

## **Seminar**

### **Scaling up two dimensional nano-sheets**

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Recently, two dimensional nanosheets such as graphene, black phosphorus and TMDs are highly promising for multitude of applications due to their combination of unique and unprecedented physical properties. To realize these nanosheets for bulk applications, it needs to be produced on large scale. However producing large, high quality and defect free 2D materials on energy efficient and on scalability basis still remains a challenge. In this talk, I will describe scalable technique in exfoliating 2D nanosheets from their bulk precursors in solvents and applications of exfoliated nanosheets. I will also share our latest results on emerging 2D black phosphorus.

***Thursday, Jan 5<sup>th</sup> 2017***

***4:00 PM (Tea/Coffee at 3:45 PM)***

***Seminar Hall, TCIS***