



Mary Kombolias shares her work on a new method of fiber analysis of paper.

Einsteins'—individuals who would have had highly impactful inventions had they been exposed to innovation in childhood—especially among women, minorities, and children from low-income families.”

Like many innovators, the hint of invention sent McPherson on a years-long information-gathering mission. Some 6 months would pass before he was sufficiently confident to apply for a research grant. In time, the National Eye Institute and the National Cancer Institute would fund McPherson’s work with five grants totaling \$1.15 million through the National Institutes of Health’s Small Business Innovation Research program. McPherson holds 6 patents and has authored 14 scientific research papers.

Progress accelerated in 2010 when he and mathematician Andrew Schmeder cofounded EnChroma, Inc., a Berkeley, California-based company that now uses proprietary lens technology to produce eyeglasses that can help correct color vision deficiencies impacting at least 300 million people across the globe. McPherson is EnChroma’s chief science officer. Schmeder is its chief executive officer.

Like many inventors, McPherson’s discovery emerged from an early desire—in his case, to become a glass sculptor. It turned out that his visit to Alfred University after graduating from college revealed that it no longer offered a Master of Fine Arts degree in glass making. Instead, a professor advised him to visit the engineering school. McPherson would go on to apply an inventor’s curiosity, determination, and persistence to earn a Master of Science and a Ph.D. from the university.

In keeping with the foundational feature of today’s inventions, the journey drew from a broad mix of scientific disciplines. At EnChroma,

McPherson stopped designing glass lenses and experimented with a range of optical coatings, one used by the aerospace industry. Later, he zeroed in on a military-grade material with the quality of optical glass but none of its heavy density and found “an ideal material.”

The glasses have transformed the lives of children and adults across the world. The moment someone sees colors for the first time prompts powerful emotional responses, McPherson said.

A color-blind marine biologist once reached out to EnChroma seeking a color-vision-correcting scuba mask to allow him to advance his work through underwater research. The marine biologist wrote EnChroma after receiving his scuba goggles, reporting: “My life has changed.”

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In October 2018, the Council of the American Association for the Advancement of Science elected 416 members as Fellows of AAAS. These individuals will be recognized for their contributions to science and technology at the Fellows Forum to be held on 16 February 2019 during the AAAS Annual Meeting in Washington, D.C. Presented by section affiliation, they are:

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