



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

31st Oct.-1st Nov. 2017, Dept. of Physics, Assam University, Silchar.



Sponsored by



Indian Academy
of Sciences,
Bangalore



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Atomistic computer simulation techniques, such as molecular dynamics (MD) and Monte Carlo (MC) methods, are powerful tools to understand physico-chemical 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 shuklabhu@gmail.com by 28th 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**
31st October – 1st November 2017
Department of Physics, Assam University, Silchar

1. Name: _____
2. Gender: _____
3. Designation: _____
4. Affiliation with complete address: _____

5. Phone: _____
6. Email: _____

(Signature with date)

Recommendation (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", 31st October – 1st November, 2017 at the Department of Physics, Assam University, Silchar.

Name: _____

Designation: _____

Address: _____

Telephone: _____

Email: _____

Send the scanned copy of this form by **email** to shuklabhu@gmail.com

**(The original should be produced at the venue during the registration on
31st Oct., 2017)**