RAIDIGHI COLLEGE

Department of Physics presents

An *International Webinar* on

Emerging Trends in Science and Technology emphasizing on Atomistic Simulations

20th September, 2020: 10 AM–1PM

Dr. Sankha Mukherjee
Computational Materials Engineering ,
Dpt. of Materials Science & Engineering
University of Toronto, **Canada**.

Dr. Ilaksh Adlakha
Department of Applied Mechanics
IIT Madras, **Chennai** - 600036.

Dr. Amlan Dutta
Dept. of Metallurgical and
Materials Engineering
IIT**, Kharagpur**

Dr. Laalitha Liyanage,
Computational Material Modeling and
Design Lab; Applied Computing,
University of Kelaniya, **Sri Lanka**

Harpreet Grewal
Senior Executive Engineer
GE Nuclear, Peterborough,
ON K9J 5L4, **Canada**

Dr. Poulomi Chakraborty,
Department Computational Materials Design
Microstructure Physics and Alloy Design
Max-Planck-Institut für Eisenforschung GmbH

Chief Patron: Dr. Sasabindu Jana
Principal, Raidighi College

Chief Organizer: Dr. Amitava Moitra
Head, Dpt. of Physics, Raidighi College

Registration: https://forms.gle/3xS6Wj3jASjj6pt16

Organizing Committee Members: Dr. Shreyasi Pal, Sankar Kumar Santra, Chanchal Das, & Swati Purkait

For any further queries please contact Dr. Moitra 9123018212

Event Gist: Department of Physics, Raidighi College organized International Webinar on "Emerging Trends in Science and Technology - emphasizing on Atomistic Simulations" on 20/09/2020 from 10:00 AM to 1:40 PM, IST. The invited speakers were experts in this specific field research from four different countries: India, Sri Lanka, Germany, and Canada.

Title: Emerging Trends in Science and Technology - emphasizing on Atomistic Simulations

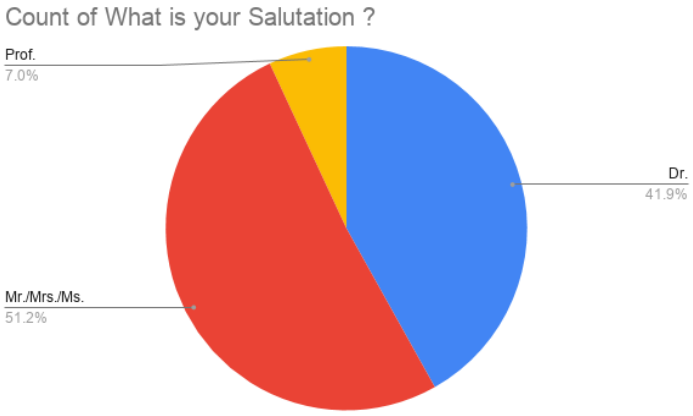
Objective: Atomistic Simulations in Indian community is by far mostly recognized as density functional theory (DFT) calculations for magnetic materials. However, along with DFT, molecular statics and dynamics calculations using semiempirical models have a huge potential to underpin the materials' behavior, encompassing thermal properties, mechanical behavior, failure criterion, etc.
The webinar is thus aimed to create a synergistic approach to create a strong platform for Atomistic Community in India, involving different experts around this planet. Alongside, I am hopeful that it would be very much helpful for the college faculties and students to get exposed into this field. With the upcoming New Educational Plan of Government of India in mind, it would be interesting to plan how these simulations can be useful to implement in a semester-wide project. Further, many Physics Laboratories around the globe, are slowly adopting a Soft-Lab, instead of conventional Hard-Lab, to transfer more knowledge to student community regarding the atomistic details of several physical processes.

Speakers List :

1) **Dr. Sankha Mukherjee**, Computational Materials Engineering ,Dpt. of Materials Science & Engineering University of Toronto, **Canada**.
2) **Harpreet Grewal**, Senior Executive Engineer, GE Nuclear, Peterborough, ON K9J 5L4, **Canada**
3) **Dr. Laalitha Liyanage**, Computational Material Modeling and Design Lab; Applied Computing, University of Kelaniya, **Sri Lanka**
4) **Dr. Ilaksh Adlakha**, Department of Applied Mechanics, IIT Madras, **Chennai** - 600036.
5) **Dr. Poulomi Chakraborty**, Department Computational Materials Design, Microstructure Physics and Alloy Design, Max-Planck-Institut für Eisenforschung GmbH, **Germany**
6) **Dr. Amlan Dutta**, Dept. of Metallurgical and Materials Engineering, IIT**, Kharagpur**

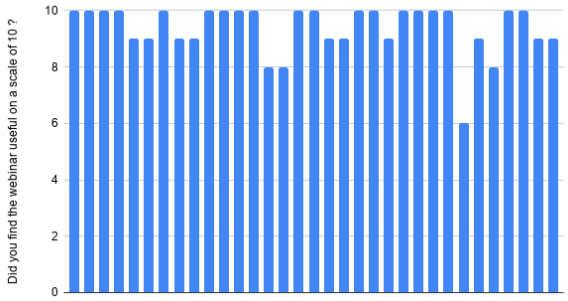
Webinar Schedule
10:00-10:05: Welcome Address by Principal Dr. Sasabindu Jana
10:05-10:30: Dr. Sankha Mukherjee
10:30-11:00: Harpreet Grewal
11:00-11:30: Dr. Laalitha Liyanage
11:30-12:00: Dr. Ilaksh Adhlaka
12:00-12:30: Dr. Poulomi Chakraborty
12:30-1:00: Dr. Amlan Dutta
1:00-1:00: Vote of Thanks by Dr. Shreyasi Pal
The whole session of the Webinar will be chaired by Dr. Amitava Moitra

Participants Registered: 43 + 1

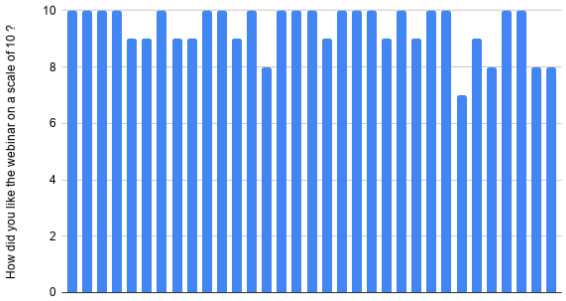


Feedback responses from 35 given responses:

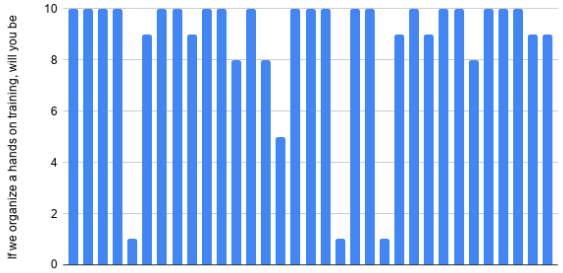
Did you find the webinar useful on a scale of 10 ?



How did you like the webinar on a scale of 10 ?



If we organize a hands on training, will you be interested to attend ?



Would you be interested to implement this simulations in a short research based project in future ?