

SIMON FRASER UNIVERSITY

TO ALL WHOM THESE PRESENTS SHALL COME, GREETING:

BE IT KNOWN THAT WE, THE CHANCELLOR,
THE PRESIDENT, AND THE SENATE OF SIMON FRASER UNIVERSITY
HAVE CONSTITUTED AND CREATED

JAMES A. McEWEN

WHO MERITS THE HIGHEST DISTINCTION AND HONOUR

DOCTOR OF SCIENCE *HONORIS CAUSA*

AND HAVE GIVEN AND GRANTED HIM ALL RIGHTS, PRIVILEGES,
AND HONOURS PERTAINING TO THIS DEGREE.

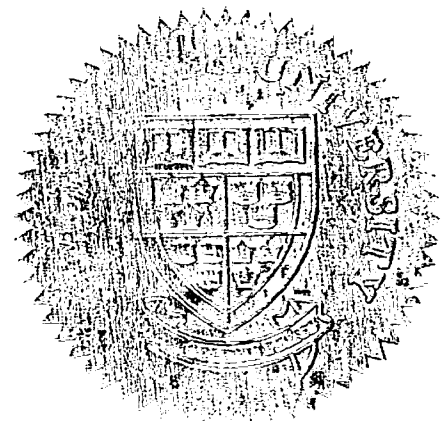
IN TESTIMONY WHEREOF, WE HAVE SEALED AND SUBSCRIBED

THIS DIPLOMA BY OUR HAND,
ON THE FIFTH DAY OF JUNE
TWO THOUSAND AND NINE

CHANCELLOR

PRESIDENT & VICE-CHANCELLOR

REGISTRAR



Mr. Chancellor, Dr. James McEwen is a world-renowned biomedical engineer whose talent for technological innovation, combined with an entrepreneurial spirit and a profound commitment to the public good, has brought great benefits to British Columbia.

He earned a Ph.D. in electrical engineering at the University of British Columbia and began his remarkable career at Vancouver General Hospital, where he founded and served as Director of the Biomedical Engineering Department. Realizing that electronic technologies could improve many medical devices, he formed his first company, Western Clinical Engineering Ltd., and subsequently invented a revolutionary microprocessor-controlled automatic tourniquet system, which is now used daily in thousands of surgical procedures world-wide. This was but the beginning. Today, James McEwen holds 160 patents for a wide variety of medical devices. As a result of the success of his surgical tourniquet-related inventions, he was honoured with the \$100,000 Principal Award for Innovation in Canada from the Ernest C. Manning Awards Foundation.

With the greatest respect and affection, peers call James McEwen the grandfather of the bioengineering industry in BC. He has not only founded several companies, but he has also graciously shared his knowledge and experience with others. He led the creation of the Medical Device Development Centre, a not-for-profit centre that encourages the collaborative development of new medical technology. And to help other researchers realize their dreams, he has been a generous investor in new medical technology companies.

His good will has also touched the broader community. When he was President of the ALS Society of British Columbia, he initiated an annual design competition to improve the quality of life of those living with Lou Gehrig's disease. He has also established numerous scholarships to provide educational opportunities to those who might not otherwise have them. As an Adjunct Professor at the University of British Columbia, he has mentored graduate students for more than twenty years. And as an Adjunct Professor in our School of Engineering Science, he has given us the benefit of his insight for more than two decades. Indeed, our new Biomedical Engineering Program traces its origins to his sage advice. More recently, he chaired the Advisory Committee for the Faculty of Applied Sciences, and again, he generously shared a wealth of industrial and administrative experience with us.

Mr. Chancellor, on behalf of the Senate of this university, I ask that you now confer upon Dr. James McEwen the degree Doctor of Science, *honoris causa*.