

GROUNDWATER WEEK 2023









LAS VEGAS, NEVADA | DECEMBER 5-7, 2023





2023 SHOW INFORMATION ✓ 2024 EXHIBITOR INFO MEDIA



GROUNDWATER WEEK 2023

LAS VEGAS, NEVADA | DECEMBER 5-7, 2023

Q

MENU



SCHEDULE AND AGENDA

<

Atasha Loreigne



Bautista

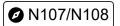
Research Assistant II

University of Guam Water Environmental Research Institute of the Western Pacific

Ms. Atasha Bautista is a freshman at the University of Guam, pursuing a degree in chemistry and biology. She is known for her excellent academic standing and enthusiasm for the field of STEM. As a freshman, Atasha completed a variety of coursework and research. She took part in the Short-Term Research Experience Program to Unlock Potential (STEP-UP) of the National Institute of Diabetes and Digestive and Kidney Diseases (NIDDK) and is currently employed as a research assistant at the University of Guam Water Environmental Research Institute of the Western Pacific (WERI) under the direction of Dr. Nathan C. Habana. Her primary area of study is groundwater modeling in Guam.

Sessions

Times shown in America/Los Angeles



Forum, Science & Engineering Forum

December 5, 2023 9:40 AM - 11:00 AM

Groundwater Modeling

Atasha Loreigne Bautista

Research Assistant II, University of Guam Water Environmental Research Institute of the Western Pacific

MO Michael Ou Scientist, SSPA

Show More



Subsessions

ALB

Configuration-Based Uniform Model-Independent Postprocessing Framework for Automated Modeling Workflows

Groundwater Models and Large Reservoirs - Seepage Recovery and Safety Analysis Integrated Hydrologic Model Development and Calibration – Leveraging Python, and Parallel Processing

Wastewater Discharge From Septic Tanks, Impact to Groundwater Quality, Northern Guam Lens Aquifer

Forum, Science & Engineering Forum

December 5, 2023 10:40 AM - 11:00 AM

Wastewater Discharge From Septic Tanks, Impact to Groundwater Quality, Northern Guam Lens Aquifer

The Northern Guam Lens Aquifer (NGLA) supplies 90 percent of the island's utility water. However, ongoing urban growth, aging established residential areas, and wastewater discharge above the water source via septic tanks and leaky sewer mains have been a concern. Production well nitrate analysis has shown an increasing trend in nitrate-N concentrations in production wells. Preliminary application of a solute transport model, MODFLOW-USG, at Swamp Road tested current regulations on residential septic tank density and distance of buildings to wells. Model results revealed the extent of contaminant plumes near production wells, which may support refined regulations for development near production wells. This research continues to make model

Show More



Atasha Loreigne Bautista

Research Assistant II, University of Guam Water Environmental Research Institute of the Western Pacific

ALB