

enquire into her secrets. His independent mind sought walks unknown to vulgar spirits, and there beholding the forces that played and the entities that existed around him, he enriched his mind and enriched the world with scientific truth. He studied the various manifestations of matter not merely for the present benefit of knowing their practical use, but for the ever abiding profit and pleasure of knowing what they were. He asked of a substance not only, what can it do, but, what is it? He would see a force not only doing or acting, but being and becoming. His happiness lay not in the utility of his discoveries so much as in "the knowledge that." His was the reward of mental riches, and not the pay of a patent. Columbus-like he would discover new worlds; let others people their shores and gather their wealth. His love for knowledge was the moving principle of his life. Upon this love and the consequent enthusiasm in his work his great success was founded. He began at the bottom of his life's work and mastered every step as he advanced. He built the ladder by which he rose, and he climbed "to the summit round by round." In that upward toiling each hand was firmly clasped and each foot securely placed. He never rested in doubtful knowledge, unproved hypotheses. He was imaginative, but he loved a fact. To his active brain, one idea was the associate of another that waited but the master's time for its introduction. An idea would appear, would be examined in relation to many other things; a theory would inevitably result, and along its line his experiments ran till *false* was stamped upon the theory, or *eureka* written on a scientific fact. A fact once discovered was for him but a foundation—a basis of operations. From it he started out, ever increasing the circle of his reasonings, ever reaching wider conclusions. His decision was slow upon philosophical matters, and consequently he was free from prejudice. He did not place an opinion that was not open to conviction across the path of advancing knowledge. The vastness of nature's realm, and the intricate working of her laws, contrasted with the uncertainty of human perception, led him to pronounce against