



# Bose Colloquium



**S. N. Bose National Centre for Basic Sciences**  
(An Autonomous Research Institute established under DST, GOI)




**Title:**  
**Bubbles, Soda, Whiskey and Wine**

**Abstract:**  
Starting with the problem of bubble formation, we go on to discuss sound produced by bubbles. The latter has been proposed to study melting of glaciers. The connection will be in the talk using bubbles formed in soda water. Continuing our discussion of bubbles and drops, we will next describe coffee ring effect related to drying of coffee drops. This will be connected with solution of Laplace's equation in different physical situations. The effect has implications when liquid drops are used in different applications. The effect can be reduced by mixing polymers in the liquid that forms the drop. This has been shown using different kinds of whiskeys. Finally the effect can also be reduced by using Marangoni effect, also known as tears of wine. We will conclude our talk with a discussion of how that is to be done.

**Speaker:**  
**Prof. Manoj Harbola**  
Professor, Department of Physics, IIT Kanpur, and  
Member, Governing Body, SNBNCBS

 **31 March, 2022**

 **4.00 PM**

 **FERMION**

 **Webinar Link**

 **YouTube Link**

