

PROGRAM 26 NOVEMBER 2025

8:30 - 9:00 AM	Registration for Resilience Advocacy Day	4 th Floor Auditorium
9:00 AM - 5:00 PM	Resilience Advocacy Day	4 th Floor Auditorium
10:00 AM - 5:00 PM	Registration for APRU-MH20	6 th Floor Conference Room
12:00 NN - 1:00 PM	Lunch	4 th Floor Ante Room, Room 4-01 and 4-02
1:00 - 4:30 PM	CAREscape Exhibition Viewing	6 th Floor Lounge
4:30 - 6:00 PM	CAREscape Exhibition Program	6 th Floor Lounge
6:00 PM ONWARDS	APRU-MH20 Welcome Cocktails and Fellowship	6 th Floor Lounge



PROGRAM 27 NOVEMBER 2025

7:30 - 8:30 AM	Registration	4 th Floor Pre-Function Room
8:30 - 9:15 AM	Opening Program	4 th Floor Auditorium
9:15 - 10:00 AM	Plenary Session 1 Civic Resilience Prof. Jeffrey Hou	4 th Floor Auditorium
10:00 - 10:45 AM	Plenary Session 2 Solidarity Ecologies: Regenerative Organizing, Solidarity Practices, and Community Resilience Amidst Social and Climate Shocks Ms. Beatrice Tulagan	4 th Floor Auditorium
10:45 - 11:00 AM	Wellness Break	
11:00 AM - 12:15 PM	Parallel Session 1	4 th Floor (Rooms 4-02 - 4-05)
12:15 - 1:15 PM	Lunch	2 nd Floor (Rooms 2-01 - 2-04)
1:15 - 2:30 PM	Parallel Session 2	4 th Floor (Rooms 4-02 - 4-05)
2:30 - 3:45 PM	Parallel Session 3	4 th Floor (Rooms 4-02 - 4-05)
3:45 - 4:00 PM	Wellness Break	4 th Floor Auditorium
4:00 - 5:00 PM	Special Session Unraveling the Layers and Drivers of Community Resilience around Mayon Volcano Dr. Lauriane Chardot, Katrina Jacinto, Felix Galistan Moderator: Dr. Pamela Gloria Cajilig	4 th Floor Auditorium
5:00 - 7:00 PM	Poster Presentation	



PROGRAM 27 NOVEMBER 2025

Parallel Session 1A: Intersectionality

Disaster Risk, Institutional Trust, and Civic Engagement: Evidence from the Philippines

Lawrence Velasco

The Role of Social Capital as a Community Resilience Strategy in Selected Tourism Villages at Yogyakarta Province, Indonesia *Elma Elantia Fatmah, Rissalwan Lubis*

From Beneficiaries to Change Agents: Empowering Communities Through the VaCHRi Post-Eruption Recovery Program **Suryo Ilham Widodo**, Muhammad Valiyyul Haqq

Parallel Session 1C: Heritage Environments

PaMaNa Ferry Complex: Sustaining a Transit Network along the Blue Heritage

Jan Laren Bagonoc, Demetrio Jr. Alcaraz

Tide and Tenacity: Urban Disaster Resilience among the Bajau Communities in Coastal Southeast Asia

Juan Ramon Jimenez Verdejo, Jesus Alberto Pulido Arcas, Shu Yamane. Sanen Marshall

Poblacion Placemaking: An Integrated Spatial Analysis for Sustainable Urban Conservation of selected towns in Rizal Philippines

Lawrence Ferreras Intalan

Assessment of Geo-Hazard Risk Levels of the Batad Rice Terraces Using Field Survey, GIS-Based Mapping, and Photogrammetry *Marie Edraline Belga, Avegail Casono, Trisha Leigh Lunas*

Parallel Session 1B: Designing for Resilience

Fabulation and the Architecture of Survival: Speculative Fiction as Method in Maynila in Manila

Harvey Vasquez

Characterization of Building Envelope Impacts of Climate Change on Thermal Performance of the In-City Resettlement Housing: The Case of Manggahan Residences, Pasig City

Patrick Nicolas Rodriguez, John Arvin Manaloto

Evidence-based Flood Response Desktop Drill with "Kiki-kuru: JMA's Real-time Risk Maps"

Kensuke Otsuyama, Takuma Ota, Junji Hotta, Yasutaka Makihara. Kenichi Kuma. Hisashi Nakamura

Parallel Session 1D: Policy and Governance

The Impact of Relocation for Disaster Recovery on Agriculture *Miwa Abe, Yuri Nakagawa, Tadashi Uchiyama*

Multihazard Framework Combining Quantitative and Qualitative Analyses of Hydrological Disasters Due to Heavy Rainfall **Nilo Lemuel Junio Dolojan,** Takayuki Takahashi, Masakazu Hashimoto,, Akihiro Shibayama, Reika Nomura, Kenjiro Terada, Shuji Moriquchi

Development of Community Level Flood Evacuation Plan: Case Study of Taman Sri Muda Malaysia

Bor Tsong Teh, Yong Adilah Shamsul Harumain, Nik Elyna Nik Mat Michihiko Shinozaki

Local Knowledge, Collective Experience, and Community-based Flood Resilience in Barangay Tumana, Marikina City, Philippines **Patricia Blanco Reyes**



PROGRAM 27 NOVEMBER 2025

Parallel Session 2A: Intersectionality

Yaman sa Magayon: Diversifying Livelihood Opportunities in Tabaco City, Albay for the Conservation of Mount Mayon Natural

Althea Beatrice Ylade, Maria Vio Bianca Yumikura, Selena Balbino Santos

Care in Crisis: Picturing Care Work and Climate Change Samantha Julia Eala, Rebecca Patrick, Cathy Vaughan

Building Resilience Through Gender Equality in Disaster Response in the Philippines

John Erwin Callangan Larosa

Relational Disaster Resilience

Shelley Tuazon Guyton

Parallel Session 2C: Heritage Environments

Risk and Resilience of Spanish Colonial Heritage Brick Churches in Ilocos Norte: A Multi-Hazard Framework for Disaster Risk Reduction and Conservation

Emerson Valentino Bolibol, Geraldene Acebedo, Jeric Casauran, Neil Meynard Doropan, Christian Dave Princesa

Casas Boholana: Lessons on the Resiliency Features of Vernacular Timber-Framed Houses in Post-Earthquake and Post-Haiyan Boho *Marie Edraline Belga, Jose Ricardo Rustia*

Heritage Resilience in Multi-Hazard Coastal Environments: Climate-Responsive Strategies from the Medieval City of Bagerhat, Bangladesh

Md. Reazul Hasan, Mokbul Morshed Ahmad

Effects of Native Tree Cover Resiliency on the Thermal Comfort of Typhoon Affected Green Open Space

Patrick Andrew Espiritu Gozon

Parallel Session 2B: Designing for Resilience

Managed Retreat or In-situ Adaptation? Empirical Metrics of Coastal Withdrawal and Substitute Adaptations after the 2011 Great East Japan Earthquake and Tsunami

Sosuke Tani, U Hiroi, Kensuke Otsuyama, Saki Yotsui, Kaori Isawa

TAALalay: Landscape Approaches for Developing Scenario-Based Guidelines for Designing Evacuation Spaces for Taal Volcano Eruption

Moira Samantha Ysabel Estanislao, Maria Vio Bianca Yumikura

AguaVerde: A Case Study on the Ecological Revitalization of Selected Inland Water Channels of the Marikina River through Blue-Green Infrastructure

Diomari De Guzman Centeno, Jose Dan Villa Juan, Jaclyn Alexandra Marie Bello

An Integrated Ecological Approach to Urban Riparian Development: Valuation of the the Ecosystem ServicesNationa River Park Corridor of New Clark City

Vic Dul-loog

Parallel Session 2D: Policy and Governance

Marine Carpenters of Southern Chile. Artisans on the Shoreline. **Jesus Alberto Pulido Arcas,** Juan Ramon Jimenez Verdejo

Enhancing Climate Resilience Through Risk-Informed Development Plans: The Case of Calaca

Sheila Austero, Jericho Negrite, Efraim Roxas, Evaristo Nińo Cando

The Impact of Budget Efficiency on Disaster Management and Legal Protection in Indonesia

Naura Salma Taqiyya, Adinda Riski Oktasari, Muhammad Ardy Ardan, Husni Mubarak

The State of HADR in Southeast Asia 2024: Militaries **Keith Paolo Catibog Landicho,** Alistair Cook



PROGRAM 27 NOVEMBER 2025

Parallel Session 3A: Intersectionality

Recipes for Disaster: Feeding Resilience After Disaster **David Lallemant,** Lauriane Chardot

Integrating Indigenous Knowledge and Modern Practices for Multi-Hazard Resilience: Lessons from Flood and Cyclone Management in Myanmar's Greater Mekong Region

Aung ThanOo

Resilient Communities for All and by All: Inclusive DRR (i-DRR Addressing Vulnerabilities, Valuing Capacities

Sebastien Penmellen Boret, Julia Gerster

Capturing the Most Significant Changes Brought about by a Community-Based Risk Communication Program in a Landslide-Prone Barangay in Malitbog, Bukidnon

Maria Thresha Ursolino, Maria Stella Tirol, Juvy Leonarda Gopela

Parallel Session 3C: Heritage Environments

ARKITEKTURANG PAMANA, HANDA SA ANUMANG SAKUNA" (Preserving Architectural Heritage Through Disaster Resilience): Integrating Disaster Risk Reduction and Climate Adaptation in the Conservation of Modern Architectural Heritage Amidst Urbanization in Metro Manila

Crisanto Lustre II

Explaining Nonlinear Relationships Between Community Factors and Heat-Related Illnesses Using Machine Learning

Minyeong Park, Jung Eun Kang, Song Ju Lee, Wonsill Hwang

Knowledge, Awareness, and Behavior on the Heat Index Among Residents of Selected Communities in Angeles City: An Embedded Sequential Study

Chris Angelo Concepcion Canlas, Maxine Kim Concepcion, Maxene Halili. Hana Katrina Panlilio

Parallel Session 3B: Designing for Resilience

Integrated Nature-Based Solutions and Decentralized Approaches for Flood Mitigating in Emilio Aguinaldo Park, Baguio City **Jester Joseph San Andres,** Janice Kaye Aquino, Lovely Rańosa, Donna Tabangin

Digital Modelling of Slope Stability Options as Forest Management Solution to Battery Storm Induced Landslide for the Batad Muyong using Sustainable Drainage System (SUDS) Principles, and Value Criteria Assessment

Avegail Penaso Casono, Jose Dan Villa Juan

Factor Analysis of Convergence in Socio-Technological Infrastructure Using Machine Learning: The Case of Legazpi City's EWS for Multi-Hazard Resilience

Richelle Rhea Reyes Baria

Parallel Session 3D: Policy and Governance

Metro Manila Flood Control as Performative Governance **Pamela Cajilig,** Timothy James Cipriano, Tieza Mica Santos,

Narod Eco

Modernizing Quezon City's Building Risk Data with AI and Earth Observation

Joshua Dimasaka, Fouad Bendimerad, Renan Tanhueco, Christian Geiß, Emily So

Study of Space Utilization Based on Tsunami Disaster Mitigation in the Cinangka Coastal Area, Serang Regency, Banten **Ade Wahyudi,** Dwi Nowo Martono, Supriatna

Enhancement of Vessel Systems for Resilient Sulfur Mining in Volcanic Environments: A Case Study on Efficiency, Safety, and Sulfur Purity at Iien Crater

M Ardy Ardan, Mohammad Arsy Darmawansyah, Muhammad Ridwan Ghani Abhirama, Ir. Welayaturromadhona



PROGRAM 28 NOVEMBER 2025

7:30 - 8:30 AM	Registration	4 th Floor Pre-Function Room
8:30 - 8:35 AM	Welcome Greetings	4 th Floor Auditorium
8:35 - 9:15 AM	Plenary Session 3 Achieving Sustainable Development Goals in a Municipal Local Government: The Del Carmen Experience Mayor Alfredo Coro II	4 th Floor Auditorium
9:15 - 10:00 AM	Plenary Session 4 Al in the Climate and Disaster Resilience Mr. Dominic Ligot	4 th Floor Auditorium
10:00 - 10:15 AM	Wellness Break	4 th Floor Auditorium
10:15 - 11:15 AM	APRU Organization MH Session	4 th Floor Auditorium
11:15 AM - 12:30 PM	Parallel Session 4	4 th Floor (Rooms 4-02 - 4-05)
12:30 - 1:30 PM	Lunch	2 nd Floor (Rooms 2-01 - 2-04)
1:30 - 2:45 PM	Parallel Session 5	4 th Floor (Rooms 4-02 - 4-05)
2:45 - 4:00 PM	Special Parallel Session	4 th Floor (Rooms 4-02 - 4-05)
4:00 - 4:15 PM	Wellness Break	4 th Floor
4:15 - 5:30 PM	Special Session From Interactions to Integrations: Innovations and Multi-Hazard Assessment and Management Moderator: Dr. Alfredo Mahar Francisco Lagmay	4 th Floor Auditorium
5:30 - 6:00 PM	Travel to SPACE @ OneAyala	
6:00 PM ONWARDS	Closing Dinner	SPACE @ One Ayala, Makati



PROGRAM 28 NOVEMBER 2025

Parallel Session 4A: Citizen Science

Measuring Hospital Accessibility and Infrastructure Criticality for Clustered Urban Informalities during Flood Hazard

Emmarie Rose Cruz Josue

Designing Emergent Learning for Disaster Education: Challenges and Possibilities of XR Implementation under Japan's GIGA School Policy

Sachiko Takane, Rajib Shaw

Empowering Youth for Coastal Resilience: The Earth Alive Inter School Challenge in Singapore

Lauriane Chardot, Yasmin Basir, Li Hui Mok, Ezzati Nur Zukri

Inequitable Flood Resilience in the Mahanadi Delta: Urban Protection vs. Rural Flood Vulnerability in Cuttack City and Peripheral Villages

Biswajit Minji, Padmini Pani

Parallel Session 4C: Measurement of Resilience

A Construction-Based Risk Assessment Framework for Informal Settlements in Flood-Prone CAMANAVA

Charles Kevin Menor, Andrew Luis De Leon, Marc Alan Angelo Arrogante

Evaluating Baseline Resilience: A Performance Study of 237 Barangays in Bataan's "IBataan Barangay Resilience Awards" Prepare Phase

Abigail Cruz Catapang, Kristine Ortega, Maricel Javier, John Romar Martin

Transformative Resilience to Disaster in Korea: Measurement and Key Determinants

Mijin Choo, D. K. Yoon

Risk-Perception Pathways among Digitally Vulnerable and Non-Vulnerable Koreans after Natural Disasters

Ah Hyeon Dong, Jung Eun Kang

Parallel Session 4B: Resilient Design and Technology

Time-Series Estimation of Fault Slip from GNSS Data using Deep Learning: Application to the Nankai Subduction Zone **Yo Fukushima,** Ryo Nakagawa, Masayuki Kano, Keisuke Yano,

Yusuke Takana, Yutaro Okada, Kazuro Hirahara

Green Spaces as an Adaptation Measure for Urban Heat Island Phenomenon and Flooding: A Comparative Analysis of Urban Morphology Types of Two Select Zones in Barangay Central, Ouezon City

Jose Dan Valenzona Villa Juan, Maria Elisa Manuel, Juan Ismael Vallejo

An Analysis of Factors Contributing to Regional and Sectoral Vulnerability in Large-Scale Disasters

Tadashi Uchiyama, Miwa Abe, Yuri Nakagawa

A Critical Infrastructure Proximity & Community Flood Vulnerability Perception Analysis of Brgy. 638 using 3-Dimensional Visualization

Adrian Jim Reyes

Parallel Session 4D: Resilient Design and Technology

Utilization of weather data obtained from meteorological observation in schools for school disaster risk reduction management and education

Yusuke Yamane, Mitsuko Shikada-Otsuyama

The Conceptualization and Implementation of Disaster Prevention Education Programs through Multistakeholder Collaboration -Case Study: Matsuyama City, Japan

Daniel Gjorgievski



PROGRAM 28 NOVEMBER 2025

Parallel Session 5A: Citizen Science

Earthquake Numerical Simulation for Catastrophe Modelling: Study Case in Greater Jakarta Region

Dzaky Irfansyah, Alif Azfar Badaruddin

Geomorphological Changes and Management Strategies for the Marikina River: A 20-Year Assessment of Erosion and Accretion Dynamics

Camille Cassandra Albon Avila, Madonna Danao

Understanding Urban Flood Risks in Varanasi Through Climate Trends and Land Use Changes

Shahensha Sarkar, Narender Verma

Parallel Session 5C: Complex Disasters

A System-based Approach to Multi-hazard Climate and Disaster Risk Assessment: Application of Integrated Ecosystem Modeling in Tiaong, Quezon Philippines

Dayniele Dulce Loren, Ericka Renee Langit, Aaron Joseph Sabo-o, Anne Dominique Rodriguez, Rafael Joaquin Valdez, Almira Geles de Mesa. Maria Lourdes Medina. Marilvn Dimavacvac

A Systematic Analysis of Types and Characteristics of Multi-Hazards **D.K. Yoon,** Mijin Choo, Dong In Kim, Yeora Chae

Semantic-based Evaluation of a Modified HSEEP Framework (T-DEEP) for Complex Hazard Preparedness in Taipei: Insights from Hotwash Feedback via SOM

Tsung-Yi Pan, Lo-Yi Chen, Jing-Ting Wang, Cheng-Chi Cheng

Local Industries and Complex Disasters in Garut, Indonesia *Kumiko Fujita, Takako Izumi, Miwa Abe, Tadashi Uchiyama*

Parallel Session 5B: Resilient Design and Technology

Hottest Summer on Record: Reconstructing Urban Rhythms Through Temporal Adaptation and Thermal-Based Zoning

Danielle Macanas

A Multi-Criteria Risk Assessment of Typhoon-Induced Flooding in Sorsogon, Philippines: Integrating Hazard, Exposure, and Social Vulnerability for Community Resilience Through a Site-Sensitive Design Approach

Angelina Isabel Hernandez Destajo, John Ernest Jose

Mainstreaming Education as an ACE Pillar towards Climate Change Adaptation and Disaster Risk Reduction **Decibel Faustino Eslava,** Maria Victoria Espaldon, Antonio Contreras, Loucel Cui

Parallel Session 5D: Design for Resiliency

Risk Resilient Housing Prototypes for Informal Settlements in the Philippines

Joshua Bolchover

An Analysis of Prison Cell Design Through Computational Fluid Dynamics (CFD): Analyzing Thermal Perception and Optimal Airflow for Occupant Comfort in Compliance with Ashrae Standards

Stephen Allen Beliganio De Guzman, John Ernest Jose

Opportunities for Integrating Flood Resilience into Environmental Management of the Pansipit River System, Batangas, Philippines **Efren John Benedicto Buno,** Patricia Ann Sanchez, Loucel Cui, Janice Sevilla-Nastor

Special Parallel Session 6A: Launch of the NATURA GRM of Urban NbS, Asia Report

Nature-based Solutions for Urban Resilience in the Anthropocene (NATURA) The Global Roadmap for the Urban Nature-based Solutions

Erich Wolff, Pamela Cajilig, Yeowon Kim, Annemie Rose Janssen

Special Parallel Session 6B: Heritage Environments

Heritage Conservation as a Driver of Post-disaster Sustainable Resilience: Case of the 2022 Mw 7.0 Northwestern Luzon Earthquake at the World Heritage City of Vigan, Philippines **Cheek Fadriquela,** Kenneth Javier Tua, Maria Cristina Paterno, Anjelika Orui

Institutional Actions for Risk Preparedness, Response and Recovery

Joselito Corpus

Historical and Geographical Vulnerabilities: A Call for Documentation and Preparedness for the Colonial Churches of Cavite

Phillip Norbert Ahmad Medina

Heritage Preservation in Conflict-Affected Areas: The Case of Lanao del Sur

Ruhollah Al-Husseini Javier Alonto, Sittie Ayena Caye



PROGRAM 29 NOVEMBER 2025

8:00 - 9:00 AM	Registration	UP BGC Lobby and Student Lounge
9:00 - 10:00 AM	Tour of urban flood mitigation systems	BGC Flood Control Tunnel, Burgos Circle
10:00 - 10:15 AM	Guided Walk	BGC High Street Walk
10:15 - 11:00 AM	Cultural and Architectural Immersion	Metropolitan Museum of Manila, MK Tan Centre 30th Street, Bonifacio Global City
11:00 AM - 12:00 NN	Travel to UP Diliman	
12:00 NN - 1:00 PM	Lunch	UP College of Architecture
1:00 - 3:00 PM	Tour on disaster preparedness, climate adaptation, and community resilience initiatives	UP Diliman Resilience Institute

Travel back to UPBGC