





# REPORT





**Indian Association of Physics Teachers**  
Sub Regional Council of Maharashtra (Vidarbha) SRC-08 E  
**One DAY National Seminar on**  
**Life & Work of S N Bose**  
Inviting UG, PG Students and Teachers  
27th January 2024 2:00 pm onwards  
Followed by a Quiz on the topic of Seminar




**ONLINE**


**Guest of Honor**  
  
**Prof. Mahendra Dhore**  
Principal  
Shri Shivaji Education Society Amravati's  
Science College, Nagpur


**Guest Speaker**  
  
**Prof. Sreerup Raychaudhuri**  
Senior Professor  
TIFR, Mumbai

**Guest Speaker**  
  
**Dr Rajinder Moudgil**  
Professor at Kurukshetra University  
Kurukshetra

**Guest Speaker**  
  
**Prof P K Ahluwalia**  
President IAPT  
Professor at Himachal Pradesh University

**Zoom Meeting ID: 859 5199 1380** **Passcode: 755511**

**Organized by :**  **Sub Regional Council of Maharashtra (Vidarbha) SRC-08 E**  
**Department of Physics,**  
**Shri Shivaji Education Society Amravati's**  
**SCIENCE COLLEGE, Nagpur**



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## **Detailed Report:**

### **One DAY National Seminar on "Life & Work of S N Bose" by IAPT SRC-08 E**

The inaugural event of the **IAPT Sub-Regional Council 08E** commenced with an online **One Day National Seminar on "*Life & Work of S N Bose*" on January 27<sup>th</sup>, 2024**. The event has special significance due to its twofold coincidence first: birth anniversary of Prof. Satyendra Nath Bose – Fellow of Royal Society (1<sup>st</sup> January 1894 – 4<sup>th</sup> February 1974) who was an Indian mathematician and physicist specializing in theoretical physics, best known for his work on quantum mechanics developing the foundation for Bose–Einstein statistics and second: unveiling the Sub Regional Council of Maharashtra for VIDRBHA 08E.

The Program was started on time on Zoom platform facilitated by IAPT. The master of ceremony (MoC) of the program, Dr. Gajanan Jadhav formally welcomed dignitaries and the members joined and invited Professor R. M. Shewale President of RC of Maharashtra to introduce the significance of sub-regional council of IAPT for Vidarbha region (RC-08E).

#### **Prof. Raghunath Shewale:**

He expressed his happiness for providing the opportunity to explain the purpose and history behind the formation of sub-regional council of IAPT for Vidarbha region of Maharashtra 08E. He told that it was an outcome of the President honourable Professor P K Ahluwalia's vision since last one year. He was in constant touch with few life members of IAPT particularly Dr. Rekha Gorpade, General Secretary of IAPT, Dr. Abha Khandelwal, & Prof. Ajay Lad, Prof. S W Anwane, Dr. Govinda Lakhotiya, Prof. Sudam Mane, Prof Dhore from Shivaji Science College and with him also.

He further explained that if decentralization of the organization is done then while conducting or organizing activities more people can be involved from their region and do their activities. The topic of their interests in the region gets the priority. The formation of new sub regional council SRC-08 E was also discussed in EC meeting of IAPT at Jaipur Convention held last year in October 2023. The permission was pending as the proposal and the Request Form for form new SRC was not in desired format. Keeping this in mind and as per our IAPT constitution demands in last quarter of 2023 it was decided that let us come together and get at least all the details of about 100 life members of IAPT of from Vidarbha region of

Maharashtra. The process was started by the above members which I mentioned earlier the list of Life members along with an ad-hoc body for IAPT SRC-08 E, a request letter was sent through email to Central EC to give the permission for new SRC 08E for Vidarbha region after a meeting of central of IAPT on December 10, 2023 The Proposal was then approved and the permission was granted to start working with ad-hoc body till December 2024. From January 2025 officially after the election new EC for SRC-08 E will be formed. Till then with the ad-hoc body the present SRC-08 E will continue to work. He then requested honourable President of IAPT Prof. P K Ahluwalia to announce the office bearers of ad-hoc body of SRC Vidarbha region of Maharashtra SRC-08 E.

**Prof. P.K. Ahluwalia President of IAPT:** Prof. P K Ahluwalia expressed his happiness that sub regional council of Vidarbha region SRC-08 E has been formed. He congratulated the new Sub RC office bearers and also thanked the RC 08 to take this initiative to decentralize the activities of RC-08 Maharashtra. He told that there was a call given in one of the editorials of IAPT bulletin that if we want to really reach out to the stakeholders particularly students it is very much desired that we must decentralize ourselves and a network of sub RCS can be formed in a state.

He said he was happy to note that Maharashtra RC-08 has got the best network of sub RC in Indian Association of Physics Teachers and as a result of that what he finds that every day in one corner or the other of Maharashtra there is a program under the banner of IAPT which goes on. Further he was much happy to tell all the participants that IAPT also launched another program and that is to create in different institutions the student chapters of IAPT and he believe that once this will happen there will be more dynamism in the working of Indian Association of Physics Teachers. He then congratulated the members of new SRC and formally announced the names of the members of SRC-08 E one by one; (1) Prof. S W Anwane, Professor and Head Department of Physics Shri Shivaji Science College Nagpur is the President, (2) Dr Govinda Lakhotiya, Department of physics Bajaj College of Science is the Vice President, (3) Dr. Halim Ahamad Assistant Professor and Head Department of Physics SFS College Nagpur is the Secretary and (4) Dr Gajanan Jadhav Assistant Professor Department of Physics Shri Shivaji Science College Nagpur is the Treasurer who is also the master of the ceremony of this program. Dr Abha Sunil Khandelwal is the Executive Committee Member and she has really taken a lot of interest in the formation of this Sub RC. He told that Dr Abha Khandelwal a basically a Computer Scientist but has lot of interest in Physics and he is sure that her presence in this SRC will add some more flavour to the

activities which are on the interface of Computer Science and Physics. Dr Ajay Lad he is Professor and Head Department of Physics Amolakchand Mahavidyalaya Yavatmal, Dr. Pankaj Nagpure Associate Professor, Department of Physics Shri Shivaji Science College Amravati. He mentioned that Dr Pankaj Nagpure is also a recipient of the Best Teacher Award of the Indian Association of Physics Teachers, Dr. Ashwinikumar Bajpeyee, Head of Research Center in Physics, former Head Department of Physics Smt Narasama ACS College Kiran Nagar Amravati, Dr Amol Nande Assistant Professor, Department of Physics Gurunanak College of Science Ballarpur, Shashank Deshpande Department of Physics Junior College Hislop College Nagpur and Dr Prashant Ambekar Associate Professor and Head Department of Physics MP Deo Memorial Dharampeth Science College Nagpur.

He once again congratulated the members and expressed happiness that this SRC 08E has started on a nice note to showcase the phase shift of India not only to the Physics community but beyond also.

After this the MC Dr. Jadhav introduced the President of newly installed SRC 08E, Dr. S W Anwane and invited him for the introductory remarks.

#### **Prof. Dr. SW Anwane:**

Dr. Anwane remembered the great maratha warrior Chhatrapati Shivaji Maharaj and paid tributes to the founder president of IAPT Professor D P Khandelwal. He told that Professor Khandelwal established this Teachers Association of Physics Teachers four decades ago and we are into the 40th year of its existence and this very program of the day is an outcome of Professor Khandelwal's vision. He was very happy to mention that IAPT stands as a unique example in our country is an association having a great network of Physics teachers in the Country. He also paid humble homage to Dr Punjabrao Deshmukh who was the First Agricultural Minister of Independent India and founder of his parent society that is Shri Shivaji Education Society Amravati He acknowledged the presence of Prof. P K Ahluwalia, National President of IAPT, a distinguished Professor of Physics committed to students and the subject, Professor **Sreerup Raychaudhuri** a versatile Professor of Physics working with the National Institute of repute, TIFR, Professor Rajinder Moudgil, Professor at Kurukshetra University, a doctoral research student of Prof. P. K. Ahluwalia, Principal of Shivaji Science college, Prof. Mahindra Dhore, a dynamic administrator and man of Computer Science and also Professor Raghunath Shewale, President of Regional Council of Maharashtra. He further said that he is overwhelmed with the responsibility bestowed on his team and him and the trust that National president of IAPT, Prof. P.K. Ahluwalia and Professor Shewale Sir has



shown. He assured on behalf of his team that his team shall put best efforts they shall put their best to reach out to students in the best possible way and with the new designation of IAPT feel empowerment in making such programs more effectively not only in getting eminent resource persons but also reaching students through the network of IAPT composed of like-minded teachers and students looking forward with positive mind and with a lot of hopes.

After this MoC Dr. Jadhav called M.Sc. Student Ms. Sakshi Nale to introduce Dr Mahendra Dhore, Principal of Shivaji Science College, Nagpur and invited him for a address the participants.

### **Dr Mahendra Dhore :**

**Dr Mahendra Dhore** paid homage to the founder of Shri Shivaji Education Society Dr Punjabrao Deshmukh the First Union Agriculture Minister. He remembered the great saint Rashrasant Tukdoji Maharaj after whom Nagpur University is named. He acknowledged the presence of guest speakers for one day National seminar on 'Life and work of S N Bose' Prof. Sreerup Raychaudhuri, Prof. Rajinder Mudgil, Prof. P K Ahluwalia, Dr Mrs Abha Khandelwal, Dr Shewale and organizer Dr Professor Shyamkant Anwane from Shivaji Science College Nagpur and all the office bearers of this IAPT.

He congratulated to Prof. P.K. Ahluwalia being the mentor of IAPT expressed his gratitude & for allowing him to be a part of this IAPT activity . He also thanked Dr. Mrs. Khandelwal who has taken keen interest in associating Shivaji Science College with the IAPT. He also thanked Prof. P K Ahluwalia who has extended his cooperation to the Department of physics of this college by allowing the formation of this Sub Regional Council of Maharashtra Vidarbha SRC-08 E and accordingly the formalities have been done and declaring the formation of the sub Regional Council. He congratulated all the office bearers of the newly formed Sub Regional Council SRC-08 E of Maharashtra including President, Vice-President, Secretary, Treasurer and all the executive members.

With this MoC Dr. Jadhav called Dr. Ms. Sugandha Khangar to introduce the first speaker of Seminar Prof. Sreerup Raychaudhuri. Dr. Sugandha introduced resource person briefly. She told Prof. Sreerup Raychaudhuri is a Professor of Theoretical Physics at TIFR Mumbai he specializes in in the study of Elementary Particles and their interactions especially the theories of electroweak interactions and unification of forces. He studied Physics at Presidency College Kolkata and University of Kolkata and was a post doc fellow at TIFR and CNI. He taught at IIT Kanpur for some years before joining TIFR apart from his research and

teaching work he is interested in science popularization and in the history of science especially in the context of development of modern Indian science requested resource person to deliver his talk.

**Prof. Sreerup Raychaudhuri:**

Prof Sreerup Raychaudhuri from TIFR for delivered an excellent lecture on “The life and work of S. N. Bose”. His insights and expertise provided audience with a comprehensive understanding of the legacy left behind by this remarkable Physicist. He commenced his talk by delving into the fundamental principles of thermodynamics, beginning with Kirchoff's law. Systematically, he unfolded the historical progression of quantum statistics, intricately developed by the eminent S N Bose. His eloquent explanations transformed the scientific discourse into a captivating narrative, akin to a live cinematic experience. The audience was seamlessly immersed in a fascinating journey through the life and contributions of SN Bose, making for a truly remarkable and engaging experience.

**Professor Rajender Moudgil:**

After this the second talk was delivered by Dr. Rajender Moudgil, Professor, Department of Physics Kurukshetra University, Kurukshetra. He delivered a lecture on the subject 'Bose-Einstein Statistics: Prediction and Realization.' Prior to commencing his presentation, Professor Moudgil was introduced by B.Sc. Student Ms. Anuska Paladurkar. The professor initiated his discourse by elucidating the foundational concepts of cavity resonators and went on to explain how Professor S N Bose laid the groundwork for Bose-Einstein statistics. Proficiently, he developed the theoretical framework of Bose-Einstein Condensation in a clear and comprehensible manner. Throughout his talk, Prof. Moudgil conveyed to the participants how S N Bose's predictions played a pivotal role in establishing the foundations of quantum mechanics even before the formalization of the field. He skillfully discussed the complex theory as well as experimental physics of Bose-Einstein Condensation, ensuring that even undergraduate students could grasp the intricacies of the subject.

Actually RC had planned three lecture, however both lectures were took little more time and the President Prof. Ahluwalia proposed to reschedule the third lecture on 29<sup>th</sup> January 2024. Prof. Ahluwalia summed-up the whole talks and requested Prof. P C Deshmukh Ex-Professor of Physics IIT-Trichy to share his thoughts at this occasion.

**Prof. P C Deshmukh** suggested IAPT to write to IUPAP to rename Planck's constant ' $h$ ' as the PEB (Planck-Einstein-Bose) constant. Further, he also suggested to write a letter to

American Physical Society for inclusion of University of Kolkata and University of Dhaka as Physics Heritage Sites as they had asked proposals for renaming of Worlds Historical Places as Physics Historical sites.

### **Professor P.K. Ahluwalia**

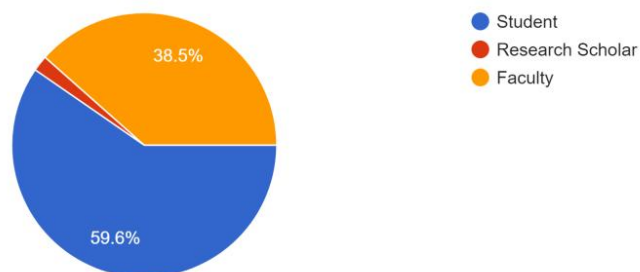
On the next working day, that is, Monday the January 29th, 2024, which was an extension of the one-day National Seminar on the Life and Work of SN Bose held on January 27, 2024, Professor P.K. Ahluwalia, the President of IAPT, delivered an exceptionally insightful and inspiring online talk titled "Respected Master: Albert Einstein – A Life in Physics." Prof. P K Ahluwalia, with his eloquence and profound knowledge, managed to captivate the audience. His remarkable ability to articulate complex concepts in an accessible manner truly showcased his passion for Physics and commitment to instilling a love for the subject. The talk not only illuminated Albert Einstein's profound contributions to physics but also served as a wellspring of inspiration for all participants. Prof. Ahluwalia seamlessly bridged Einstein's theories to real-world applications and contemporary implications. Additionally, his engaging presentation style and the clarity with which he communicated intricate concepts left a lasting impression on everyone in attendance.

Dr. V. Renganayaki and Dr. Uthra Dorairajan from RC Tamilnadu & Pondicherry took efforts in designing an online quiz on the topics covered during this online webinar. The link of the same was circulated just soon after Seminar. Many students attempted the Quiz which was followed by extending the Certificate stating Quiz Score. Moreover, about 105 participants were issued with a Certificate of Participation of the One Day National Seminar against feedback provided. About 59% students and 39% teachers along with 2% research scholars participated in the activity and about more than 80% participants appreciated the activity. Overall, the seminar served as a platform for knowledge dissemination, scholarly discourse, and community engagement, reflecting the commitment of IAPT and its members to advancing physics education and research. The programme came to end following Vote of thanks was delivered by Dr. Halim Ahamad, Secretary of RC 08E.

## Participants Feedback Responses

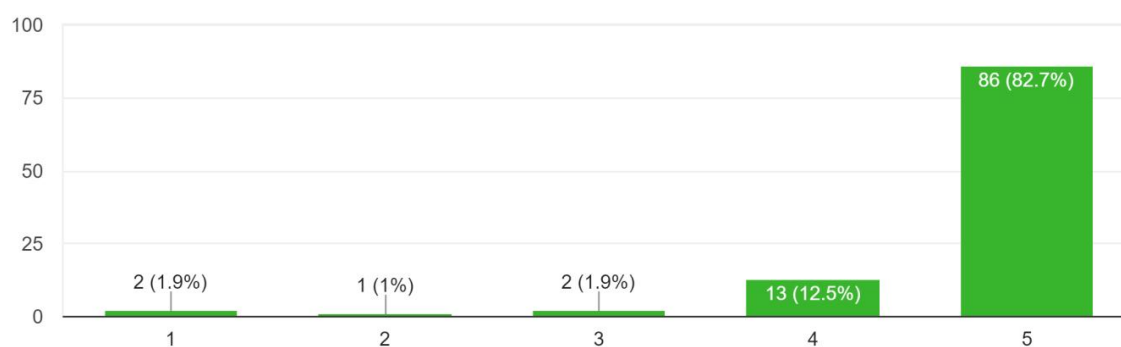
Designation (Student\Research Scholar\Faculty):

104 responses



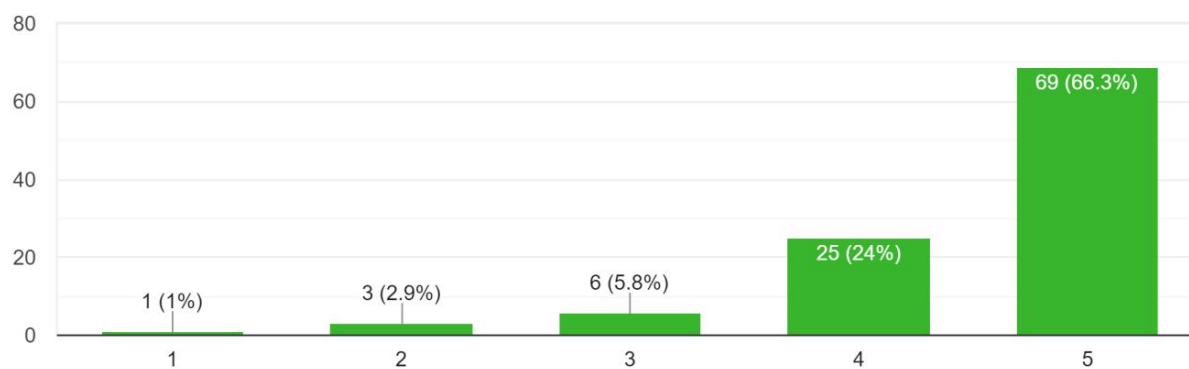
Overall Rating for the One Day National Seminar on "LIFE & WORK OF S.N. BOSE" ? (1- POOR , 5- EXCELLENT)

104 responses



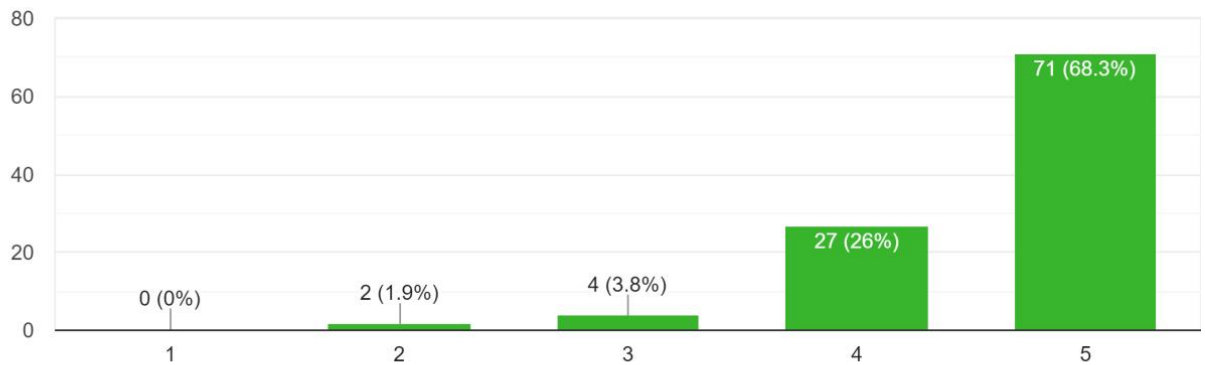
Was the content relevant to your interests?

104 responses



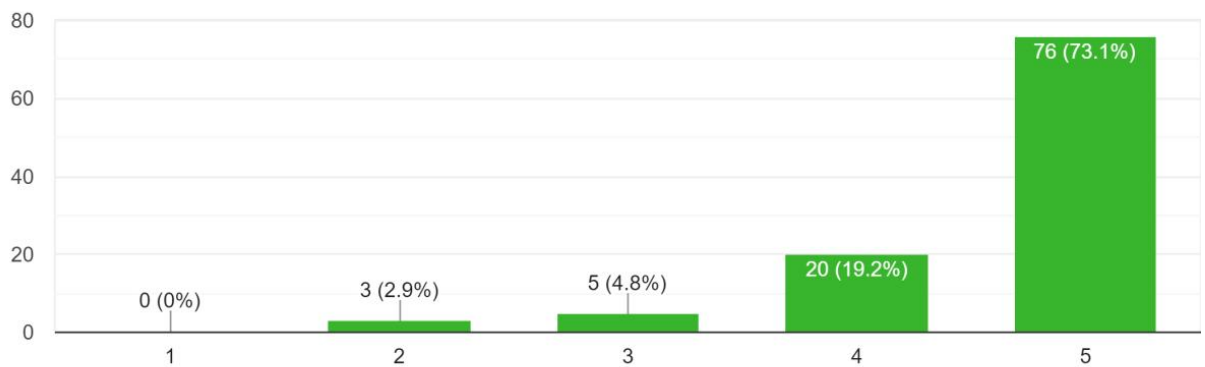
Were the topics covered in-depth and informative? (1- POOR , 5- EXCELLENT)

104 responses



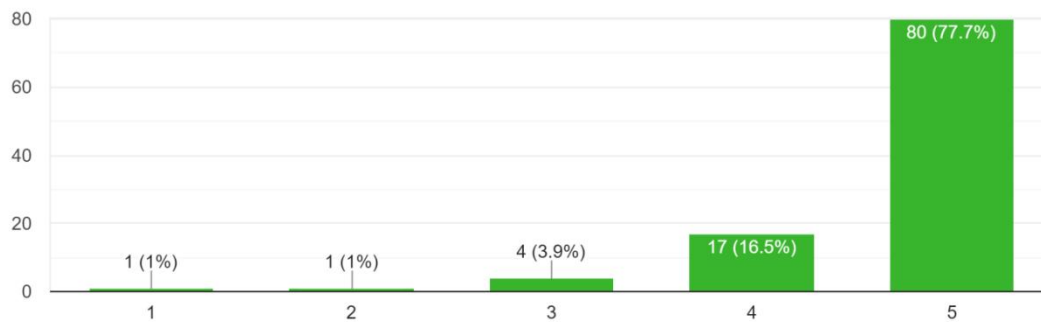
Rate the quality of the speakers. (1- POOR , 5- EXCELLENT)

104 responses



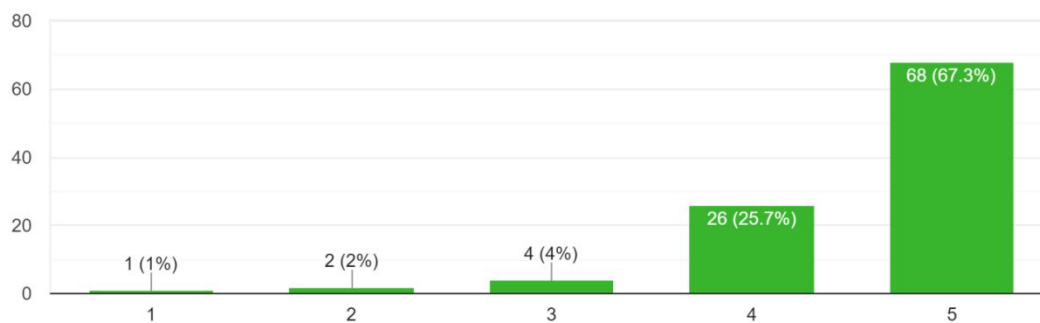
Were the speakers engaging and knowledgeable? (1- POOR , 5- EXCELLENT)

103 responses



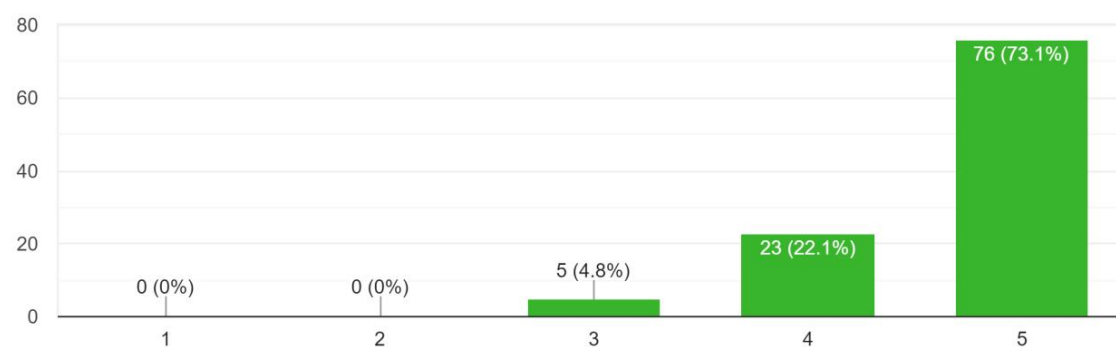
How easy was it to access the online platform?

101 responses



How would you rate overall organization of the ONLINE lecture organized by IAPT and Department of Physics, Shri Shivaji Education Society Amrav...IENCE COLLEGE, Nagpur? (1- POOR , 5- EXCELLENT)

104 responses



### A few Comments recorded by Participants:

- Keep it up
- Congratulations to Principal Dr M P Dhore for taking interest in uplifting IAPT SRC08E. Thanks a lot sir.
- Very good seminar
- Conduct more and more seminar and engage the students towards the scientific environment
- We need more webinars in different topics in future sir. Thank you Sir.
- There should be only one session at a time, specially in an online mode. So that we can give justice to the speaker and participants get time to interact. Thanks.
- Really session was so nice
- Conduct more program for our benefit
- These activities should be repeated frequently so that students will get benefit of such a wonderful veteran physicist.
- "RESPECTED AUTHORITIES... WHEN I START SCREEN RECORDING OF SEMINAR... ONLY VIDEO WAS RECORDED NOT THE SOUND... SO PLEASE TAKE CARE OF SUCH TECHNICAL GLITCH... INNEXT SEMINAR... THANKS"
- It's was fabulous seminar really impressive
- Would like to attend more of the lecture of such great persons!
- Its Great
- Keep up the good work...
- Keep on organizing such events
- Though it is a maiden event by SRC 08E, organization was excellent.
- Excellent 🙌😊
- Pls Organize more such events in future also.
- Lecture based on basic physics is used to conduct. It provides the motivation and interest among students.
- No I don't want to give any suggestion
- Keep up the good work.
- Speaker must be communicating with students as students never feel like bored
- All was well organised
- I must say there should be more involvement of students for such great discussion and talks.
- Nice activity
- Good information
- Nothing to improve everything is great

## Abstract Report:

One-Day National Seminar on "**Life & Work of S N Bose**" by IAPT SRC-08 E

As the inaugural event undertaken by IAPT Sub-Regional Council-08 E, an online One-Day National Seminar on "**Life & Work of S N Bose**" was organized on January 27, 2024. The significance of this event was twofold: it coincided with the birth anniversary of Prof. Satyendra Nath Bose, an Indian mathematician and physicist known for his pioneering work in quantum mechanics, and it marked the unveiling of the Sub-Regional Council of Maharashtra for Vidarbha (SRC-08E).

The program commenced promptly on the Zoom platform facilitated by IAPT. Dr. Gajanan Jadhav, the master of ceremony, extended a formal welcome to the dignitaries and participants. Professor R. M. Shewale, President of RC Maharashtra, introduced the significance of the sub-regional council for the Vidarbha region (RC-08E).

Professor Raghunath Shewale elaborated on the formation of the sub-regional council, attributing it to the visionary leadership of Professor P K Ahluwalia. He highlighted the importance of decentralization in organizing activities to engage more stakeholders from the region effectively. The formation of SRC-08E was discussed in the EC meeting of IAPT at Jaipur Convention in October 2023, leading to its approval and subsequent formation.

Professor P.K. Ahluwalia, President of IAPT, expressed his satisfaction with the establishment of SRC-08E and congratulated the new office bearers. He emphasized the need for decentralization to reach out to students effectively, commending Maharashtra RC-08 for its robust network of sub-RCs. He also announced the names of the office bearers of SRC-08E.

Dr. S W Anwane, President of SRC-08E, paid tribute to the founder of IAPT, Professor D P Khandelwal, and underscored the association's unique role in fostering a nationwide network of physics teachers. He expressed gratitude for the trust placed in the new SRC and pledged to work diligently towards its objectives.

Dr. Mahendra Dhore, Principal of Shivaji Science College, Nagpur, acknowledged the contributions of various individuals and organizations towards the formation of



SRC-08E. He congratulated the new office bearers and thanked Professor P K Ahluwalia for his support.

Two distinguished speakers, Professor Sreerup Raychaudhuri and Professor Rajender Moudgil, delivered insightful lectures on the life and work of S N Bose and Bose-Einstein statistics, respectively. Their talks provided a comprehensive understanding of Bose's legacy and his contributions to quantum mechanics.

Following the lectures, Professor P C Deshmukh proposed writing to IUPAP to rename Planck's constant as the PEB (Planck-Einstein-Bose) constant. He also suggested nominating the University of Kolkata and University of Dhaka as Physics Heritage Sites.

On January 29, 2024, Professor P.K. Ahluwalia delivered an engaging online talk titled "Respected Master: Albert Einstein – A Life in Physics." His insightful presentation bridged Einstein's theories to real-world applications, inspiring all participants.

An online quiz was conducted, and certificates were issued to participants. Dr. Halim Ahamad delivered the vote of thanks, concluding the program.

Overall, the seminar was a resounding success, engaging both students and teachers and fostering a deeper appreciation for the contributions of eminent physicists .

### List of Participants generated from the online Feedback

1. Mr.Yogesh Sunilrao Kase
2. Dr. PK AHLUWALIA
3. Lt. Dr. Prashant Ambekar
4. Namdeo Jagoji Meshram
5. Dr Abha Khandelwal
6. Mr. Chetan Jaydeorao Ghormade
7. Dr R M Shewale
8. Radhika G Deshmukh
9. Dt V RENGANAYAKI
10. Vishakha Sanjay Misal
11. Dr. Arun Kumar
12. Satish kumar
13. Sanjeev Thakur
14. Ms. Afreen Ansari
15. Ms. Reena Kumari
16. Ms. Meenakshi Sharma
17. Dr. K. Annapoorani
18. Mr. Nikhil Kumar
19. Mr. Sunil Kumar
20. Dr. Rajashree Anwane
21. Miss. Rupali anilrao sawai.
22. Mrs Rekha Ghorpade
23. Dr. Halim Ahamad
24. Mr. Shashikant Vijaykrishna Kale
25. Khushi Raju Kankatwar
26. Megha suresh makde
27. Ms. Sonal tijare
28. Mrs.Sakshi Ramashankar yadav
29. Abhijeet Harish Pardhan
30. Ms . Sakshi Deepaksingh Thakur
31. Ms. Vasuki Dabhane
32. SHWETA SHRIVASTAVA
33. Mr. Shashank S. Deshpande
34. Antakshari Nischal Khillarkar
35. Aakanksha Kamalakar Rajurkar
36. Mr. Tanmay Anandrao Kotangale
37. Ms. Gayatri Rakesh Mishra
38. Ms diksha Santosh mishra
39. Ms. Kaveri Rambhau Bodele
40. MS Swati Vinod Mishra
41. Mrunalini Shriram Mendhe
42. Dr Gajanan Lalsing Jadhav
43. Ms. GAURI FUSE
44. Dr. Sushil Kumar
45. Mr. ISHWAR SINGH
46. Ms. Kanchan Jivnapurkar
47. Ms jayshree prakash yadav
48. Ms.Sakshi Mangesh Raut
49. Miss. TANUSHKA ANAND KADU
50. Ms. Akansha Subhash Sangole
51. Sapna Sharma
52. Ms. Vedanti Pramod Doble
53. Ms. Gayatri vinod kawale
54. Mr Kulkarni Suraj Sunilrao
55. MrTanmay Nagrale
56. Mr. Swapnil S. Belkhude
57. Ms. Chanda Prakash Jatgade
58. Pratham shrivas
59. Mr. Soksham Nishant Dhok
60. Ms. AISHWARYA P MENDWADE
61. Ms. Munesh Chaudhary
62. Miss. Sneha sharma
63. Ms. Premlata Ishwardas Uparikar
64. Ms. Osheen Darshan Arora
65. Shrivatsa pitale
66. Dr Arvind Gopal Kulkarni
67. Mr. Rathod Janardhan Maroti
68. Dr. Shilpa G. Vidhale
69. GHANSHYAM MENARIA
70. Dr. VINOD KUMAR
71. Ms. Nandini Anil Pasi
72. Mrs. Ranita Eknath Aglave
73. Mr. Krunal Gajanan Bhagat
74. Mr. Yash Shriprakash Chaube
75. Ms. Vaishnavi Dinesh Dabare
76. chetana Moreshwar khadse
77. Prof S W Anwane
78. Ms .Stuti Girish Karotiya
79. Arti Subhash Joshi
80. Samiksha Bhusari
81. Dr. Poonam Jain
82. Ms. Lavanya Talnikar
83. Dr.Swati Anoop Fartode
84. Dr. Yogesh Kumar
85. Mrs. Prerna Amit Ambade
86. Mr Paramjeet Singh Lecturer
87. Dr. Pranawa Chakradhar Deshmukh
88. Ms. Vaishnavi Vijay Dhadse
89. Dr. Nimat Rajesh K
90. Ms. Sakshi Omprakash Ukey
91. Dr. D V Nandanwar
92. Ms. Kiranpreet kaur chania
93. Mr. Bhupendra Tikaram Kumbhare
94. Mr Syed Ishtiyaz Ahmad
95. Ms. Sakshi T. Nale
96. Manasvi Dilip Dange
97. Mr. Vireshkumar H Thakkar
98. Vaishnavi Ramesh khade
99. Mr. Jay Madhukar Shende
100. Ganesh C. Vandile
101. Ms Riya Faldu
102. Mr.Nishant Dushyant Meshram
103. A B Lad
104. Mr. Ashwinikumar Bajpeyee
105. Amol Nande
106. Shashank Deshpande
107. Govind Lakhotiya
108. Halim Ahamad

# बोस यांच्या जीवनकार्यावर राष्ट्रीय चर्चासत्राचे आयोजन

लोकमत न्यूज नेटवर्क

नागपूर : भारतीय भौतिकशास्त्र शिक्षक संघटना आणि श्री शिवाजी विज्ञान महाविद्यालयाच्या वतीने भौतिकशास्त्रज्ञ सत्येंद्रनाथ बोस यांच्या जयंतीनिमित्त 'एस. एन. बोस यांचे जीवन व कार्य' या विषयावर राष्ट्रीय चर्चासत्राचे आयोजन करण्यात आले होते.

या कार्यक्रमाला भारतीय भौतिकशास्त्र शिक्षक संघटनेचे राष्ट्रीय अध्यक्ष प्रा. पी.के. अहुवालिया हे प्रमुख वक्ते म्हणून उपस्थित होते. यावेळी प्राचार्य डॉ. महेंद्र ढोरे, कुरुक्षेत्र विद्यापीठाचे डॉ. राजेंद्र मोडगिल, महाराष्ट्र राज्य शिक्षक संघटनेचे अध्यक्ष आर. एम. शेवाळे आणि विदर्भ क्षेत्राचे नवनिर्वाचित अध्यक्ष प्रा.

श्यामकांत अनवाने हेदेखील यावेळी उपस्थित होते. यावेळी पी. के. अहुवालिया यांनी विदर्भाच्या संघटनेची घोषणा केली. प्रा. श्रीरूप रायचौधुरी यांनी 'सत्येंद्र नाथ बोस यांचे जीवन आणि कार्य' या विषयावर व्याख्यान दिले, तर डॉ. मोडगिल यांनी 'बोस-आइन्स्टाइन संक्षेपण : भविष्यवाणी आणि प्राप्ती' या भौतिकशास्त्र विषयावर मार्गदर्शन केले. आयआयटी-त्रिची येथील माजी प्राध्यापक डॉ. प्रणवचंद्र देशमुख यांनीदेखील त्यांचे विचार मांडले. प्रश्नमंजूषा स्पर्धेने या चर्चासत्राचा समारोप झाला. डॉ. गजानन जाधव यांनी संचालन केले, तर प्रा. श्यामकांत अनवाने व डॉ. हलीम अहमद यांनी आभार मानले.

## IAPT conducts one-day national seminar in online mode

**I**ndian Association of Physics Teachers (IAPT) and Shri Shivaji Science College conducted one-day **national seminar** in online mode on the topic 'SN Bose's Life & Work'. **Prof PK Ahluwalia**, president of IAPT was chief speaker, while the guest of honour was **Prof Mahendra Dhore**, principal of Shivaji Science College. **Prof Sreerup Raychaudhuri** of TIFR Mumbai, **Rajinder Moudgil** of Kurukshetra University, and **Prof RM Shewale** were other speakers. Ahluwalia announced the office-bearers of sub regional council for Vidarbha under the presidentship of **Shyamkant Anwane**, of Science College. A **quiz** marked the end of the seminar. Certificates were issued to the participants in online mode. **Anwane expressed gratitude** to the dignitaries while **Halim Ahamad**, secretary of SRC, proposed a vote of thanks. **Gajanan Jadhav**, treasurer anchored the seminar.





ONLINE

## Indian Association of Physics Teachers

Sub Regional Council of Maharashtra (Vidarbha) SRC-08 E

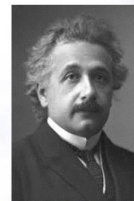
One DAY National Seminar on

### Life & Work of S N Bose

Inviting UG, PG Students and Teachers

27th January 2024 2:00 pm onwards

Followed by a Quiz on the topic of Seminar



Guest of Honor



Prof. Mahendra Dhole  
Principal  
Shri Shivaji Education Society Amravati's  
Science College, Nagpur

Guest Speaker



Prof. Sreerup Raychaudhuri  
Senior Professor  
TIFR, Mumbai

Guest Speaker



Dr. Rajinder Moudgil  
Professor at Kurukshetra University  
Kurukshetra

Guest Speaker



Prof. P K Ahluwalia  
President IAPT  
Professor at Himachal Pradesh University

Zoom Meeting ID: 859 5199 1380

Passcode: 755511

Organized by :



Sub Regional Council of Maharashtra (Vidarbha) SRC-08 E

Department of Physics,  
Shri Shivaji Education Society Amravati's  
SCIENCE COLLEGE, Nagpur



ONLINE

## Indian Association of Physics Teachers

Sub Regional Council of Maharashtra (Vidarbha) SRC-08 E

One DAY National Seminar on

### Life & Work of S N Bose

Inviting UG, PG Students and Teachers

### Re-scheduled extension

29th January 2024 3:00 pm



The talk originally scheduled on 27th January 2024 has been rescheduled on **29th of January 2024 at 3:00 PM**. This event serves as an extension of the **One Day Seminar** on the **Life & Work of S N Bose**. We are delighted to announce that Prof. P K Ahluwalia, a distinguished researcher in Condensed Matter Physics and a Professor at Himachal Pradesh University, who also holds the position of National President of IAPT, has graciously agreed to deliver his talk titled "Respected Master: Albert Einstein - A Life from Physics."

Guest Speaker



Prof. P K Ahluwalia  
President IAPT  
Professor at Himachal Pradesh University

Zoom Meeting ID: 869 0377 5173

Passcode: 815889

Organized by :



Sub Regional Council of Maharashtra (Vidarbha) SRC-08 E

Department of Physics,  
Shri Shivaji Education Society Amravati's  
SCIENCE COLLEGE, Nagpur





# Indian Association of Physics Teachers

## One DAY National Seminar on Life & Work of S N Bose

27th January 2024 2:00 pm onwards



Zoom Meeting ID: 859 5199 1380 Passcode: 755511

Satyendra Nath Bose, a Fellow of the Royal Society (1 January 1894 – 4 February 1974), was an eminent Indian mathematician and physicist with a specialization in theoretical physics. He is widely recognized for his ground breaking contributions to quantum mechanics, particularly for laying the foundation of Bose-Einstein statistics. In honor of his birth anniversary, the Sub-Regional Council of Maharashtra for VIDARBHA is organizing a one-day National Seminar on the Life & Work of Bose and Einstein. This online event is scheduled for 27th January 2024 at 2:00pm, serving as a commemoration and an opportunity to delve into the profound contributions of these luminaries.

**2:00pm-2:15pm** - INAUGURAL Session - **The Life and Work of Satyendra Nath Bose**

**2:15pm-3:15pm** - Prof. Sreerup Raychaudhuri, TIFR, Mumbai - **The Life and Work of Satyendra Nath Bose**

**3:15pm-4:15pm** - Prof. Rajinder Moudgil, Kurukshetra University - **Bose-Einstein Condensation: Prediction and Realization**

**4:15pm-5:15pm** - Prof. P K Ahluwalia, President IAPT & Professor HPU- **Respected Master: Albert Einstein – A Life from Physics**

**QUIZ** - An online **Quiz** on **Life and works of Satyendra Nath Bose** will be opened at the end of the programme for students as well as faculty members with the support of **Dr. V. Renganayaki & Dr. Uthra Dorairajan** from Regional Council of Tamil Nadu & Pondicherry RC-13. A participation certificate will be issued.

### Organizers :

**Dr Shyamkant Anwane** *President SRC-08 E*  
**Dr Govinda Lakhotiya** *Vice-President SRC-08 E*  
**Dr Halim Ahamad** *Secretary SRC-08 E*  
**Dr R M Shewale** *President RC-08*  
**Dr Lata Jadhav** *Secretary RC-08*  
**Mr S J Patil** *Treasurer RC-08*  
**Dr G L Jadhav** *Treasurer SRC-08 E*

**Dr Mrs S V Khangar** - *Physics Society*  
**Dr. Abha Khandelwal** *EC SRC-08 E*  
**Dr. Ajay Lad** *EC SRC-08 E*  
**Dr. Pankaj Nagpure** *EC SRC-08 E*  
**Dr. A. Bajpeyee** *EC SRC-08 E*  
**Dr. Amol Nande** *EC SRC-08 E*  
**Shashank Deshpande** *EC SRC-08 E*  
**Lt. Dr. Prashant Ambekar** *EC SRC-08 E*

## ‘भारतीय भौतिकशास्त्र शिक्षक संघटना’ (IAPT) आणि शिवाजी विज्ञान महाविद्यालयाच्या वतीने एक दिवसीय राष्ट्रीय चर्चासत्राचे आयोजन!

भारतीय भौतिकशास्त्र शिक्षक संघटना (Indian Association of Physics teachers- SUB-RC-08E) आणि श्री शिवाजी विज्ञान महाविद्यालय काँग्रेस नगर नागपूरच्या वतीने आभासी पटलावर दिनांक 27 जानेवारी 2024 रोजी एक दिवसीय राष्ट्रीय सेमिनारचे आयोजन करण्यात आले होते. भारतीय गणितज्ञ आणि भौतिकशास्त्रज्ञ सत्येंद्रनाथ बोस यांच्या जयंतीनिमित्त "एस. एन. बोस यांचे जीवन व कार्य" या विषयावर एक दिवसीय राष्ट्रीय चर्चासत्राचे आयोजन करण्यात आले होते. या कार्यक्रमाला भारतीय भौतिकशास्त्र शिक्षक संघटनेचे राष्ट्रीय अध्यक्ष प्रा. पी. के. अहुवालिया हे प्रमुख वक्ते म्हणून उपस्थित होते. यावेळी श्री शिवाजी शिक्षण संस्था द्वारा संचालित विज्ञान महाविद्यालय काँग्रेस नगर नागपूरचे प्राचार्य डॉ. महेंद्र ढोरे यांची देखील उपस्थिती होती. कुरुक्षेत्र विद्यापीठाचे भौतिकशास्त्र विषयाचे प्राध्यापक डॉ. राजेंद्र मोडगिल, महाराष्ट्र राज्य शिक्षक संघटनेचे अध्यक्ष प्राध्यापक आर. एम. शेवाळे धुळे आणि विदर्भ क्षेत्राचे नवनिर्वाचित अध्यक्ष प्रा. शामकांत अनवाने हे देखील यावेळी उपस्थित होते.

इंडियन असोसिएशन ऑफ फिजिक्स टीचर्स (IAPT) ची स्थापना 1984 मध्ये (कै.) डॉ. डी. पी. खंडेलवाल यांनी भौतिकशास्त्राच्या काही शिक्षकांच्या सक्रिय पाठिंब्याने, भौतिकशास्त्र अध्यापन आणि भौतिकशास्त्र शिक्षकांची गुणवत्ता सुधारण्याच्या उद्देशाने केली. भौतिकशास्त्र विषयातील देशातील एक प्रमुख संघटनेत याचे रूपांतर झाले असून सुमारे 10000+ आजीव सदस्य देशभरातील सुमारे 1500 संस्थांमध्ये पसरले आहे. ज्यात परदेशातील सुमारे 100 सदस्य आहेत. सदस्यांमध्ये शाळा, महाविद्यालय, विद्यापीठातील शिक्षक, संशोधक, विज्ञान प्रशासक आणि विज्ञान जाणकारांचा समावेश आहे.

यावेळी प्राध्यापक पी. के. अहलुवालिया यांनी विदर्भासाठी भौतिकशास्त्र शिक्षक संघटनेची (IAPT-SUB-RC-08E) घोषणा केली. यावेळी त्यांनी अध्यक्ष, उपाध्यक्ष, सचिव यांच्यासह नवनिर्वाचित सर्व पदाधिकाऱ्यांना शुभेच्छा दिल्या. विदर्भातल्या या नवीन संघटनेच्या माध्यमातून विविध कार्यक्रम तसेच विद्यार्थ्यांकरता विविध उत्कृष्ट उपक्रमांचे आयोजन केले जाईल अशी आशा व्यक्त केली.

यावेळी प्रा. श्रीरूप रायचौधुरी, अतिथी वक्ते, यांनी "सत्येंद्र नाथ बोस यांचे जीवन आणि कार्य" या विषयावर अतिशय महत्वपूर्ण माहितीसह व्याख्यान दिले तर कुरुक्षेत्र विद्यापीठातील प्राध्यापक डॉ. राजेंद्र मोदगील, यांनी "बोस-आईन्स्टाईन संक्षेपण: भविष्यवाणी आणि प्राप्ती." या भौतिकशास्त्र विषयावर आधारित उत्कृष्ट व्याख्यान दिले. या एक दिवसीय राष्ट्रीय चर्चासत्राच्या समारोप प्रसंगी अभिप्राय देताना डॉ. प्रणवचंद्र देशमुख माजी प्राध्यापक भौतिकशास्त्र विभाग आयआयटी त्रिची यांनी यावेळी भारतीय भौतिकशास्त्र शिक्षक संघटनेला विनंती केली की 'h' ला केवळ 'प्लॅन्क कॉन्स्टंट' न संबोधता 'प्लॅन्क आईन्स्टाईन बोस' असे संबोधित केले जावे आणि यासाठी आंतरराष्ट्रीय संस्थेशी भारतीय भौतिकशास्त्र शिक्षण संघटनेने पत्रव्यवहार करून त्यांना तसे कळविण्याची विनंती देखील केली.

RC-13 च्या तामिळनाडू आणि पॉडिचेरी प्रादेशिक परिषदेने डॉ. व्ही. रेंगानायकी आणि डॉ. उथरा दोराईराजन यांच्या सहकार्याने तयार केलेली प्रश्नमंजुषा स्पर्धेने या चर्चासत्राचा समारोप झाला. एस. एन. बोस यांचे कार्य आणि जीवनावरील राष्ट्रीय सेमिनारसाठी सहभाग प्रमाणपत्रे आणि प्रश्नमंजुषा गुणांसह प्रमाणपत्रे ऑनलाइन पद्धतीने सहभागींना देण्यात आले. प्रा. श्यामकांत अनवाने (अध्यक्ष SUB-RC-08E) यांनी मान्यवरांचे आभार मानले व डॉ. हलीम अहमद, (सचिव, SUB-RC-08E) यांनी आभार मानले. तर डॉ. गजानन जाधव, (कोषाध्यक्ष) यांनी या चर्चासत्राचे सूत्रसंचालन केले.

### Important Links:

#### **One DAY National Seminar on "Life & Work of S N Bose" by IAPT SRC-08 E**

#### **Day 1: 27<sup>th</sup> Jan 2024:**

Satyendra Nath Bose – Fellow of Royal Society (1 January 1894 – 4 February 1974) was an Indian mathematician and physicist specializing in theoretical physics, best known for his work on quantum mechanics developing the foundation for Bose–Einstein statistics. To commemoration of his birth anniversary and launch the Sub Regional Council of Maharashtra for VIDRBHA, online one day National Seminar of Life & Work of Bose and Einstein on 27<sup>th</sup> January 2024.

[https://youtu.be/SbdHTwbpk50?si=VYI4\\_WMWwPK20Fu1](https://youtu.be/SbdHTwbpk50?si=VYI4_WMWwPK20Fu1)

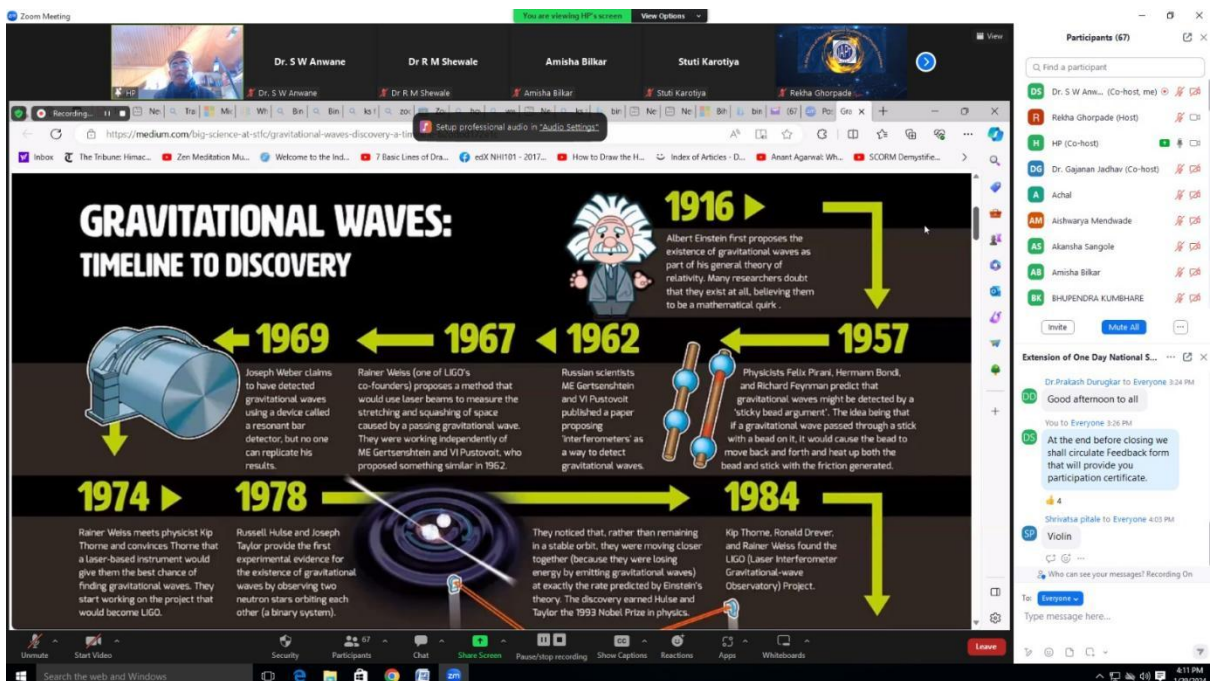
#### **Day 2: 29<sup>th</sup> Jan 2024 - Extended**

<https://youtu.be/Fj0Lf0pkFeg?si=MqaJ0kmDwKxtMgm9>

The talk originally scheduled on 27<sup>th</sup> Jan 2024 was rescheduled to the 29<sup>th</sup> of January 2024 at 3:00 PM. This event serves as an extension of the One Day Seminar on the Life & Work of S N Bose. We are delighted to announce that Prof. P K Ahluwalia, a distinguished researcher in Condensed Matter Physics and a Professor at Himachal Pradesh University, who also holds the position of National President of IAPT, has graciously agreed to deliver his talk titled "Respected Master: Albert Einstein – A Life from Physics." Satyendra Nath Bose – Fellow of Royal Society (1 January 1894 – 4 February 1974) was an Indian mathematician and physicist specializing in theoretical physics, best known for his work on quantum mechanics developing the foundation for Bose–Einstein statistics. To commemoration of his birth anniversary and launch the Sub Regional Council of Maharashtra for VIDRBHA, online one day National Seminar of Life & Work of Bose and Einstein on 27<sup>th</sup> January 2024



## Some stills



Zoom Meeting

You are viewing Dr's screen View Options

Dr. S W Anwane Dr. R M Shewale Amisha Bilkar Stuti Karotiya

Recording...

## Einstein's Letter to President Roosevelt

Setup professional audio in "Audio Settings"

Albert Einstein  
225 West 111th St.  
New York, New York  
August 2nd, 1939

P.S. Roosevelt,  
President of the United States,  
Washington, D.C.

Sir:

Some recent work by E. Fermi and L. Szilard, which has been communicated to me in manuscript, leads me to report that the element uranium may be turned into a new and important source of energy in the immediate future. Certain aspects of the situation which has arisen seem to call for rapid and, if necessary, quick action on the part of the administration. I believe therefore that it is my duty to bring to your attention the following facts and recommendations.

In the course of the last four months it has been made probable through the work of Fermi in France as well as Fermi and Szilard in America - that it may become possible to set up a nuclear chain reaction in a large mass of uranium by which vast amounts of power and large quantities of new medium-like elements would be generated. Now it appears almost certain that this could be achieved in the immediate future.

This new phenomenon would also lead to the construction of bombs, and it is conceivable - though much less certain - that extremely powerful bombs of a new type may thus be constructed. A single bomb of this type, carried by boat and exploded in a port, might very well destroy the whole port together with some of the surrounding territory. However, such bombs might very well prove to be too heavy for transportation by sea.

The United States has only very meagre stores of uranium in its territories. There is some good ore in Canada and the former Czechoslovakia, while the most important source of uranium is Belgian Congo.

In view of this situation you may think it desirable to have some permanent contact maintained between the administration and the group of physicists working on chain reactions in America. One possible way of achieving this might be for you to entrust with this task a person who has your confidence and who could perform service in an unofficial capacity. This task might comprise the following:

- 1) To approach Government Departments, keep them informed of the further development, and put forward recommendations for Government action, giving particular attention to the problem of securing a supply of uranium ore for the United States;
- 2) To speed up the experimental work which is at present being carried on within the limits of the budgets of University laboratories, by private funds, if such funds be required, through his contacts with private persons who are willing to make contributions for this cause, and propose ideas by obtaining the co-operation of industrial laboratories which have the necessary equipment.

I understand that Germany has actually stopped the sale of uranium from the Czechoslovakian mines which she has taken over. That she should have taken such early action might perhaps be understood on the ground that the son of the German State-Secretary of State, von Weizsaecker, is attached to the Kaiser-Wilhelm-Institut in Berlin where some of the American work on uranium is now being repeated.

Yours very truly,  
Albert Einstein

Participants (68)

Find a participant

- Dr. S W Anwane... (Co-host, me)
- Rakha Ghorpade (Host)
- HP (Co-host)
- Dr. Gajanan Jadhav (Co-host)
- Achal
- Aishwarya Mendwad
- Akash Sangle
- Amisha Bilkar
- Anil Gite

Invite Mute All

Extension of One Day National S...

Dr. Prakash Durugkar to Everyone 3:24 PM

Good afternoon to all

You to Everyone 3:26 PM

At the end before closing we shall circulate feedback form that will provide you participation certificate.

You to Everyone 3:26 PM

Violin

Who can see my messages? Recording On

To: Everyone

Type message here...

Search the web and Windows

4:06 PM 1/29/2024

Recording...

You are viewing Dr's screen View Options

Setup professional audio in "Audio Settings"

## Letter from Einstein's Father to Professor Ostwald

" I beg you to excuse a father who dares to approach you, dear Professor, in the interest of his son ... My son Albert Einstein is 22 year old... Everybody who is able to judge praises his talent... My son is profoundly unhappy about his present joblessness, and every day the idea becomes more firmly implanted in him that he is a failure in his career and will not be able to find the way back again... Because, dear Professor, my son honours and reveres you... I permit my self to apply to you with the plea that you read his article ... and hopefully that you will write him a few lines of encouragement so that he may regain his joy in life and his work ...

My son has no idea of this extraordinary step of mine."

Participants (68)

Dr. S W Anwane

Dr. S W Anwane

Dr. R M Shewale

Dr. R M Shewale

Amisha Bilkar

Amisha Bilkar

Stuti Karotiya

Stuti Karotiya

Rakha Ghorpade

4:06 PM 1/29/2024



Congress Nagar, Dhantoli, Nagpur, Maharashtra 440012, India

Latitude  
21.12817514°

Local 02:16:28 PM  
GMT 08:46:28 AM

Longitude  
79.08192539°

Altitude 310 meters  
Saturday, 27.01.2024





GPS Map  
Camera Lite

Congress Nagar, Dhantoli, Nagpur, Maharashtra 440012, India

Latitude  
21.12818413°

Local 02:17:16 PM  
GMT 08:47:16 AM

Longitude  
79.08199116°

Altitude 310 meters  
Saturday, 27.01.2024



GPS Map  
Camera Lite

Congress Nagar, Dhantoli, Nagpur, Maharashtra 440012, India

Latitude  
21.12823189°

Longitude  
79.08196752°

Local 02:21:31 pm  
GMT 08:51:31 am

Altitude 310 meters  
Saturday, 27.01.2024



Congress Nagar, Dhantoli, Nagpur, Maharashtra 440012, India

Latitude  
**21.12824541°**

Local 02:24:39 pm  
GMT 08:54:39 am

Longitude  
**79.08212068°**

Altitude 310 meters  
Saturday, 27.01.2024





# Indian Association of Physics Teachers

Registered under section XXI of Societies Act 1860, Reg. No. K-1448

## Sub-Regional Council of Maharashtra SRC-08 E (Vidarbha)

<b>Prof S. W. Anwane</b> <i>President</i> 9422122711	<b>Dr G. Lakhotiya</b> <i>Vice-President</i> 9579194076	<b>Dr Halim Ahamad</b> <i>Secretary</i> 9372233844	<b>Dr G. L. Jadhav</b> <i>Treasurer</i> 9765583480
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### Executive Council Members SRC-08 E (Vidarbha)

**Dr. Abha Khandelwal**  
Nagpur  
9665045780

**Dr. Ajay Lad**  
Yavatmal  
9822460072

**Dr. Pankaj Nagpure**  
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President RC-08  
94239 16066

**Dr. Lata D. Jadhav**  
Secretary RC-08  
98906 94409

**Mr. S. J. Patil**  
Treasurer RC-08  
98507 85615

Ref No.:CORR/2024/SRC-V/004

Date: 18/01/2024

To,  
Prof Sreerup Raichoudhary  
TIFR, Mubmai  
Sub: Invitation for Lecture on **S N Bose - Life & Work** by IAPT SRC-08 E on 27<sup>th</sup>  
Jan 2024 at 2 pm

Dear Sir,

I trust this letter finds you in excellent health and high spirits. It is with great pleasure that we extend an invitation to you as a distinguished speaker at the IAPT Maharashtra States Sub Regional Council for Vidarbha. We are excited to have you deliver a lecture on "S N Bose - Life & Work" in commemoration of his birth anniversary. Born on 1st January 1894, S N Bose is renowned as the father of quantum statistics, credited for his discovery of Bose-Einstein Statistics.

This lecture will be conducted online, with members of IAPT, as well as students undergoing UG, PG, and research programs nationwide, eagerly participating. The Zoom platform link will be extensively circulated through various IAPT networks to ensure widespread attendance.

Noteworthy attendees include IAPT National President Prof P K Ahluwalia, other office bearers, a distinguished group of teachers, and our college Principal Prof Mahendra Dhore. We look forward to the opportunity for meaningful interaction with you during this lecture.

Thank you for considering our invitation. Your presence will undoubtedly enrich the event and contribute to its success.

Warm regards

S W ANWANE  
President, SRC-08 E, IAPT

1. We shall have a trial session as suggested by you in the morning of 27<sup>th</sup> Jan 2024
2. We are looking forward to you for your Bio-data so that your formal introduction can be carried out.
3. Pl confirm your title so that we can circulate flyer across the country.



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Ref No.:CORR/2023/GEN/003

Date: 18/01/2024

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Secretary RC-08  
98906 94409

**Mr. S. J. Patil**  
Treasurer RC-08  
98507 85615

## NOTICE for Virtual Science Talk

All the members of IAPT, students undergoing UG and PG programmes in the country are hereby informed that **Prof Sreerup Raichoudhary**, a **Senior Professor** with TIFR (Tata Institute of Fundamental Research) Mumbai has kindly consented to deliver the lecture on **S N BOSE - LIFE AND WORK** being hosted by Sub-Regional Council of MAHARASHTRA (Vidarbha) SRC 08 E. An Indian mathematician and physicist specializing in theoretical physics **Satyendra Nath Bose** (popularly known as Satyen Bose) was born on 1st January 1894. To commemorate his birth anniversary, SRC-08 E is organizing lecture **S N BOSE - LIFE AND WORK** who is known as father of quantum statistics for his discovery of Bose Einstein Statistics.

The login details of his online scheduled lecture on 27th January 2024 Saturday at 2:00 p.m. will be announced soon.

S W ANWANE  
**President, SRC-08 E, IAPT**



### Table Programme

ONE DAY National Seminar in Online Mode on topic **S N Bose - Life & Work** by IAPT SRC-08 E on **27<sup>th</sup> Jan 2024 at 2:00 pm**

Sr No	Time	Item
1.	1:45-2:00	Join online programme, students in classroom C4 will occupy seats
2.	2:00	Welcome to all the participants and dignitaries by Master of Ceremony Dr G L Jadhav (announcement of circulation of link of Quiz)
3.	2:02	Prof R M Shewale will briefly introduce <b>the significance of formation of Sub Regional Council for (VIRARBHA) as a President of RC Maharashtra</b>
4.	2:05	Prof P K Ahaluwalia will <b>announce office bearers of SRC-08 E</b> and declare the installation.
5.	2:10	Introductory Remark about National Seminar on <b>The Life and Work of Satyendra Nath Bose</b> by Prof S W Anwane, President, IAPT SRC-08 E (Dr GLJ will give brief Introduction of SWA)
6.	2:12	Remarks by Principal M P Dhore - Guest of Honour (Sakshi Nale M.Sc. Sem IV student will give brief Introduction of Dr M P Dhore)
7.	2:15	<b>Introduction of Guest Speaker Prof Sreerup Raychaudhuri by Dr S V Khangar. Dr S V Khangar will call the Guest Speaker to deliver his talk.</b>
8.	2:17-3:05	Prof Sreerup Raychaudhuri on the topic <b>The Life and Work of Satyendra Nath Bose.</b>
9.	3:05-3:15	Interaction with audience through Questions & Answers to be coordinated by Dr G L Jadhav

10	3:15	Dr G L Jadhav will welcome Prof Rajinder Moudgil and request Ms Anushka Palandurkar (Student of B Sc Sem IV) to introduce the guest with the audience. <b>Ms Anushka will call the Guest Speaker to deliver his talk.</b>
11	3:17-4:05	Prof Rajinder Moudgil on the topic <b>Bose-Einstein Condensation: Prediction and Realization</b>
12	4:05-4:15	Interaction with audience through Questions & Answers to be coordinated by Dr G L Jadhav
13	4:15	Dr G L Jadhav will welcome Prof P K Ahluwalia and will request Prof R M Shewale (President RC-08) to introduce the speaker with the audience. <b>Dr R M Shewale will call the Guest Speaker to deliver his talk.</b>
14	4:17-5:00	Prof P K Ahluwalia on the topic <b>Respected Master: Albert Einstein - A Life from Physics</b>
15	5:00-5:10	Interaction with audience through Questions & Answers to be coordinated by Dr G L Jadhav. <b>Link of Quiz will be circulated now – to be announced</b>
16	5:10	Dr G L Jadhav will call Dr Halim Ahamad for Vote of thanks (Overall coverage) <b>Link of Quiz will be circulated now – to be announced</b>

**NOTE:** For usage of the same Zoom platform is reserved for another programme we all are constrained to follow the timeline and finish our programme by 5:15 pm.



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9422122711

**Dr G. Lakhotiya**  
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9765583480

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Secretary RC-08  
98906 94409

**Mr. S. J. Patil**  
Treasurer RC-08  
98507 85615

Ref No.: CORR/2024/GEN/012

Date: 06/02/2024

Prof. M P Dhore  
Principal,  
Shri Shivaji Education Society Amravati's  
Science College, Congress Nagar  
NAGPUR

**Sub: Letter of Appreciation for accepting your invitation and guidance**

Dear Prof. Dhore,

I hope this letter finds you well. I am writing to extend my heartfelt appreciation to you for graciously accepting our invitation to participate as the **Guest of Honour** in the **one-day National Seminar** conducted online on the topic of "**S N Bose Life & Work**" on 27th January 2024. Your presence and guidance added immense value to the seminar, making it a truly enriching experience for all the participants.

Your insights and expertise in the field were instrumental in enriching the discussions and providing valuable perspectives. Your commitment to education and dedication to fostering academic excellence were evident throughout the seminar, inspiring both students and fellow educators alike.

We are deeply grateful for your willingness to share your knowledge and experiences with us, and for your unwavering support towards the success of the seminar. Your presence as the Guest of Honour elevated the event and contributed significantly to its overall success.

Once again, thank you for your invaluable contribution and for being an integral part of this memorable event. We look forward to the opportunity of collaborating with you again in the future.

Warm regards,

(SHYAMKANT ANWANE)



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**Mr. S. J. Patil**  
Treasurer RC-08  
98507 85615

Ref No.: CORR/2024/GEN/013

Date: 06/02/2024

To,  
Prof. R M Shewale President  
Indian Association of Physics Teachers (IAPT)  
Maharashtra Regional Council (RC-08)

Dear Prof. R M Shewale,

I am writing to express my sincere appreciation for your valuable contribution to the one-day National Seminar on "S N Bose: Life & Work" which was conducted online on January 27th, 2024. Your participation as the President of the Indian Association of Physics Teachers (IAPT) Maharashtra Regional Council (RC-08) and your introduction of the importance and need of SRC-08 E in the **Installation Ceremony** were instrumental in making the event a success.

Your dedication to promoting excellence in physics education and fostering a collaborative academic community was evident in your address during the Installation Ceremony. Your insights into the significance of SRC-08 E and its role in enhancing physics education in Maharashtra provided valuable context for all participants.

On behalf of the organizing committee and all the attendees, I would like to extend our heartfelt gratitude for your contribution to the seminar. Your leadership and commitment to advancing physics education are truly commendable, and we are grateful for your ongoing support.

We look forward to the continued collaboration and participation of IAPT Maharashtra Regional Council (RC-08) in future events, as we work together to promote excellence in physics education and research.

Once again, thank you for your presence, dedication and valuable contributions to the seminar.

With warm regards and deepest appreciation,

(SHYAMKANT ANWANE)



# Indian Association of Physics Teachers

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**Sub-Regional Council of Maharashtra SRC-08 E (Vidarbha)**

<b>Prof S. W. Anwane</b>	<b>Dr G. Lakhotiya</b>	<b>Dr Halim Ahamad</b>	<b>Dr G. L. Jadhav</b>
<i>President</i>	<i>Vice-President</i>	<i>Secretary</i>	<i>Treasurer</i>
9422122711	9579194076	9372233844	9765583480

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94239 16066

**Dr. Lata D. Jadhav**  
Secretary RC-08  
98906 94409

**Mr. S. J. Patil**  
Treasurer RC-08  
98507 85615

Ref No.: CORR/2024/GEN/010

Date: 06/02/2024

Prof. Sreerup Raychaudhuri  
Tata Institute of Fundamental Research (TIFR)  
Mumbai, India

### Sub: Letter of Appreciation for accepting your invitation and guidance

Dear Prof. Sreerup Raychaudhuri,

I hope this letter finds you in good health and high spirits. I am writing to extend my heartfelt gratitude to you for accepting our invitation to be a resource person at the one-day National Seminar on "S N Bose: Life & Work" held online on January 27th, 2024. Your participation and insightful lecture greatly enriched the seminar and contributed immensely to its success.

Your profound understanding and expertise on the life and work of Satyendra Nath Bose were evident throughout your presentation. The depth of your knowledge, coupled with your engaging delivery style, captivated the audience and provided them with a comprehensive understanding of Bose's contributions to the field of physics. Your ability to elucidate complex concepts in a clear and accessible manner truly impressed everyone in attendance.

Moreover, your willingness to share your time and expertise with us reflects your commitment to the advancement of knowledge and the promotion of academic discourse. Your presence elevated the caliber of the seminar, and your contributions will undoubtedly inspire and motivate the participants to delve deeper into the legacy of S N Bose.

On behalf of the organizing committee and all the participants, I would like to express our sincere appreciation for your invaluable contribution to the seminar. Your involvement played a pivotal role in making the event a resounding success, and we are truly grateful for your support.

Once again, thank you for your exceptional lecture and for generously sharing your expertise with us. We look forward to the opportunity of welcoming you to future events and continuing our collaboration in the pursuit of academic excellence.

With warm regards and deepest appreciation,

(SHYAMKANT ANWANE)



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98906 94409

**Mr. S. J. Patil**  
Treasurer RC-08  
98507 85615

Ref No.: CORR/2024/GEN/011

Date: 06/02/2024

Prof. Rajinder Moudgil  
Kurukshetra University  
Kurukshetra, Haryana, India

### Sub: Letter of Appreciation for accepting your invitation and guidance

Dear Prof. Rajinder Moudgil,  
I hope this letter finds you well. I am writing to extend my sincere gratitude to you for accepting our invitation to be a resource person at the one-day National Seminar on "S N Bose: Life & Work" which was conducted online on January 27th, 2024. Your participation and enlightening lecture on "Bose-Einstein Condensation: Prediction and Realization" were truly invaluable to the success of the seminar.

Your expertise and passion for the subject matter were evident throughout your presentation. Your elucidation of "**Bose-Einstein Condensation: Prediction, and Realization**" provided the audience with a profound understanding of this groundbreaking concept in physics. Your ability to communicate complex ideas with clarity and enthusiasm captivated the participants and left a lasting impression on all who attended.

Furthermore, your willingness to share your knowledge and insights with us reflects your dedication to advancing academic discourse and promoting scientific inquiry. Your contribution greatly enriched the seminar and fostered a stimulating environment for intellectual exchange and learning.

On behalf of the organizing committee and all the participants, I would like to express our heartfelt appreciation for your exceptional lecture and for your invaluable contribution to the success of the seminar. Your participation played a pivotal role in making the event a resounding success, and we are deeply grateful for your support.

We hope that this seminar marks the beginning of a fruitful collaboration and that we may have the pleasure of welcoming you to future events. Your continued engagement and expertise will undoubtedly inspire and enrich our academic community.

Once again, thank you for your outstanding lecture and for generously sharing your knowledge with us. We look forward to the opportunity of working with you again in the future.

With warm regards and deepest appreciation,

(SHYAMKANT ANWANE)





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Treasurer RC-08  
98507 85615

Ref No.: CORR/2024/GEN/012

Date: 06/02/2024

To,  
Prof. P K Ahluwalia  
President, Indian Association of Physics Teachers (IAPT)  
Professor, Himachal Pradesh University, Shimla

### Sub: Letter of Appreciation

Dear Prof. P K Ahluwalia,

I hope this letter finds you in good health and spirits. I am writing to express my sincere appreciation for your invaluable contribution (conception to execution) to the success of the one-day National Seminar on "S N Bose: Life & Work" which was conducted online on January 27th, 2024. Your participation as a resource person and your enlightening lecture on "Respected Master: Albert Einstein – A Life from Physics" were truly exceptional and greatly enriched the seminar.

Your profound knowledge and expertise in the field of physics, coupled with your captivating delivery, provided the audience with a deeper understanding and appreciation of Albert Einstein's life and contributions to physics. Your ability to elucidate complex concepts with clarity and enthusiasm left a lasting impression on all who attended the seminar.

Furthermore, I would like to extend my heartfelt gratitude for your role as the President of the Indian Association of Physics Teachers (IAPT) in installing the SRC-08 E. Your leadership and dedication have been instrumental in promoting excellence in physics education and fostering a vibrant academic community.

On behalf of the organizing committee and all the participants, I would like to express our deepest gratitude for your exemplary contribution to the seminar and your ongoing commitment to advancing physics education. Your participation was instrumental in making the event a resounding success, and we are truly grateful for your support.




We look forward to the opportunity of welcoming you to future events and continuing our collaboration in the pursuit of academic excellence.

Once again, thank you for your outstanding lecture and for generously sharing your knowledge and insights with us. Your dedication and leadership serve as an inspiration to us all.

With warm regards and deepest appreciation,


(SHYAMKANT ANWANE)


## Chat Recorded during the deliberations on 27<sup>th</sup> January 2024





**Indian Association of Physics Teachers**  
Sub Regional Council of Maharashtra (Vidarbha) SRC-08 E  
**One DAY National Seminar on**  
**Life & Work of S N Bose**  
Inviting UG, PG Students and Teachers  
**27th January 2024 2:00 pm onwards**  
Followed by a Quiz on the topic of Seminar

**ONLINE**


**Guest of Honor**  
  
**Prof. Mahendra Dhole**  
Principal  
Shri Shivaji Education Society Amravati's  
Science College, Nagpur


**Guest Speaker**  
  
**Prof. Sreerup Raychaudhuri**  
Senior Professor  
TIFR, Mumbai

**Guest Speaker**  
  
**Dr Rajinder Moudgil**  
Professor at Kurukshetra University  
Kurukshetra

**Guest Speaker**  
  
**Prof P K Ahluwalia**  
President IAPT  
Professor at Himachal Pradesh University

**Zoom Meeting ID: 859 5199 1380**      **Passcode: 755511**

**Organized by :**  Sub Regional Council of Maharashtra (Vidarbha) SRC-08 E  
Department of Physics,  
Shri Shivaji Education Society Amravati's  
SCIENCE COLLEGE, Nagpur



14:13:55 From Dr V RENGANAYAKI : Good afternoon Sir, I'm Dr V RENGANAYAKI, from IAPT RC-13. Congratulations to organizers

14:15:17 From Dr V RENGANAYAKI : Happy to collaborate with you sir, Dr S W Anwane, and organize the online quiz on life and works of S N Bose.

14:15:31 From Ravindra Limaye : hearty congratulations to newly established sub RC Vidarbha of IAPT

14:15:44 From Dr Abha Khandelwal : Thanks a lot on behalf of RC08E

14:18:44 From Rekha Ghorpade : My Best wishes to Team Sub-RC 08 E(Vidarbha).

14:19:01 From P C Deshmukh : Heartiest congratulations to RC08E.

14:19:52 From P C Deshmukh : As someone who had my entire education at Nagpur, I have a sense of belonging to RC08E.

14:20:01 From Dr.S.S.DAROKAR : Congratulation to newly established sub RC Vidarbha of IAPT

14:28:58 From Dr. K G Bhole Mumbai SC08b : Congratulations to team of sub RC 08E Vidarbha of IAPT. Expect full cooperation and participation in all activities of IAPT.



15:30:43 From Mi A3 : Can we take a break of 5 minutes?!! Great Presentation! Thank you!!

15:38:48 From P C Deshmukh : Amazing talk, dear Professor Sreerup! This talk must reach every physicist all over the world!

15:39:08 From Janavi Raut : Reacted to Amazing talk, dear P... with "👍"

15:39:53 From Nikhil : Reacted to Amazing talk, dear P... with "👍"

15:39:58 From PK AHLUWALIA : Mesmerising talk.

15:40:31 From Dr.Sachinrao V Mukhamale : excellent talk

15:41:22 From Rekha Ghorpade : Thank you Dr. Sreerup for a wonderful talk.

15:41:52 From Sreerup : Thank you, sirs. Glad you enjoyed it. Hope I have been able to bring forward some things which are not so well known about the great S.N. Bose. It was a pleasure to share all this with you.

15:42:39 From Yugansh Kanoje : Sir what are the precise mechanisms underlying quantum phase transitions in BECs?

15:43:19 From Dr. S W Anwane : Thank you Dr. Sreerup for such a wonderful talk and insight in to life of S N Bose.

15:44:12 From Dr R M Shewale: Excellent talk sir. We r very much delighted after going thru Prof S N Bose life Journey.

15:45:11 From Dr. Halim Ahamad, Physics, St. Francis De Sales College, Nagpur : Excellent detailed talk Sreerup Sir!

15:45:29 From P C Deshmukh : I have been urging the IAPT to write to the IUPAP and re-designate 'h' as the PEB (Planck-Einstein-Bose) constant. Professor Sreerup organized the rationale for this systematically and thoroughly. It is well-known that Planck himself struggled with his hypothesis. I urge IAPT to take formal steps to write to the IUPAP.

15:45:56 From Ravindra Limaye : Thanks to Dr sreerup for a wonderful talk on life and work of S N Bose

15:47:14 From P C Deshmukh : Also, the American Physical Society has asked for nominations for Historical Heritage Sites. The last date for this is 31st January. I urge IAPT to propose the Calcutta University and the Dhaka Universities to be named as heritage sites.

15:48:51 From PK AHLUWALIA : Prof. Moudgil please go in slide show mode.

15:50:48 From ZIYA JAHAGIRDAR : We are unable to view your screen

15:54:51 From Ravindra Limaye : Now ok

16:22:11 From Dr. Gajanan Jadhav : Note: Dear Participant, At the end of the program a feedback form link will be provided in the chat-box from which you will get a certificate of participation and a quiz link will also be provided for which participants will get a separate certificate for it.

16:34:07 From Dr. Gajanan Jadhav : Thank you so much Sreerup sir for having such a wonderful talk!

16:50:42 From Vandna Luthra : Very insightful talks. Thanks

16:50:47 From Dr V RENGANAYAKI : Wonderful presentation by Dr Sreerup sir on Life and works of S N Bose. Informative session on Bose Einstein condensation by Prof Moudgil. Thank you sir

16:51:12 From Radhika Deshmukh : Nice presentation

16:51:53 From P C Deshmukh : Excellent talk, Professor Moudgil. Thank you.

16:52:49 From motorola moto g73 5G : My query is what is difference between Bose condensate and superconducting state

16:53:57 From PK AHLUWALIA : Excellent exposition of a very difficult topic by Prof. Moudgil.

16:55:05 From Sreerup : Very lucid and illuminating talk. Thank you Prof. Moudgil.

16:55:26 From Dr Abha Khandelwal : Superb presentation Dr Sreerup sir on the Life and works of Sir S N Bose. Amazing Session on Bose-Einstein condensation Prof R K Moudgil sir.

16:56:25 From ZIYA JAHAGIRDAR : Is there any application of BEC

16:56:31 From Rekha Ghorpade : Very lucid presentation. Thank you Dr. Moudgil.

16:56:34 From ZIYA JAHAGIRDAR : To understand it better

16:58:11 From Dr. S W Anwane : <https://forms.gle/4JhGUKBZeYMu6t558>  
Certificate of Participation in National One Day Seminar

<https://forms.gle/yvFHC7tSXygasDhV6>  
QUIZ

17:00:47 From Dr. Gajanan Jadhav : Very true!

17:01:56 From Dr V RENGANAYAKI : Thank you sir, happy to collaborate with IAPT SRC 08 E and organise online quiz on Life and works of S N Bose.

17:03:46 From Dr V RENGANAYAKI : Thank you IAPT President Prof.Ahluwaliah to organize such seminar in association with IAPT SRC 08 E

17:04:59 From Sreerup : Such interactions between TIFR and physics teachers across the country was a dream of our founder Dr. Homi Bhabha. If he could see us from somewhere, he would be very pleased.

17:08:22 From R K Moudgil : Thanks everyone!

17:10:20 From Dr. K. Annapoorani : thank you sir. Excellent Session sir. Thanks to Organizing team.

17:10:36 From Dr. S W Anwane : <https://forms.gle/4JhGUKBZeYMu6t558>  
Certificate of Participation in National One Day Seminar



<https://forms.gle/yvFHC7tSXygasDhV6>  
QUIZ

17:14:14 From ZIYA JAHAGIRDAR : I Have a question!...

17:14:59 From Uthra Dorairajan : Thank you all and happy to collaborate

17:15:06 From PK AHLUWALIA : Thank you Uthra for the Quiz

## Chat Recorded during the deliberations on 29<sup>th</sup> January 2024



### Indian Association of Physics Teachers

Sub Regional Council of Maharashtra (Vidarbha) SRC-08 E


One DAY National Seminar on

## Life & Work of S N Bose

Inviting UG, PG Students and Teachers


Re-scheduled extension

29th January 2024 3:00 pm



The talk originally scheduled on 27th January 2024 has been rescheduled on **29th of January 2024 at 3:00 PM**. This event serves as an extension of the **One Day Seminar** on the **Life & Work of S N Bose**. We are delighted to announce that Prof. P K Ahluwalia, a distinguished researcher in Condensed Matter Physics and a Professor at Himachal Pradesh University, who also holds the position of National President of IAPT, has graciously agreed to deliver his talk titled "Respected Master: Albert Einstein - A Life from Physics."


**Guest Speaker**



Prof P K Ahluwalia  
President IAPT  
Professor at Himachal Pradesh University


**Zoom Meeting ID: 869 0377 5173**      **Passcode: 815889**

Organized by :



Sub Regional Council of Maharashtra (Vidarbha) SRC-08 E

Department of Physics,  
Shri Shivaji Education Society Amravati's  
SCIENCE COLLEGE, Nagpur



- 15:09:22 From Chhaganlal Rajput : Nutan Highschool Dahiwad Tal Shirpur Dist Dhule Good afternoon Sirji
- 15:17:17 From Dr. K G Bhole Mumbai SC08b : make him cohost
- 15:24:13 From Dr.Prakash Durugkar : Good afternoon to all
- 15:26:34 From Dr. S W Anwane : At the end before closing we shall circulate Feedback form that will provide you participation certificate.
- 15:26:47 From Stuti Karotiya : Reacted to At the end before cl... with "👍"
- 15:26:52 From Vedanti Doble : Reacted to At the end before cl... with "👍"
- 15:26:58 From Stuti Karotiya : Reacted to At the end before cl... with "👍"
- 15:27:00 From Sakshi Nale : Reacted to At the end before cl... with "👍"
- 15:27:02 From Jay Shende : Reacted to At the end before cl... with "👍"
- 15:27:07 From Sakshi Nale : Removed a 👍 reaction from "At the end before cl..."

15:33:45 From Sakshi Raut : Reacted to At the end before cl... with "👍"

**16:03:47 From Shrivatsa pitale : Violin**

16:15:59 From P C Deshmukh : Brilliant talk; thank you very much Professor Ahluwalia Ji !  
Excellent coverage of a great life - not easy! Your talk was brilliant!

16:16:44 From Dr Abha Khandelwal : Very Interesting Talk

16:17:08 From Luxmi Kant Sharma : Very informative session.

16:17:10 From Kishorchandra Rewatkar : Great talk by professor

16:17:27 From Dr. Sheojee Singh : Inspiring talk, Sir!

16:17:45 From Shrivatsa pitale : Sir I have a question

16:18:23 From Xiaomi 2201117PI : Inspiring talk, sir

16:18:34 From Shrivatsa pitale : Sir, what is the physical significance of momentum?

16:21:45 From Dr. K G Bhole Mumbai SC08b : "Imagine, there would not have been an interaction between Einstein and Bose. It was Einstein, who helped Bose to come to limelight" Is it true?

16:23:51 From Dr. S W Anwane : <https://forms.gle/4JhGUKBZeYMu6t558>

Certificate of Participation in National One Day Seminar

<https://forms.gle/yvFHC7tSXygasDhV6>

QUIZ

16:24:10 From Dr. S W Anwane : Quiz and Feedback for CERTIFICATE

16:24:53 From Dr. K G Bhole Mumbai SC08b : True sirji, Thanks

16:35:21 From Tanushka Kadu : Thank you sir it was great!!

16:35:33 From Jayshree Yadav : Thank you so much sir

# YouTube Links

<https://youtu.be/SbdHTwbpk50>

Day 1: 27<sup>th</sup> Jan 2024

## **One DAY National Seminar on "Life & Work of S N Bose" by IAPT SRC-08 E**

Satyendra Nath Bose – Fellow of Royal Society (1 January 1894 – 4 February 1974) was an Indian mathematician and physicist specializing in theoretical physics, best known for his work on quantum mechanics developing the foundation for Bose–Einstein statistics. To commemorate his birth anniversary and launch the Sub Regional Council of Maharashtra for VIDRBHA, online one day National Seminar of Life & Work of Bose and Einstein on 27th January 2024.

Day 2: 29<sup>th</sup> Jan 2024

## **One DAY National Seminar on "Life & Work of S N Bose" by IAPT SRC-08 E**

<https://youtu.be/Fj0Lf0pkFeg>

The talk originally scheduled on 27th Jan 2024 was rescheduled to the 29th of January 2024 at 3:00 PM. This event serves as an extension of the One Day Seminar on the Life & Work of S N Bose. We are delighted to announce that Prof. P K Ahluwalia, a distinguished researcher in Condensed Matter Physics and a Professor at Himachal Pradesh University, who also holds the position of National President of IAPT, has graciously agreed to deliver his talk titled "Respected Master: Albert Einstein – A Life from Physics." Satyendra Nath Bose – Fellow of Royal Society (1 January 1894 – 4 February 1974) was an Indian mathematician and physicist specializing in theoretical physics, best known for his work on quantum mechanics developing the foundation for Bose–Einstein statistics. To commemorate his birth anniversary and launch the Sub Regional Council of Maharashtra for VIDRBHA, online one day National Seminar of Life & Work of Bose and Einstein on 27th January 2024.





# Indian Association of Physics Teachers

&

Shri Shivaji Education Society Amravati's

**SCIENCE COLLEGE**

**Department of Physics**

In honor of birth anniversary of Satyendra Nath Bose (1/1/1894), the Sub-regional Council of Maharashtra for VIDARBHA is organizing a one-day National Seminar on the Life & Work of Bose and Einstein.

## CERTIFICATE

This certificate declares that

**Dr Arvind Gopal Kulkarni**

Research Scholar, Learning Developers



has attended One Day National Seminar On

**"LIFE & WORK OF S.N. BOSE"** on dated 27<sup>th</sup> January 2024

Dr. Halim Ahamad  
Secretary SRC-o8E

Prof. S. W. Anwane  
President SRC-o8E  
Head, Dept. of Physics  
Science College Nagpur

Prof. M. P. Dhore  
Principal  
Science College Nagpur

Prof. R. M. Shewale  
President RC-o8



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## CERTIFICATE

This certificate declares that

# Dr. Pranawa Chakradhar Deshmukh

Faculty, IIT Tirupati



has attended One Day National Seminar On

## "LIFE & WORK OF S.N. BOSE"

 on dated 27<sup>th</sup> January 2024

Dr. Halim Ahamad  
Secretary SRC-o8E

Prof. S. W. Anwane  
President SRC-o8E  
Head, Dept. of Physics  
Science College Nagpur

Prof. M. P. Dhore  
Principal  
Science College Nagpur

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## CERTIFICATE

This certificate declares that

**Dr R M Shewale**

Faculty, Jai Hind Edl Trust's Z B Patil College Dhule



has attended One Day National Seminar On

**"LIFE & WORK OF S.N. BOSE"** on dated 27<sup>th</sup> January 2024

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Secretary SRC-o8E

Prof. S. W. Anwane  
President SRC-o8E  
Head, Dept. of Physics  
Science College Nagpur

Prof. M. P. Dhore  
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## CERTIFICATE

This certificate declares that

**Prof S W Anwane**

Faculty, SSES's Science College Nagpur



has attended One Day National Seminar On

**"LIFE & WORK OF S.N. BOSE"** on dated 27<sup>th</sup> January 2024

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Science College Nagpur

Prof. M. P. Dhore  
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Science College Nagpur

Prof. R. M. Shewale  
President RC-o8



# Indian Association of Physics Teachers

Registered under section XXI of Societies Act 1860, Reg. No. K-1448

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*Vice-President*  
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Date: 18/01/2024

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Dr. Lata D. Jadhav  
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98906 94409

Mr. S. J. Patil  
Treasurer RC-08  
98507 85615

## NOTICE for Virtual Science Talk

All the members of IAPT, students undergoing UG and PG programmes in the country are hereby informed that **Prof Sreerup Raichoudhary**, a **Senior Professor** with TIFR (Tata Institute of Fundamental Research) Mumbai has kindly consented to deliver the lecture on **S N BOSE - LIFE AND WORK** being hosted by Sub-Regional Council of MAHARASHTRA (Vidarbha) SRC 08 E. An Indian mathematician and physicist specializing in theoretical physics **Satyendra Nath Bose** (popularly known as Satyen Bose) was born on 1st January 1894. To commemorate his birth anniversary, SRC-08 E is organizing lecture **S N BOSE - LIFE AND WORK** who is known as father of quantum statistics for his discovery of Bose Einstein Statistics.

The login details of his online scheduled lecture on 27th January 2024 Saturday at 2:00 p.m. will be announced soon.

S W ANWANE  
*President, SRC-08 E, IAPT*