

2021 NATIONAL INVENTORS HALL OF FAME INDUCTEE

Born: June 10, 1948

Primary Connections:

- Western Clinical Engineering Ltd.: Founder, President
- Delfi Medical Innovations Inc.: Founder, Chair
- Vancouver Hospital & Health Sciences Centre: Director, Biomedical Engineering Department, 1975-90

Education:

 University of British Columbia: BASc, Electrical Engineering, 1971; Ph.D., Electrical/Biomedical Engineering, 1975

Key Memberships/Awards:

- Officer of the Order of Canada, 2011
- Canadian Medical and Biological Engineering Society: Fellow, 2006
- Ernest C. Manning Awards
 Foundation: Principal Award,
 1997

10 Things You Need to Know About

James McEwen

Inventor of the Automatic Surgical Tourniquet

U.S. PATENT NO. 4,469,099

- McEwen's father contracted polio and became a paraplegic when McEwen was 6 years old. He continued to work despite his condition and took up electronics as a hobby. McEwen credits his father for sparking his interest in electronics, and for showing him how to respond to challenges and how to innovate.
- 2. His father also made components that McEwen incorporated into the first automatic surgical tourniquet prototype.
- 3. McEwen was such a keen reader as a child that the local public library appointed him to review books that would be kept at the library.
- 4. McEwen notes that he was born around the time the transistor was invented, received an electrical engineering degree the year the microprocessor was invented, and earned a doctorate around the time the personal computer came into being.
- 5. He is a Fellow of the Canadian Medical and Biological Engineering Society.
- 6. He has received honorary degrees from the University of British Columbia and Simon Fraser University.
- 7. In 2011, McEwen was appointed as an Officer of the Order of Canada for his contributions to biomedical engineering.
- 8. He is a trustee and vice president of the Board of Trustees of the Ernest C. Manning Awards Foundation.
- 9. He says, "A patent application is the great equalizer. It was a valuable tool to obtain investment, be entrepreneurial and take that innovation where it could go."
- 10. McEwen is named on more than 80 U.S. patents.

