Divecha Center for Climate Change
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SEMINAR NOTICE

Title: "Radon and it Progeny as Tracers in Monsoon Dynamics and Atmospheric Pollutant Transport"

Speaker: Mark Baskaran, Department of Geology, Wayne State University, Detroit, USA

Date: 28th May 2019, 3.30 pm

Venue: Divecha Centre Auditorium

Tea at 3.15 pm

Abstract: Radon and its progeny have provided a wealth of information on the sources of air masses and aerosols, residence times and removal rate constants of aerosols, stability and vertical movements of air mases and deposition velocities of aerosols in the planetary boundary layer. Air masses derived from continent and ocean have uniquely different ^{222}Rn activities, mainly due to differences in the radon emanation rates in the continents and in water. In this presentation, the following aspects will be presented: i) A comparison of ^{222}Rn activity in surface air over the Arabian Sea and the Indian Ocean during monsoon and non-monsoon seasons and the factors and processes that cause variations in the ^{222}Rn activity during non-monsoon and monsoon seasons; ii) Role of Atmospheric Rivers in the transport of ^{222}Rn and Radon storms; iii) Inter-comparison of 11 atmospheric radon transport models for Bermuda and Antarctica; and iv) Potential application of Radon and it progeny as proxy for atmospheric pollutants..

ALL ARE WELCOME