Salesian College
SONADA & SILIGURI

NAAC Accredited 'A' Grade (3rd Cycle) & twice UGC certified College with Potential for Excellence (CPE)

Table of Contents

Salesian College
Siliguri Campus

Webinar on Buddhist Meditation- Post Traditional Meaning and Method

As part of a series on 'Religious Practices in the Himalayan Spaces' Salesian College Siliguri hosted a webinar on the topic 'Buddhist Meditation- Post Traditional Meaning and Method' on the 23rd of October. Hindol Chakraborty, Assistant Professor Department of English, opened the session with a prayer song, followed by an opening remarks by Fr. Dr. George Thadathil Principal Salesian College and President AIACHE. He spoke about the Mystic and the Transhuman, and stated that "meditation leads to self-exploration, whereas technology lead to self-transformation" and one must learn from the other.

Miss Ranu Sherpa, Assistant Professor department of English introduced the guest speaker Dr. Pius V Thomas, Professor at Assam University's Department of Philosophy. Speaking on the topic he discussed the philosophical, socio-cultural, ethical, and spiritual significance of Buddhist meditation from a post-traditional perspective.

Dr. Thomas elaborated the subject, saying that the ultimate goal of meditation in Buddhism is to realize *Sunyata*, or emptiness, which is attained through self-negation and compassion. Unlike other religions, such as Hinduism, specifically Vedanta, where there is no room for the other, Buddhism, according to him, acknowledges the other.

In Buddhism, he says "mediation is ultimately going beyond the self in order to transcend the reductionist and un-dialogical self and self-sameness" and concludes

that “mediation ultimately becomes compassion.” He observes that post traditional understanding of meditation is ultimately compassion.

Dr. Thomas goes on to describe how, from a Buddhist perspective, meditation may be viewed as a therapeutic, political, ethical, and cultural instrument, as well as a symbol of coexistence on multiple levels.

Professor T.B Subba of the Department of Anthropology at North Eastern Hill University, who moderated the session, applauded Dr. Thomas for presenting a well-researched topic and opened the floor for question and answer session.

David Alexander Palmar, Professor in the Institute of Humanities and Social Science and department of Sociology, University of Hong Kong was also present and asked some thought provoking questions to the speaker.

Making his observation, Fr. Dr. George Thadathil, said that meditation as compassion and compassion as meditation is an insightful observation that makes space for post-religious religion and post-secular secularity.

While reviewing the journey so far Dr. Thadathil commented that it is important to bring ‘religion into the academic discourse’ and these series of webinars, as part of the research project on Religious Practices in the Himalayan Spaces, was a small step towards it.

The session concluded with a vote of thanks given by Miss. Monica Rana, Assistant Professor Department of English.

The webinar held online on Google meet, was co-organised by the University of Hong Kong, Hong Kong, China, and St. Anthony’s College Shillong, and co-sponsored by Brinfaith. It is the final in a series on the theme of “Mountains and Minorities, Meditation and Monasteries, Medicine and Mendicants.”

DR. PIUS V THOMAS SPEAKING ON THE TOPIC ‘BUDDHIST MEDITATION- POST TRADITIONAL MEANING AND METHOD'

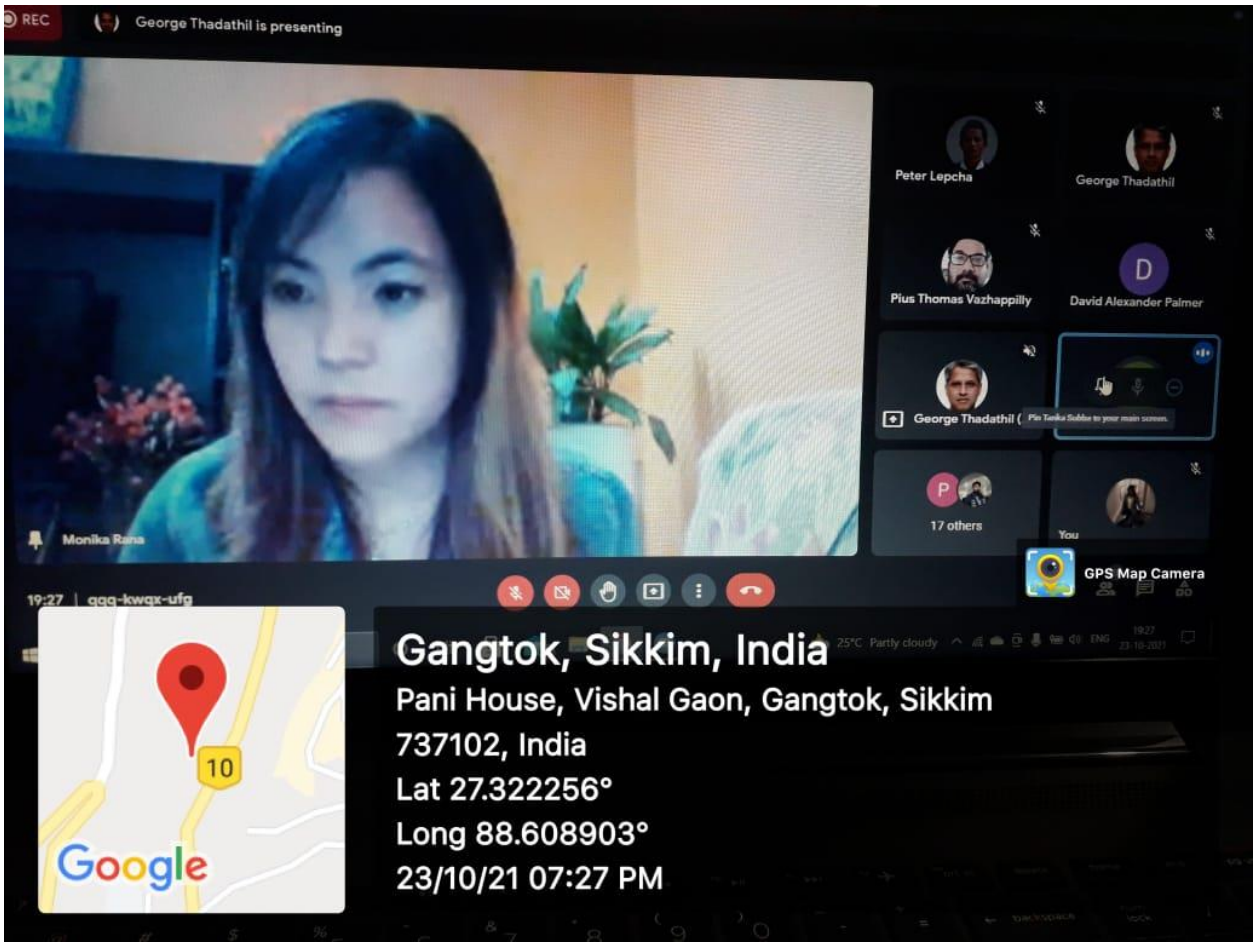
Dr. Pius V Thomas,
Professor Assam University
Department of Philosophy

Fr. Dr. George Thadathil,
Rector & Principal Salesian College Siliguri and
President of All India Association for Christian Higher Education.

Fr. Dr. George Thadathil making insightful comments.

Professor T.B Subba, Department of Anthropology, North Eastern Hill University

David Alexander Palmar Professor in the University of Hong Kong, Hong Kong, China



Miss Monica Rana, Assistant Professor department of English, SCSC.

Salesian College Siliguri Campus
NATIONAL SERVICE SCHEME [NSS] UNIT II
University of North Bengal
Salesian College Siliguri
Don Bosco Road, Post Box No. – 73, Siliguri - 734001, West Bengal, India

Celebrating international youth day –

Hosting a regional Webinar in collaboration with

Humane society international

titled

"Our Hope for Farm Animals on India's 75th Independence Day"

Privileged by the concomitant guidance from our Rector & Principal Fr. (Prof). George Thadathil and our NSS Program Officer Mr. Pinak Dey, **NSS Unit II Salesian College Siliguri Campus collaborated with Humane Society International/India** to successfully organize a webinar titled **- "Our hope for farm animals"** on the **12th of August**, **2021**. **Mr Abhishek Talukdar** who is the *Campaign Coordinator for Farm Animals Protection department of HSI India* led the webinar as our resource person. The role of Humane Society International (HSI) around the globe is to promote the *human-animal bond, rescue and protect wildlife, promote animal-free testing and research, and confront cruelty to all animals in all its forms*.

The event began at 1:00 pm with 40+ participants hosted by Mr Navin Singhal (B.com Hons, 5th semester).

Fr (Prof.) George Thadathil (Rector & Principal) Salesian College Siliguri *led us into a moment of prayer* followed by his words of wisdom. The principal spoke about several individual issues around the globe related to the *catastrophic climate change, expansion of desert-area* and thereby connecting its cause to the concept of Avidya [ignorance], in humans [as expressed in the philosophic school of Vedānta]. He also reminded us of the famous dystopic novel, *George Orwell's "Animal Farm"* which showed the brutality and anarchy humans deploy while they treat farm animals. Father Principal's words were followed by a speech from NSS Program Officer Mr. Pinak Dey, (adding on to what was already told by the principal), he projected a melancholic dystopian reality approaching by the next century [due to climate change], caramelised in a vision that needs radical change- initiation by the youth to provide an optimistic future for our planet.

The event was then handed over to Mr Abhishek Talukdar by NSS Volunteer Miss Roshni Chettri, who introduced him.

The presentation from the resource person basically focused on the real scenario *of industrial animal agriculture being one of the worst offenders in terms of severity of suffering and number of animals affected*. More than 80 billion land animals are raised for food every year globally, and of those, the majority of the world's more than 7 billion egg laying hens and an estimated 75 million breeding cows spend most of their lives confined to cages and crates so small that they can barely move. *He also spoke about important step towards eliminating this intensive confinement is reducing the number of animals raised for food globally by changing consumer eating habits* **reducing** the amount ***of meat, dairy, eggs and fish*** thereby- increasing *plant-based alternatives*. The Q&A session led to many inquiries both from students as well as participants. Towards the end of the presentation, Mr Talukdar emphasized on the nutritional vitality and plant-based alternatives available, to make a change.

Mr Talukdar, made it clear that **HSI does not enforce a vegan diet**, but trying to *reduce the variety/number of animal-based nutrition was the take away for the participants*. He emphasized that all type of food intake was personal choice which are conditioned into our life through our society and culture [there is no fault in a non-vegetarian diet]. The solution to sustainable development as mentioned, was to reduce the number of animal-based meals per week, per day and so on.

Alternatives such as almond milk, PU leather were advocated in place of animal milk and genuine leather.

The vote of thanks was given by Akash Bansal (B. Com Hons, 5th semester). Participants were finally asked to fill the feedback form and the webinar ended at around 2:30 p.m.

Reported by,

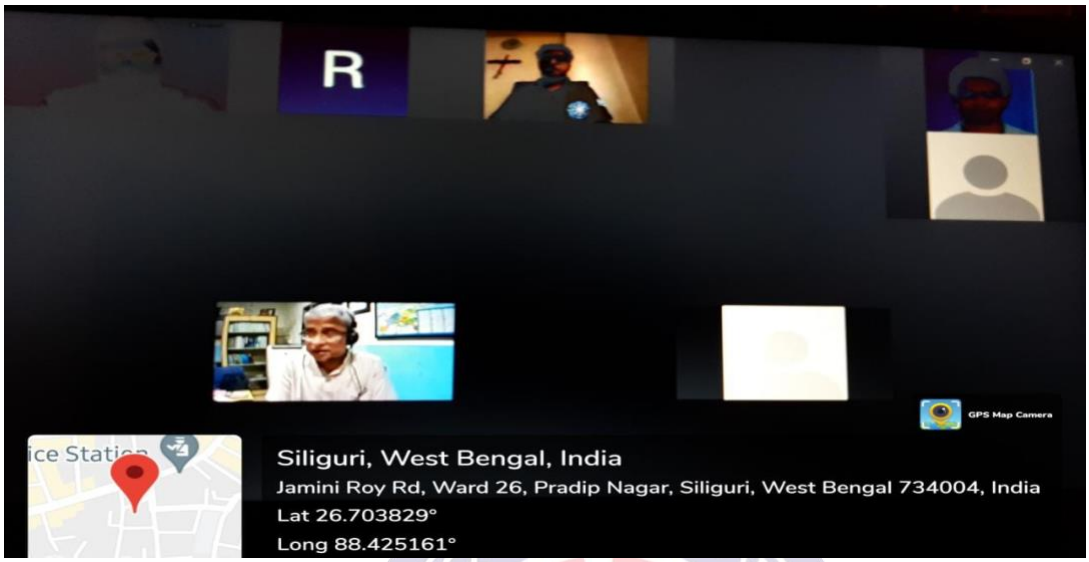
NSS committee member,

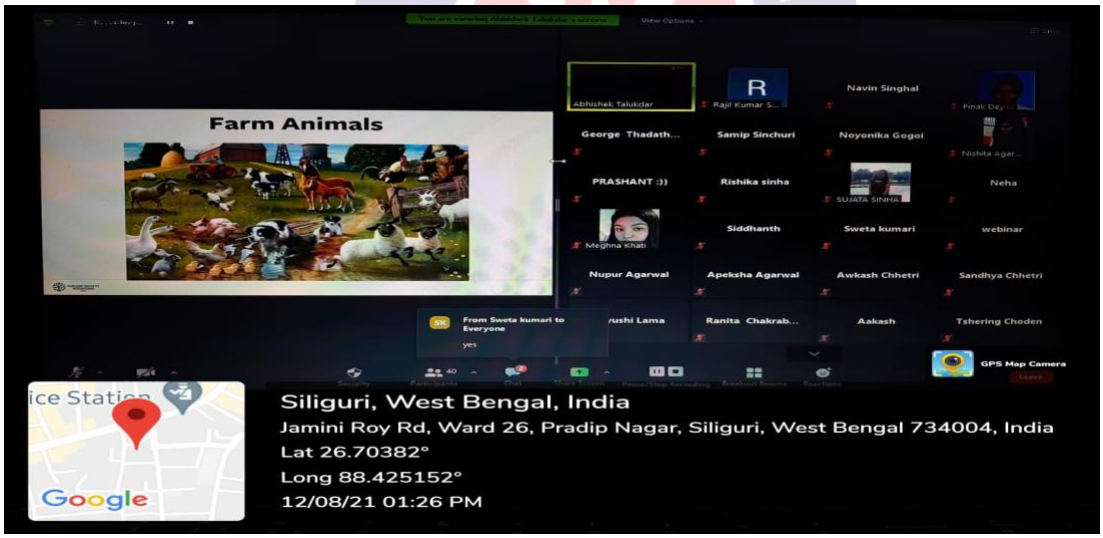
Mr Navin Singhal, [B. Com (H)- 4th Semester]

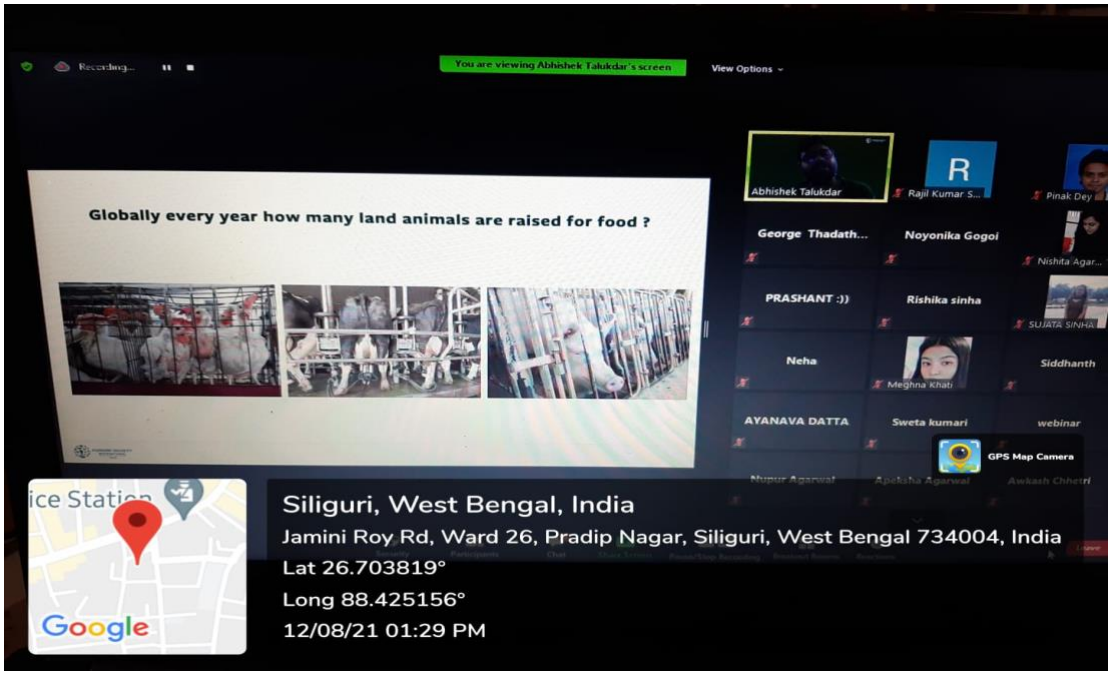
Edited and modified – Mr Pinak Dey

[Assistant Professor, Department of education].

The photographs are as follows







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pinakdey31@salesiancollege.net

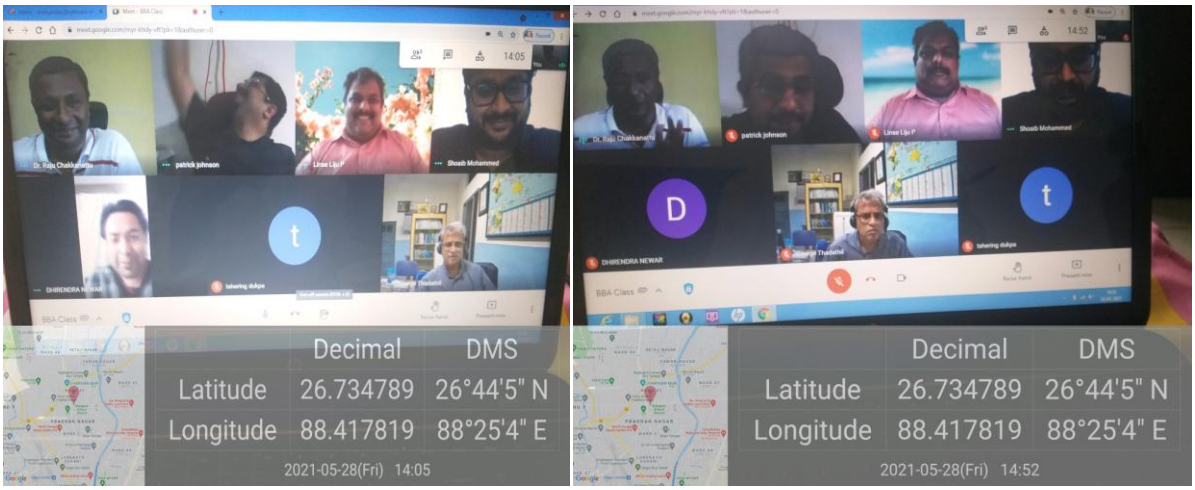
Salesian College, Siliguri Campus

Meeting with Don Bosco College, Mannuthy

Anirban Ghosh

On May 28, 2021, Salesian College, Siliguri-Sonada, and Don Bosco College, Mannuthy, jointly organised a meeting, online on Google Meet, to discuss the various collaborative aspects of Placement that the two institutions could undertake. Fr. Dr. Raju Chakkanattu was present from Don Bosco College, Mannuthy. Mr. Shoaib Mohammed and Mr. Linse Liju were industry representatives from Thrissur, Kerala. Fr. Dr. George Thadathil, Principal, Salesian College, Mr. Patrick Johnson, Dean, Siliguri Campus, Mr. Anirban Ghosh, Coordinator, Siliguri Campus, Mr. Dhirendra Newar, Coordinator, Sonada Campus, and Mrs. Tshering Dolma, NCC and COP coordinator, Sonada Campus, were present from Salesian College. The meeting was fruitful with deliberation on career guidance, placement opportunities, and motivational techniques for students, organisational requirements and the future requirements that needs to be addressed in order to make students ready for their future growth.

The meeting ended with both the institutions agreeing to meet virtually after discussion the matter further internally and looking into the possibilities of a MoU.



Meeting Link: https://meet.google.com/myr-khdy-vft

3rd Webinar session on "Terrestrial Pure Lands in Hidden Valleys: Ecology and Soteriology in Himalayan Perspectives"

On February 13, 2021, the 3rd session of the webinar series 'Religious Practices in the Himalayan Spaces' was organized virtually by Salesian College (West Bengal, India) in collaboration with the University of Hong Kong (China), and St. Anthony's College (Shillong, Meghalaya), co-sponsored by BRINFAITH. The 3rd webinar series topic was 'Terrestrial Pure Lands in Hidden Valleys: Ecology and Soteriology in Himalayan Perspectives'. Dr. Georgios T. Halkias, Associate Professor, Centre of Buddhist Studies, University of Hong Kong & Faculty of Oriental Studies, University of Oxford was the resource person for the session. The session commenced at 3:30 pm with the opening remarks by Fr. (Dr.) George Thadathil (Principal & Rector, Salesian College, Siliguri). The event was also live streamed over Youtube and conducted via Gsuite.

Dr Halkias explained the idea of 'hidden valleys' or *Beyul* in Tibetan Buddhist tradition. He further analyzed the theological and historical background of *Beyul* and the significance of it in the contemporary world. Dr. David Alexander Palmer, Professor, Hongkong Institute for the Humanities and Social Science, Dept. of Sociology, Hong Kong University was the moderator of the session. All the participants actively engaged in the discussion, and their queries were responded by the speaker eloquently. The webinar ended with the vote of thanks by Ms. Prayana Subba, Assistant Professor from Salesian College, Sonada.

Salesian College, Siliguri

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Event & Activities:

1	Title of the Event:	**A Webinar on "Cytoskeletal Architecture and Dynamics under Stress"**
2	Date:	**15th November, 2021**
3	Time:	**11:00 AM**
4	Mode / Venue :	**Online Mode: Google Meet**
5	Link:	**https://meet.google.com/esm-pqea-iwy**
6	Total Number of Days:	**1**
7	Organized by Dept/Cell/Club/Committee:	**Department of Physics, Salesian College in collaboration with IQAC**
8	Faculty Incharge of the Event:	**Dr. Prajwal Chettri**
9	Total Number of Participants:	**17**
10	Total Number of Faculty Involved:	**4**
12	Coordinator:	**Dr. Prajwal Chettri**

Prajwal Chettri

Prajwal Chettri

Hod **Department of Physics**	**Event** **Coordinator**	**Vice Principal**

The Faculty incharge must submit the detailed reports, documents and geo tagged Photos of the events to the IQAC office within 2 days of the completion of the event and upload the reports in the College ERP.

REPORT

Abstract: The webinar will outline the cytoskeleton of eukaryotic cells and their structure function relation. It will also highlight the signalling cascade of different proteins required to maintain cellular homeostasis. Finally the talk will entail the crosstalk between these functional proteins during oxidative stress of the system.

Resource person: Dr. Anindita Chakraborty (Scientist G, UGC-DAE Consortium for Scientific Research)

The Department of Physics, Salesian College in collaboration with IQAC organized a Webinar titled "Cytoskeletal Architecture and Dynamics under Stress" through the online mode via Google Meet on 15th November, 2021. The programme started at 11:00 AM with a prayer and welcome speech for the event by Fr. C. M. Paul, Vice-Principal of Sciences. He warmly welcomed the resource person for today's Webinar, Dr. Anindita Chakraborty.

Dr. Prajwal Chettri, Head of the Physics Department, then gave a brief introduction about Dr. Chakraborty and the topic which will be addressed in the Webinar.

Mr. Bikramjit Chandra, Assistant Professor, Department of Physics, host of the event thanked Dr. Chakraborty for taking time off her busy schedule and accepting to be the resource person of the event. He then went on to initiate the programme.

Dr. Chakraborty, introduced the idea of cytoskeletal organization among organisms and eukaryotic cells, which are responsible in providing shape and mechanical resistance, growth, movement, biochemical signaling, cell division, etc. She then talked about the

composition of cytoskeleton: actin, intermediate filaments and microtubules, and the function of each of these components. She then discussed the idea of polymerization and de-polymerization process of cytoskeleton, importance of biochemical signaling, cytoskeletal dynamics, oxidative stress and members of Rho-GTPases. She also mentioned that this type of study can be used in detection of early initiation phase of carcinogenesis i.e., migration or invasion of cancer cells. She emphasized that this bio-physics field of the research on cytoskeletal dynamics is an active field in computational cellular structure modelling.

The Q&A session was presided over by Dr. Digvijay Kharga, Assistant Professor, Department of Physics, who thanked the speaker Dr. Chakraborty for her wonderful presentation and highlighting the audience about the ever-increasing field of interdisciplinary research particular in Sciences. After addressing the questions, the programme ended with a vote of thanks presented by Dr. Prajwal Chettri.

A special mention and thanks to Ms. Sujata Sinha, Assistant Professor, Department of Physics who was also an integral part in organizing the event and technical support.

Digvijay Kharga.

Report by:
Name: Dr. Digvijay Kharga
Designation: Assistant Professor
Date: 15/11/2021
Salesian College, Siliguri

Finance Section:

No budget was required for this programme.

Attendance:

No.	Name:	Department
1	Fr. C. M. Paul	Vice-Principal of Sciences
2	Dr. Prajwal Chettri	Physics
3	Mr. Bikramjit Chandra	Physics
4	Ms. Sujata Sinha	Physics
5	Dr. Digvijay Kharga	Physics
6	Priyam Rai	Physics
7	Rudraneel Chakraboty	Physics
8	Shrawan Rai	Physics
9	Bibhushit Monger	
10	Ajit Tiwari	Physics
11	Arati Lohar	Physics
12	Sidharth Rai	Physics
13	Lachung Lepcha	Physics
14	Nirupan Thapa	Physics
15	Pewang Tamang	Physics
16	Bhaskar Prasad	Physics
17	Shruti Prasad	Physics

GEO TAGGED PHOTO:

Link to Google Meet recording of the session.

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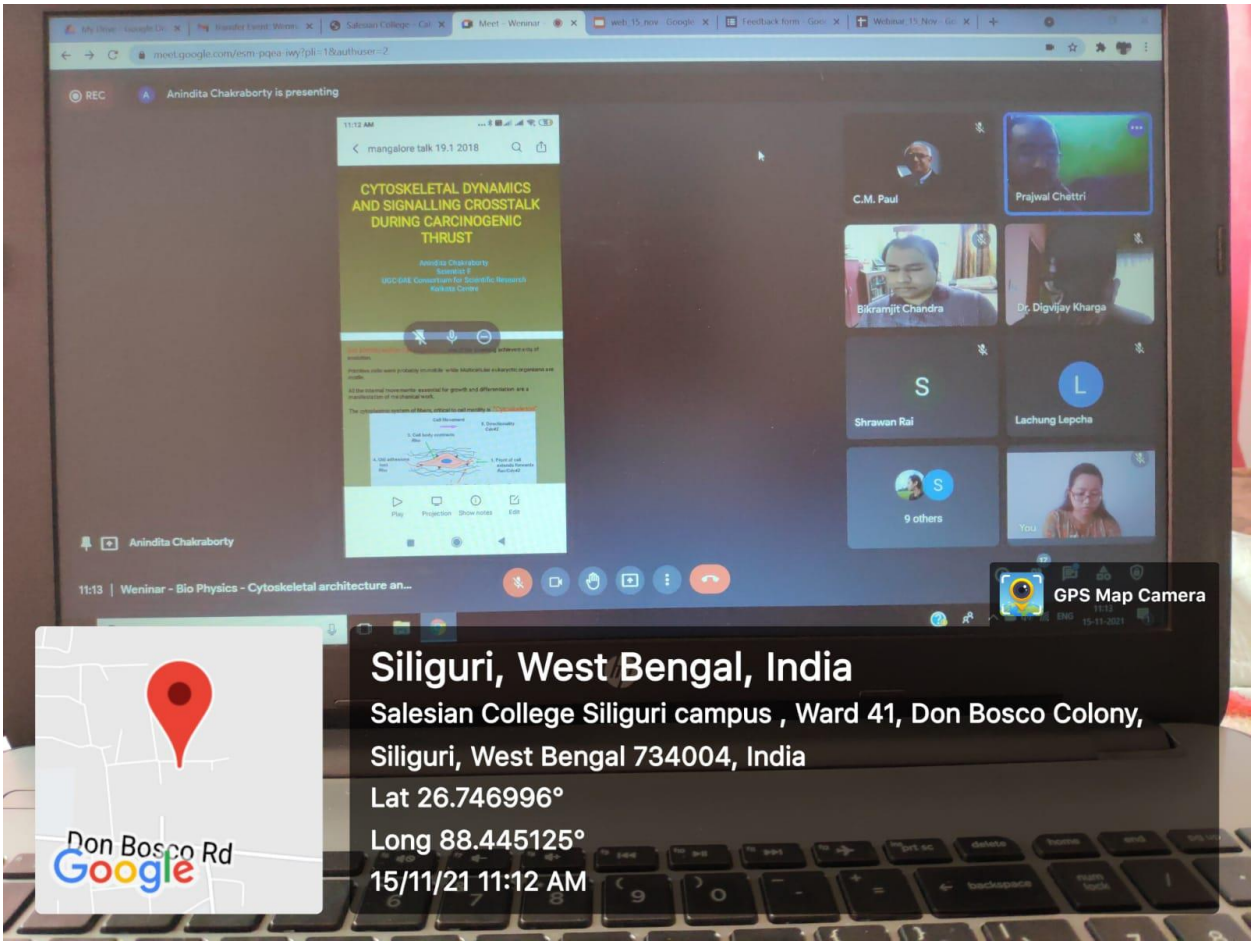

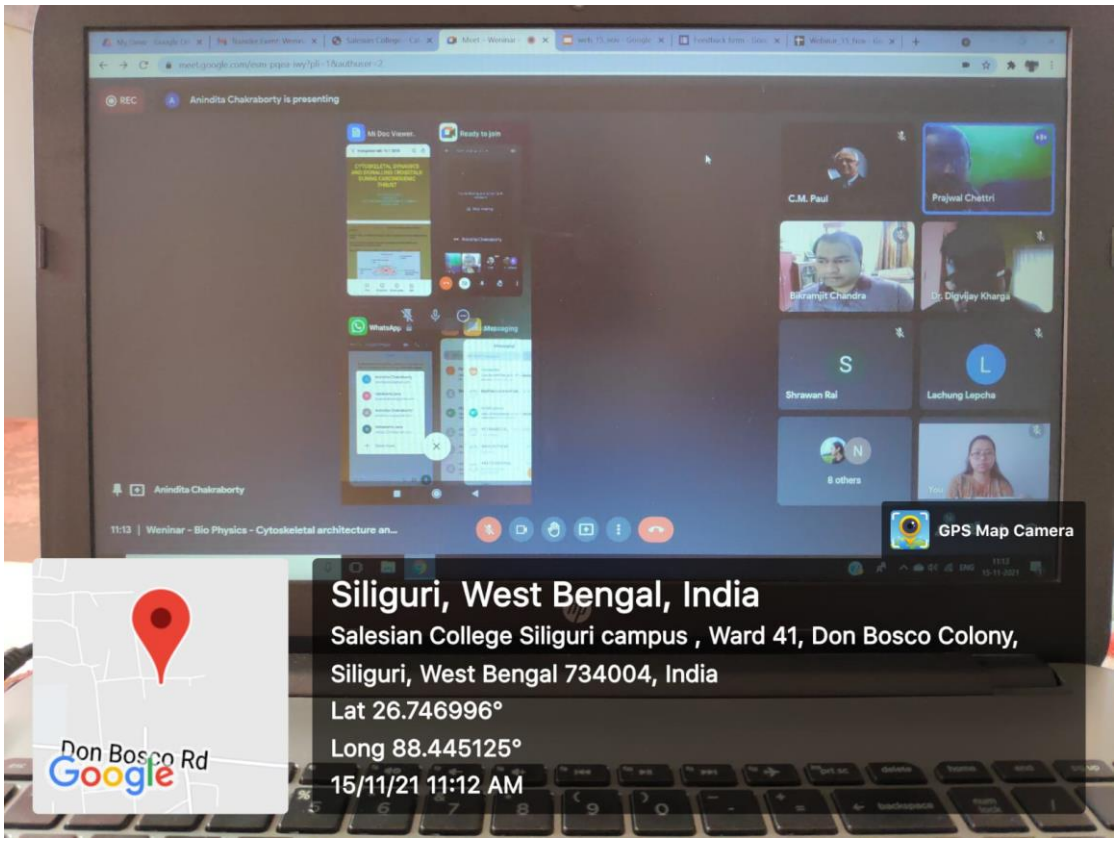
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Prajwal Chettri
Bikramjit Chandra
Dr. Digvijay Kharga
Shrawan Rai
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8 others
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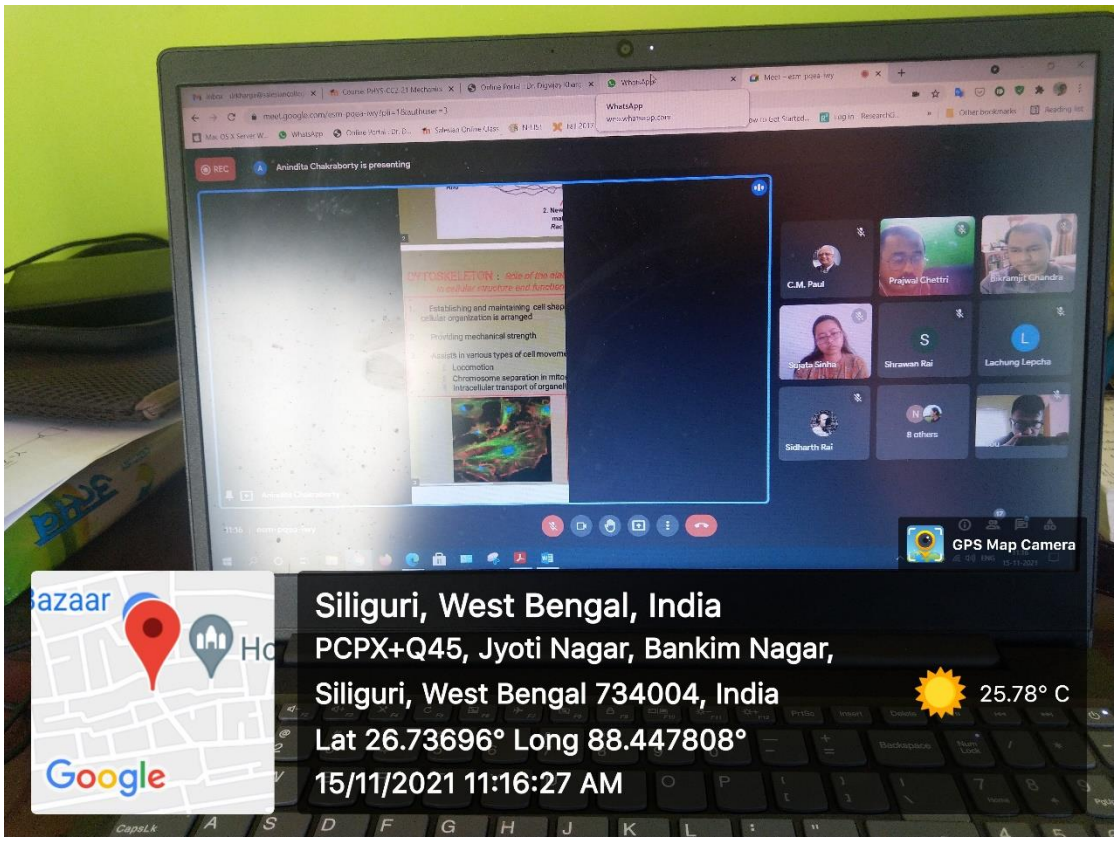
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8 others
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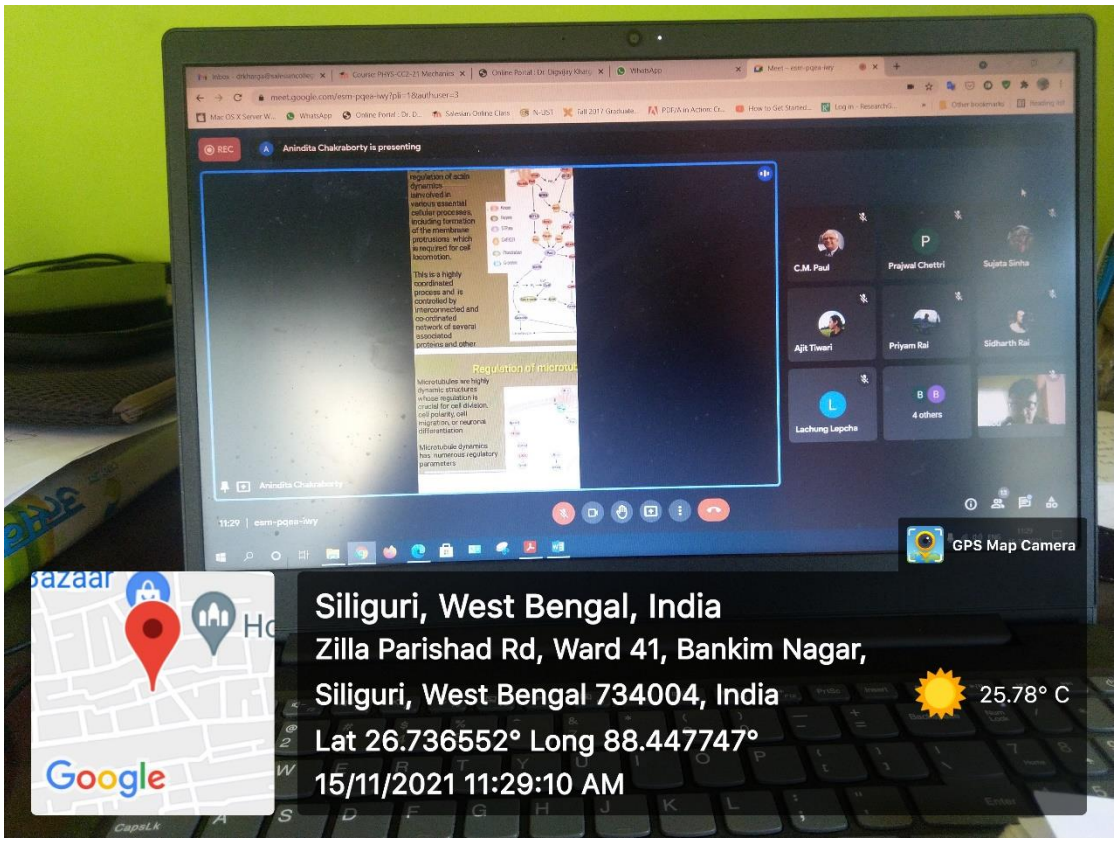
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Regulation of microtubules
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Prajwal Chettri
Sujata Sinha
Ajit Tiwari
Priyam Rai
Sidharth Rai
Lachung Lepcha
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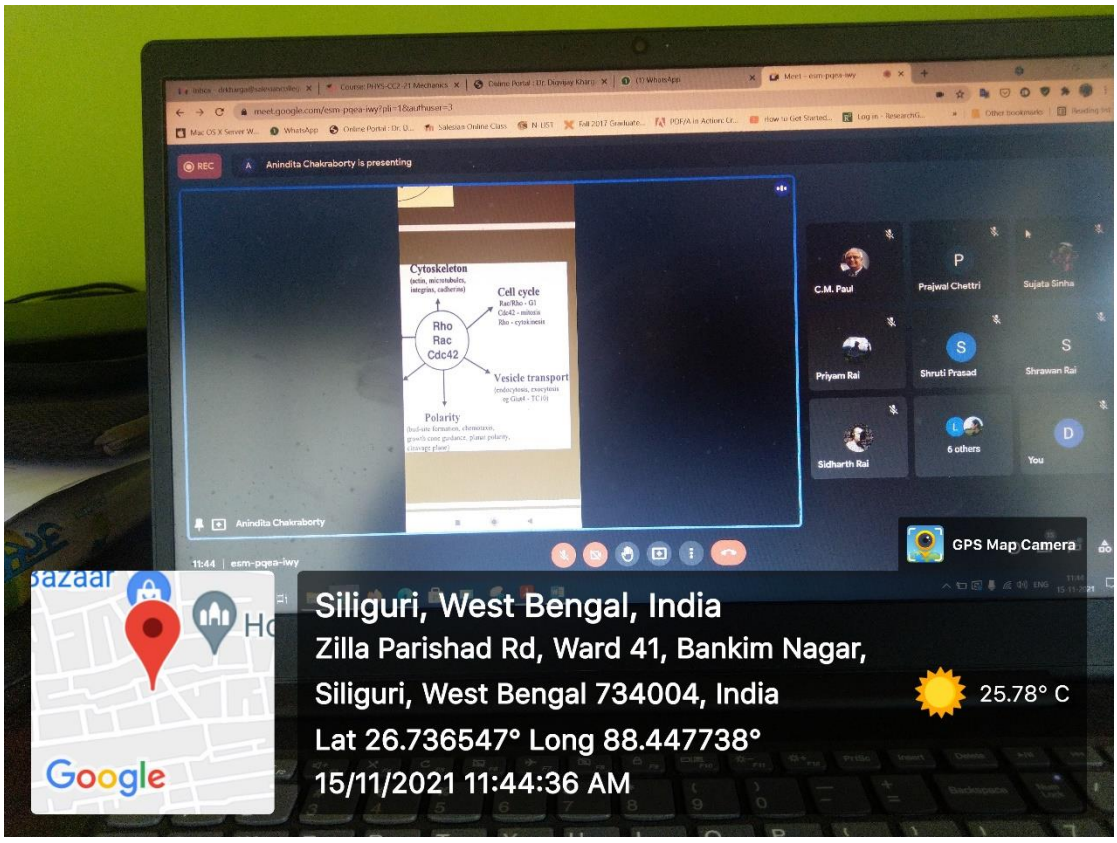
Anindita Chakraborty is presenting
Cytoskeleton
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Rho
Rac
Cdc42
Vesicle transport
Polarity
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Prajwal Chettri
Sujata Sinha
Priyam Rai
Shruti Prasad
Shrawan Rai
Sidharth Rai
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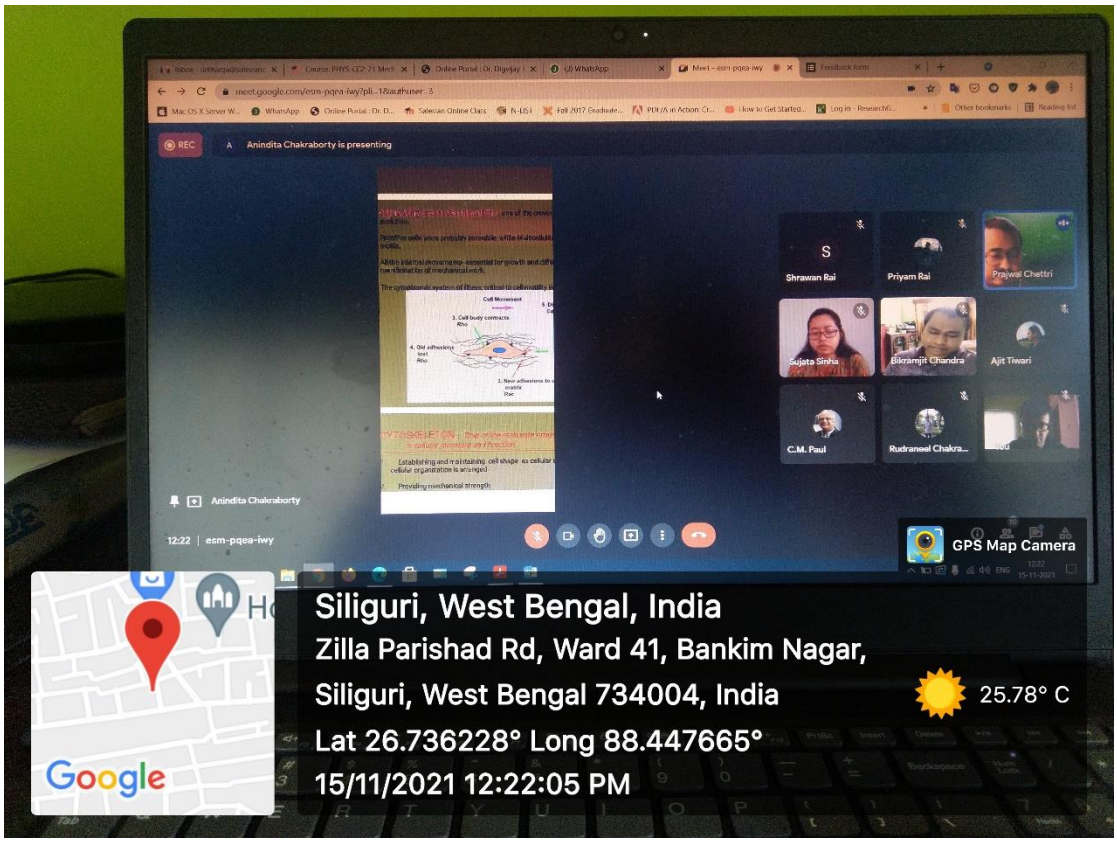

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Event & Activities:

1	Title of the Event:	**A Webinar on "2D Materials and their Applications in Nanoelectronic devices"**
2	Date:	**21st September, 2021**
3	Time:	**11:30 AM**
4	Mode / Venue :	**Online Mode: Google Meet**
5	Link:	**https://meet.google.com/nqv-ssqo-oyq**
6	Total Number of Days:	**1**
7	Organized by Dept/Cell/Club/Committee:	**Department of Physics, Salesian College in collaboration with IQAC**
8	Faculty Incharge of the Event:	**Dr. Prajwal Chettri**
9	Total Number of Participants:	**33**
10	Total Number of Faculty Involved:	**5**
12	Coordinator:	**Dr. Prajwal Chettri**

Prajwal Chettri

Prajwal Chettri

Hod **Department of Physics**	**Event** **Coordinator**	**Vice Principal**

The Faculty incharge must submit the detailed reports, documents and geo tagged Photos of the events to the IQAC office within 2 days of the completion of the event and upload the reports in the College ERP.

REPORT

Abstract: With the Silicon MOS technology nearing the scaling limits, and the demand for flexible electronics on the rise, alternatives to the conventional Silicon MOSFET must be explored with greater vigour. Of the various types of electronic materials under research, the 2-dimensional (2-D) materials (like Graphene, monolayer transition metal chalcogenides-TMDCs, black phosphorous, silicene, germanine, etc.) are of great significance in this regard. The chief advantages of 2-D materials over bulk material MOSFETs are the superior carrier mobility and the better electrostatic control over the channel, resulting in reduced leakage and less power consumption. This talk would look to give a broad overview of this rapidly emerging field of application of 2D materials in a concise manner.

Resource person: Dr. Amretashis Sengupta (SERB Research Scientist, University of North Bengal)

The Department of Physics, Salesian College in collaboration with IQAC organized a Webinar titled “2D Materials and their Applications in Nanoelectronic devices” through the online mode via Google Meet on 21st September 2021. The programme started at 11:30 AM with a prayer and blessings for the event by Fr. C. M. Paul, Vice-Principal of Sciences. He warmly welcomed the resource person for the Webinar, Dr. Amretashis Sengupta. Prof. Satyendra C. Das IQAC coordinator and the senior most faculty member of the Physics Department, then gave a brief introduction about Dr. Sengupta and the topic which will be addressed in the Webinar.

Mr. Bikramjit Chandra, Assistant Professor, Department of Physics, host of the event thanked Dr. Sengupta for accepting to be the resource person of the event on a short notice, and initiated the programme.

Dr. Sengupta, introduced the idea of how quantum confinement leads to the fabrication 2D, 1D and 0D nanomaterials. He talked about the different characterizations processes employed, and scaling challenges faced during the fabrication process. The talk also focused on the proposed solutions to these problems. Different types of 2D materials were discussed and emphasis was imposed on the advantages like superior mobility, better electrostatic control, mechanical flexibility and various optoelectronic applications. He also talked about modelling of these materials theoretically, using ab initio and density function technique calculations implementing tight binding potential model for interactions and Green's function self-consistent method.

The Q&A session was presided over by Dr. Digvijay Kharga who thanked Dr. Sengupta for his wonderful presentation and keeping the audience engaged in his talk. After addressing the questions, the programme ended with a vote of thanks presented by Dr. Prajwal Chettri, Head of the Physics Department.

A special mention and thanks to Ms. Sujata Sinha, Assistant Professor, Department of Physics who was also an integral part in organizing the event and technical support.

Digvijay Kharga.

Report by:
Name: Dr. Digvijay Kharga
Designation: Assistant Professor
Date: 21/09/2021
Salesian College, Siliguri

Finance Section:

No budget was required for this programme.

Attendance:

No.	Name:	Department
1	Fr. C. M. Paul	Vice-Principal of Sciences
2	Dr. Satyendra C. Das	Physics
3	Dr. Prajwal Chettri	Physics
4	Mr. Bikramjit Chandra	Physics
5	Ms. Sujata Sinha	Physics
6	Dr. Digvijay Kharga	Physics
7	Ms. Anindya Bose	Physics
8	Dr. Bikash Sharma	Physics
9	Mr. Bibek Chettri	Physics
10	Ms. Soumya Mukherjee	Physics
11	Adesh Sada	Physics
12	Aryanjali Sharma	Physics
13	Priyam Rai	Physics
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19	Khushi Gurung	Physics
20	Lachung Lepcha	Physics

21	Nirupan Thapa	Physics
22	Pewang Tamang	Physics
23	Subhayu Bose	Physics
24	Arihanth Thapa	Physics
25	Astha Tiwari	Physics
26	Atinap Tamang	Physics
27	Bhaskar Prasad	Physics
28	Jermit Lepcha	Physics
29	Nikhil Biswakarma	Physics
30	Raj Bahadur Biswakarma	Physics
31	Sarla Lama	Physics
32	Subhranil Das	Physics
33	Swarnajit Bhadra	Physics

GEO TAGGED PHOTO:

Link to Google Meet recording of the session.

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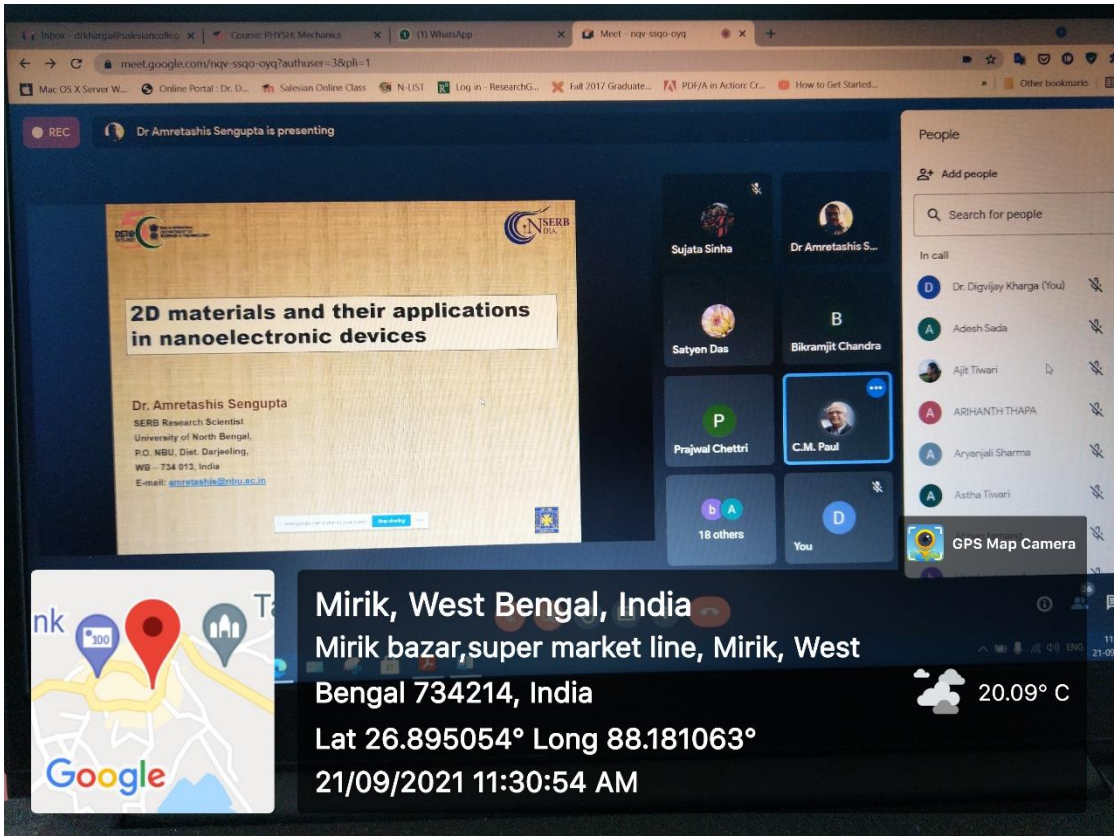

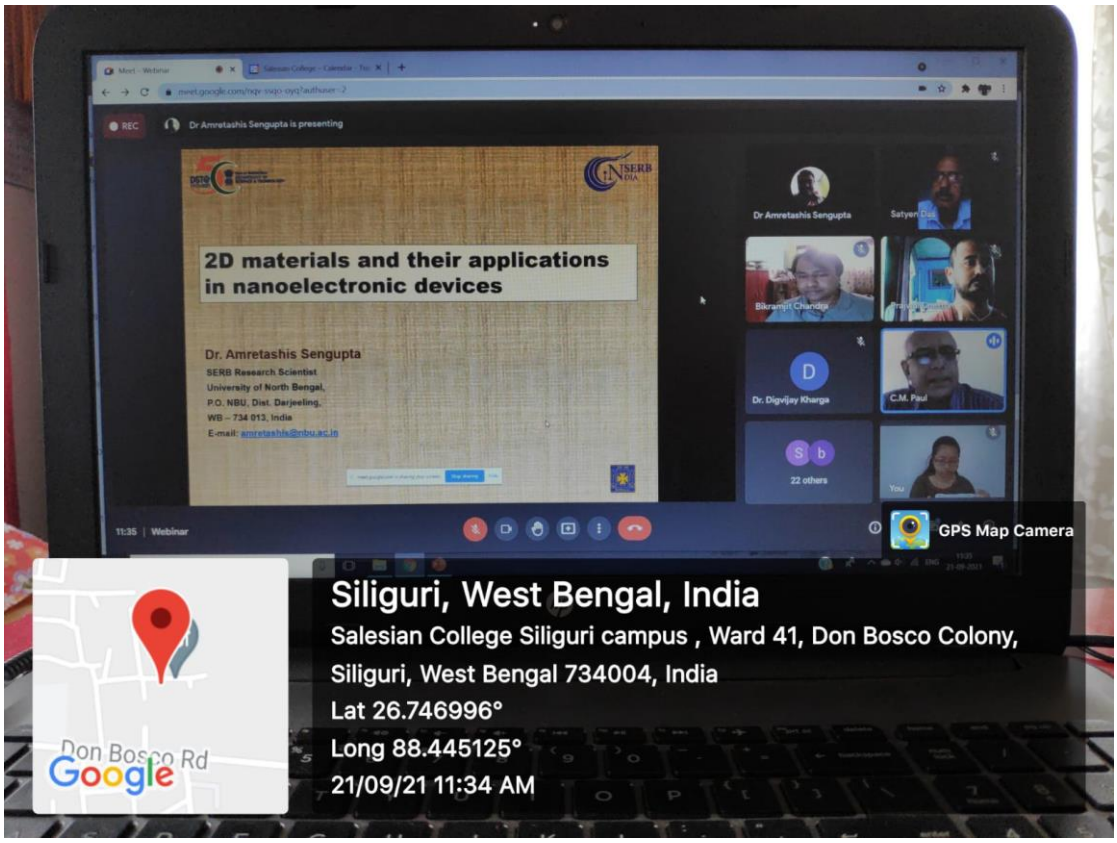
Dr Amretashis Sengupta is presenting
2D materials and their applications in nanoelectronic devices
Dr. Amretashis Sengupta
SERB Research Scientist
University of North Bengal,
P.O. NBU, Dist. Darjeeling,
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E-mail: amretashis@nbu.ac.in
Dr Amretashis Sengupta
Satyen Das
Bikramjit Chandra
Prajwal Chettri
Dr. Digvijay Kharga
C.M. Paul
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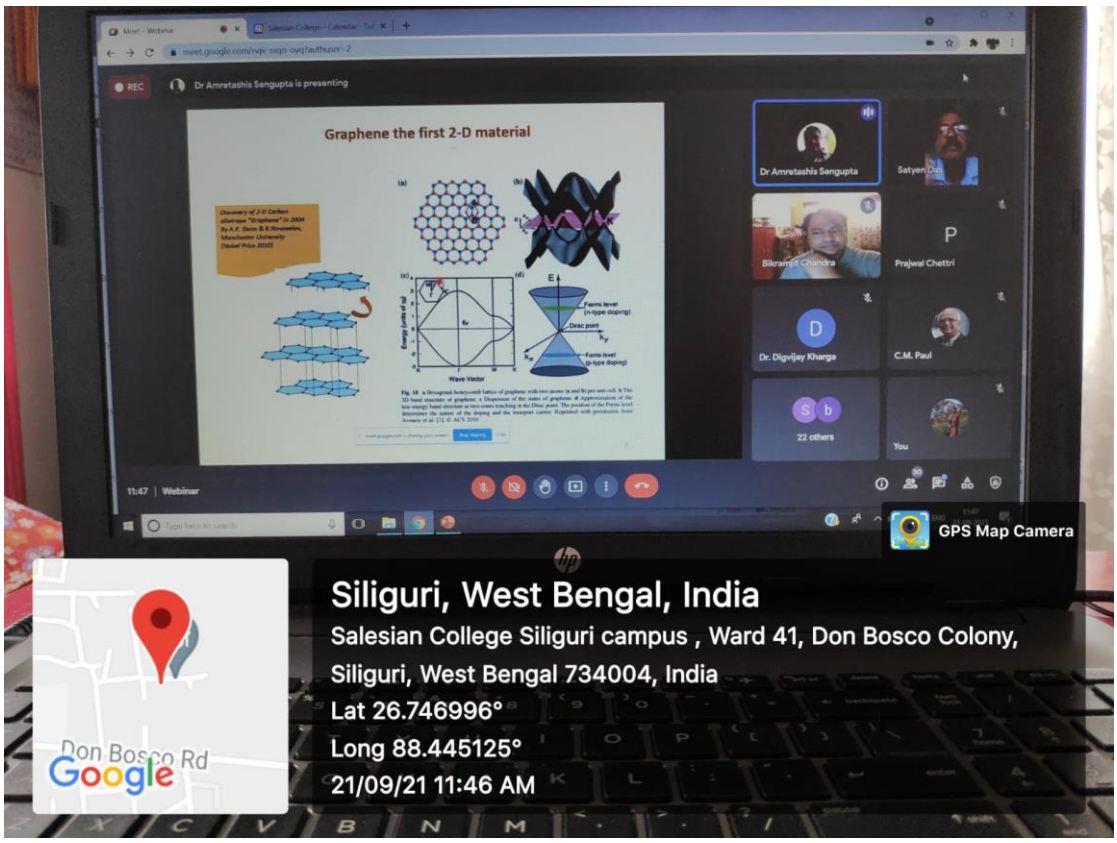
Dr Amretashis Sengupta is presenting
Graphene the first 2-D material
Dr Amretashis Sengupta
Satyen Das
Bikramjit Chandra
Prajwal Chettri
Dr. Digvijay Kharga
C.M. Paul
22 others
You
11:47 | Webinar
GPS Map Camera
Siliguri, West Bengal, India
Salesian College Siliguri campus , Ward 41, Don Bosco Colony, Siliguri, West Bengal 734004, India
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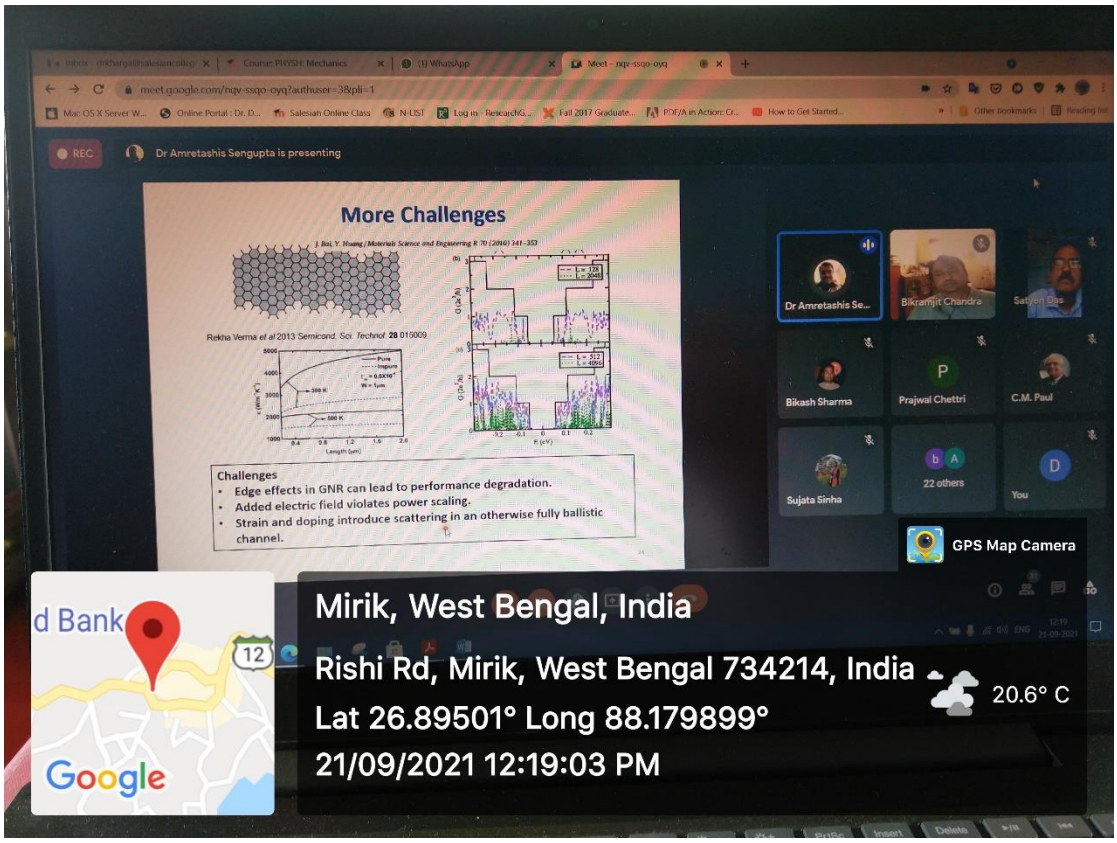
REC
Dr Amretashis Sengupta is presenting
More Challenges
Challenges
• Edge effects in GNR can lead to performance degradation.
• Added electric field violates power scaling.
• Strain and doping introduce scattering in an otherwise fully ballistic channel.
Dr Amretashis Se...
Bikramjit Chandra
Satyen Das
Bikash Sharma
Prajwal Chettri
C.M. Paul
Sujata Sinha
22 others
You
GPS Map Camera
Mirik, West Bengal, India
Rishi Rd, Mirik, West Bengal 734214, India
Lat 26.89501° Long 88.179899°
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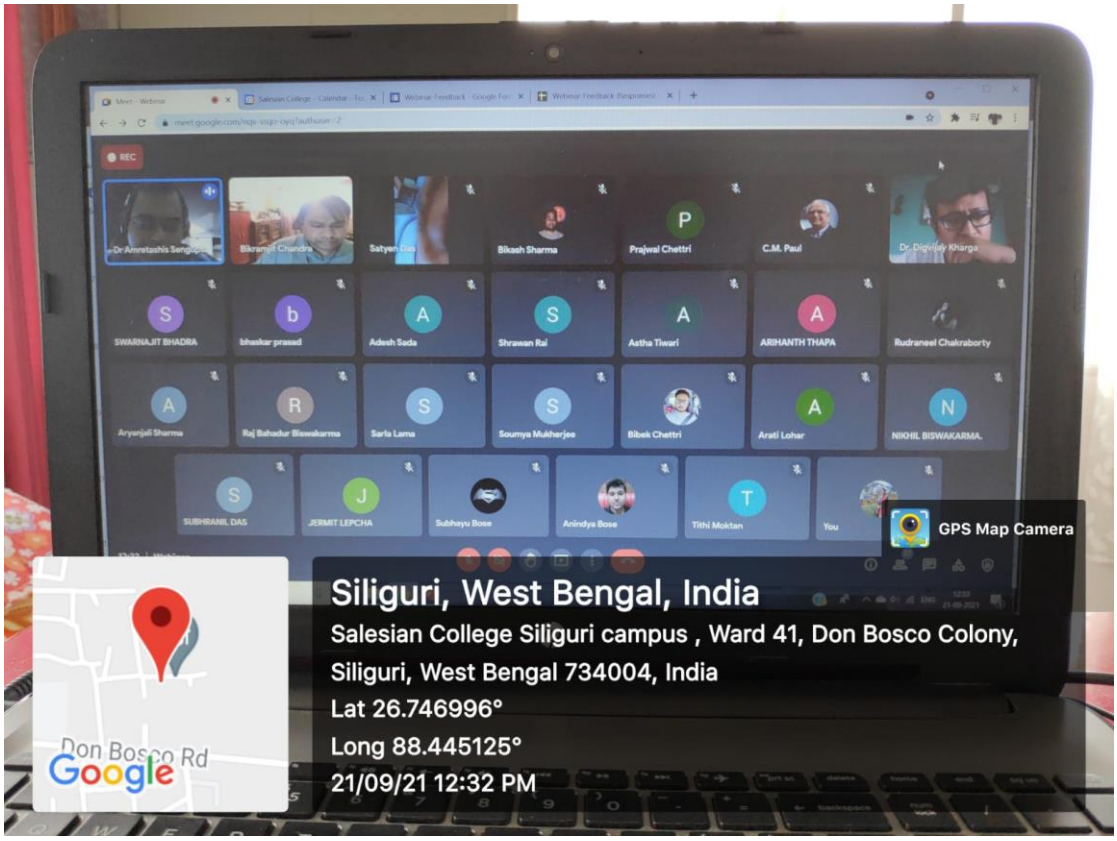
GPS Map Camera
Siliguri, West Bengal, India
Salesian College Siliguri campus , Ward 41, Don Bosco Colony,
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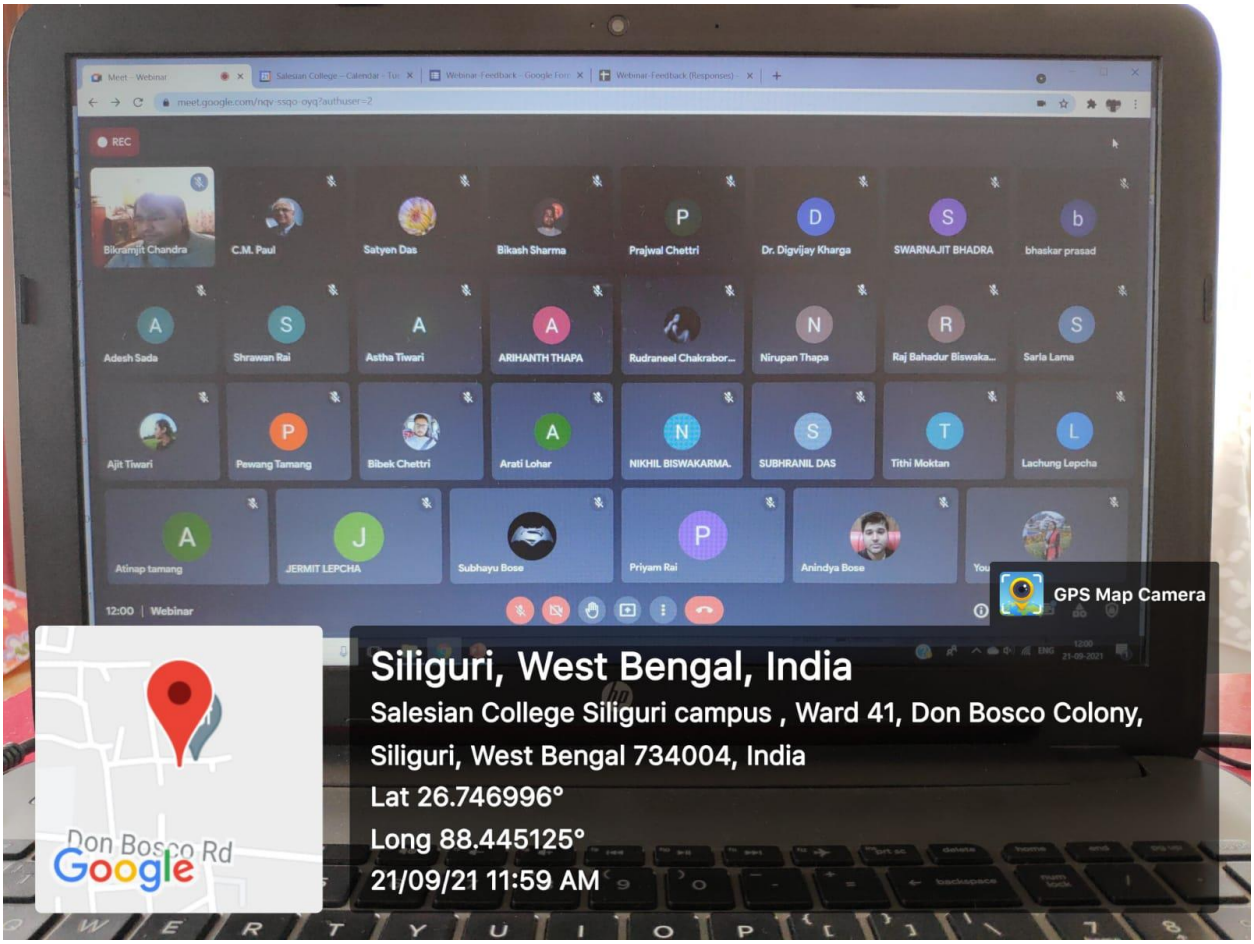


The Faculty incharge must submit the detailed reports, documents and geo tagged Photos of the events to the IQAC office within 2 days of the completion of the event and upload the reports in the College ERP.

Report:

Salesian College, Siliguri Campus
Department of Physics

Webinar Title: "An introduction to Nano: the fascinating world of nanotechnology"
Date: 11.01.2021, **Time:** 11:00 AM
Platform: Google Meet
Links: https://forms.gle/Fcw8DfLgmwkGD5f6A (registration)
https://meet.google.com/yxp-brrv-qgz (link to the webinar)

Total registration: 69

Abstract:
The talk encompassed basics in nanotechnology taking into consideration the intriguing properties of nano-materials/nanopartcles and their application. In addition, the state of the art characterization techniques to probe the physiochemical properties of nanomaterials were also discussed.

Resource person:
Dr. Amretashis Sengupta (SERB Research Scientist at the University of North Bengal)

About Dr. Sengupta:
Dr. Sengupta is currently a SERB Research Scientist at the University of North Bengal. He has a number of varied interests in the field of nanotechnology and materials science but is primarily focused on the properties of low dimensional systems and their possible integration into Li/Na ion batteries and solar cells. He originally did his Masters in Physics from the University of North Bengal before branching into nanotechnology with an M.Tech and a Ph.D. in Engineering from Jadavpur University. He has done a significant amount of post-doctoral work: both nationally in the Indian Institute of Science, and internationally in the University of Bremen in Germany and the University of Glasgow in the UK. He has also co-authored an introductory textbook on nanotechnology titled "Introduction to Nano - Basics to Nanoscience and Nanotechnology".

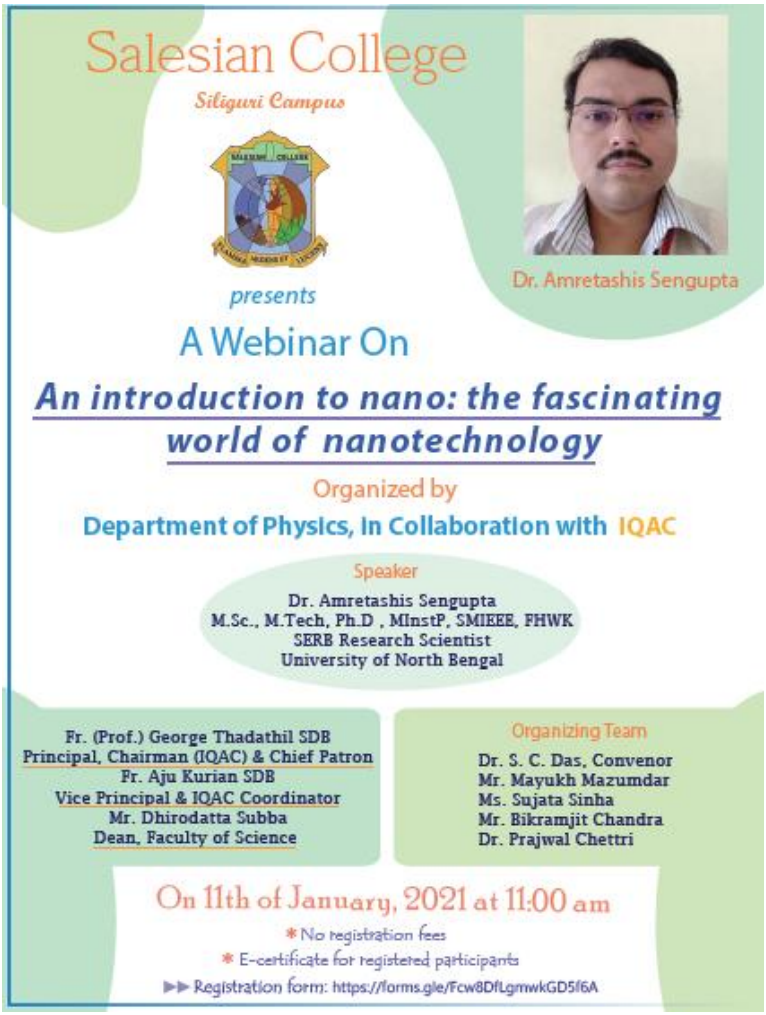
Summary of the webinar:

Dr. Sengupta, introduced the how and why the properties of matter changes as we scale down their dimension from bulk to nanometer range. He presented the different methods on how one can synthesize nanomaterials. The lecture indeed carried a unique flavor as Dr. Sengupta explained the practical applications of nanomaterials and how technology can transcend to newer heights once the commercial production of nanomaterials become feasible.

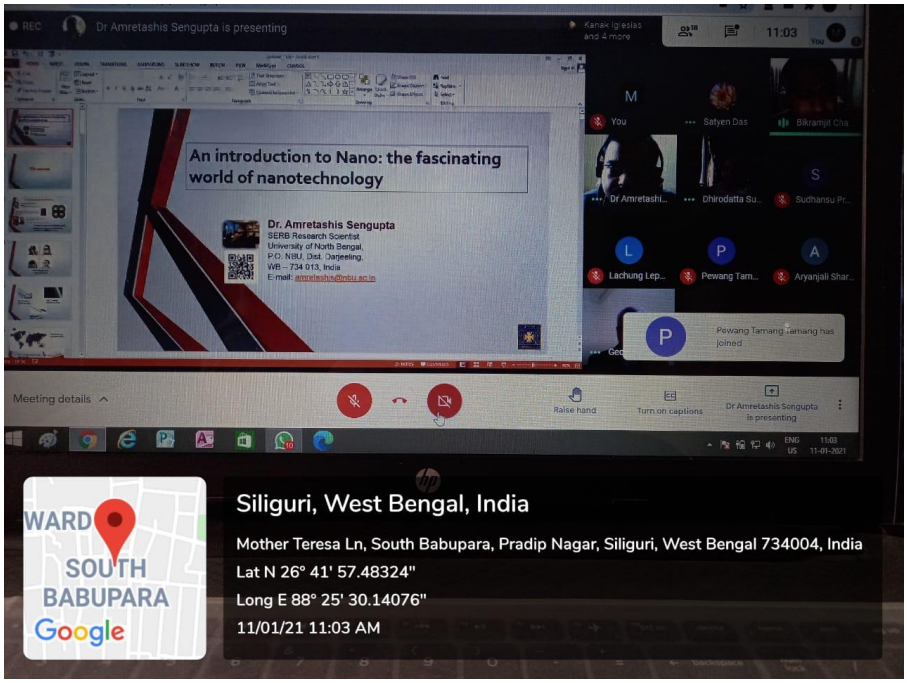
In parallel, he also explained about the working of different state-of-the-art characterizing instruments such as X-ray diffractometer, Scanning Electron Microscope etc. Overall, the lecture was oriented towards the undergraduate students.

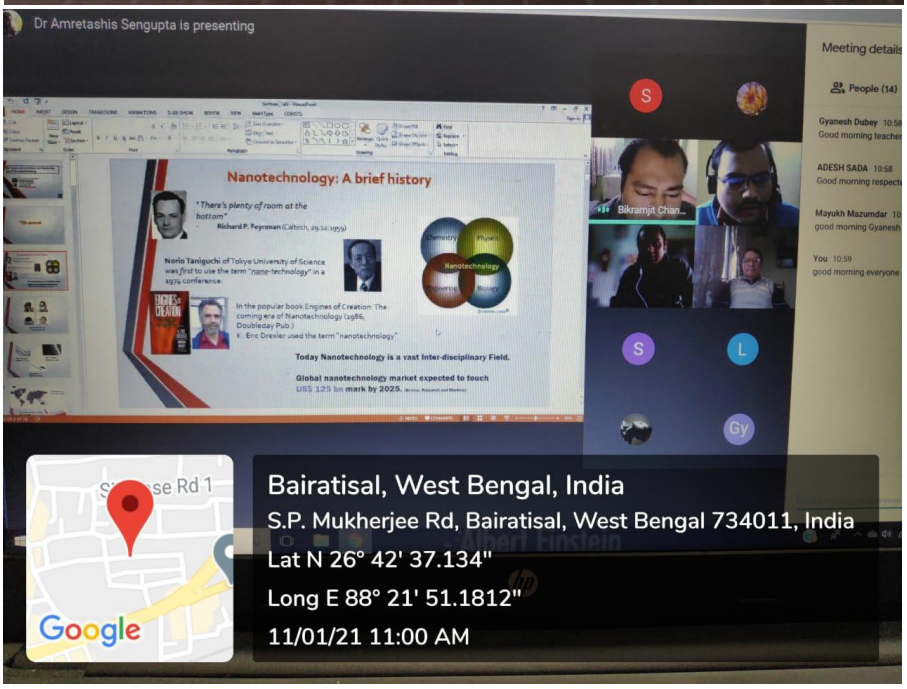
The presentation was hosted by Mr. Bikramjit Chanda (Asst. Prof. – Physics), Ms. Sujata Sinha (Asst. Prof. – Physics) was incharge of Q&A session, Mr. Mayukh Majumdar (Asst. Prof. – Physics) gave thoughts for the talk and Dr. Prajwal Chettri (Asst. Prof. – Physics) gave vote of thanks to the Speaker as well as to the audiences.

Flyer:



Some glimpses of the webinar:





Report for Webinar: Synthesis of Nanoparticles by Laser Ablation.

Organized by: Department of Physics, Salesian College, Siliguri Campus

Basic Details

Date of Webinar: 11:30 AM - 1:00 PM, 18/10/2020

Venue: Online over Google Meet (link: https://meet.google.com/uuf-khsc-sij)

Number of Participants: Registered - 91; Attended - 40

Organizing Committee:

- Dr. Satyendra C. Das
- Mr. Mayukh Mazumdar
- Ms. Sujata Sinha
- Mr. Bikramjit Chandra
- Dr. Prajwal Chettri

Report written by: Bikramjit Chandra

Primary Report

The speaker for the webinar was Dr. Ajay Tripathi who is currently an Assistant Professor in the Department of Physics, Sikkim University. He worked on Bose-Einstein Condensation during his doctoral studies in the University of Freiburg, Germany, but his focus for the last few years has been on the creation of, and improvements in the techniques of creating, nanoparticles. He is a member of one of a small number of teams in India who are working on the topic under discussion. His faculty profile is lined here: http://cus.ac.in/index.php/en/department-of-physics/dr-ajay-tripathi, and his research papers are linked here: https://www.researchgate.net/profile/Ajay_Tripathi9

The webinar was hosted by Mr. Bikramjit Chandra. Dr. Satyendra Chandra Das, head of the Department of Physics, started the proceedings with some warm words of welcome along with a brief primer on the importance of nanoparticles before introducing the speaker. Fr. George Thadathil,

Principal of the College, then welcomed Dr. Tripathi and gave a brief talk about his own interest in nanoparticles from the view of a layperson and hoped for a continual exchange of ideas between the speaker and the students and faculty from Salesian College. This was followed by some words of welcome by Mr. Dhirodatta Subba, Dean of Sciences.

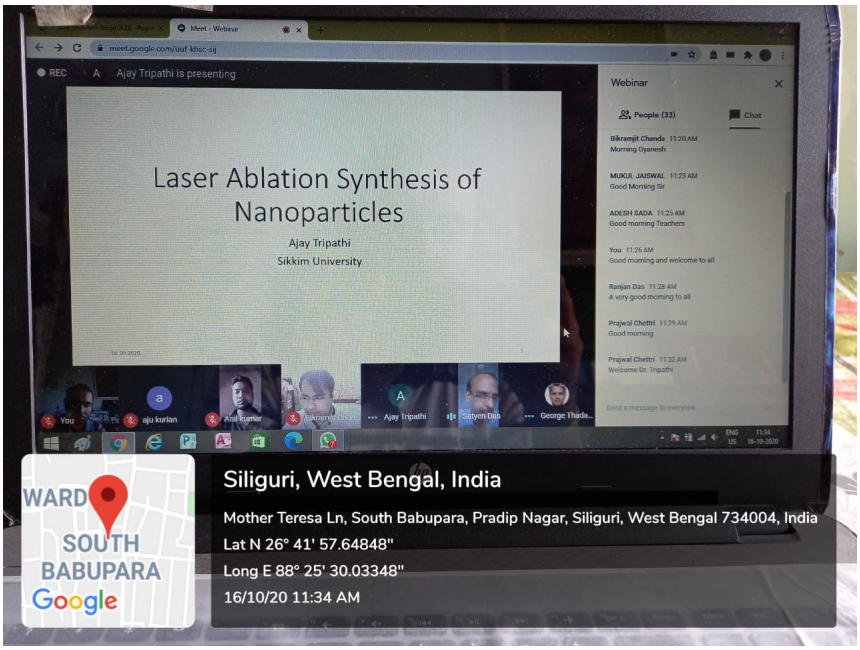
Dr. Tripathi started his presentation with a detailed explanation of the process of laser ablation. This was a technique where a laser beam is focused on a (usually solid) target which causes material to be ejected outwards by the force of the laser beam (ablation). Some of the ejected material would then coalesce to form nanoparticles which can then be studied further. The target is usually immersed inside a liquid solvent which would capture the ejected nanoparticles. The power of the laser should be such that it breaks the bonds between the atoms of the target which ejects them outwards in the form of a plasma. This is the bottom-up approach to nanoparticle creation. Additionally, the power of the laser will diffuse as heat within the target causing the creation of melt that can then be broken down to create nanoparticles. This is the top-down approach to nanoparticle creation. For both of these processes the properties of the target under ablation and the laser itself are crucial, especially when it comes to the optical depth and the thermal depth on the interaction between the two.

Dr. Tripathi then focused on his research work which was on the creation of copper nanoparticles under different conditions. His decision to choose copper was due to its low cost, high electrical and thermal conductivity and its anti-bacterial properties which make it useful for a wide variety of practical applications. He discussed the effect of the different solvents he used for his experiments (ethyl glycol, distilled water and ethanol) at different conditions (change in laser pulse timings, change in laser power etc.). The spectral properties of the nanoparticles was done by using Raman spectral analysis. He also talked about the methods of creation of hollow nanoparticles and some of his ideas regarding future work in that direction.

Unfortunately due to time constraints, Dr. Tripathi had to cut his excellent presentation short. There was a short Q & A session afterwards where Dr. Tripathi gave more detail in answer to the questions from the faculty and students. The session was brought to a close with a brief review by Mr. Mayukh Mazumdar and concluded by a Vote of Thanks by Dr. Prajwal Chettri who thanked the College administration, the members of the IQAC, the Dean of Sciences and the tech team lead by Ms. Yadika Prased for all their help.

Photos

Link to the entire presentation: https://drive.google.com/file/d/1vbNgqSdfEjV6ESraZglKfi07iBxepFCi/view


Laser Ablation Synthesis of Nanoparticles
Ajay Tripathi
Sikkim University
Ajay Tripathi is presenting
Webinar
Siliguri, West Bengal, India
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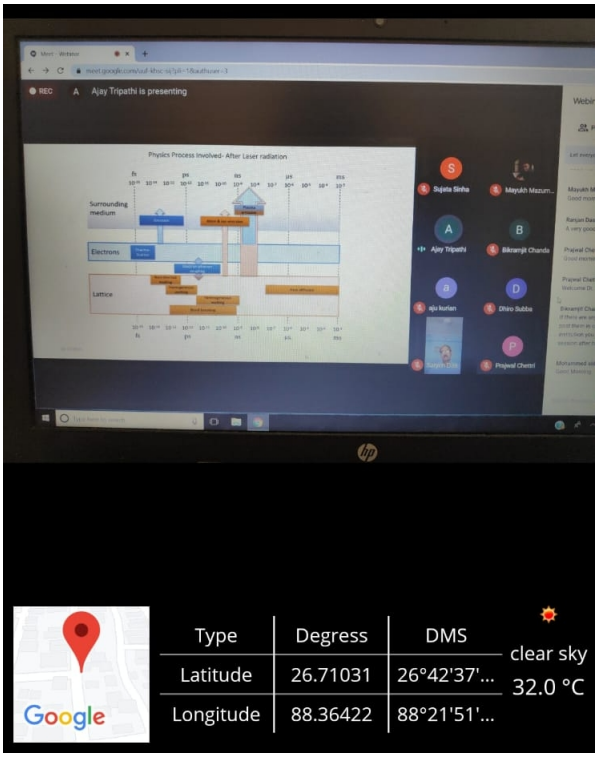
Ajay Tripathi is presenting
Physics Process involved- After Laser radiation
Surrounding medium
Electrons
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Longitude
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88°21'51'...
clear sky
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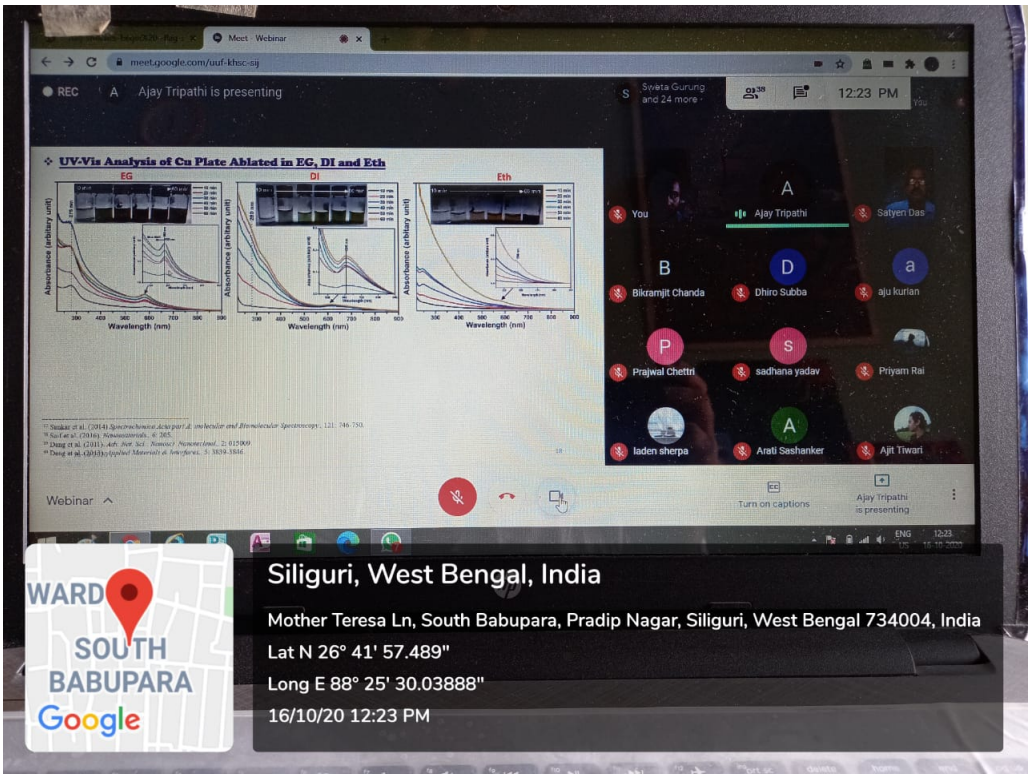
Meet - Webinar
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Ajay Tripathi is presenting
Sweta Gurung and 24 more
12:23 PM
UV-Vis Analysis of Cu Plate Ablated in EG, DI and Eth
EG
DI
Eth
Absorbance (arbitrary unit)
Wavelength (nm)
You
Ajay Tripathi
Satyen Das
Bikramjit Chanda
Dhiro Subba
aju kurian
Prajwal Chettri
sadhana yadav
Priyam Rai
laden sherpa
Arati Sashanker
Ajit Tiwari
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Ajay Tripathi is presenting
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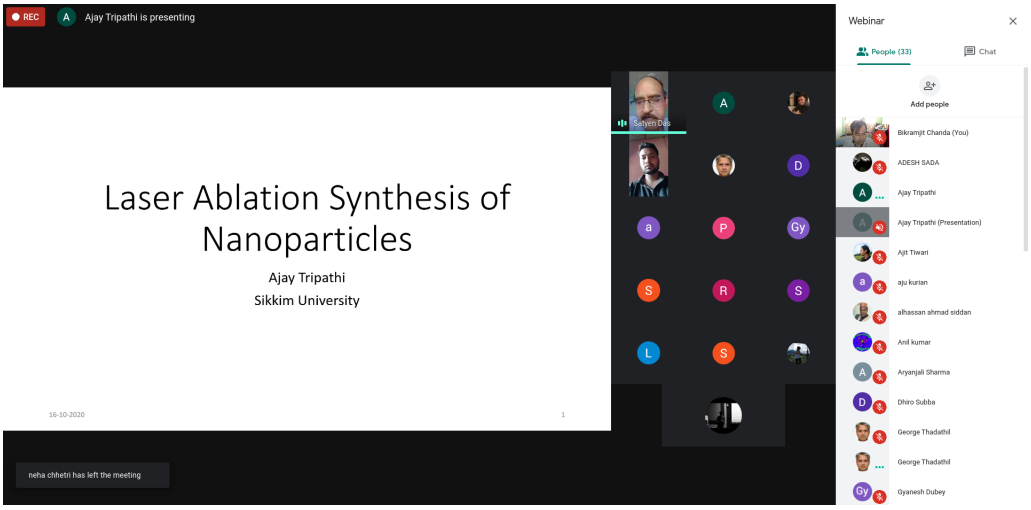
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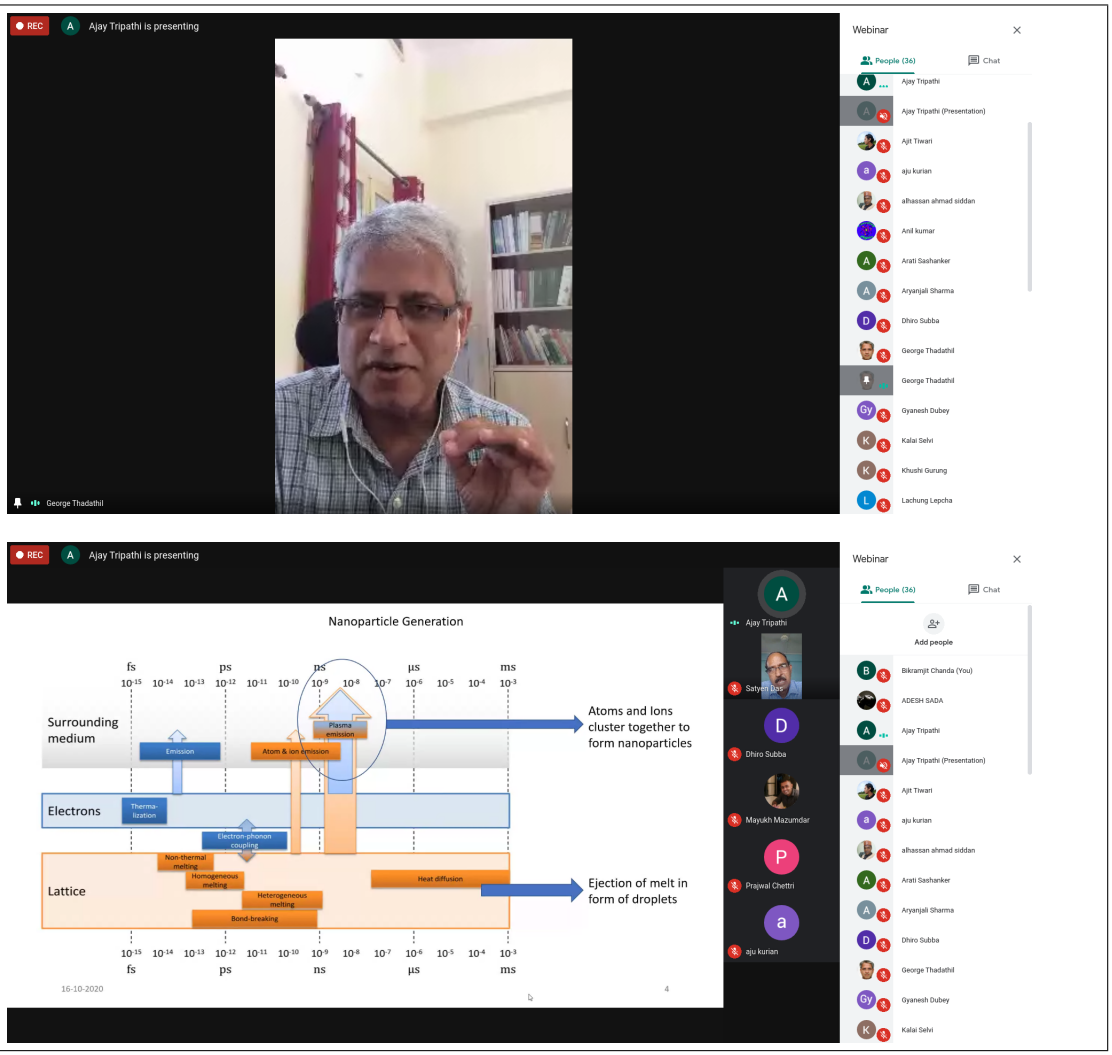
Ajay Tripathi is presenting
Laser Ablation Synthesis of Nanoparticles
Ajay Tripathi
Sikkim University
16-10-2020
1
neha chhetri has left the meeting
Webinar
People (33)
Chat
Add people
Bikramjit Chanda (You)
ADESH SADA
Ajay Tripathi
Ajay Tripathi (Presentation)
Ajit Tiwari
aju kurian
alhassan ahmad siddan
Anil kumar
Aryanjali Sharma
Dhiro Subba
George Thadathil
George Thadathil
Gyanesh Dubey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George Thadathil
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alhassan ahmad siddan
Anil kumar
Arati Sashanker
Aryanjali Sharma
Dhiro Subba
George Thadathil
Gyanesh Dubey
Kalai Selvi
Khushi Gurung
Lachung Lepcha
Nanoparticle Generation
fs
ps
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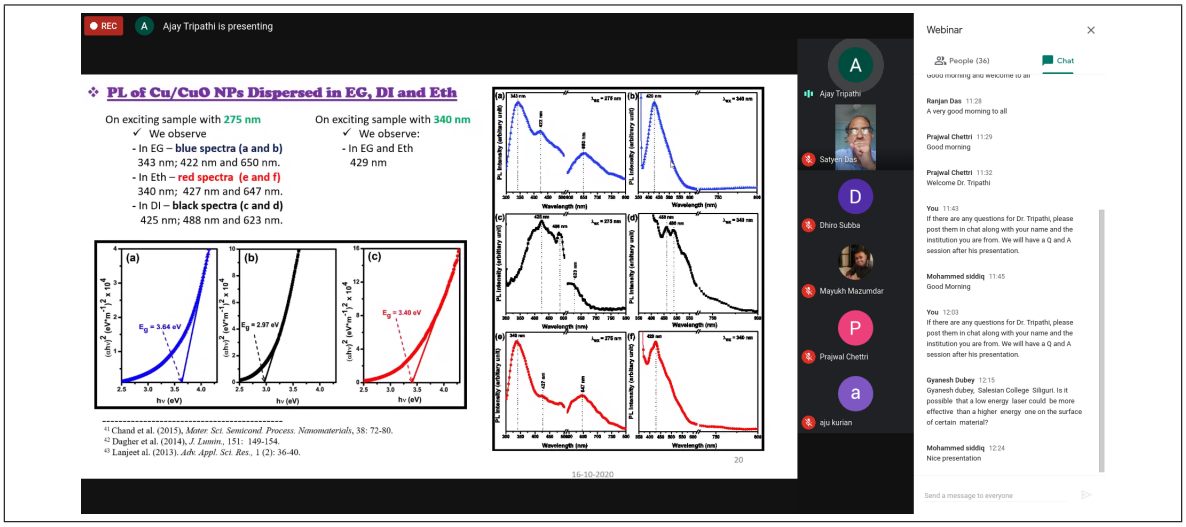
µs
ms
Surrounding medium
Emission
Plasma emission
Atom & ion emission
Atoms and Ions cluster together to form nanoparticles
Electrons
Therma-lization
Electron-phonon coupling
Lattice
Non-thermal melting
Homogeneous melting
Heterogeneous melting
Bond-breaking
Heat diffusion
Ejection of melt in form of droplets
16-10-2020
4
Satyen Das
Mayukh Mazumdar
Prajwal Chettri
Add people
Bikramjit Chanda (You)
ADESH SADA


REC
Ajay Tripathi is presenting
PL of Cu/CuO NPs Dispersed in EG, DI and Eth
On exciting sample with 275 nm
✓ We observe
- In EG – blue spectra (a and b)
343 nm; 422 nm and 650 nm.
- In Eth – red spectra (e and f)
340 nm; 427 nm and 647 nm.
- In DI – black spectra (c and d)
425 nm; 488 nm and 623 nm.
On exciting sample with 340 nm
✓ We observe:
- In EG and Eth
429 nm
(a)
(b)
(c)
E_g = 3.64 eV
E_g = 2.97 eV
E_g = 3.40 eV
hν (eV)
Wavelength (nm)
41 Chand et al. (2015), Mater. Sci. Semicond. Process. Nanomaterials, 38: 72-80.
42 Dagher et al. (2014), J. Lumin., 151: 149-154.
43 Lanjeet al. (2013). Adv. Appl. Sci. Res., 1 (2): 36-40.
20
16-10-2020
Ajay Tripathi
Satyen Das
Dhiro Subba
Mayukh Mazumdar
Prajwal Chettri
aju kurian
Webinar
People (36)
Chat
Ranjan Das 11:28
A very good morning to all
Prajwal Chettri 11:29
Good morning
Prajwal Chettri 11:32
Welcome Dr. Tripathi
You 11:43
If there are any questions for Dr. Tripathi, please post them in chat along with your name and the institution you are from. We will have a Q and A session after his presentation.
Mohammed siddiq 11:45
Good Morning
You 12:03
If there are any questions for Dr. Tripathi, please post them in chat along with your name and the institution you are from. We will have a Q and A session after his presentation.
Gyanesh Dubey 12:15
Gyanesh dubey, Salesian College Siliguri. Is it possible that a low energy laser could be more effective than a higher energy one on the surface of certain material?
Mohammed siddiq 12:24
Nice presentation
Send a message to everyone

Salesian College Siliguri Campus
Department of Physics

Webinar Titled "Taming the Universe in the Laboratory using Nuclear Physics"

Date: 18.09.2020 **Time:** 11.30AM
Platform: Google Meet

Links: https://forms.gle/4XWtH5nqyUxEVW3C6 (registration)
https://meet.google.com/hzo-jbas-ger (link to the webinar)

Total Registrations: 118 (*including participants from Bangladesh, Philippines and Nigeria*)

Abstract:

(in words of the resource person) "From where and how life begins on earth? Where do the elements that are necessary for our lives come from? How the properties of tiny objects like nuclei around us have led to the creation of the universe? These questions can be unraveled by looking into the nucleus and how their properties change when extreme conditions are reached. In this presentation, I will briefly discuss some of the recent trends in nuclear physics to understand the universe. "

Resource Person:

Dr. Soumya Bagchi, Assistant Professor (IIT-ISM Dhanbad)

About the Resource Person:

Dr. Bagchi did his B.Sc. in Physics (Hons.) from Siliguri College and then went to IIT Roorke to complete his Masters in Physics. He did his Ph.D from the prestigious Centre for Advanced Radiation Technology in the University of Groningen, the Netherlands. He has also held a postdoctoral position in the GSI Helmholtz Centre for Heavy Ion Research, Germany before taking up his current position in the Indian School of Mines (IIT-D), Dhanbad. His works have been published in many reputed journals like The European Physical Journal A, Physical Review Letters, Physics Letters B, etc. His areas of interests are ***Collective Models in Nuclei*** and ***Matter and Charge Radii in Exotic Nuclei.***

Summary of the Webinar:

The webinar began with the welcome address from Dr.S.C.Das, HoD (Physics) followed by short speeches from Fr. (Prof.) George Thadathil, Principal and Chief Patron and Mr.Dhirodatta Subba, Dean (Sciences). Mr. Bikramjit Chandra, Asst.Prof. (Physics) was the host of the event.

The speaker (Dr. Bagchi) gave a wonderful presentation, starting with the basics of nuclear and particle physics and slowly entered into more complex things but in a very lucid manner. The target audience being mainly graduate students and also a multidisciplinary one, the speaker refrained from using complicated technical and mathematical approaches whenever possible, thus making the topic understandable to all. Many of his recent path-breaking works were also presented like **Change in Magic Numbers** and discovery of new magic number at N=14. He explained many topics like exotic species, nucleosynthesis processes, Pygmy and Giant Resonances is a very lucid manner and how this all concepts can be utilised to study the chemical ingredients that are present, otherwise, outside Earth. The presentation was a good source of motivation for the young minds as the speaker

shared glimpses of the future particle accelerator centre FAIR at GSI Helmhotlz Centre for Heavy Ion Research, Darmstadt, Germany. The presentation ended with some important links for internships for graduate students at the GSI.

After the presentation Ms. Sujata Sinha, Asst.Prof. (Physics) hosted the Questions and Answers (QnA) session and the speaker answered questions from the audience who typed it on the chatbox or spoke for themselves. Then Dr.Prajwal Chettri, Asst.Prof. (Physics) gave the thoughts on the talk, before the webinar was concluded by the vote of thanks from Mr. Mayukh Mazumdar, Asst.Prof. (Physics).

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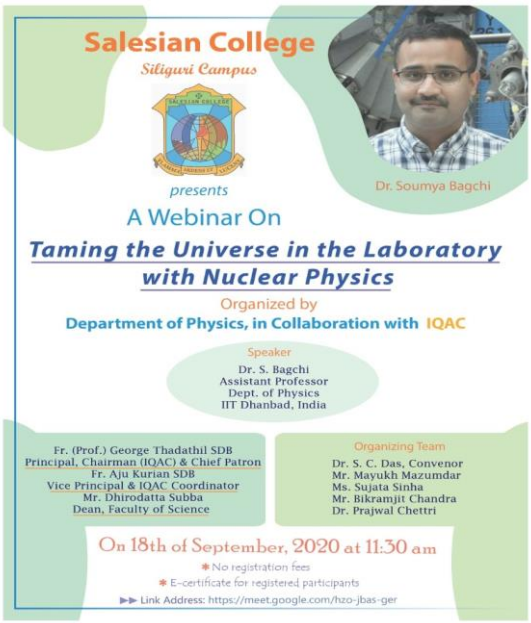
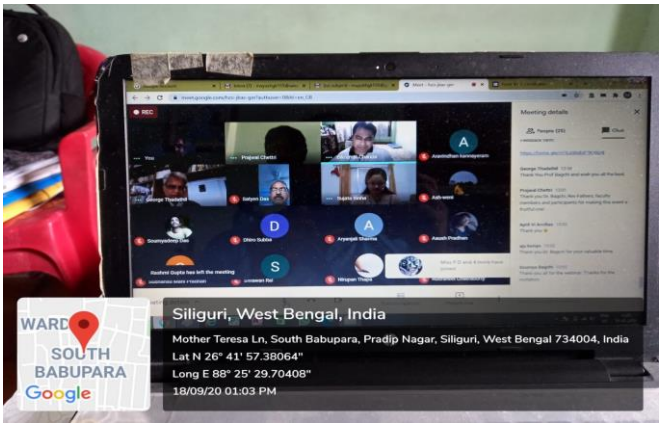
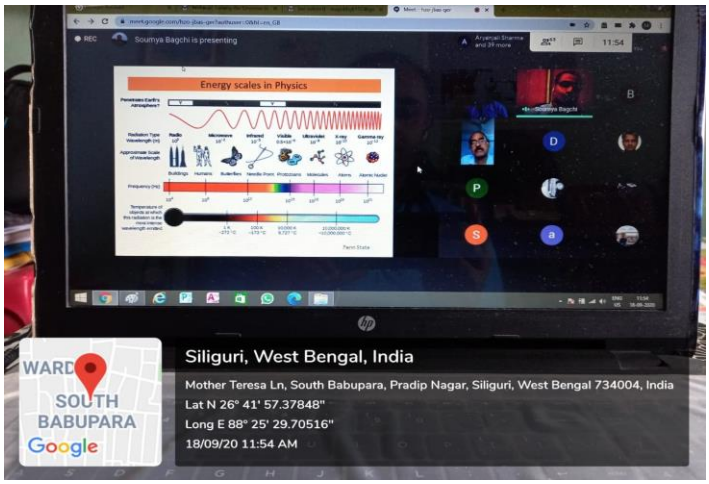


Glimpses of the Webinar:




Soumya Bagchi is presenting
Energy scales in Physics
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PAN: AAACY9083C

Yaksha Holiday Home Pvt. Ltd.

Timothy Complex, Gandhinagar, Siliguri – 734001, West Bengal, India
Contact No: +91 353 2540208; +91 9749670266; email: info@yakshaholiday.com

Date: 12 January, 2022

TO WHOM IT MAY CONCERN

This is to certify that Mr. **Saddam Hussain** has worked as an Intern in Yaksha Holiday Home Pvt. Ltd, from 24 November 2021 to 28 December 2021.

He has done a good job during his tenure in our organization. We found him to be hardworking and sincere in all his duties.

We thank him for his contribution and wish him success in his future endeavours.

Snom Dikit Panlook
Manager
Yaksha Holiday Home, Siliguri

CIN: U74999WB2017PTC221861
GST No: 19AAACY9083C1Z2

PAN: AAACY9083C

Yaksha Holiday Home Pvt. Ltd.

Timothy Complex, Gandhinagar, Siliguri – 734001, West Bengal, India
Contact No: +91 353 2540208; +91 9749670266; email: info@yakshaholiday.com

Date: 12 January, 2022

TO WHOM IT MAY CONCERN

This is to certify that Mr. Anuj Biswakarma has worked as an Intern in Yaksha Holiday Home Pvt. Ltd. from 24 November 2021 to 28 December 2021.

He has done a great job during his tenure in our organization.

We found him to have capacity for applying knowledge to his work situation. He has friendly personality, energetic, enthusiastic and has been hardworking and sincere in all his duties.

He has been willing to take on additional responsibility beyond the call of duty.

We thank him for his contribution and wish him success in his future endeavours.

Snom Dikit Panlook
Manager
Yaksha Holiday Home, Siliguri

CIN: U74999WB2017PTC221861
GST No: 19AAACY9083C1Z2

PAN: AAACY9083C

Yaksha Holiday Home Pvt. Ltd.

Timothy Complex, Gandhinagar, Siliguri – 734001, West Bengal, India
Contact No: +91 353 2540208; +91 9749670266; email: info@yakshaholiday.com

Date: 12 January, 2022

TO WHOM IT MAY CONCERN

This is to certify that Mr. Debendra Rai has worked as an Intern in Yaksha Holiday Home Pvt. Ltd. from 24 November 2021 to 28 December 2021.

He has done a good job during his tenure in our organization.

He has good communication skills with friendly personality. He is talented, enthusiastic and has been hardworking and sincere in all his duties.

We thank him for his contribution and wish him success in his future endeavours.

Snom Dikit Panlook
Manager
Yaksha Holiday Home, Siliguri

PAN: AAACY9083C

CIN: U74999WB2017PTC221861
GST No: 19AAACY9083C1Z2

Yaksha Holiday Home Pvt. Ltd.

Timothy Complex, Gandhinagar, Siliguri – 734001, West Bengal, India
Contact No: +91 353 2540208; +91 9749670266; email: info@yakshaholiday.com

Date: 12 January, 2022

TO WHOM IT MAY CONCERN

This is to certify that Mr. Ullas Rai has worked as an Intern in Yaksha Holiday Home Pvt. Ltd. from 24 November 2021 to 28 December 2021.

He has done a great job during his tenure in our organization.

We found him to have capacity for applying knowledge to his work situation. He has friendly personality, energetic, enthusiastic and has been hardworking and sincere in all his duties.

He has been willing to take on additional responsibility beyond the call of duty.

We thank him for his contribution and wish him success in his future endeavours.

Shom Dikit Panlook
Manager
Yaksha Holiday Home, Siliguri

Salesian College, Sonada

A Don Bosco Institution
NAAC Accredited A Grade (3rd Cycle)
& twice UGC Certified College with Potential for Excellence (CPE)

Event & Activities:

1	Title of the Event:	Students Exchange Program
2	Date:	March 2021- June 2021
3	Time:	10:30 am
4	Mode / Venue :	Online
5	Link:	N/A
6	Total Number of Days:	4 Months
7	Organized by Dept/Cell/Club/Committee:	Mass Communication and Journalism, Sonada
8	In Collaboration with:	Dept of Mass Communication, Siliguri Campus
9	Event Organizers:	Dept. of Mass Communication, Sonada
10	Faculty Incharge of the Event:	Shruti Chettri
11	Total Number of Participants:	3
12	Total Number of Faculty Involved:	2
13	Faculty Incharge of Report & Upload in ERP:	Shikshita Dewan

The Faculty incharge of Report must submit the detailed reports, documents and geo tagged Photos of the events to the IQAC office within 2 days of the completion of the event and upload the reports in the College ERP.

REPORT

Students Exchange Program

Department of Mass Communication and Journalism
Salesian College, Sonada

The department of Mass Communication and Journalism, Sonada organized a student exchange program for the students of 6th Semester, from the month of March 2021 to June2021.

Three students from Mass Communication dept, Sonada were sent to Siliguri campus to attend the classes online for their final semester. The students also completed their research paper (dissertation) under the guidance of the faculty members from the Mass Communication dept, Siliguri Campus.

Name of the students who attended the program:

1. Ashwin Pradhan
2. Deep Wang Lama
3. Palzor Lama

Shikshita Dewan
Report by:

Name: Shikshita Dewan
Designation: Asst. Professor
Date: 29th June '2021
Salesian College, Sonada

Attendance:

No.	Name:	Department
1	Ashwin Pradhan	
2	Palzor Lama	
3	Deep Wang Lama	
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Verified & Approved By:

1. Shruti Chettri **(HoD, Mass Com)**

Signature

2. Mr. Prashant Rai **(Event Coordinator)**

Signature

3. Dr. Terence Mukhia **(IQAC Coordinator)**

Signature

Internal Quality Assurance Cell
Salesian College Sonada
Darjeeling, W.B.- 734209

4. Mr. Dhiren Newar **(IQAC Secretary)**

Signature

Secretary (SCS)
Internal Quality Assurance Cell
Salesian College Sonada
Darjeeling, W.B.- 734209

5. Br. Augustin Joseph **(Vice Principal)**

Br. Augustin Joseph sdb
Vice Principal
VICE PRINCIPAL
Salesian College
P.O. Sonada, Dt. Darjeeling
W. Bengal - 734209

Signature