

BE IT KNOWN THAT THE TRUSTEES OF

Purdue University

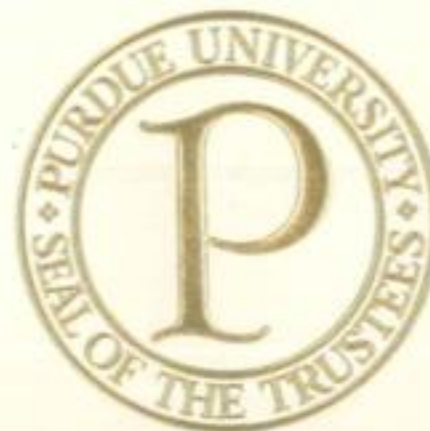
UPON NOMINATION OF THE FACULTY
HAVE GRANTED TO

JOSHUA M. PAIZ

THE DEGREE OF
DOCTOR OF PHILOSOPHY

IN RECOGNITION OF THE FULFILLMENT OF THE
REQUIREMENTS OF THAT DEGREE
AWARDED FOR STUDY AT WEST LAFAYETTE IN THE STATE OF INDIANA
AUGUST 7, 2015.

Michael R. Beyhoff
CHAIRMAN OF THE TRUSTEES



Mitchell E. Daniels, Jr.
PRESIDENT OF THE UNIVERSITY