



# UNIVERSITY OF ABERDEEN

By authority of the Senatus Academicus  
the Degree of

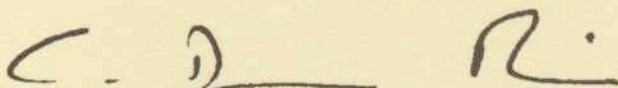
**Doctor of Philosophy**

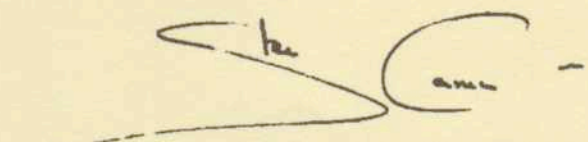
was conferred upon

DARREN HUGHES

ON 8 JULY 2003



  
Principal & Vice-Chancellor

  
University Secretary