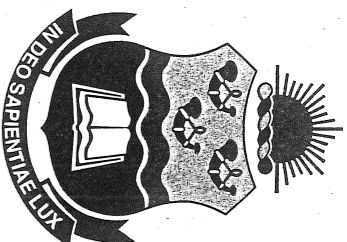


UNIVERSITEIT
VAN DIE
VRYSTAAT



UNIVERSITY
OF THE
FREE STATE

HIERMEE WORD VERKLAAR DAT NADAT AAN DIE
STATUTE EN REGULASIES VAN DIE UNIVERSITEIT
VOLDOEN IS, ONDER MEER DEUR DIE VOOR-
LEGGING VAN 'N PROEFSKRIF GETITEL

IT IS HEREBY CERTIFIED THAT, IN ACCORDANCE
WITH THE STATUTES AND REGULATIONS OF
THE UNIVERSITY, AND PURSUANT TO THE
SUBMISSION OF A THESIS ENTITLED

THE DEVELOPMENT OF AN ENVIRONMENTAL MANAGEMENT SYSTEM FOR
THE SOUTH AFRICAN NATIONAL ROADS AGENCY LIMITED BASED ON THE
ISO 14001 ENVIRONMENTAL MANAGEMENT SYSTEM STANDARD

DIE GRAAD THE DEGREE

Philosophiae Doctor (Ph.D.)

in Omgewingsbestuur
in Environmental Management

TOEGEKEN IS AAN
HAS BEEN CONFERRED UPON

JOSEPHINE BOTHMA

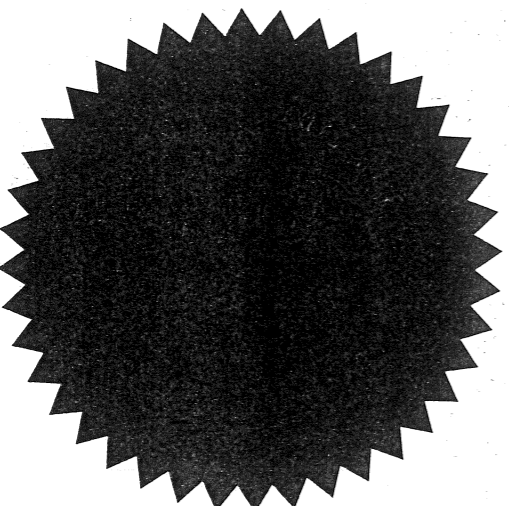
AS BEWYS DAARVAN PLAAS ONS ONS ONDER-
SKEIE HANDTEKENINGE EN DIE SEËL VAN
DIE UNIVERSITEIT HIERONDER.

AS WITNESS OUR RESPECTIVE SIGNATURES
AND THE SEAL OF THE UNIVERSITY
BELOW.

A-J Bothma
.....
VISEKANSELLIER/WICE-CHANCELLOR

G. Marwick
.....
DEKAAN/DEAN

[Signature]
.....
REGISTRATEUR/REGISTRAR



BLOEMFONTEIN
2002-09-13
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