



## ***Physical Research Laboratory***

### **Tuesday Seminar**

#### **Marine Heterotrophic Nitrogen Fixation**

##### **Abstract**

The fixed nitrogen is the most important nutrient fuelling phytoplankton growth in the ocean. Thanks to the N<sub>2</sub>-fixers, a special group of marine plankton that are able to convert dissolved nitrogen gas into bioavailable nitrogen such as ammonium. Marine nitrogen-fixing cyanobacteria play a central role in the open-ocean microbial community. Once thought ocean to be dominated by cyanobacteria in the warm oceans, it is now clear that marine N<sub>2</sub>-fixing organisms in the ocean are more diverse, and are geographically more widespread than expected. In this talk, I will be discussing the types of N<sub>2</sub> fixers and how they contribute to the nitrogen budget of the ocean. In addition, lack of knowledge about nitrogen fixation in the Indian Ocean will also be discussed.

**Speaker: Mr. Himanshu Saxena**  
**JRF, GSDN**

<b>Date</b>	<b>Time</b>	<b>Venue</b>
11-December-2018	16:00 hrs	Ground Floor Lecture Hall

**All are invited to attend and participate in discussion**

**Tea at 15:30 Hrs**  
**(Near Ground Floor Lecture Hall Foyer)**

***A .K. Sudheer, Geosciences Division***