

October 28 & 29 1:00PM-5:00PM PST

UP INSTITUTE OF CIVIL ENGINEERING

Professorial Chair Colloquium





Session A: October 28, 1:00 PM

Question and Answer

1:58-2:15

Moderator: Homer T. Sadie

1:00-1:10	Opening Remarks: Maria Antonia N. Tanchuling, UP ICE Director
1:10-1:22	Mark Albert H. Zarco Alfredo Juinio Professorial Chair Topic: Analysis of load-settlements curves in bi-directional static load tests of bored piles.
1:22-1:34	Jaime Angelo S. Victor Ciriaco Professorial Chair in Civil Engineering Topic: Unconfined Compressive Strength Prediction using Dynamic Cone Penetrometer Test
1:34-1:46	Alexis Philip A. Acacio Beta Epsilon Professorial Chair Topic: Ground Improvement of Unsuitable Backfill Material as a Foundation Support of Low-Rise Structures
1:46-1:58	Lestelle V. Torio-Kaimo DMCI Project Developers Professorial Chair Topic: Effect of Different Alkali Activator in the Geopolymerization of Gold- copper Mine Tailings



Session B: October 28, 2:15 PM

Moderator: Homer T. Sadie

2:15-2:27	Rosabelle Louise A. Caram DCCD Engineering Corporation Professorial Chair Topic: Utilization of Plastic Laminates in Asphalt Cement Mastic
2:27-2:39	Oscar Victor M. Antonio, Jr. Dean Alfredo L. Juinio Professorial Chair Topic: Design and Construction of a Concrete Carbonation Chamber with an Automated Parameter Control System
2:39-2:51	Homer T. Sadie Chancellor Ernesto Tabujara Professorial Chair Topic: Proposed localized Wind-driven Rain Test Parameters for Building Envelopes in Metro Manila
2:51-3:03	Diocel Harold M. Aquino Engr. Ronaldo S. Ison Professorial Chair in Structural Engineering Topic: Factors influencing resilience-building through building regulations
3:03-3:20	Question and Answer



Session C: October 28, 3:20 PM

Moderator: Kristian M. Azul

3:20-3:32	Kristian M. Azul Salvador F. Reyes Professorial Chair in Geotechnical Engineering Topic: Response Spectrum Analysis of a Simulated Magnitude 7.2 Earthquake Event for the West Valley Fault System
3:32-3:44	Fernando J. Germar Felisberto Reyes Professorial Chair in Engineering Topic: Seismic Risk Evaluation of Medium-Rise Reinforced Concrete Buildings
3:44-3:56	Pher Errol B. Quinay Beatriz Basa-Altura Professorial Chair in Civil Engineering Topic: FEATURE: A Seismic Response Analysis Tool for Urban Areas in the Philippines
3:56-4:10	Question and Answer



Session D: October 28, 4:10 PM

Moderator: Kristian M. Azul

4:10-4:22	Timothy John S. Acosta AMH Professorial Chair Topic: Development of an Application for the Vulnerability Assessment of Philippine Buildings Against Severe Winds
4:22-4:34	Jaime Y. Hernandez Jr. Antonio G. Tan Giok Kun Professorial Chair in Civil Engineering Topic: Measurement of the Natural Frequency of Vibration of Columns at the ICE Building for Structural Health Monitoring
4:34-4:46	Eric Augustus J. Tingatinga DMCI Property Developers Professorial Chair Topic: Analysis and Design of Concrete Hollow Block Walls Subjected to Blast Loading
4:46-5:05	Question and Answer



Session E: October 29, 1:00 PM

Moderator: Maxell P. Lumbera

1:00-1:10	Opening Remarks: Maria Antonia N. Tanchuling, UP ICE Director
1:10-1:22	Hilario Sean O. Palmiano David M. Consunji Professorial Chair Topic: Validation of a Customized Local Traffic Simulator (LocalSim)
1:22-1:34	Jose Regin F. Regidor Ambrosio Magsaysay Professorial Chair in Engineering Topic: Pedestrian Safety Assessment Within Public Elementary School Zones in Quezon City Using Star Rating for Schools
1:34-1:46	Ricardo G. Sigua Dr. Olegario G. Villoria Jr. Professorial Chair on Transportation/Logistics Topic: Study of Motorcycle Rider Casualties at Signalized and Unsignalized Intersections
1:46-1:58	Karl B. N. Vergel Quintin and Norma Calderon Professorial Chair Topic: Estimation of Transportation Energy Demand of the Philippines
1:58-2:15	Question and Answer



Session F: October 29, 2:15 PM

Moderator: Maxell P. Lumbera

2:15-2:27 Ma. Brida Lea D. Diola

Levy V. Espiritu Professorial Chair in Civil Engineering

Topic: Waste Management Information System in the Philippines thru Mobile

and Web-based Applications

2:27-2:39 Maria Antonia N. Tanchuling

Maynilad Professorial Chair

Topic: Characterization of Microplastics in Taguig River and Its Contribution to

Pollution Loading to Laguna Lake

2:39-2:51 Maxell P. Lumbera

Jorge M. Consunji Professorial Chair in Engineering

Topic: Issues, Challenges and Strategies for the Implementation of Roof-based

Rainwater Harvesting Systems

2:51-3:03 Noriza T. Sadie

Ciriaco Professorial Chair in Civil Engineering

Topic: Development of a Climate Change Vulnerability and Impact Assessment Framework for Common Construction Projects In Metro Manila - A Case Study

on Three Different Types of Construction Projects



Session F: October 29, 2:15 PM

Moderator: Maxell P. Lumbera

3:03-3:15 **Augustus C. Resurreccion**

Holcim Professorial Chair

Topic: Determining the Optimum Operational Parameters of a 100-L

Electrochemical Arsenic Remediation (ECAR) Reactor

3:15-3:35 **Question and Answer**





Session G: October 29, 3:35 PM

Moderator: Marjorie T. David

3:35-3:47 Eugene C. Herrera

Maynilad UP Centennial Professorial Chair

Topic: Temporal dynamics and drivers of lake ecosystem metabolism using high resolution observations in a shallow, tropical, eutrophic lake (Laguna Lake, Philippines)

3:47-3:59 Guillermo Q. Tabios III

Angel Alejandrino Professorial Chair

Topic: Sediment Yield Studies of Pulangi River Basin, Bukidnon

3:59-4:11 Roberto Soriano

Dr. Leonardo Q. Liongson Professorial Chair

Topic: Field Observations to Define the Boundary Conditions and Salinity

Structure in a Coastal Sand Dune Aquifer

4:11-4:23 Imee Bren O. Villalba

Federico E. Puno Professorial Chair

Topic: Modelling the Effects of Varying Typhoon Tracks on Storm Surges in

Manila Bay using ADCIRC



Session G: October 29, 3:35 PM

Moderator: Marjorie T. David

4:23-4:35 Marjorie T. David DMCI Project Developers Professorial Chair 2 Topic: Comparative Analysis of Parametric Cyclone Models and Relations for Radius of Maximum Winds for Storm Surge Simulations: Case of Typhoon Meranti 2016 4:35-4:47 Richmark N. Macuha Federico E. Puno Professorial Chair B Topic: Demonstration of Useful Tools in Baseline Information Building for Water Resources Projects Under the New Normal 4:47-5:05 **Question and Answer** 5:05-5:15 **Closing Remarks:** Valentin A. Reyes, UP ERDFI President