



HERIOT-WATT UNIVERSITY

We, the undersigned Principal and Vice-Chancellor of the University, the Head of the School of Energy, Geoscience, Infrastructure and Society, and the Secretary of the University, certify that

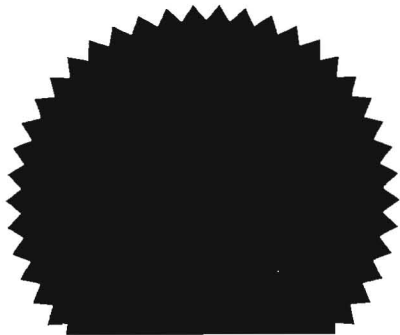
Chuthamat Chiamsathit

*has undertaken research and satisfied the examiners
and, by resolution of the Senate, been awarded the degree of*

Doctor of Philosophy

and is entitled to all the academic privileges attendant thereto.

*In witness whereof this certificate is sealed with the Common Seal
of the University on the Seventeenth day of November 2016.*



[Signature]

Principal and Vice-Chancellor

[Signature]

*Head of the School of Energy,
Geoscience, Infrastructure and Society*

[Signature]

Secretary of the University