



IEM - AIP

Society of Physics Students' Chapter

Advisor : Dr. Koyel Ganguly

Co- Advisor : Prof. Arnab Basu

Brief report on list of events organized under IEM - AIP SPS Chapter



(2019-2020)

International Conference on Condensed Matter Physics

Date: 14.11.2019- 16.11.2019

**Faculty Coordinator - Prof. Soumyadipta Pal,
Prof. Koyel Ganguly, Prof. Arnab Basu**

IEMPHYS - 19
International Conference
on
Condensed Matter Physics
organized by
Department of Basic Science and Humanities
in association with
IEM - Society of Physics Students Chapter (AIP)
Institute of Engineering & Management, Kolkata
14th – 16th November, 2019

Topics: Superconductivity, Semiconductor Devices, 2D Materials, Nanomaterials & Nanotechnology, Quantum Information Science and Quantum Computation, Low Dimensional Physics, Optical Spectroscopy of Condensed Matter System, Computational Materials Physics, Nano-electronic and Optoelectronic Devices, Magnetism, Graphene, Carbon and Carbon-based Materials, Polymer Physics, Composite Materials, Soft Condensed Matter Physics, Spintronics.

<ul style="list-style-type: none"> <input type="checkbox"/> Best Paper Presentation Award per Session <input type="checkbox"/> Best Two Poster Presentation Award <input type="checkbox"/> Publication of Selected Papers in International Journal of Innovative Research in Physics (IJIRP) <input type="checkbox"/> Workshop on "Structural analysis: X-ray diffraction and Rietveld refinement" by Sanjay Singh (IIT-BHU) 	Highlights
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Invited Speakers	Organizers
<ul style="list-style-type: none"> > Neelesh K. Das (IISc Bangalore) > Lee Hweidong, Hanyang (PU) University > S. B. Mahto (Tribhuvan University) > SM Yusuf (IMSC) > Subhasree Mishra (TIFR) > A. Rajalakshmi (ICPR) > Bhawjit Kaur (HCU) > A. M. El-Ghayoury (BIT Soudbury) > Debasis Chakrabarti (CTU) > Arijit Banerjee (NINCCB) > Chandan Halder (JNU) > Ananta Bhattacharya (BIT Soudbury) > Gabya Karmakar Chatterjee (BIT) > Indira Karmakar (BIT Guwahati) > Indira Bhattacharya (CTU) 	<p style="text-align: center;">Chief Patron</p> <p>Sanjay Chakrabarti, President, IEM Kolkata Sanjay Chakrabarti, Director, IEM Kolkata</p> <p style="text-align: center;">Patron</p> <p>Amit Kumar Nayak, Principal, IEM Kolkata Arun Kumar Bagchi, Dean of Engg., IEM Kolkata</p> <p style="text-align: center;">Chair: Organizing Committee</p> <p>Prabir Kumar Das, IEM Kolkata</p> <p style="text-align: center;">Chair: Technical Committee</p> <p>Saswata Barman, IEM Kolkata</p> <p style="text-align: center;">Convener</p> <p>Soumyadipta Pal, IEM Kolkata Koyel Ganguly, IEM Kolkata</p> <p style="text-align: center;">Co-Convenor</p> <p>Amab Basu, IEM Kolkata Sankha Paul, IEM Kolkata</p> <p style="text-align: center;">Coordinator</p> <p>Triparna Datta, IEM Kolkata Abhinav Ganguly, IEM Kolkata Anik Mondal, IEM Kolkata</p>

Important Dates	Registration Fee																																							
<p>Abstract submission : Open</p> <p>Full Paper submission : Open</p> <p>Notification of Acceptance of Full Paper : 20/09/19</p> <p>Registration begins : 23/09/19</p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Category</th> <th>Early Bird (upto 30.09.2019)</th> <th>Late Registration (01.10.19 - 04.10.2019)</th> </tr> </thead> <tbody> <tr> <td colspan="3">Indian Participants</td> </tr> <tr> <td colspan="3">Paper / Poster Presentation</td> </tr> <tr> <td>Faculty / Retiree / Post Doc</td> <td>Rs. 8000.00</td> <td>Rs. 10000.00</td> </tr> <tr> <td>PhD Students</td> <td>Rs. 4000.00</td> <td>Rs. 5000.00</td> </tr> <tr> <td>PG / F.G. Students</td> <td>Rs. 1000.00</td> <td>Rs. 2000.00</td> </tr> <tr> <td colspan="3">Participation only</td> </tr> <tr> <td>Faculty / Retiree / Post Doc</td> <td>Rs. 3000.00</td> <td>Rs. 4000.00</td> </tr> <tr> <td>PhD / PG / F.G. Students</td> <td>Rs. 2000.00</td> <td>Rs. 3000.00</td> </tr> <tr> <td>Accompanying Person</td> <td>Rs. 500.00</td> <td>Rs. 1000.00</td> </tr> <tr> <td colspan="3">Foreign Participants</td> </tr> <tr> <td>Single Presentation</td> <td>\$50.00</td> <td>\$100.00</td> </tr> <tr> <td>Presentation at Venue</td> <td>\$100.00</td> <td>\$200.00</td> </tr> </tbody> </table>	Category	Early Bird (upto 30.09.2019)	Late Registration (01.10.19 - 04.10.2019)	Indian Participants			Paper / Poster Presentation			Faculty / Retiree / Post Doc	Rs. 8000.00	Rs. 10000.00	PhD Students	Rs. 4000.00	Rs. 5000.00	PG / F.G. Students	Rs. 1000.00	Rs. 2000.00	Participation only			Faculty / Retiree / Post Doc	Rs. 3000.00	Rs. 4000.00	PhD / PG / F.G. Students	Rs. 2000.00	Rs. 3000.00	Accompanying Person	Rs. 500.00	Rs. 1000.00	Foreign Participants			Single Presentation	\$50.00	\$100.00	Presentation at Venue	\$100.00	\$200.00
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Website : <http://iemphys-19.thesmartcommunity.org/>

Contacts	Venue
<p>Soumyadipta Pal : +91 9123740980</p> <p>Koyel Ganguly : +91 7003965799</p> <p>Amab Basu : +91 7278480597</p>	<p style="text-align: center;">Venue Institute of Engineering & Management Kolkata, West Bengal - 700091</p> <p style="text-align: center; background-color: #d0e0ff; padding: 5px;">E-mail : iemphys@iemcal.com</p>

(2019-2020)

2nd Online International Physics Olympiad : IEMPHYIAD

Date : 14.09.2019- 15.09.2019

Faculty Coordinator:

Prof. Soumyadipta Pal, Prof. Arnab Basu

IEM
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Good Education, Good Jobs

SMART
SOCIETY FOR MAKERS, ARTISTS, RESEARCHERS AND TECHNOLOGISTS
(SMART) USA ORGANIZES

SPS

3rd ONLINE INTERNATIONAL PHYSICS OLYMPIAD

Absolutely Free of Cost

Total Prize Money of \$ 300

From 14.09.2019 to 9 PM (IST) 15.09.2019

Rules & Regulations may be found in the Registration Link

e-certificates for top 100 candidates

Sponsored by Institute of Engineering & Management, Kolkata, India

In Collaboration with IEM - AIP Society of Physics Students (SPS) Chapter

Registration link : <https://forms.gle/2YDPs9YLZdfuNWLr6>

Contact us at : iemphyiad2020@gmail.com

Coordinated by Prof. Soumyadipta Pal and Prof. Arnab Basu, Dept. of Basic Science and Humanities, IEM Kolkata

(2020-2021)

Online Summer School on “Physics of Life”

Date: 15.06.2020 - 03.08.2020 (Each Monday) ::

Faculty Coordinator - Prof. Arnab Basu

Chapter Members have attended the online summer school on “Physics of Life” organized by Princeton University. Certificate obtained by one of the members has been showcased here.



Center for the Physics
of Biological Function

The Physics of Life Summer School 2020 Completion Certificate

This document certifies that Sanhita Koley attended 8 lectures of the Physics of Life Summer School which met weekly online from June 15 to August 3, 2020. This school was run by the Center for the Physics of Biological Function (An NSF-funded Physics Frontier Center) and covered a wide range of topics including, single-molecule biophysics, collective phenomena, neuroscience, and machine learning. Students were assigned relevant readings for each week and attended a 1-hour discussion session led by PhD students and postdoctoral fellows and a 1-hour lecture from one the Center faculty.

(2020-2021)

International Students' Conference on Current Advancement in Science and Technology (SPECTRUM 2020)

Date : 9th to 11th Oct'2020

Faculty Coordinators: Prof. Tina De, Prof. Arnab Basu, Prof. Dibakar Roy Choudhury



Spectrum, 2020
3rd International Students' Conference
on
Current Advancement in Science and Technology
organised by
Department of Basic Science and Humanities
Institute of Engineering & Management, Kolkata, India
in collaboration with
Society of Physics Students (SPS) Chapter
American Institute of Physics

THEME of CONFERENCE
Papers related to Science, Engineering & Technology are welcome.

DATE of CONFERENCE - 9th to 11th October, 2020

HIGHLIGHTS
Oral and Poster Presentations, Tutorial Session, Quiz Competition,
Conference Proceedings with ISSN/ISBN Number, Awards for Different Categories,
**Selected Papers will be published in SCOPUS indexed journal after review
(name will be notified soon)

ORGANISING COMMITTEE		KEY DEADLINES	
PATRONS Satyajit Chakraborty, President IEM Kolkata Satyajit Chakraborty, Director IEM Kolkata A K Nayak, Principal IEM Kolkata	CONVENORS Tina De +91-9432191229 Arnab Basu +91-7278480957 Dibakar Roy Choudhury +91-9804958460	Deadline for abstract submission Notification of abstract acceptance Deadline for registration	05.09.2020 10.09.2020 25.09.2020
CONFERENCE CHAIR Arun Kr. Bar, Dean Engineering IEM Kolkata CO-CHAIR Prabir Kumar Das, HOD-BSH IEM Kolkata	CHIEF COORDINATOR Koyel Ganguly	FEES (fees is for one paper per paper maximum 3 authors) Post Doc/ Faculty/ Corporate: 3200/- INR PhD Scholar: 2800/- INR Student (B. Sc, B. Tech, M. Sc, M. Tech): 2400/- INR Foreign Participants: \$100 Quiz Competition(per participant): 100/- INR Attendee: 500/- INR	

GUEST SPEAKERS

 Wim Vanhovebake Surrey Business School	 Vivek Polshettiwar TATA Institute of Fundamental Research	 Valentina Emilia Balas University of Arad	 Tom Webster Northeastern University	 Ronnie Figueiredo Universidade Europeia	 Joaquim Jorge School of Engineering of the University of Lisboa	 Albert Nasibulin Skolkovo Institute of Science and Technology
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Email- spectrum@iemcal.com Website- iem-spectrum.org

(2020-2021)

EgniTech : Online Tech Event Series for Engineers Day Celebration

Date : 15.10.2020

**Faculty Coordinators: Prof. Prabir Kumar Das,
Prof. Dibakar Roy Choudhury**



The poster is for Engineers Day Celebrations, organized by the Department of Basic Science and Humanities at IEM (Institute of Engineering & Management). It features a central portrait of Sir M. Visvesvaraya. Surrounding the portrait are six event boxes: Design Arena (innovative graphic designing competition), App Junkie (online app and web development competition), Vivid (online animated video making competition), TECH x (innovative project making competition), Infathon (technical article writing competition), and a SMART logo. At the bottom, it lists faculty coordinators, contact numbers, a registration link, and the last date to register.

Engineers Day Celebrations
DEPARTMENT OF BASIC SCIENCE AND HUMANITIES
Presents
EngiTech
An Online Tech Event Series

SMART

IEM
INSTITUTE OF ENGINEERING & MANAGEMENT
Bardhaman, West Bengal

Design Arena
An online innovative graphic designing competition

App Junkie
An online app and web development competition

Vivid
An online animated video making competition

TECH x
An Innovative project making competition

Infathon
A technical article writing competition

Sir M. Visvesvaraya

Faculty Coordinators
• Prof Prabir Kumar Das
• Prof Dibakar Roy Choudhury

Register here !
<https://bit.ly/2DZSOSx>

Last Date to Register
30th September 2020

+91 98748 57308
+91 98049 58460
+91 96743 78206

(2020-2021)

3rd Online International Physics Olympiad : IEMPHYIAD

Date : 06.12.2020

Faculty Coordinator:

Prof. Soumyadipta Pal, Prof. Arnab Basu

IEM
INSTITUTE OF ENGINEERING & MANAGEMENT
Good Education, Good Jobs

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SOCIETY FOR MAKERS, ARTISTS, RESEARCHERS AND TECHNOLOGISTS
(SMART) USA ORGANIZES

3rd ONLINE INTERNATIONAL PHYSICS OLYMPIAD

Absolutely Free of Cost

**From 9 AM to 9 PM (IST) on
06.12.2020**

**Rules & Regulations may be
found in the Registration Link**

**Total Prize
Money of \$ 300**

SemPhyIad

e-certificates for top 100 candidates

Sponsored by Institute of Engineering & Management, Kolkata, India

In Collaboration with IEM - AIP Society of Physics Students (SPS) Chapter

Registration link : <https://forms.gle/rQdLrJTJaNwK8s4p7>

Contact us at : iemphyiad2020@gmail.com

Coordinated by Prof. Soumyadipta Pal and Prof. Arnab Basu, Dept. of Basic Science and Humanities, IEM Kolkata

(2020-2021)

3rd International Conference on Current Trends in Materials Science and Engineering (CTMSE 2021)

Date : 11th -13th March, 2021

Faculty Coordinator:

Prof. Saswati Barman, Prof. Ranabir Banik

3rd International Conference on Current Trends in Materials Science and Engineering 2021



CTMSE 2021

11 - 13 March 2021

Organized by
Department of Basic Science and Humanities
Institute of Engineering & Management

Highlights

- ❖ Plenary and Keynote Lectures
- ❖ Publication in International Open Access Journal
- ❖ Abstract Booklet
- ❖ Contributed Oral and Poster Sessions
- ❖ Best Presentation Award

Early Bird
Student
Registration
fee
Rs. 1500

Key Dates

Abstract Submission Deadline: 07.02.2021
Early Bird Registration: 08.02.2021
Last Date of Registration: 15.02.2021

THEMES

- Computational Materials
- Smart Materials
- Semiconductor Devices
- Magnetism and Spintronics
- Engineering Application of Materials
- Graphene and other 2D materials
- Multifunctional Materials
- Carbon Nanostructure and Devices
- Nanomaterials and Nanotechnology
- Polymers
- Composite and Ceramic Materials
- Nanomedicine
- Environmental and Green Materials

SPEAKERS



V. Ottavio, INSP, University of Tokyo and RIKEN, Japan



Oscar Iglesias, University of Barcelona, Spain



Del Anderson, Durham University, UK



Steven Heppelmann, University of Exeter, UK



Masdar M. Debnakhi, TIFR



Montserrat Rivas, University of Oviedo, Spain



Arashida Haldar, IIT Hyderabad



Shadi Barzouj, Loughborough University, UK



Marij Krawczyk, Adam Mickiewicz University, Poznan



Anindya Deb, IISc



Trameri Saha Dasgupta, S. N. Bose National Centre for Basic Sciences



Anjan Barman, S. N. Bose National Centre for Basic Sciences



Sudipta Dutta, IISER Tirupati



P. K. Madali, IIT Delhi



Tapati Sarkar, Uppsala University, Sweden



Sonam C. Roy, IIT Madras



Debraj Choudhary, IIT Kharagpur

www.ctmse.org E-mail: ctmse@iemcal.com Contact: Saswati Barman +919830780888, Ranabir Banik +918100953738

(2020-2021)

International Conference on Advanced Physics (IEMPHYS - 21)

Date : 1st - 4th April, 2021

Faculty Coordinator:
Prof. Koyel Ganguly, Prof. Soumyadipta Pal,
Prof. Triparna Datta



The poster for IEMPHYS - 21 features a blue and white geometric background. At the top, logos for IEM, UEM, SMART, AIP, and SPS are displayed. The title 'INTERNATIONAL CONFERENCE ON ADVANCED PHYSICS IEMPHYS - 21' is prominently shown. Below the title, the organizing institutions are listed: Department of Basic Science and Humanities, Institute of Engineering & Management, Kolkata, India, in collaboration with Society of Physics Students (SPS) IEM Chapter II, American Institute of Physics, and SMART Society, USA. The dates 'Date- 01.04.2021 to 03.04.2021' are clearly marked. A large banner reads 'Abstract and Full Paper SUBMISSIONS ARE OPEN' and 'CALL FOR PAPERS'. The 'HIGHLIGHTS' section lists: IN VIRTUAL MODE, Oral and Poster Presentation, Conference Proceedings with ISSN/ISBN Number, and Awards for Different Categories. The 'TOPICS' section includes: Device modeling and simulation, Optical system and photonic devices, Solid state Physics, Astrophysics, Biophysics and application, Quantum information science, Nuclear Physics, Nano-science and Nano-technology, and High energy Physics. The 'FEES (Early Bird)' table shows rates for Post Doc/ Faculty/ Scientist, Students, Corporates, and Attendees in both INR and USD. The 'KEY DEADLINES' section specifies submission and registration deadlines. The 'ORGANISING COMMITTEE' lists the Chief Patrons, Patron, Conference Chair, and Conference Co-Chair. The 'GUEST SPEAKERS' section features portraits and names of ten international speakers. The bottom of the poster provides contact information: iemphys@iemcal.com and www.iemphys.org.

INTERNATIONAL CONFERENCE ON ADVANCED PHYSICS
IEMPHYS - 21
organised by
Department of Basic Science and Humanities
Institute of Engineering & Management, Kolkata, India
in collaboration with
Society of Physics Students (SPS) IEM Chapter II American Institute of Physics
and
SMART Society, USA

Date- 01.04.2021 to 03.04.2021
Abstract and Full Paper
SUBMISSIONS ARE OPEN
CALL FOR PAPERS

HIGHLIGHTS

- ➔ IN VIRTUAL MODE
- ➔ Oral and Poster Presentation
- ➔ Conference Proceedings with ISSN/ISBN Number
- ➔ Awards for Different Categories

TOPICS

- Device modeling and simulation
- Optical system and photonic devices
- Solid state Physics
- Astrophysics
- Biophysics and application
- Quantum information science
- Nuclear Physics
- Nano-science and Nano-technology
- High energy Physics

FEES (Early Bird)

	INR	INT- USD
Post Doc/ Faculty/ Scientist	1500/-	INT- \$100
Students	1000/-	INT- \$75
Corporates	12000/-	INT- \$200
Attendee	500/-	

KEY DEADLINES

	DATE
Abstract Submission	OPEN
Full Paper Submission	OPEN
Deadline for Early Bird registration	12.03.2021
Deadline for Late Bird registration	15.03.2021

ORGANISING COMMITTEE

CHIEF PATRONS
Satyajit Chakrabarti, President, IEM Kolkata
Satyajit Chakrabarti, Director, IEM Kolkata

PATRON
Arun Kr. Bar, Dean Engineering, IEM Kolkata

CONFERENCE CHAIR
Prabir Kumar Das, HOD, BSH, IEM Kolkata

CONFERENCE CO-CHAIR
Saswati Barman

CONVENORS
Koyel Ganguly: +919830196528
Soumyadipta Pal: +918017244056
Triparna Datta: +919830956538

GUEST SPEAKERS

NAME	INSTITUTION
Vitaly Vanchurin	University of Minnesota
Jorge Pullin	Louisiana State University
Montserrat Rivas	University of Oviedo
Stuart Victor Springham	NTU, Singapore
Partha Chowdhury	University of Massachusetts
Shiraj Minwalla	TIFR, Mumbai
Subhankar Bedanta	NISER, Bhubaneswar
Badri Krishnan	Max Planck Institute for Gravitational Physics
Dibakar Roychowdhury	IIT Roorkee
Sankalpa Ghosh	IIT Delhi

CONTACT:
Email: iemphys@iemcal.com
Website: www.iemphys.org

(2020-2021)

World Environment day Celebration (Go Green)

Date : 05.06.201

Faculty Coordinator:
Prof. Dibakar Roy Choudhury,
Prof. Kakoli Dutta



The poster is for the World Environment Day Celebration, held on 5th June, 2021, at 4pm onwards. It is organized by the Institute of Engineering & Management (IEM), Department of Basic Science and Humanities. The theme is "Go Green" and the competition is an online wall magazine competition. The rules specify that virtual posters should be created in PDF format (A0 size) and include a short description. Prizes will be awarded to the top 3 teams, and certificates will be given to all participants. The registration link is <https://forms.gle/DMQnXjzK6pAvosUbA> and the programme link is <https://zoom.us/j/9233593577>. The poster features logos of various institutions at the top, including SD Society for Data Science, IEM Innovation Lab, IEM, and others. At the bottom, there is a graphic of a small green plant growing out of the ground.

World Environment Day Celebration
5th June, 2021 | 4pm onwards
Institute of Engineering & Management
Department of Basic Science and Humanities
presents
"Go Green"
An Online Wall Magazine Competition
Theme - Save the Environment

Rules:

- Virtual posters have two components: **a PDF poster** and **a short description**.
- Posters should be created in the same format as would be used on site and saved as a **PDF** (~84 x 120 cm~ A0).
Description: A **750-word** description of the poster is recommended.
- **Maximum 3 team members** can present their poster
- Total time of presentation is **10 minutes** and **2 minutes** for Q&A.
- Last Date of Submission - **3rd June, 2021**.

Prizes will be awarded to Top 3 teams
Certificates for all the participating students

Contact Us:
Prof. Dibakar Roychoudhury : +91 98049 58460
Prof. Tina De : +91 94321 91229
Prof. Kakoli Dutta : +91 94338 62778
Prof. Ruchira Mukherjee : +91 98303 36429

Registration Link:
<https://forms.gle/DMQnXjzK6pAvosUbA>

Programme Link:
<https://zoom.us/j/9233593577>