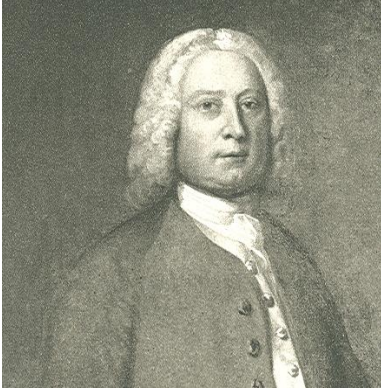


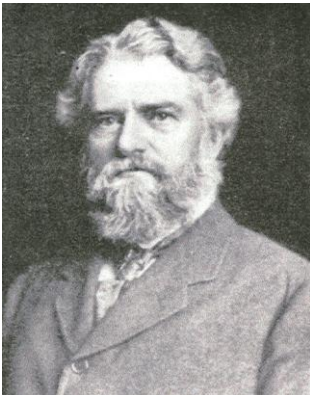
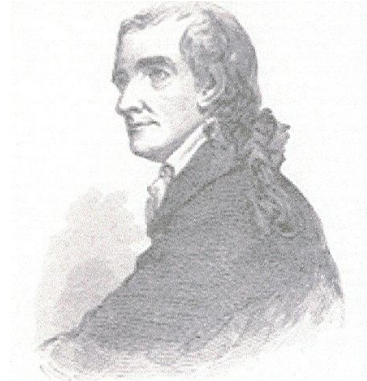
**Quiz to accompany Observational Astronomy at the  
University of Pennsylvania 1751 – 2007  
by Robert H. Koch**

Some men mentioned in the main narrative set in train events of significance for that history but they were not themselves important enough to merit a picture or portrait in it. A selection of these people appears below with précis of why I cite them now. For convenience, the images are mostly copied from *Wikipedia* but the text contents are from print sources or my own knowledge. I've made a game of the identifications.



When my father died, I (1702-1775) was 17 years old and went to London to work as a mercer's assistant. Although raised a Quaker and Friend, my marriage late in life and some political experiences convinced me to adhere to the Established Church. During my time as Proprietor of the Pennsylvania colony, there was annoying friction with the Assembly and the Quaker merchants of Philadelphia who wanted the French and the Indian tribes to be ejected from the western lands that they occupied but didn't want to pay for that effort and didn't want to serve in a militia. When an Anglican divine asked for assistance to buy some astronomical hardware, I was happy to accommodate him. My father and possibly even my one grandfather are better known than I.

You might imagine that my faraway stare is that of an artsy person and I (1737-1791) will say that I have had more than a few consequential attainments in the fine arts. Some of these are not only remembered but even performed in the modern day. I was also an able public servant repeatedly and this led to some grief. I became the first student enrolled at the College of Philadelphia and profited by that opportunity. An open-air effect that I observed accidentally one evening in my neighborhood and communicated to a man much smarter than I led to the first fabrication of an important scientific instrument and to its understanding. Can you guess my identity?



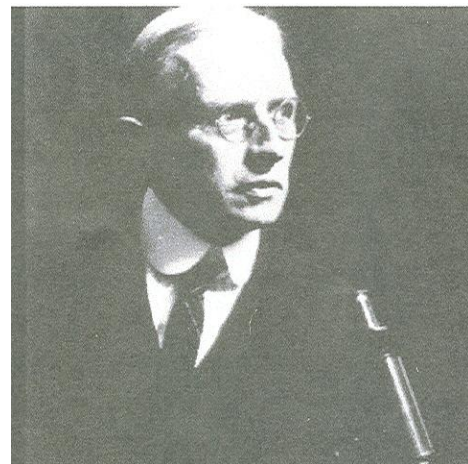
Nova Scotia was where I (1835-1909) was born but I made my scientific career in the United States. One could say that for a few decades I was publicly the most visible astronomer in North America. My word and presence counted for something also in governmental scientific affairs and I had the pleasure of being asked to be the guest speaker at dedications of new establishments. You might think it tedious to have to compose a new talk for each such occasion but I enjoyed it and considered it an opportunity to present a compelling and accurate representation of astronomical science and its future to people who would otherwise not be exposed to such an important matter. About the Solar System I knew almost everything that was known in my time. Most probably, you have heard of me.

My life (1846-1912) fell in an interval when North American astronomy and physical science in general were trying to establish their identity and validity. Very few career opportunities existed and most of these inevitably were filled by men whose families were comfortable enough to send them to a college or university. I was one of those fortunate individuals – a Dartmouth grad – but I actually started to make my name with a multi-year international surveying project. This experience led naturally into fundamental astronomy and I might be considered the inadvertent godfather of geodetic studies at the University. My son, Benjamin, who lived to an immense age, had a considerable career of his own and composed a very nice bio of me. Is it possible that I, the second editor of the *AJ*, am still remembered?



I (1874-1937) was an international personality, perhaps the best known of all my countrymen for most of my life until an arriviste journalist became a politician. I was also rich because of my drive to pursue the applications of my inventions and because still richer people understood that they could profit by supporting me. Lots of honors came my way and eventually I was even ennobled. I may or may not have increased the understanding of Gustavo Cook on matters of transmission and reception of wireless messaging. You have undoubtedly used modernized versions of some of my inventions many times.

For about 3 decades I (1877-1957) was the preeminent astrophysicist in North America and maybe even in the world. I was also a relentless publicist for all of astronomy because, the more the layman and amateur knew of the science, the more the pursuit of knowledge would be supported. I don't mean to suggest that I knew everything, and some routine duties – such as making sure that my colleagues were paid on time – were not always my highest priority. My son-in-law Frank also had an estimable career, not only in academic life but also as a long-serving officer of the AAS. He wore a red tie while giving his annual report in order to signify that the Society budget had again run a deficit. Ed, a son-in-law of Frank, became a fine stellar spectroscopist and photometrist and has now somewhat retired. Every undergrad student of astronomy knows my name and some of my work.



In order of appearance, the names of the men are disguised here by a simple and unique substitution cipher:  
Nqdacl Fkbb, Mjcbgsl Qdfwsbldb, Lsadb Bktgdae, Ykpsl Edll, Opoyskyad Acjgdb, and Qkbjx Bdjjsl  
Jpllkyy.

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