



Transportation Science Society of the Philippines (TSSP) 32nd Annual Conference

TSSP in cooperation with the

**Department of Civil Engineering, College of Engineering and Architecture
Cagayan State University**

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**Theme: “Energy Security through Transport Efficiency and Reliable Mobility:
Initiatives and Innovations to Strengthen
the Transport Sector against External Shocks”**

CONFERENCE PROPER

8 October 2026 (Thursday)
Cagayan State University Andrews Campus
Tuguegarao City, Cagayan

OPENING PROGRAM

Time	Activity
Plenary Session (Claude Andrews Conference Hall)	
8:00 – 9:00 AM	Registration
9:00 – 9:30 AM	Opening Program - Invocation - National Anthem - Welcome Dance (Cultural Dance) - Welcome Remarks: Dr. Emer T. Quezon Chair TSSP 32 nd Conference Local Organizing Committee Cagayan State University



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OPENING PROGRAM

Time	Activity
Plenary Session (Claude Andrews Conference Hall)	
9:00 – 9:30 AM	- Opening Remarks: Dr. Ma. Sheilah Gaabucayan-Napalang President, TSSP - Messages: Hon. Joseph 'Jojo' L. Lara Congressman, Cagayan 3rd District House of Representatives Hon. Maila Rosario S. Ting-Que City Mayor, Tuguegarao City
9:30 – 10:30 AM	Introduction of the Keynote Lecturer: Engr Jowell John Talosig Title of Keynote Lecture: TBA Dr. Arthur G. Ibañez University President Cagayan State University
10:30 – 10:40 AM	Picture-Taking & Coffee Break



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PANEL DISCUSSION PROGRAM

Time	Activity
Plenary Session (Claude Andrews Conference Hall)	
10:40 – 11:40 AM	Panel Discussion Theme: From Crisis to Resilience: Lessons from the 2026 Energy Shock for Philippine Transport Panelists: Ms. Joyce S. Rivera Technical Advisor for Transport Policy Transformative Actions for Climate and Ecological Protection and Development (TRANSCEND) IKI Interface Project in the Philippines Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH Representative (TBC) Tricycle Operators and Drivers Association Tuguegarao City Dr. Reynaldo Ferrer Head, Tricycle Regulation Unit City Government of Tuguegarao Atty. Richard G. Dayag Regional Director Land Transportation Franchising and Regulatory Board Region II (Cagayan Valley Region) Dr. Florentina S. Dumlaog University Technical Adviser Cagayan State University Moderator: Dr. Ma. Sheilah Gaabucayan-Napalang
12:10 – 1:10 PM	Lunch



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OVERVIEW OF TECHNICAL AND PRACTICAL SESSIONS

Time	Parallel Session
1:10 – 2:40 PM	Technical Session A-1: Active Transport and Mobility Session Room 1: Claude Andrews Conference Hall Chair: Dr. Ma. Sheilah Gaabucayan-Napalang
	Technical Session A-2: Public Transportation Session Room 2: Claude Andrews Extension Room Chair: Dr. Marie Danielle V. Guillen
	Technical Session A-3: Special Topics in Transportation Session Room 3: CSU Athena Hotel Conference Room Chair: Dr. Emer T. Quezon
2:40 – 2:50 PM	Break
2:50 – 4:20 PM	Technical Session B-1: Simulation & Modeling Session Room 1: Claude Andrews Conference Hall Chair: Dr. Sandy Mae A. Gaspay
	Practical Session B-2: E-Mobility Flow Session Room 3: CSU Athena Hotel Conference Room Chair: Mr. Myron T. Alcanzare



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TECHNICAL SESSION PROGRAM

Time	Session A-1: Public Transportation Chair: Dr. Marie Danielle V. Guillen University of the Philippines Diliman Session Room 1: Claude Andrews Conference Hall
1:10 – 2:40 PM	[07] Operational and Financial Characteristics of the UP Ikot Jeepneys Amid the 2026 Oil Price Hikes [Paul Anthony F. PRIETO, UP Diliman] [10] Geographic Information System-Analytical Hierarchy Process (GIS-AHP) Analysis of Public Transport Accessibility to Mindanao State University-Iligan Institute of Technology (MSU-IIT) Among Iligan City Barangays [Ervin J. CRISTOBAL, MSU-IIT] [11] Beyond Route Rationalization: Infrastructure and Service Systems for Formalizing Public Transport in Philippine Cities [Ann Camille B. FAJARDO, SafeTravelPH] [13] The PPP That Plays Itself: Reversed Game Theory in Philippine Transit [Rene S. SANTIAGO, Bellwether] [25] Examining the Potential of the Clark Loop Bus as a Full-Scale Bus Rapid Transit (BRT): Towards a Localized BRT Readiness Index [Noriel Christopher C. TIGLAO, UP Diliman]



TECHNICAL SESSION PROGRAM

Time	Session A-2: Active Transport & Mobility Chair: Dr. Ma. Sheilah Gaabucayan-Napalang University of the Philippines Diliman Session Room 2: Claude Andrews Extension Room
1:10 – 2:40 PM	• [06] A Walkability Assessment and Criteria Formulation for User-Centered Pedestrian Design in the Cagayan Valley Regional Government Center <i>[Ralph Angelo ESTILLER, CSU]</i> • [08] Mobility Exclusion and Failed Essential Travel in Rural Public Transport Planning: Evidence from the Municipality of Sibuco, Zamboanga del Norte <i>[Junievin S. RAMILLANO, WMSU]</i> • [14] Advancing Women's Participation: Safety Perceptions and Inclusive Cycling in Pasig City <i>[Marijan A. ANTONIO, UP Diliman]</i> • [15] Integrating Evidence-Based Tools for Safer School Environments: SR4S and Walkability Insights from Naga City, Philippines <i>[Glenn Simon D. LATONERO, UP Diliman]</i> • [22] Assessment of Bicycle Lane Infrastructure Changes in Metro Manila Using Bikeway Segment Index (BSI) <i>[Janah Alissa VELOSO, UP Diliman]</i>



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TECHNICAL SESSION PROGRAM

Time	Session A-3 - Special Topics in Transportation Chair: Dr. Emer T. Quezon Cagayan State University Session Room 3: CSU Athena Hotel Conference Room
1:10 – 2:40 PM	[03] Crashworthiness Analysis of Topology-Optimized Jeepney Chassis Frame Through Explicit Dynamics Simulations [Job Immanuel B. ENCARNACION, UP Diliman] [04] Hydrodynamic Performance Optimization of Small Filipino Fishing Boat Outriggers for Fuel Consumption Reduction [Job Immanuel B. ENCARNACION, UP Diliman] [21] Pavement Condition Index Assessment of LDPE-Modified and Conventional Asphalt Pavements: The Case of Taft Avenue, Manila City [Mark Laurence V. MICIANO, UP Diliman]



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TECHNICAL SESSION PROGRAM

Time	Session B-1 - Simulation & Modeling Chair: Dr. Sandy Mae A. Gaspay University of the Philippines Diliman Session Room 1: Claude Andrews Conference Hall
2:50 – 4:20 PM	• [02] Assessing Evacuation Compliance in the MRT-3 Ayala Station: A Microsimulation Approach Through PTV Viswalk [Eren Karl T. MORTEL, PUP Manila] • [12] A Deterministic Capacity-Constrained Framework for On-Street Parking Revenue Planning: The Case of Naga City's Central Business District [Sahid A. KAMID, UP Diliman] • [23] Modeling and Evaluating the Role of Tricycles-for-Hire in Puerto Princesa City: Initial Development of MATSim Agent-Based Simulation for Demand-Responsive Transport (DRT) [Noriel Christopher C. TIGLAO, UP Diliman]



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PRACTICAL SESSION PROGRAM

Time	Session B-2: Practical Session - E-Mobility Flow Chair: Mr. Myron T. Alcanzare TRANSCEND, GIZ PH Session Room 3: CSU Athena Hotel Conference Room
2:50 – 4:20 PM	• Setting the tone: Electrification landscape assessment in the Philippines (ICCT) • Response 1 : LTFRB • Response 2 : ULAP • Practical Group Activity: How to plan green routes? • Reporting • Synthesis • Presentation: Route planning as an enabler of transport decarbonization (ICSC)



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CLOSING PROGRAM

Time	Activity
Plenary Session Claude Andrews Conference Hall (Claude Andrews Conference Hall)	
5:00 – 5:30 PM	Concluding Program Report on Paper Submissions Awarding for Best Paper and Presentation – Dr. Jose Regin F. Regidor Chair, TSSP Scientific Committee Induction of New Members – Dr. Karl B. N. Vergel Chair, TSSP Membership Committee Summary and Closing Remarks – Dr. Daniel L. Mabazza, Chair, TSSP 32nd Conference Committee

Master of Ceremonies: TBA (clo of CSU)



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TECHNICAL AND CITY TOUR

9 October 2026 (Friday)

PROGRAM

Time	Activity
8:00 AM – 12:00 PM (Tentative)	Tuguegarao City Tour (<i>Tentative Schedule</i>) 8:00-8:30 AM – Assembly <i>(Claude Andrews Convention Center)</i> 8:30- 9:15 – Sts. Peter and Paul Metropolitan Cathedral 9:15-10:15 -- Cagayan Museum and Historical Research Center 10:15-10:30 – Travel to Cagayan State University-Carig Campus 10:30-12:00 – Electro-mobility Research and Development Center and Metals Innovation Research Center