

# ITEMS OF INTEREST.

A Catholic paper for negroes has been established in Washington. Almost daily the prospect grows fairer for the Catholic schools in Mexico. They now show themselves su-

perior to the state institutions. Charles J. Bonaparte is the second Catholic to be appointed to a place in President Roosevelt's cabinet, Postmaster General Robert J. Wynne being the first.

It is stated that Pius X. has decided henceforth to hold consistories four times annually-in March, June, September and December. This is no innovation, but rather a return to ancient custom.

After the Vatican edition of Gregorian chant has been issued all publishers who wish to do so can reproduce it provided they present exact editions. The Pope will not allow a monopoly to any publisher.

Rome has seminaries and monasteries representing eighty-seven different orders, and the number is steadily increasing. There are 180 convents, ninety-four of which devote themselves to education and hospital du-

# THE CHURCH OF GOD THE HOLY SACRIFICE

LUTELY INFALLIBLE.

There Are Many Incontrovertible Iteasons Why the Church Established on Earth by Our Savious Cannot Err In Its Teachings.

Before the Catholic club of Harvard university Rev. Dr. James J. Baxter. of St. James' church, Boston, recently spoke on "Infallibility." He said in part:

"Dr. Brooke Herford's Dudleian lec ture of 1805 was a most powerful arraignment of the Catholic Church, and, form of words-it is a great action, the especially of her claim to infallibility The best refutation of Dr. Herford is the fact that today, a decade later, there are in the United States, in Masvard university even, more believers in a one, holy, cutholic, apostolic and !afallible Church than there were ten

years ago. "Cecil Rhodes hoped to found the United States of the World, and ciety of Jesus. What a compliment this to the Catholic Church. And the secret of her grandeur, unity and stability is her infallibility.

"In Catholic usage, the word signifies a supernatural assistance by which the whole teaching body of the ('hurch on the one hand and the Ro man Poutiff on the other are rendered immune from error in defining ques tions of faith and morals. It does not preclude the necessity of prayerful de liberation and research. It does not denote impeccability, and it differs from revelation and inspiration It deals only with truths appertaining to or necessarily connected with faith and morals.

"As a gift it resides in the Thole body of Catholic bishops in union with the Roman Pontiff and also in the Pon tiff independently of the bishops. The whole body of the laity, reflecting, at it does, the doctrines of the teaching corps, is endowed with a passive infal libility.

"This doctrine is perfectly in accord with American ideas of universal suf frage, majority rule, trial by jury, and of the fact that all the people canpol all the time be deceived. The Church though she is the oldest democracy ex tant, has in her, too, all that is best of the monarchial form, for the principle of the referendum does not obtain it

spirituals. "The unbroken grades in the orders of nature and grace, demanding a ster between man's liability to err and God's absolute infallibility; Christ's tles and their successors, St. Paul't statement of the end for which Christ instituted his church-namely, to gath the knowledge of the Son of God-the obligation imposed on mankind by the teachings on pain of eternal torment all these prove that Christ's Church

must be infallible. "Again, the ex cathedra definitions of the Roman Pontiff are infallible be cause ('hrist made Peter and his suc cessors the foundation rock of the Church's unity and stability, made them the supreme pastors and teach ers of shepherds and flocks alike and prayed for them in a special manner that their faith should not fail, but should continually confirm that of their brethren.

"Finally, argumentation from Scrip ture to the Church and from the Church to Scripture is not illogical. No conflict can ever arise between Pope and council, and whatever doubts have been cast on this doctrine have arisen either from a misapprehension of its nature or from a false reading of his tory."

When Gladstone Backed Out. Rev. L. C. P. Fox, O. M. I., in an article in Donahoe's Magazine entitled "People I Have Met" says: "Mr. Hope Scott of Abbotsford once told me that there were four gentlemen of whom he was one, the other three being his brother-in-law, Lord Henry Kerr; Mr. Baddely, another prominent barrister, and Mr. Gladstone, who arranged with Dr. Newman to call upon him on a certain day to discuss the important affair of becoming Catholics, but that when the hour fixed by Dr. Newman for the interview arrived Mr. Gladstone alone failed to keep the engagement. The remaining three persons were faithful to their appointment. and soon afterward all of them were received into the Church."

Do You set a Good Example? Whether Catholicity shall do for us the work needed in this country and therefore whether we fulfill our mistion or not depends on the fidelity or nonfidelity of Catholics themselves. It is not enough that the Catholic Church is here. She will not operate as a charm to remove existing evils or to give us the needed virtues. It is not enough that there is a large body of Catholics here. Their mere presence has in itself no virtue to save the country or to enable it to fulfill its mission. This is a fact that we should lay to heart. If Catholics do not surpass others in domestic and civil virtues they will render the country no greater service than others. - O. A. Brownson.

Rev. Father Negahaquet.

Father Albert Negahnquet, said to be the only full blood Indian priest in the United States, has been transferred from Eufaula. I. T., where he has been for two years, to Antiers. At Antiers his parishioners will be mostly Italians. Father Negahnquet was edu cated in Rome, and the fact that he speaks Italian fluently is the cause of the change.

IT MUST OF NECESSITY BE ABSO CARDINAL NEWMAN'S BEAUTIFUL DE-SCRIPTION OF THE MASS.

> The Sciema Celebration is Not Mere Formal, Unreasonable Services it is a Great Action, the Greatest Action That Can Be on Earth.

> Certainal Newman lu his work "Loss ata: Galn" introduces the Anglican convert Willis to speak as follows:

"I declare to use nothing is so consoling, so piercing, so thrilling, so overcoming, as the Mass, said as it is among us. I could attend Masses forever and not be tired. It is not a mere greatest action that can be on earth. It is not the invocation merely, but, if I dare use the word, the evocation of the Eternal. He becomes present on sachusetts, in Greater Boston, in Har the altar in flesh and blood, before whom angels bow and devils tremble; that is that awful event which is the scope and is the interpretation of every part of the solemnity.

"Words are necessary, but as means, not as ends; they are not merely adthe constitution of this world empire dressed to the Throne of Grace—they was to have been the rules of the So | are instruments of what is far higher, of consecration, of sacrifice. They hurry on as if impatient to fulfill their mission. Quickly they go-the whole is quick, for they are all parts of one cording to the Irish (Protestant) integral action. Quickly they go, for they are awful words of sacrifice, they are a work too great to delay upon; as when it was said in the beginning, they pass, for the Lord Jesus goes with other duties of the Catholic Church India same cocks a sarresum the Mass. He passed along the lake in which require proportionately many the days of His flesh, quickly calling more priests than parsons, it the first one and then another. Quickly priests in Ireland were proportionate they pass, because as the lightning to the actual number of paraons than that shineth from one part of the should be about 10,000 in all and it beaven unto the other, so is the com- the parsons were in proportion to the ing of the Son of Man. Quickly they actual number of priests they should pass, for they are as the words of be only about 300 in all. But they are Moses when the Lord came down in 1,724; and if we suppose that 1,000 of the cloud, calling on the name of the them are married, and that each has a Lord as He passed by, The Lord, the family of about five we have in all Lord God, merciful and gracious, long about 0,000 inhabitants of the Protest suffering and abundant in goodness tant Episcopal palaces and of the glebs and truth.

prayers, separate, but concordant, sons, we arrive at a grand total of watching what is going on, watching about 11,000 of the tribe of Levi, out its progress, united with its consumma of the 1,086,371 Protestants of all sorts tion, not painfully and hopelessly fol. in the country." lowing a hard form of prayer from beginning to end, but, like a concert of musical instruments, each different, commission and promises to his apos but concurring in a sweet harmony, we answered for it, took your for it when it take our part with God's priest, sap. was baptised and was made a member

porting him, yet guided by him. dents in seminaries, priests preparing minister. Have you faithfully tried to for Mass, priests making their thanks do your duty as sponsor? If the child God of truth to accept the Church's giving: there are innocent maidens, and there are penitent sinners, but out the Church did you try, or are you try of these many minds rises one Eu. ing, to win it back? Does it so to the charistic hymn, and the great action is Catholic school? If not, why not? Has the measure and the scope of it. And, oh, my dear Bateman, you ask me whether this is not a formal, unreasonable service? It is wonderful, quite wonderful!"

A Good Catholic. What are the signs of a good Catholic, true to religion? He keeps the two greatest commandments—he loves you claimed it as such !- Catholic Home God and he loves his neighbor. He Companion. shows that he loves God by observing the Ten Commandments, by going to Communion frequently, by keeping the fasts of Lent and Advent and by accepting with resignation the trials of: life. He proves that he loves his neighbor by prayer for the latter's welfare, by feeling himself bound to set a good example, by acts of kindness, by refraining from backbiting. Besides these signs, he shows respect for the Church, for its teachings, for its clergy, for its blessings, for its holy places. He practices the three eminent good works; he avoids the seven daily sins; he is temperate, industrious and faithful to the duties of his state in ther. Given a man thus cultivating is constantly growing smaller, and in life—as son, brother, husband and favirtue and behold a good Catholic and commendable citizen.—Catholic Home Companion.

As We sow.

It is the contented man who see reasons for satisfaction on every hand. The happy disposition delights in the beauty of nature and sees the silver lining even to the darkest cloud. Cultivate hope, and a cheerful optimism will help you to surmount every difficulty: the useful man ever comes upon broadening means of use; while it is the generous soul, the free, open handed giver who realises the precious value of the Divine promise, "Give, and it shall be given you; good measure pressed down and shaken together and running over." Is it not so? Do we not reap as we sow?

A Vatican Journal. The Pope, according to a dispatch from Rome, is to become the publisher of a newspaper. The publication will take the form of a weekly gazette and will be issued in September. It will be printed by the Vatican press and is to be the sole official organ of the Holy See. The object is to prevent the spreading of inaccurate reports about matters pertaining to the Vatican and the Church.

Our Lady.

The title of "Our Lady" first came into general use in the days of chivalry, for she was the Lady of All Hearts. whose colors all were proud to wear, Hundred, upon hundreds had enrolled some good in every one. Some ray from themselves in brotherhoods vowed to the divine countenance illumines the her special service or devoted to acts face of every creature made to the "im-

MERIEST RIDDEN FRELANDS

A Study in Similation and a Yes teresting Contrast. "Priest ridden Treland" is a familiar expression. Commenting thereon, a writer in the Dublin Leader Fire some figures presenting an interesting contrast between the number of prices and Protestant ministers in propor tion to the Catholic and Protestant

population. He says: "As I am dealing with population I may as well, once for all, get tid of a pharisaical scandal which our critica take from what they call the awful army of priests in Ireland. There are 3,542 priests in Ireland, for 3,301,001 Catholics; that is, one for every 934 body was to be a And If we deduct members of religious and he was turned out orders and priests engaged in teach. Size and I the builing, there remain 2.714; that is, one for overy 1,200."

trast. Then comes the Profestants "Considering the cry they raise about the animal creation t the army of priests, and considering man; by priests and legisly moreover, that while a priest's dury is many periods, not that every day and any hour of the day or high pretanalogs, equal night, the parson (Protestant elergy) ed in sescutials, with the man) is wanted usually only for an menkind. The voluntary hour or two on Sunday, one would be animals form a case wide inclined to think that there are only a Nature herself has some t few scattered parsons to be found in contention in the constitution the country. But what do I find? Account besets; and to witness. church directory, there were 1.724 par. legitimate ouriouty, if it bell sons in Ireland in 1908 for 581,089 Prote estants; that is, one for overy 531 Hence, setting uside all consideration 'What thou doest do quickly.' Quickly as to hearing confessions and various houses of Ireland. There are 800 Pres "And as Moses on the mountain, so byterian ministers for 448,270 Presbywe, too, make haste and bow our terlane—that is, one for every 584 heads to the earth and adore. So we, there are 250 Methodist ministers for all around, each in his place, look 62,000 Methodists that is, one for out for the great advent, 'waiting for every 248. Let us set down 250 more the moving of the water.' Each in his ministers for other Protestant sects place with his own heart, with his And if we count in the families of the own wants, with his own thoughts, married ministers, and add them to with his own intention, with his own those of the other bishops and par-

Dutles of a Sponsor. You are a sponsor for a child. You of the Church, an inheritor of the king. "There are little children there and dom of heaven. This you did in the sight of God and in the p has wandered or been led away from it learned the catechism and other things which it ought to know and which you are charged to see that if should be taught? It its parents have been neglectful of their duties, have you more earnestly tried to perform the sponsorial duties that rest upon you? If the child is old enough, does it know that it is your godchild? Have

The Catholic Press. Strange and inexplicable is the attl tude of some Catholics in regard to the Catholic press. They subscribe for net ther Catholic magazine of paper on the plea that they either have no time to read them or cannot afford to pay for them. They find means, however, to procure and have abundant letere to devoir the sensetional daily paper and the ponderous Sunday journals. They have money for the latest and silliest novel and time to poster ever # But for Catholic literature ther have neither time, money nor inclinahonor of Catholics be it will, this class telligent Catholics everywhere are manifesting a keeper approcation of Catholic literary effort and are making greater sacrifices to encourage and support it.—St. John's Quarterly.

The Deager of Temptation No one can worthly approach the most nure heart of Jesus or draw hear to that Mother who was sinless by His grace unless he recognises the danger of temptation; keeps a tight grasp on the relas of self restraint and turns to God with hopest contrition whethever he is conscious that he has

The Properation Whatever it may be that God the destined for us yet to do, one thing is beyond doubt or peradventure—we can only prepare rightly for its coming and baston its consummation by being truthful, sincere and courageous.

# SHORT SERMONS.

No one can do more than his best but a great many could do more than they think their best.

There is a time for play, a time for labor and a time for rest, but there should be no time for sin.

The devil tempts only those souls who are in a state of grace or who are trying to arise from sin. The others are his own; he has no need to temp them.

It is not a very difficult matter to find the good in others and there is of charity to be performed in her name, age and likeness

held long exough to b his hair, he was then lied in That is the Catholic side of the con and balleds. In this unfailed was the most innocus compate of either is at least of the softer feelings and Cockfighting is said to be yes and of Greek or even in and there are, it seems. equal in desperate valor these o cur country. The Indiana or meantly fond of cockfighting ly the inhabitants of Sumare other Malays. They pay to attention to the training of these birds than we are when that diversion was In New Orleans some . All ago. They arm one of the l not with a slender gan. to do, but with arms in acimitar, which makes most destruction, The cocks trimmed but fought in full The Sumatrians fight that wast sums; a man has been it minke his wife and children in mother or sisters, on the dattie. In disputed points four said are appointed. If they cannot there is no appeal but the Some of them have a notion that cocks are betoosh or invulnerable father on his very death bed lines der that opinion, directed his lay his whole property on a bird, under the full conviction consequential auccess. -- News C Times-Democrat.

> Did'at ever hear-ohn ye of the lumberman's baked the delicatemen of the backwa Lwenty-one-times a-week ribs provender that firmin fulces and that when miles morning from the bean-hole with delicious odor to to their water all slong with the local cook and the cookee doin a suliding up this monument to use in cultury. The woods to be bakes a tin washboller hears beens, first perbolling them less gets them ready for the pot, peels an onion and allees are the bottom of the pot. Then he half the heans; then alices over another onion; then puts is to chunks of sait fat port; then In the rest of the beauty Or this he pours a pint of mois then more pork Just enough and ded to cover the beather that sheet of birch bart is placed in top of the more and the spine of in light. When the water's steam the bary swells fad " per holding in all the same of The your bullet was the special control of th hole. While the birth west, ed the stones that line the he ar l'arie birant a light anns a lar cail ar side las mais an per a sang desg oil. All other outset the libest on the ham? Of the same the the woods of Mars - I swime Journal

Baked Bears in Lamb

POINTED PARAGRAPHE The coming man seldom ar

schedule time. Students of ancient history are

no to date. It takes a lot of cold o the furnace coaled.

LAWYER AT BOT (BE S that gray conveyances. The more (of treations

ment for the state The faller of seven grown t tore his no lore for ullisters.

STON ALTHOUGH TO CONTINUE STATE people that they are suipid The may who is made to be

Continue in inclease uniformina A Victoria Company of the Company of

Don't wait for your habeteen others hand it to you'very alive

Banty La Calvan (A)