Science and Mathematics Behind Road Network Design
by: Dr. Crispin Emmanuel D. Diaz

27 August 2014, 1:30 p.m.
Auditorium, Dolores F. Hernandez Hall
UP NISMED, Diliman, Quezon City

PROGRAM

National Anthem

Welcome Remarks
Dr. Soledad A. Ulep, Director, UP NISMED

Public Lecture
Dr. Crispin Emmanuel D. Diaz

Open Forum

Master of Ceremonies
Eligio C. Obille Jr.

About the Lecture

In countries like the Philippines where heavy traffic is a major issue in its crowded cities, urban planning plays a crucial role. But what is urban planning? What are the major considerations in urban planning? How does proper urban planning help address transportation-related problems in major cities of our country? How do planners approach road network design?

In this lecture, an overview of urban planning and its major considerations are presented. Focusing on the interaction between land use and transportation demand, road network design is discussed. In the course of the discussion, scientific and mathematical concepts supporting proper road network design are highlighted.

About the Speaker

Dr. Crispin Emmanuel D. Diaz is an Associate Professor at the School of Urban and Regional Planning (SURP) of the University of the Philippines Diliman. He is also currently the Director for Research and Publications of the said UP unit.

Dr. Diaz earned his Bachelor of Science in Civil Engineering degree from the University of the Philippines Diliman in 1993. He also earned his Master of Science in Civil Engineering major in Transportation Planning from the same University in 1995. In 1998, he finished his Doctor of Engineering in Civil Engineering from the University of Tokyo.

Dr. Diaz’s research interests focus on transportation planning, transportation systems modelling, traffic management, traffic impact assessment, transportation economics, and project development and evaluation. He has published several papers related to transportation planning. He also worked as a consultant in several transportation planning studies in the Philippines since 1998. He is a past President and a current member of the Transportation Science Society of the Philippines (TSSP). At present, he is a member of both the Eastern Asia Society for Transportation Studies (EASTS) and the Philippine Institute of Environmental Planners (PIEP).