

The University of British Columbia Bancouver, Canada

The Chancellor of The University of British Columbia with the approval of the Senate upon the recommendation of

The Faculty of Graduate Studies

has conferred the degree of Anctor of Philosophy

on

Obi Lee Griffith

In Witness Whereof and by the authority duly committed to us we have hereunto set our hand and seal

May 2008

THE RESERVE OF THE PARTY OF THE

Brus. J. Sifzer Registrar Chancellor

) President

Dean