

SOPHIA GIRLS' COLLEGE (AUTONOMOUS), AJMER



DEPARTMENT OF PHYSICS

**International/National Seminars/ Conferences/
Workshops**

2021-22

2021-22

Two Days International Webinar on “Exploring the Properties of Materials at Nanoscale”



PATNA WOMEN'S COLLEGE **SOPHIA GIRLS' COLLEGE**

AUTONOMOUS AUTONOMOUS
PATNA UNIVERSITY

3rd Cycle NAAC Accredited at A Grade with CGPA 3.58/4 Re-Accredited 'A' Grade by NAAC(UGC)
'College with Potential for Excellence' (CPE) status accorded by UGC Affiliated to the Maharshi Dayanand Saraswati University, Ajmer

Two Day International Webinar
“Exploring the Properties of Materials at Nanoscale”

Organized by
Department of Physics, Patna Women's College(Autonomous)
In collaboration with
Department of Physics, Sophia Girls College(Autonomous),Ajmer

PATRONS

Registration through link
<https://forms.gle/PVTEAPyBYcTi8LobA>
Platform:- Zoom

9th – 10th
July 2021
11:00A.M.-
1:30P.M.

CONVENOR **JOINT CONVENOR** **ORGANISING SECRETARY** **ORGANISERS**

Our Team

Dr. Sister Maria Rashmi A.C. Dr. Sister Pearl
Dr. Aprajita Krishna Dr. Deepmala Dr. Amrita Dr. Kavita Verma Dr. Rohit Singh

RESOURCE PERSONS: DAY1



Prof. Dr. Himanshu Narayan

Professor and Former Head,
Department of Physics and Electronics,
National University of Lesotho, Roma



Prof. Dr. Anchal Srivastava

Professor,
Department of Physics,
Banaras Hindu University

“Nothing in life is to be feared, it is only to be understood. Now
is the time to understand more, so that we may fear less.”
— Marie Curie

RESOURCE PERSONS: DAY2



Prof. Dr. Babu Lal Ahuja

Professor, Department of Physics,
University College of Science,
Mohanlal Sukhadia University ,
Udaipur, Rajasthan



Prof. Prakash Chandra Agrawal

Principal and Professor of Physics,
Regional Institute of Education(N.C.E.R.T),
Bhubneshwar, Odisha



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*International Webinar on
"Exploring the Properties of Materials at Nanoscale"*

Organised by

*Department of Physics, Patna Women's College(Autonomous)
In collaboration with
Department of Physics, Sophia Girls College(Autonomous),Ajmer*

July 09th & July 10th, 2021

Day 1 – 09th July, 2021(Friday)

Opening Session: 11:00A.M. – 11:15A.M.

Moderator – Dr. Aparajita Krishna
Head, Dept. of Physics, Patna Women's College

1st Technical Session: 11:15A.M. – 12Noon

Resource Person: Prof. Dr. Himanshu Narayan
Professor and Former Head, National University of Lesotho, Roma

Topic: Wonder of Nano-Science & Nanotechnology: Wastewater
Treatment to Efficient Batteries

2nd Technical Session: 12:15P.M. –1:00P.M.

Resource Person: Prof. Dr. Anchal Srivastava
Professor, Banaras Hindu University

Topic: Journey from eye to electron microscope

Vote of Thanks: 1:15P.M. – 1:30P.M.

Dr. Amrita
Assistant Professor, Patna Women's College

Day 2 – 10th July, 2021(Saturday)

Opening Session: 11:00A.M. – 11:15A.M.

Moderator –

1st Technical Session: 11:15A.M. – 12Noon

Resource Person: Prof. Dr. Babu Lal Ahuja

Professor, University College of Science, Udaipur

Topic: Study of electronic response using inelastic scattering and DFT calculations

2nd Technical Session: 12:15P.M. –1:00P.M.

Resource Person: Prof. Prakash Chandra Agrawal

Principal and Professor of Physics, Regional Institute of Education (N.C.E.R.T), Bhubneshwar

Topic: Metallic Glasses to Bulk Metallic Glasses: Emerging Materials (Development, Structural Science and Technological Applications)

Vote of Thanks: 1:15P.M. – 1:30P.M.

- **Date:** 9th and 10th July 2021
- **Total Number of the Participants:** 289
- **Mode:** Online (Google Meet)
- **Learning Outcome:** To Provide a platform for Research Scholar and Teachers so that there is enhancement of their knowledge towards the field of Nanotechnology.
- **Report:**



Two Days International Webinar
on
**“Exploring the Properties of Materials at
Nanoscale”**



Organised by Department of Physics,
PATNA WOMEN'S COLLEGE
AUTONOMOUS
PATNA UNIVERSITY
3rdCycle NAAC Accredited at 'A' Grade with CGPA 3.58/4

&
Department of Physics,
SOPHIA GIRL'S COLLEGE, AJMER
AUTONOMOUS
NAAC Accredited at 'A' Grade

A two-day international webinar entitled “**Exploring the Properties of Materials at Nanoscale**” was co-organized by the Department of Physics, Patna Women’s College (autonomous) and Sophia Girls’ College (autonomous) on the 9th and 10th of July 2021. The webinar was sincerely patronised by **Dr Sister M. Rashmi A.C., Principal**, Patna Women’s College and **Dr Sister Pearl, Principal**, Sophia Girls’ College. **Dr Aprajita Krishna** and **Dr Deepmala** jointly convened the program. **Dr Amrita** was the organising secretary and Dr Kavita Verma and Dr

Rohit Singh were the organisers of the webinar. A total of ca. 289 participants registered for the program.

Following the prayer, the second day started with the technical session. It commenced with the **moderation** by **Dr Deepmala**, the **Joint Convenor**, where the first resource person of the session, **Prof. Dr Babu Lal Ahuja**, Professor, University College of Science, Mohanlal Sukhadia University, Udaipur, was formally introduced. The topic of his talk was “**Study of Electronic Response Using Inelastic Scattering and DFT Calculations**”. The presentation took the participants from the basics of the Compton Effect, through its quantum mechanical relevance to devising and utilization of Compton Scattering Technique. It further provided a glimpse into exploring the corroboration of experimental findings and theoretical calculations using Density Functional Theory.

Further, **Dr Sandhya**, **Head, Department of Botany, Sophia Girls’ College, Ajmer** introduced the attendees to the fourth and last resource person of the webinar, **Prof. Dr Prakash Chandra Agrawal**, Principal and Professor of Physics, Regional Institute of Education (N.C.E.R.T.), Bhubaneswar. The topic of his talk was “**Metallic Glasses to Bulk Metallic Glasses: Emerging Materials**”. In his talk, Prof. Agrawal talked about the basics and his research findings in the field of metallic glasses. His talk intrigued the participants with many of the interesting properties that metallic glasses exhibit. Moreover, he also showed various unusual properties of these materials and their applications in a plethora of fields.

The second and the last day of the two-day webinar concluded with a **valedictory speech** by **Dr Sister Pearl** on the relevance of these webinars in the current world scenario. The vote of thanks was addressed by **Dr Deepmala** with a positive impression of such a fruitful and productive webinar. The participants were thankful to the patrons, convenors and webinar organisers for giving them this platform to get acquainted with the current research activities being carried out across Indian and the globe.

Joint Convener

Dr. Deepmala

Associate Professor and Head

Webinar On "Investigating the Properties of Materials at Nanoscale" Held At Patna Women's College

By Garima Poddar

The webinar is being co-ordinated by the Department of Physics, Patna Women's College (self-governing) and Sophia Girls' College (self-sufficient) on the ninth and tenth of July 2021. The online course is as a rule truly disparaged by Dr Sister M. Rashmi A.C. Principal, Patna Women's College and Dr Sister Pearl, Principal, Sophia Girls' College. Dr Aprajita Krishna and Dr Deepmala jointly convening the program. Dr Amrita is the getting sorted out secretary and Dr Kavita Verma and Dr Rohit Singh are the coordinators of the online class. An aggregate of ca. 250 members enlisted for the program and ca. 200 members went to for



the main day of the online class. The primary day began with a debut address by Dr Amrita, Head, Department of Physics and Dean, National and International Collaborations Coordinator, Patna Women's College, the Convenor of the program. She officially

expanded her appreciation to Dr Sister M. Rashmi A.C., Principal, Patna Women's College and Dr Sister Pearl, Principal, Sophia Girls' College, for empowering the association of a deductively edifying worldwide online course. Following the debut discourse, a welcome discourse was

tended to by Dr. Sister M. Rashmi and a prologue to the subject of the online course was given by Dr Sister Pearl. The specialized meeting initiated with the moderation by Dr Amrita, the Organising Secretary, where the principal asset individual of the session, Prof. Dr Anchal Srivastava,

Professor, Banaras Hindu University was officially presented. As the topic of the online class was properties of materials at the nanoscale. Prof. Srivastava acquainted the participants with the intricate details of electron microscopy. The subject of the discussion was "Excursion from Eye to Electron Microscope". The show gave a brief look into electron microscopy which is a fundamental device to describe materials of nanoscale measurements. Following the inquiry answer meeting to the principal discussion of the webinar, Dr Amrita introduced the participants to the second asset individual of the webinar, Prof. Dr Himanshu Narayan,

Professor and Former Head, National University of Lesotho, Roma. The subject of the discussion was "Miracle of Nanoscience and Nanotechnology". In his discussion, Prof. Narayan discussed his exploration with different materials that display imminent applications in the fields of wastewater treatment, electrocatalysis and use of quick weighty particles in incorporating nano-grains of materials. After the discussion, a post-show question-answer meeting was led. The principal day of the two-day online class closed with a statement of gratitude tended to by Dr Amrita and with a ton of eagerness and inspirational perspective among the participants for another useful day.

सार्वजनिक परिवहन बस में मास्क नहीं लगाने तथा मनमाना भाड़ा वसूली के विरुद्ध सभी जिलों में चला विशेष जांच अभियान

By J Reporter

सार्वजनिक परिवहन के यानों में मनमाना भाड़ा वसूली के विरुद्ध सार्वजनिक परिवहन को सभी जिलों में विशेष जांच अभियान चलाया गया है। इस बस स्टैंड एवं ऑटो स्टैंड से सार्वजनिक परिवहन के यानों के खूबने से पूर्व यात्रियों का पर्यवेक्षण किया गया और शिकायत मिलने के बाद संबंधित बस मालिक/बस चालक पर कार्रवाई की गई।



परिवहन सचिव श्री संजय कुमार अग्रवाल ने बताया कि यंत्रों में मनमाना भाड़ा वसूली को लेकर कई जिलों से शिकायतें मिल रही थी। इस पर कार्रवाई के लिए सभी जिलों में विशेष जांच अभियान चलाने का निर्देश दिया गया है। जांच में मनमाना भाड़ा वसूली को रोकना सही पाया जाये पर संबंधित बस मालिक/चालकों पर जुमाना लगाया जा रहा है एवं जल्दी के साथ परामिट रद्द करने की कार्रवाई की जा सकती है। शीघ्रकार को चले विशेष अभियान के तहत सभी जिलों में 425 बसों की जांच की गई जिसमें 74 बसों पर मनमाना भाड़ा वसूली को रोकना जमाना जुमाना लगाया गया था। 10 बसों को

पर जांच कर कार्रवाई का निर्देश दिया गया है। जिलों में जिलाधिकारी के नेतृत्व में जिला परिवहन पदाधिकारी, एसबीआई और ईएसआई द्वारा यह संपन जांच अभियान चलाया गया। अभियान के दौरान रेट्टमली विभिन्न चौक-पैराओं पर ऑटो एवं बसों में मास्क व सोशल डिस्टेंसिंग की जांच कर नियमों का उल्लंघन करने वाले पर कार्रवाई की गई। जांच के क्रम में भाड़ा से संबंधित यात्रियों का फोटोवैक भी लिया गया। जांच पदाधिकारी ने बस कंडक्टर एवं ऑटो चालक को स्पष्ट निर्देश दिए कि यथोचित किराया ही यात्रियों से ले। मनमाना किराया वसूली को रोकना सही पाया जाये पर संबंधित बस चालक को सख्त भी किया

अप्प दीपो भव-35 असर क्यों नहीं करती हैं बातें ?

By दिलीप कुमार

आजकल हर घर में अभिभावक शिक्षण करने मिल जाते हैं कि बच्चे दिन-रात मोबाइल पर लगे रहते हैं। इसी तरह कई घरों में पति को पत्नी से शिक्षण है तो कई घरों में पत्नी को अपने पति से शिक्षण है कि वह हमारे बात सुनो ही नहीं। अपनी बात न सुने जाने को शिक्षण एक बड़ी समस्या बन गई है। कई लोग इसी शिक्षण के साथ दिन की शुरुआत करते हैं तो कई लोग बातचीत का क्रम इस शिक्षण के साथ ही प्रारंभ करते हैं कि आपको तो हमारा ख्याल ही नहीं है। यदि सामने वाला फोन नहीं था फिर कम करे तो कुछ लोग शिक्षण करते हैं कि आप हमें कभी फोन करते ही नहीं हैं।



इस प्रकार को सोच और बातों में नकारात्मकता झलकती है। ज्यादातर लोगों को दिलचस्पी नकारात्मक बातों में नहीं होती है। इसके अलावा यदि हम बात करते बाले के व्यक्ति से प्रभावित नहीं होते हैं। जो लोग अपने जीवन में मन, कर्न और कर्म से एक प्रकार का व्यवहार करते हैं, उनकी बातें ज्यादा असरकारी होती हैं। आजकल हर घर को कहानी एक जैसी हो गई है।

मोबाइल फोन पर खलन करते हैं और बच्चों से अपेक्षा करते हैं कि वह मोबाइल का इस्तेमाल न करें। जाहिर सी बात है कि ऐसी परिस्थिति में बच्चे सुने नहीं। जब हमारे कर्म और उपेक्षा में असर होता है, तब मुंह से निकले हुए शब्दों को हमारा कर्म ही कहता चल जाता है। बच्चों को यदि हम सिखाते हैं- सख्मेय जन्ते और दिन पर खुद ही खुद बोलते रहते हैं तो बच्चा झूठ बोलना ही सीखेगा। हम अपने माथी-सिंगियों को परोपकार करने की नसीहत देते रहें, लेकिन धीरे-धीरे परिवर्तनों में स्वयं को संशोधित रखें तो हमारे संसी-माथी हमसे किनारा करते हुए हमारा मजलक ही उठावें।

असरदायक बातें करने से पहले यह सुनिश्चित कर देना जरूरी है कि हम उन बातों में स्वयं विचार रखते हैं या नहीं। जो प्रेषणादायक बातें हम दूसरों के लिए रख रहे हैं, उन पर हम खुद अलग करते हैं या नहीं। विचार और कर्म में हितगोी ज्यादा फिन्नाह होती है, हमारी बातों का असर उतना ही कम होता है। फिर हम परिस्थान होते रहते हैं कि हमारी बातें कोई