### NUN ADDRESSES SCIENTISTS

DISCOURSE BY SISTER MARY, OF ST. MARY'S COLLEGE, MONROE, MICH., SETS

Washington, Jan. 3.-For the first time in seventy-six years of exist-ence as the most learned body of scientists in the United States, the American Association for the Advancement of Science was addressed by a Sister at its annual meeting here this week.

The speaker was Sister Mary, of the Sisters, Servants of the Immacthe Sisters, Servants of the Immaculate Heart of Mary, head of the Department of Sociology at St. Mary's College, Monroe, Michigan. She was formerly Miss Mary C. McGrath, of Pittsburg, and she holds the degree Bachelor of Arts from the University of Michigan, where the was graduated "with where she was graduated "with distinction;" Master of Arts from the University of Pittsburg, and Doctor of Philosophy from the Catholic University of America

She spoke Wednesday before Section Q, the Educational Section of the Association, on the subject "Some Research Findings in the Moral Development of Children." purity, the paper entered a wholly new field in education, and its thoroughness drew close attention from the scholars assembled at the session.

HOW SHE WAS SELECTED

It is of interest to note the manner in which this first member of a religious order of women was selected to deliver an address at the association's meeting. Sister Mary, throughout her university days, had consistently been an honor student. and when she wrote her dissertation for the Ph. D. degree at the Catholic University such was its scientific value that it was published as a monograph in the "Psychological Review," the most learned and important psychological journal in

Dr. L. A. Pechstein, Dean of the College of Education of the University of Cincinnati, who is a vicepresident of the Association for the Advancement of Science and chairman of Section Q, came across the monograph in the "Psychological Review" and regarded its scholariness so highly that he determined to invite its author to address his section at the association's annual months. meeting. The signature over the monograph was merely "Mary C. McGrath." Only when Dr. Pechstein sought the author did he find out that she was a member of a religious order. He immediately extended a cordial invitation to Sister Mary to address the section.

SOMETHING NEW IN EDUCATION

The paper the religious delivered brings something wholly new into the science of education. It is a pioneer attempt to work out a moral curriculum, and the deductions Sister Mary draws from an extensive research may become the instruction in schools.

Since the topic is new, the author onfined herself to fundamentals. In the paper she gave the results of a series of moral information tests conducted with 4,500 school children of Public and parochial schools in several cities of the country. Questions, stories and pictures were compiled in two eighty-page book-lets and submitted to the children to determine the age at which their awareness of various moral pre-cepts begins, and the age at which their interest in these precepts wanes. The ages ranged from six to above eighteen

The great value to educators in the possible working out of a moral curriculum to be gained from Sister Mary's research may be stated in a few sentences from the paper itself.

"Let us assume a working principle. Most children are not alive to moral problems before the age at which the problems first appear in the tests. It follows, then, as a pedagogical corollary that it is vain to give moral instruction in these problems before the age at which children in general commence to be aware of them. Let us also assume a second principle: Most children have for some reason ceased to be keenly alive to moral problems after the age at which the problem last appears in our tests. It then follows that it is useless to give moral instruction on these problems after the age at which children in general have lost interest in them. One of the chief points of value

research Sister Mary conducted is that it has proved that it is possible to standardize moral tests. In addition, the tests gave a very valuable insight into the a very valuable insight into the ideals and principles of delinquents just admitted to a reformatory training school, so that there is additional value in the data in dealing with delinquents throughout the country. In conclusion, Sister

"The study offers something more than a standardization of moral information tests. It affords real information tests. It affords real knowledge of the development of ethical principles in the child's mind to only by the insult, but by the but there are better means of of his love for humanity and the

follows: Religious acts, personal piety, divine worship, respect for authority (in the family), charity, honesty, gentleness, rendering Ledger, assistance at home, following a vocation, politeness, purity, unsel-fishness, self-denial, preservation of hshness, self-denial, preservation of health, courtesy, duty to church (boys,) duty to country (boys,) cheerfulness (boys,) industry (girls), gratitude (girl's), industry (boys,) and gratitude (boys). Industry appeared in the case of the girls at eleven and twelve, but in the case of the boys not until fifteen and sixteen boys not until fifteen and

Asked to "name three things it is bad to do," the children indicated their problems in the following order: blasphemy, unbelief, against authority, against charity, stealing, lying, murder, fighting, against purity, cruelty, intemperance, deceit, divorce, adultery and neglect of vocation.

Also attending the meeting of the association were the Dean of St. Mary's College, who came with Sister Mary; two Dominican Sisters from Rosary College, River Forest, Ill., and Sisters from the Sisters' College at the Catholic University.

Among papers read before the ections of the meeting were: Among papers read before the sections of the meeting were: "The National Catholic Welfare Conference," by the Rev. Dr. Frederick Siedenberg, S. J., of Loyola University, Chicago, read before the Section of Social and Economic Sciences, and papers by the Rev. Father Anselm M. Keefe. O. Praem., of the University of Wisconsin, and the Rev. Father Hilary S. Jurica, O. S. B., of St. Procopius' College, Lisle, Ill., read before the Section of Botanical Sciences. Numerous other educa-Sciences. Numerous other educa-tors from Catholic universities attended the sessions.

## K. OF C. DENOUNCE BLASPHEMY

When the Public Ledger by printing on Christmas morning a coarse and blasphemous reference to the Queen of Heaven and her Divine Son offered insult to all Christians, it bestirred Philadelphians as has nothing else for generations in this

Strong denunciation of the Public Ledger for publishing the heinous thing, and for its attitude of silence in not retracting or apologizing for its act, was expressed in a resolution, unanimously passed by several hundred members of the Knights of Columbus Dining Club, held at the

Adelphia Hotel recently. senting voice, that a copy of the resolution be sent to the Public Ledger, to every other Philadelphia daily newspaper and to The Catholic Standard and Times. Moreover, the members present were urged to carry the resolution to their respective councils for similar action and to all other organizations to which they belong, and to their families and associates.

TEXT OF RESOLUTION

The resolution passed by the Knights of Columbus body is as fol-

The Knights of Columbus Dining Club, in session at noon today, January 8, 1925, at the Adelphia Hotel, by a resolution of the mem bers present, calls upon the Phila-delphia Public Ledger to withdraw publicly in its own name the shocking blasphemy, to which it gave space on page 5, in its issue of Christmas morning, December 25, 1924, by printing there the passage, commencing with 'When the Queen of Heaven,' in an article entitled Isles of Fear,' by Miss Katherine

Furthermore, we deplore lamentable indifference of the Public Ledger to the coarse, in-decent and anti-Christian publication complained of, as evidenced by the Public Ledger's resistance to the demand that it apologize for the outrageous passage.

Be it further resolved, that copy of this resolution be sent immediately to the Public Ledger and to the other Philadelphia daily papers, and to The Catholic Stand-

ard and Times.'

WAVE OF PROTEST SPREADING Sudging from the volume of letters received by The Catholic Standard and Times, the Public Ledger must have been inundated by a veritable flood of protests against the impious utterance, and emands for retraction and apology. Many of our readers have enclosed copies of their letters to the Public is a cyclopedia on legs and somecopies of their letters to the Public Ledger.

other organizations.

Members of the clergy and laity, and heads of religious orders, have written protests to the Public anovel.—N. Y. Times Editorial.

DENUNCIATION THROUGHOUT DIOCESE From altar and pulpit reference has been made to the Public Ledger's Christmas morning anti-Catholic and anti-Christian attack on the God-man and Mary Immacu-

Thousands of copies of last week's editorial of the Catholic Standard and Times have been distributed among parishioners.

Indications point to the fact that the Catholics of Philadelphia cog-nizant of their duty and alive to their trust, individually and collectnizant of their duty and alive to their trust, individually and collectively, will not allow to pass unnoticed the dastardly attack in the Public Ledger and that newspaper's continued silence.

yesterday at the age of 10 refy-seven and turned his business over to six of his cmployees as a gift.

Mr. Portfolio, trading at 1383 Broadway under the name of A. Portfolio & Co., started with nothing and religiously and the age of 10 refy-seven and turned his business over to six of his cmployees as a gift.

Mr. Portfolio, trading at 1383 Broadway under the name of A. Portfolio & Co., started with nothing and collectively will be a series of the continued silence. continued silence.

Officers of some men's organiza-tions and ladies' auxiliaries have stated that they have instructed their publicity directors to send no items of Catholic news, or events of interest to Catholics, to the Public Ledger until it apologize for its gross offense.—Philadelphia Stand-

### THE EDUCATION OF "AL" SMITH

In his inaugural address Governor Smith said: 'I have a real affection for the Assembly Chamber. It has been my high school, my college; practically everything I have got here." But the Governor, paying a compliment to that Chamber tence, forgot many of his student days. His singular and successful education began long before he went to Albany. He had the good fortune to be born in the Fourth Ward. He is an old New Yorker of old New Yorkers in a district which, in his young days, was one of the in his young days, was one of the latter than the six formed a little with Pasquale Portfolio as President and Treasurer and Goldman as Secretary, to continue as A. Portfolio & Co.

After he had turned over his business Mr. Portfolio said:

"These men are receiving only what they have earned by enthus-

and the rest of the world explained by spoilation of others but rather to you by old salts; to play baseball by helping others to help themwas also voted, without a dis-ing voice that, a copy of the lived a quiet and orderly life in ten with his father and a brother. what came to be a surviving Irish He went to the Public schools and Smith boy made friends with many origins as he grew up. It was an education to be a little brother to the age of twenty he was general manager at \$55 a week. rise. What lectures of what college could have done for him at eighteen what his New York was doing for him all the time? Would a Latin grammer teach what he learned as a boy "buff," haunting an engine house in John Street and rushing to fires with coffee can and sandwich

basket? To be a newsboy, an errand boy, truckman and the son of a truck-man—to take the degree of F. S. M. the memory of Cardinal Logue: truckman and the son of a truck (Fulton Street Market;) to keep learning from all sorts of people; to take life by the neck, as it tried to take him; through all to give a I was kindly received, and listened friendly shake to "the world's rough lieving. He has always been at the sick poor of all denominations streets, that university where Dickens studied all his life, he super-imposed a continual education from men and women. As he grew into political stature he got education from many eminent persons, from experts, and still from folks of all sorts and conditions. It is curious that so successful and popular a man as Edward VII. got his wide knowledge of affairs and the world much as Smith has got much of his,

by absorption after radiation Not that the Governor hasn't done a prodigious amount of "digging. There isn't a creek visible under the microscope in New York that he doesn't know. Nothing that ever

and of the waxing and waning of his moral problems which will provide a provisional plan of no little value when one wishes to approach the task of moral instruction by rational method and psychological insight."

STAGES OF MORAL PERCEPTIONS

A point of interest in the replies of the children was the order in which their moral problems appeared as they advanced in years. An analysis showed this order as follows: Religious acts, personal niety, divine worship, respect for the properties of the continued policy of silence in the discontinued. The Public Ledger have cancelled subscriptions to that matter by the Public Ledger have cancelled subscriptions to that matter by the Public Ledger have cancelled subscriptions to that matter by the Public Ledger have cancelled subscriptions to that matter by the Public Ledger have cancelled subscriptions to that matter by the Public Ledger have cancelled subscriptions to that matter by the Public Ledger have cancelled subscriptions to that matter by the Public Ledger have cancelled subscriptions to that matter by the Public Ledger have cancelled subscriptions to that matter by the Public Ledger have cancelled subscriptions to that matter by the Public Ledger have cancelled subscriptions to that matter by the Public Ledger have cancelled subscriptions to that matter by the Public Ledger have cancelled subscriptions to that matter by the Public Ledger have cancelled subscriptions to that matter by the Public Ledger have cancelled subscriptions to that matter by the Public Ledger have cancelled subscriptions to that matter by the Public Ledger have something of a "grind" in history of the United States and the Federal Constitution and laws and those of this State. He seems never to forget anything. He carries facts and figures in his memory with an almost uncanny accuracy. In addition to his early advantages, his easy assimilation of knowledge, the minds fed on books that are glad to pump themselves into him, he has a distinctive means of self-improvement and education. In a w

## NEVER WATCHED CLOCK

MILLIONAIRE ITALIAN SAYS FIELD OF OPPORTUNITY WIDENING

Almerindo Portfolio, who came to this country from Italy when he was a boy and amassed a fortune in the cloak and suit industry, retired yesterday at the age of forty-seven

ing and relinquished a business which, it was said yesterday, had a \$7,000,000 turnover last year. In giving it away he told his employees "not to watch the clock." He then left for the West Indies on a vaca-

It was about four months ago that Mr. Portfolio began to think of retiring. Some time afterward he called into his office six of his employees who had been most active in ouilding up the business.

"Boys," he said, "I'm going to retire and rest." And when there were expression of regrethe added:

were expression of regret he added:
"What's more, I'm going to give
the business to you."
One of the six was Portfolio's
brother, Pasquale. The others
were Samuel A. Goldman, Mills
Shenck, Edward E. Nathan, Samuel
H. Pasternak and Edward J. Scully.
They had been with Partfolio form

where he served so long and with so admirable and various competence, forgot many of his student His singular and successful with Pasquale Portfolio as President and Treasurer and Goldman as

in his young days, was one of the most vigorous, interesting and thoroughly living pages of the great book of New York. A good education began for him when he was hern on the waterfront. Some education began for him when he was born on the waterfront. Some of us look back with regret to that old South Street lined with ships. Figureheads were almost as thick on South Street 'as wooden Indians before cigar stores all over the town. A walk in South Street was foreign travel.

In umerous now than ever. The field is widening, not closing. Opportunities are multiplying, but only study. To the man who becomes so engrossed in his work that he forgets the clock there is assurance of great success. But let not his efforts be merely selfish. Let him

Born in Italy in 1878 young Portthere. The Smiths and their kind folio came to America at the age of lived a quiet and orderly life in ten with his father and a brother. settlement colonized by many races; at the age of fifteen became an but what a show, what an educa-tion, those streets were! The Smith boy made friends with many

> THE DAUGHTER OF ARMAGH'S PROTESTANT PRELATE LAUDS CARDINAL LOGUE

> Miss Alexander of Armagh, whos father was Protestant Archbishop of Armagh, in a letter to the Armagh District Nursing Associa-

"I can never forget that one day. very shy, but very determined, I went and asked to see the Cardinal. to with patience and sympathy these also were courses in From that day a community the boy's education. He didn't interest and a knowledge of the "leave school" at fourteen, as he desire of both sides, in spite of differences on vital subjects, to help differences on vital subjects, to help school. Upon the education of the made a bond between us that might justly be called a bond of real friendship.

"That bond led the Cardinal to speak publicly of me and my work in such a kind and chivalrous way as could be never forgotten.

"It now urges me to add my memories of a fine Irish character, of a distinguished fellow-countryman. His counsel became helpful to me in many dangers and difficulties of the organization.

"I realize strongly today that the flourishing state of the Association owed much to his tact and wisdom. When I visited him on his hill, or on the rare occasions when he came was in an appropriation or any to my father's house, it seemed to other kind of bill escaped his vision me that to the simplicity born of his early life and to his general character were added something of

and life-work, the country for which he wished true patriot peace in her borders; above all, there was his love of mankind and his tenderness toward all suffered."

## SISTERS OF SERVICE

ARCHBISHOP SINNOTT ON THE IMPERATIVE NEED OF THIS NEW ORDER

The magnificent reception which was recently held in honor of the Sisters of Service under the distinguished patronage of the Archbishop of Winnipeg and attended by a large crowd from all parts of the Western Metropolis, has prompted the following letter of His Grace to Father Daly C. SS R

Father Daly, C. SS. R. This document places in bold re-lief the religious and social value of the missionary endeavor of the Sisters of Service. The proper assimilation of our Catholic New-Canadians is undoubtedly a problem fraught with the greatest and farreaching consequences for the Church in our Country.

The reading of Archbishop Sinnott's letter will be an encouragement to all who support by their prayers and their offerings the great Catholic and National endeavor of the "Sisters of Servine".

Archbishop's House, Winnipeg. December 31st, 1924.

Dear Father Daly.—Yesterday we held a Public Reception here in honor of the Sisters of Service, and I can say that it was a great success. In numbers and in enthusiasm it was very satisfactory. I enclose the "Announcement" which appeared last week in the North-west Review. Most assuredly the Catholic people of Winnipeg took advantage of the opportunity to show interest in the work which is being done by the Sisters of Service.

May I take this occasion to say that I am immensely pleased with that I am immensely pleased with the Sisters of Service as I see them at work. For four months now they have been at Camp Morton, and I can say without any reserve that their labors have been crowned with success. They have set themselves to their task with great zeal and devotion, they have gone about their work quietly and unostentaforeign travel.

What joy it must have been to go aboard and have nautical matters and the rest of the world explained and the rest of the world explained by spoilation of others but rather the heights of success are not achieved and the rest of the world explained by spoilation of others but rather the heights of success are not achieved and the rest of the world explained by spoilation of others but rather them. my conviction grow that the Sisters are an invaluable contribution to the solution of the problem presented by the New Canadian.

> The subject of the New Canadian is a vast one, and no one has a more comprehensive grasp of it than yourself. We want these strangers who have come into our land, to retain their Christian traditions, but you know the nefarious influences that are at work. So many anxious to take advantage of poverty and weakness; so many trying to drag them from their moorings, in the hope of profiting from their wreckage. And yet we all know that a young tree will seldom growand an old tree will never grow, when torn violently from the earth and transplanted. If we wish the New Canadians to grow and flourish on our Canadian soil and not be dead wood in our midst, it seems to me that we must bear this in mind. To train to Canadian citizenship and instil the principles upon which our order is established, we have some one who will bridge for the New Canadian the chasm between present environment and oldworld conditions. - some one who will reconcile and bind together all that is best and worth while in national and religious inheritance with what this country offers in prosperity, liberty and established government. The Sisters of Service, as an organization, are admirably adapted for this work. Each member is particularly trained for it, and each brings to the task the sympathy, the unselfishness, the devotion, the patriotism and the reverence for God and religion, that devotion. are the indispensable requisites for success.

But, if the Sisters of Service are going to do a tithe of the work that is to be done, they must be multi-plied many many times. And this is my prayer—whilst expressing deep gratification that the first western foundation was made in this jurisdiction-that from East and West, North and South, young ladies will come in numbers, inspired with the highest ideals, to join this new Crusade, which is indeed a crusade and calls for as

HOW FAR CAN MECHANISTIC PHILOSOPHY GO WITH ITS DENIAL OF GOD? Editor New York Times:

Now that the mechanistic philosophers with their scientific hammers have cracked the atoms, only to discover whirling solar systems therein, is it not time to inquire how far these savants expect to be able to go ?

Believing, as they unquestionably do, that the phenomenon known as "life," with its manifestations of "intelligence." is in some intimate way coordinated with "dead" matter, such as the metals and the cooks, only a weiting, the graiding. rocks, only awaiting the grinding up of these materials into "soil" in order to fabricate grasses, trees, birds and beasts and, lastly, man, such an admixture and as to the possibility of the "universe" de-veloping, by a "fortuitous concord-ance" of electrons, gigantic aggre-gations of intelligence, as well as the enormous globes of inert matter which are so widely distributed throughout space?

That intelligence does detach itself apparently from dead matter and become an entity with power to and become an entity with power to overcome fixed laws of nature is necessarily contended by those scientists who deny the existence of a controlling God whenever they see

law of gravitation. How far, then under favoring circumstances, which the mechanists might term "cosmic accidents," could vest accumulations of intelli gence gather together into operating entities, exercising their "wills"

upon surrounding matter?
Why say for a moment that men, the best developed creatures upon the earth, have acquired the largest

units of intelligence?

If the mechanistic conception be accepted, it carries with it a certain inevitable fact. In the so-called atom must reside the principle of

Within the atom must also reside the "laws of nature," intricate and varied as they are and unsurmountable except by the one power of intelligence, acted upon by that

baffling mystery called "will." In the atom must lie the power to cause reproduction of the various forms of organic things, both vegetable and animal.

the most terrible explosives ever which exist, from the blazing suns

in the heavens to the crawling insects upon the earth. The mechanist looks out into the infinite reaches of space and declares that he sees no God. Yet he deifies the atom as he studies it and gives it all of the creative powers of a

supreme being.
EDMUND H. WELLS. Washington, Dec. 1, 1924.

#### PRESBYTERIAN MODERATOR AND HIS CRITICS

The Moderator of the Preshy erian General Assembly, the Right Rev. Dr. Hamilton, has enraged Die-Hard opinion in the North. Speaking recently to his co-religionists in Dublin, he described himself as an Irishman to the backbone, praised the Free State Government for its courage and sincerity, and advised the Ulster leaders to modify their attitude towards the South. More daring still, he suggested that Partition, to which he was himself opposed, was unpopular in business circles in of 1925, and the Belfast, which would rejoice whole-be included in it. heartedly when the day of reconcil iation came and boundaries and boycotts were forgotten. The Nor-thern Whig and the Belfast Telegraph employ their choicest phrases in denouncing the Moderator's McCall, editor of the "Archæologicreed. Can it be that their language is inspired by a subconscious fear that Dr. Hamilton speaks for an increasing section of his people? -Irish Correspondence to Catholic Times.

There are three kinds of people and the can'ts.

# CATHOLIC NOTES

Copernicus, world's greatest astronomer, was a Catholic priest. There are still about 140,000,000 converted souls in Africa.

Excluding the chapels of religious communities, there are today 145 Catholic churches in London, as compared with only twenty-one one hundred years ago.

Rev. Paul Kam, a native Chinaman and Professor of Chinese in China Mission College, was raised to the order of Deaconship by His Grace, Archbishop McNeil on Sunday, December 14.

Paris, Dec. 12.—At the Carmel of Lisieux, Reverend Mother Marie des Anges, who was the Mistress of Novices of the Little Flower, has passed away at the age of eighty

years. Mrs. Anna Moskowitz Kross came to America as an immigrant. She educated herself and became a

Philadelphia, Dec. 29.—Death of the Rev. Michael P. Hill, S. J., noted Jesuit educator and author, has caused widespread sorrow here.

Dublin .- A movement is afoot in support of the preparation of an authoritative and impartial history of Ireland, compiled from the original records in Irish and foreign libraries. Through the destruction of the Public Record office, Four Courts, Dublin, many documents of historic interest were lost.

Father Galvin, now Right Rev. Monsignor Edward J. Galvin, who set out to China in 1912, returned to Ireland in 1916, founded the Chinese Mission Society, brought to China in 1920 a band of seventeen missiona bird flying overhead or a man aries, and has since increased the ascending into the sky, defying the number to fifty in the District of number to fifty in the District of Hanyang, has been created Prefect Apostolic by the Holy See There are 5,000,000 pagans in his Prefecture.

In the Pacific Ocean, fifty miles off the Japanese coast, the American Geological Survey announces, the Manchu, a Japanese man-o-war, made soundings to a depth of six and a quarter miles without reaching the bottom. The greatest depth previously recorded was off Mindanao, P. I., where bottom was reached at 32,113 feet, or 500 feet less than the above.

Geneva. — An international rail-road conference has been called tions. All forms and compositions of substances are resolved ultimately into varying combinations of electrons, beyond which there is Within the composition of the c Eternal City. Switzerland has a peculiar problem, as besides her own thousands of pilgrims, many

The original Parsifal series of drawings, based on the German version of the Holy Grail and etched by the eminent Austrian artist, Edmund Von Worndle, have been Again, the atom possesses titanic Col. Michael Friedsam, it was anowers far mightier than those of nounced recently. The drawings, the most terrible explosives ever which have been heirlooms of the Worndle family were brought to America from the family home at Finally, the atom contains the factors which produce all things Innsbruck, Austria, several months ago.

> Dr. Augustus Von Galen, O. S.B., an Austrian Count by heredity and prior to his death Court Chaplain to Emperor Francis Joseph, arrived in New York before Christmas. His object in visiting America is to establish branches in the United States of the Catholica Unio (Catholic Union), a society of which Father Galen is himself the founder, designed to promote the return of Oriental Christians, particularly Russians to the Communion with the Chair of Peter at Rome, the center of Catholic Unity.

> "Maria Chapdelaine," Louis Hemon's novel, which has been described as one of the most successful works written on French Canada by a French author, will be soon shown on the stage, according to an announcement made by Firmin Gemier, director of L'Odeon of Paris. France's leading pro-

> ducer would not disclose exactly what were his plans in this connection, but it appears that the play will be given in Canada in the fall of 1925, and that music will also

London, Eng.-The famous Yorkshire woolen industry was founded by monks of Kirkstall Abbey, denouncing the Moderator's cal Journal, in a lecture this week, plied rejection of the Orange The monks of Kirkstall, he said were pioneers in agriculture. They reclaimed swamps, started stock-breeding on a big scale, besides founding the Yorkshire woolen industry. They also had iron works and blast furnaces, and Mr. McCall said he had little doubt that the big Kirkstall Forge Company was really in the world; the wills, the won'ts, started by monks six or seven centuries ago.