

Research Edge

12:00 p.m. - 12:20 p.m.

Topic: **USING A BISTATIC CAMERA LIDAR TO PROFILE AEROSOLS INFLUENCED BY A LOCAL SOURCE OF POLLUTION**

Presenter: **Dr. Amin Kabir**



Aerosols are tiny particles in the atmosphere that originate from either natural or anthropogenic sources and play a strong role in Earth's radiation budget. However, distributions of atmospheric aerosols vary greatly both over time and location making it challenging for in-situ aerosol profiling. Knowledge of aerosol profiles (temporal and altitude dependent extinction) in various parts of the world is essential for air pollution compliance, climate change studies, precipitation pattern research, and investigations on the health effects. Traditional lidars, widely used optical remote sensing techniques, require expensive electronics to measure the time of flight of the backscattered light and its corresponding altitude. This study investigates the use of a bistatic camera lidars to profile aerosols influenced by a local source pollution.

12:20 p.m. - 12:40 p.m.

Topic: **SMART TOURISM BAROMETER: A PROTOTYPE ALERT SYSTEM FOR DETERMINING THE HEALTH OF RURAL TOURISM DESTINATIONS**

Presenter: **Dr. Vikneswaran Nair**



The aim of this paper is to benchmark the approach in healthy rural tourism management based on a study that was carried out by the researcher in Malaysia from 2011-2016. In line with Malaysia's goal to achieve high-income-nation status by 2020, the nation set a bullish target to achieve 36 million tourist arrivals and RM168 billion (US\$48 billion) in tourism receipt by 2020. Thus, it is imperative to have a holistic understanding of the impact of these mass tourism developments on key natural destinations where the rural tourism enterprise makes up 75 percent of the tourism industry in Malaysia. Hence, understanding the interactions of various multi-dimensions that are essential in ensuring the sustainability of rural tourism destination is critical. These multi-dimensions can be used to develop a smart tourism barometer that will act as an alert system for determining the health of rural tourism destinations.

12:40 p.m. - 1:30 p.m.

Topic: **SOLUTIONS TO THE MURDER PROBLEM: A STRATEGIC PLAN BASED ON EMPIRICAL RESEARCH**

Presenter: **Dr. Chaswell Andre' Hanna**



High crime and violence rates present a paramount challenge to the development of a country as they directly affect human welfare in the short-term and economic growth in the long-term. Unfortunately, the rise in violent crime remains one of the top issues facing The Bahamas today. Law abiding citizens are least likely to become murder victims. Nevertheless, the fear of crime remains the most important issue on the minds of Bahamians, surpassing the recent global economic recession. Moreover, the direct effect that crime and violence have on victims is widespread. Sound policy making at the national and regional levels can make a difference in changing the regional culture of violence. Thus, the aim of this study is to conduct descriptive analyses of murder trends and develop evidence-based strategies to reduce its occurrence in The Bahamas.

Friday, 20th October 2017

12:00 p.m. - 1:30 p.m.

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