



UNIVERSITY OF THE PHILIPPINES
SCHOOL OF
STATISTICS

COLLOQUIUM ON THE STATISTICAL SCIENCES

THE SCHOOL OF STATISTICS

University of the Philippines

invites all students and faculty to a professorial chair lecture on

“Effect of Rural Infrastructure and Capacity-Building on Agricultural Production and Agricultural Prices”

To be given by:



Dr. Erniel B. Barrios

Professor, UP School of Statistics
SEARCA Regional Professorial Chair Grantee for 2016/2017

16 March 2017, Thursday
4:00 PM to 6:00 PM
Colloquium Room
2nd floor UP School of Statistics Building

ABSTRACT

The Agrarian Reform Level of Development Assessment (ALDA) of the Department of Agrarian Reform collects community-level information among agrarian reform communities (ARC). Various indicators on availability of and needs for infrastructure and capacity building activities are available. Data were aggregated at the provincial level and linked to production and prices of selected commodities. The space-time dynamics are analyzed using spatio-temporal models, while technical efficiencies are estimated using a spatio-temporal stochastic frontier model. This paper exhibit how rural infrastructure and capacity building activities enhances efficiency of farmers in accessing production resources that leads to higher productivity and lower prices.