AIRIDIIAI

"HOLD FAST THAT WHICH IS GOOD."

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PORURTA.

THANK-OFFERING.

(BY THE LATE LADY FLORA HASTINGS.)

In every place, in every hour,
Whate'er my wayward lot may be;
In joy or grief, in sun or shower,
Father and Lord I turn to thee.

Thee, when the incense-breathing flowers Pour forth the worship of the Spring, With the glad tenants of the howers My trembling accents strive to sing.

Thee, when upon the frozen strand
Winter, begirt with storms, descends;
Thee, Lord! I hail, whose gracious hand.
O'er all a grander was accorded. O'er all a guardian care extends.

Thee, when the golden harvests yield Their treasures to increase our store; Thee, when through ethers gloomy field The lightnings flash and thunders roar.

Thee, when athwart the azure sky The starry hosts their mazes lead,
And when thou sheddest forth on high
Thy dew-drops on the flowery mead.

Thee, when my cup of bliss c'erflows—
Thee, when my heart's best joys are fled;
Thee, when my breast exulting glows—
Thee, while I bend heside the dead.

Alike in joy and in distress,
Oh! let me trace thy hand divine;
Righteous in chast'ning, prompt to bless,
Still, Father! may thy will be mine.

LITERATURE.

AN ADDRESS DELIVERED BY THE REV. USEFUL KNOWLEDGE," AT BATHURST, NEW BRUNSWICK.

[CONTINUED.]

I PROFFER these remarks as pointing out something like the course which we ought to follow. In order to an Association attaining to any thing tike a good degree of success, every member should regard his membership as pledging him bona fide" to discharge that share of the business which shall properly fall to him. Difficulties and discouragements, and these of no culties and discouragements, and these of no trifling nature, there doubtless are in the way, but surely it were exceedingly discreditable to us, both individually and collectively, if; owing to their existence to their existence, we were to fold our hands in sluggish apathy, or in selfish indifference regood. Still more would it be so, should we prefer to spend our time and strength in folly and fer to spend our time and strength in folly and dissipation. We ought to remember that our capabilities and apportunity capabilities and opportunities have been entrusted to our stewardship by the great Lord of creation and hounteons beaut ation and bounteous benefactor of all, who will require of us an account require of us an account of the manner in which we execute the trust with which we have been charged. It is by charged. It is by struggling with difficulties and discouragements that we overcome them.— In the efforts thus required and put forth, the mind is nerved, expanded, and in every respect improved. The very expanded improved. The very exertions necessarily bestowed upon even endeavouring to conquer obstacles, infallibly procure their own reward. or not completely successful as to the desired only have the testimony of "the man within the shall also be the more likely to succeed in any shall also be the more likely to succeed in any

A glance at the experience of a few of the most distinguished of philosophers,—of some of

the brightest luminaries that go to form the galaxy of the scientific world, may evince how many were the discouragements and difficulties with which they had to contend. By looking for a moment to the history of these master spirits, we shall perceive a little of the opposition that asailed them.

The true theory of our planetary system was revived and improved by Copernicus in the beginning of the sixteenth century. I use the word revived, for though from him it took, and justly obtained the name of "the Copernican system," what Copernicus effected was perhaps rather a restoration than a discovery. This theory holds that the sun is at rest in the centre of the planets which revolve around him, forming what are called the primary planets; these again have their satellites, or secondary planets, or moons, which revolve around them. Thus our moon revolves about the earth, which again annually revolves about the sun, as well as daily upon its own axis, which latter motion of the earth is the cause of the diurnal motion of the heavens. Pythagoras and several ancient philosophers were aware of "the true system of the world," and taught it. But after the time of the celebrated Archimedes who adhered to it, it was neglected until it became unknown. It remained in oblivion during a long lapse of ages, until the illustrious Prussian* again brought it to light, and exhibited its lustre and beauty in a manner previously unknown. This distinguished man, after his return to his native country, from his travels in Italy and from Rome, where he had held a Mathematical Professorship, ap-N ADDRESS DELIVERED BY THE REV.

GEORGE McDONNELL, AT THE OPENING
OF "THE ASSOCIATION FOR PROMOTING
USEFUL KNOWLEDGE" AT PARTITIONS

NEW YORK AND THE REV.

He had held a Mathematical Profession, applied himself diligently to improve the science of Astronomy. His uncle, the Bishop of Warmia, had appointed him to a canonry, but his inclination led him rather to the investigation of scientific principles, data, and facts, than to engage in ecclesiastical labours. We have the fruits of his researches in his Latin treatise "On the Revolutions of the Celestial Orbs," in which he maintains that the sun occupies the centre, round which the earth and the other planets re-

Notwithstanding the beautiful simplicity and perspicuity which pertain to this theory, it was at first but coldly received, even by those who were not unfavourable, while by many more it was altogether repudiated and condemned.—What is very remarkable, Tycho Brahe, the Danish Astronomer, numbered himself among its adversaries. This ingenious theorist, whose observations are a practical extraporary are adobservations as a practical astronomer are admitted to be highly valuable, regarded "the doc-trine of the earth's motion as untenable, without abandoning the testimony of scripture: hence, he was led to imagine another system which bears his name; in which the sun, with all the planets and comets revolving round him, is supposed to perform a revolution about the earth in a solar year, while at the same time. all the bears of the falsehood and tyranny that absurd malice of the falsehood and tyranny that enthralled the philosopher. It is said that when enthralled the philosopher. It is said that when enthralled the philosopher, against the absurd malice of truth gave rise, against the absurd malice of truth gave rise, against the absurd malice of the falsehood and tyranny that enthralled the philosopher. It is said that when enthralled the philosopher, as the possible of the falsehood and tyranny that enthralled the philosopher. It is said that when enthralled the philosopher, as the possible of the falsehood and tyranny that absurd malice of the falsehood and tyranny that enthralled the philosopher. It is said that when enthralled the philosopher, as the property of the falsehood and tyranny that absurd malice of the falsehood and tyranny that enthralled the philosopher. It is said that when enthralled the philosopher, as the property of the falsehood and tyranny that absurd malice of the falsehood and tyranny that enthralled the philosopher. It is said that when enthralled the philosopher is the philosopher in the conviction of truth gave rise, against the absurd malice of the falsehood and tyranny that absurd malice of the fa a solar year, while at the same time, all the heavenly bodies are supposed to be carried round the earth, from east to west, in twenty

sume to judge concerning them, and dare to condemn this treatise because they fancy it is inconsistent with some passages of scripture, the sense of which they have miserably perverted, I regard them not, but despise their rash

* Copernicus was a native of Thoro, in West Prussia. It is situated on the right bank of the Vistula.

† Murray's Encyclopedia of Geography, page 100.

censure." Such was his distrust of the intolerance which prevailed, and pervaded the minds of men, that several years clapsed after the com-pletion of this treatise, before he could venture to allow the manuscript to be sent for publication; and it was only a few hours before his death that a printed copy was presented to him, as a token of assurance that his views should go forth to the world, while he himself would be alike beyond the assaults of prejudice and persecution.

I may next refer to another "illustrious astronomer, mathematician, and philosopher,"—to Galileo of Pisa. If Copernicus suffered and was annoyed by reason of the ignorance and the superstition, the obstinacy and the presumption that swayed the prince and the peasant, the priest and the people, much more was Galileo made to feel their influence. In fact, he experienced the rage and the malignity of the spirit of persecution that obtained during the unbridled reign of terror. Having heard of the invention of the telescope by Jansen, he also succeeded in contract the second of the seco ceeded in constructing one, and thereby effected a series of the most important astronomical discoveries. "He found that the moon, like the earth, has an uneven surface, and he taught his scholars to measure the height of its mountains by their shadow. A particular nebula he resolved into individual stars; but his most remarkable discoveries were Jupiter's satellites, Saturn's ring, the Sun's spots, and the starry nature of the milky way. The result of his discoveries was his decided conviction of the truth of the Copernican system."* His meritorious disclosures met, for a length of time, with neglect. This induced him, in 1631, to communicate them to Philip II. of Spain, but that him gotted prince was unable to appreciate their importance, and afforded him little or no encouragement. He met with a better reception from the Dutch. They sent Hortensius and Bleau to Florence to confer with him. This would have been cheering, but on the arrival of the deputation, they found this great man nearly overwhelmed by the storm which the Church of Rome had raised against him. Having been thrown into prison, he could only obtain a mitigation of his confinement by asking pardon on gation of his confinement by asking pardon on his knees, for asserting that the earth moved round the sun. Twice was he brought under the tender mercies of the inquisition; first in in 1615 and again in 1633. On each occasion he was compelled to abjure the system of Copernicus. We can scarcely help being amused with the probably involuntary protest to which the conviction of truth gave rise, against the

The setting of this luminary in the scientific world, was, it is remarkable enough, contemporaneous with the rising of another, and perparaneous with the rising of another, and perparaneous with the rising of another, and perparaneous with the rising which Newton the result which the result whi play their hostility, that in his prefatory address to the Pope, to whom he dedicated his great work, these words occur. "If there be any who, though ignorant of mathematics shall pressure to judge."

Inaps, still more resplendent sun. Galileo died in 1642, the year in which Newton, the "first of philosophers," was born. The true idea of the motion of the planets, which had been formed by Pythagoras, five hundred years before sume to judge. sixteenth century, was by this most eminent mathematician and astronomer firmly established. The amiable mildness of his character shines conspicuously, and is rendered the more conspicuous from its union with unshaken resolution and indomitable perseverance. Safe from the rage of that vindictive persecution, to which

* Maunder.