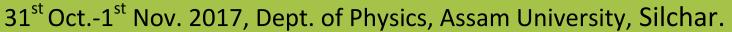


# Science Academies' Lecture Workshop on

# "Atomistic Computer Simulation Techniques"





## Sponsored by







Atomistic computer simulation techniques, such as molecular dynamics (MD) and Monte Carlo (MC) methods, are powerful tools to understand physicochemical processes in matter. The most remarkable advantage of these "virtual experiments" is their ability to probe matter at the molecular level and at femtosecond time scales. Computer simulations such as these are now routinely employed in variety of areas such as, physics, chemistry, materials science, biosciences, nanotechnology etc. Despite their utility in diverse areas of research, the essential idea of MD and MC simulations are, by and large, conceivable at the undergraduate level. The objectives of this workshop are (i) to introduce the basic concept of these techniques, (ii) their implementation, and (iii) demonstration of their utility in diverse areas of science.

The event is primarily intended for Under Graduates (BSc/BTech/BE), Post Graduates (MSc/MTech/MPhil) and Research Scholars from all Science & Engineering disciplines. However interested faculty members from Universities/Colleges in the North East and nearby regions are also welcome. There would be 100 participants and selection will be done on first-come-first-served basis.

How to Apply: Fill out the application form (can also be downloaded from: http://www.aus.ac.in/workshops-at-assam-university) and send the scanned copy of the same to <a href="mailto:shuklabhu@gmail.com">shuklabhu@gmail.com</a> by 28<sup>th</sup> Oct. 2017. Do bring the original at the time of Registration. Registered candidates are also advised (not mandatory) to bring their laptops for hand-on-sessions.

#### Venue:

Bipin Chandra Pal Auditorium, Assam University, Silchar.

- No Registration Fee.
- Free Working Lunch, Tea & Workshop Materials.
- No Travel Assistance will be available.
- No accommodation will be arranged.

#### Dr. P. K. Shukla (Coordinator)

Department of Physics, Assam University, Silchar. E-mail: shuklabhu@gmail.com Contact no. 09435523120

### **Speakers:**

**Prof. S. Yashonath (Convener)**, S.S.C.U, I.I. Sc, Bengaluru.

**Prof. S. Bandyopadhyay**,
Dept. of Chemistry, IIT Kharagpur.

**Prof. P. K. Padmanabhan,**Dept. of Physics, IIT Guwahati.

**Prof. A.V. Anil Kumar**, Dept. of Physics, NISER, Bhubaneswar.

## **Application Form**

### Science Academies' Lecture Workshop on Atomistic Computer Simulation Techniques

### 31<sup>st</sup> October – 1<sup>st</sup> November 2017 Department of Physics, Assam University, Silchar

1.	Name:		
2.	Gender: _		
3.	Designati	on:	
4.	Affiliation	with complete address:	
5.	Phone:		
6.	Email:		
		(Signature with d	ate)
Red	commendat	cion (by a Teacher/Supervisor/Head of the Dept./Institute):	
I recommend Dr./Mr./Ms./ for participation in the Science Academies' Lecture Workshop on "Atomistic Computer Simulation Techniques", 31 <sup>st</sup> October – 1 <sup>st</sup> November, 2017 at the Department of Physics, Assam University, Silchar.			
		Name: Designation: Address:	
		Telephone: Email:	

 $\boldsymbol{S}\!$  end the scanned copy of this form by  $\boldsymbol{email}$  to  $\underline{shuklabhu@gmail.com}$ 

(The original should be produced at the venue during the registration on  $\mathfrak{z}^{\rm st}$  Oct., 2017)