



Shri Shivaji Education Society Amravati's
SCIENCE COLLEGE



Congress Nagar, Nagpur- 12 (MS)

Reassessed with A+ Grade with CGPA 3.51 by NAAC, Bangalore
College with Potential for Excellence identified by UGC New Delhi

Institutional Member of APQN

Recognized Centre for Higher Learning and Research

Mentor College under Paramarsh Scheme

An ISO 21001:2018 Certified Institution, NIRF ranking (HRD Ministry) 201-300

24-12-2024

Invitation

Guest Lecture by our esteemed alumnus

Topic: Utilising Rich Astronomy Archives

by

Dr. Ashish Mahabal

Deputy Director, Centre for Data Driven Discovery
California Institute of Technology (Caltech) Pasadena, USA

In Association with

Sub Regional Council for Vidarbha SRC-08E

Indian Association of Physics Teachers

Faculty members of Physics & Mathematics are invited.

Date-26 Dec. 2024

Time- 3.00 PM

Venue- C4 Classroom

Dr. S. W. Anwane

Head, Department of Physics

Dr. O. S. Deshmukh

Principal

Shri Shivaji Education Society Amravati's
Science College, Congress Nagar Nagpur

Department of Physics
Report on Guest Lecture
Shivaji Science College, Nagpur, in Association with IAPT SRC-08E (Vidarbha),
Organized a Guest Lecture on "*Utilizing Rich Astronomy Archives*"

Date: 26/12/2024

Venue: C4, Dept. of Physics, Science College, Nagpur.

Time: 3:00 pm

Nagpur, December 26, 2024: The Physics Society of Shri Shivaji Science College, Nagpur, in collaboration with the Indian Association of Physics Teachers (IAPT) SRC-08E, organized an enlightening guest lecture on "Utilizing Rich Astronomy Archives." The event featured an inspiring session by Dr. Ashish Mahabal, Deputy Director of the Center for Data-Driven Discovery at Caltech and an alumnus of Shri Shivaji Science College.

The program was presided over by Principal Dr. O.S. Deshmukh, with Prof. P.K. Ahluwalia, President of IAPT Central Council, gracing the occasion as the Chief Guest. Prof. S.W. Anwane, Head of the Department of Physics, delivered the welcome and introductory address, setting the tone for the event. The event also saw the presence of distinguished faculty members, including Prof. Sapre, Prof. Kamal Singh, Prof. Darokar, and Prof. Khasare.

Dr. Mahabal's lecture covered a wide range of topics in astronomy, exploring the solar system, stars, galaxies, and cosmology. He outlined the transformative journey of astronomy, emphasizing the shift from focused observations to survey-based research. He highlighted how advancements in technology, including the internet, modern cameras, and computational tools, have revolutionized data collection and analysis in the field.

A significant highlight of the lecture was Dr. Mahabal's insights into the vast potential of astronomy archives, such as the Zwicky Transient Facility (ZTF) at Caltech. He demonstrated how these archives serve as invaluable resources for studying cosmic phenomena and emphasized the role of machine learning (ML) and artificial intelligence (AI) in defining and solving complex astronomical problems. Dr. Mahabal also introduced the ZARTH outreach program, which aims to make astronomy accessible to the masses, sparking interest and engagement in the field.


The lecture was widely appreciated by students and faculty for its depth and relevance. In his presidential address, Dr. O.S. Deshmukh commended Dr. Mahabal's achievements and his inspiring contribution to the field of astronomy. Prof. P.K. Ahluwalia provided a summary and special remarks, praising the way Dr. Mahabal connected complex scientific concepts to practical applications, making them accessible and engaging for all.


Dr. Gajanan Jadhav conducted the proceedings as the Master of Ceremony, ensuring the event's smooth flow. Dr. S.V. Khangar delivered the vote of thanks, expressing gratitude to Dr. Mahabal and all attendees. The online coordination of the session was efficiently managed by Dr. Govinda Lakhotiya, along with Mr. B.T. Kumbhare, during this program all the faculty members Dr. Ragini Pathare, Dr. Shahin Sayyad, and Mr. Parag Bramhankar were present for the guest lecture.

The session concluded with a sense of pride and gratitude as the audience reflected on Dr. Mahabal's inspiring journey from a student at Shri Shivaji Science College to a global leader in astronomy. His return to his alma mater as a mentor encouraged students and faculty alike to explore the vast universe of opportunities in astronomy.

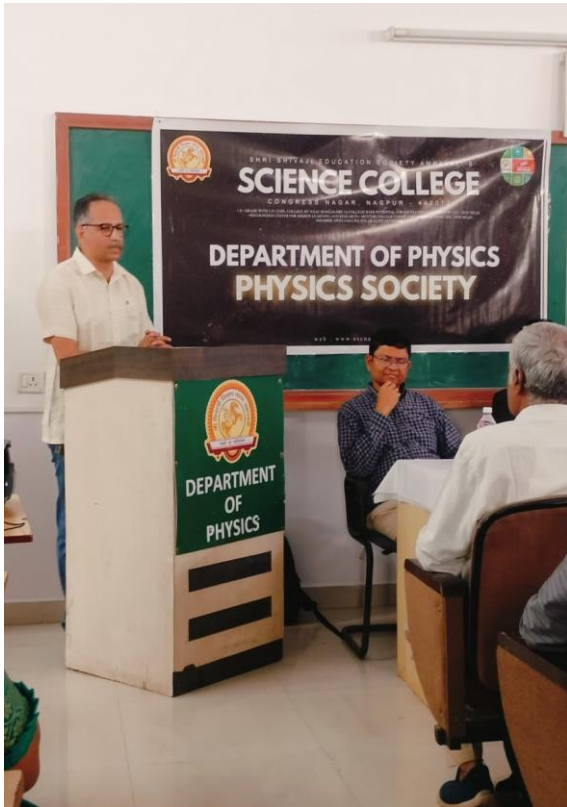
This event marks another milestone for Shri Shivaji Science College and IAPT SRC-08E, reaffirming their dedication to fostering scientific curiosity and excellence in education.

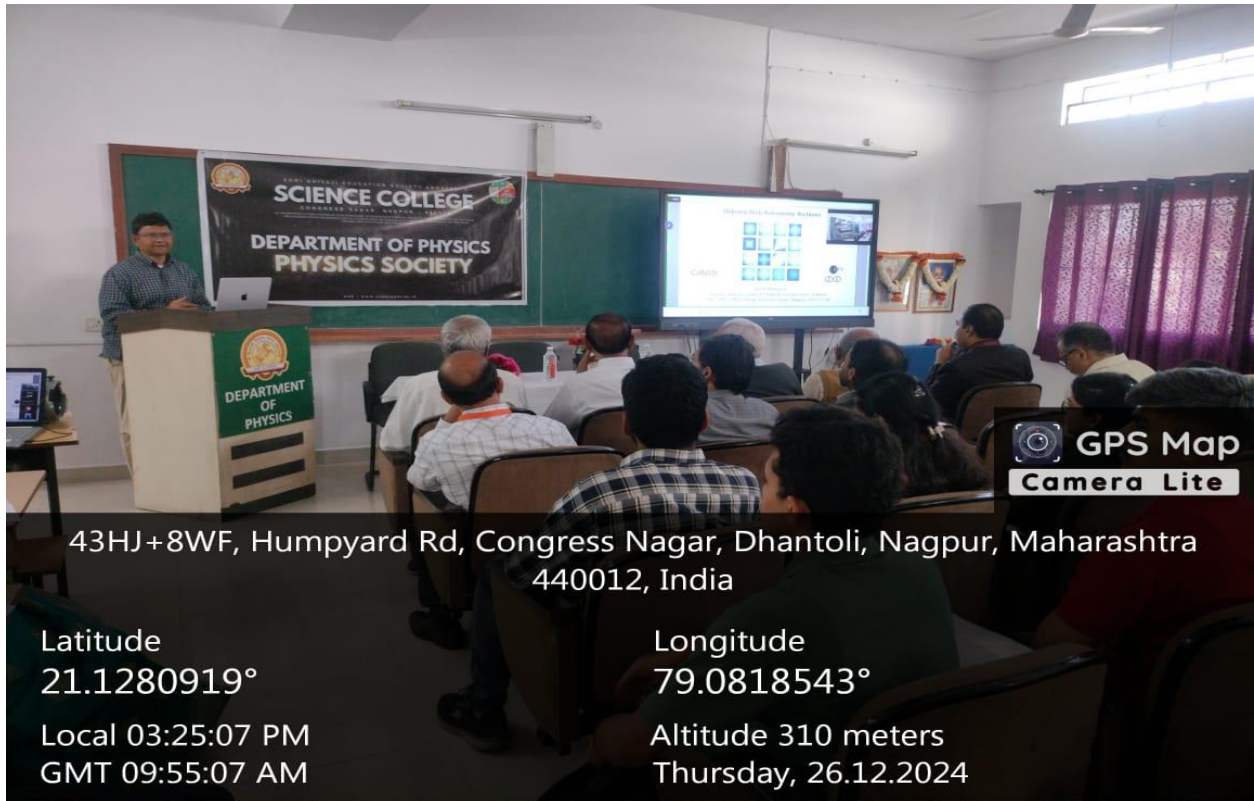
Action Taken Report: An interactive and impactful Guest lecture of Dr. Ashish Mahabal, Deputy Director of the Center for Data-Driven Discovery at Caltech and an alumnus of Shri Shivaji Science College on "*Utilizing Rich Astronomy Archives*" organized by Physics Society, Shivaji Science College, Congress Nagar, Nagpur in Association with IAPT SRC-08E (Vidarbha) on 26 December 2024 at 3: 00 pm in the Department. Total 65 students and staff participated in this program while 20 online IAPT members were virtually present that include prominent figures (i) Dr P K Ahluwalia, Central President IAPT - SHIMLA (ii) Dr Mrs Rekha Ghorpade Central Secretary IAPT – MUMBAI (iii) Dr A G Kulkarni BANGALORE (iv) Dr Reshma Desai, (v) Dr Vandana Luthra Principal Gargi College DELHI (vi) Dr Mahesh Shetti Wilson College, MUMBAI etc.


Dr S V KHANGAR
Dr. S. V. Khangar
Assistant Professor
Department of Physics
Shivaji Education Society Amravati's
Science College
Congress Nagar, Nagpur-440011


Dr S W ANWANE
Dr. S. W. Anwane
Professor and Head
Department of Physics
Shri Shivaji Education Society Amravati's
SCIENCE COLLEGE
Congress Nagar, Nagpur.

Glimpses:









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

PHYSICS SOCIETY

Topic Name: Utilising Rich Astronomy Archives

Attendance Sheet

Date : 26/12/2024

Time : 3:00 pm

Sr. No.	Name	Signature
1	Dr. S. S. Darokar	
2	Dr. Kamal Singh	
3	Dr. Vihar B. Sambre	
4	S. B. Khasare	
5	M. A. Padalkar	
6	Dr. Tameez Quazi	
7	Shamant Padalkar	
8	Amitkumar Pandey	
9	Rahul Ranje	
10	W. Viplov G. Nholke	
11	Mandar C. Sutarhe	
12	Pranav Ukey [BSC-II nd]	
13	Kaushal Bilkas [BSC study - PEM]	
14	Ayush. Bhasagade [BSC II nd yr]	
15	Bhumi Mahajan. [BSC II nd yr]	
16	Bhumi Pawar [BSC II nd yr]	
17	Aditya Sonekar [BSC II nd yr]	
18	Priya Singh [BSC II nd yr]	
19	Vrudh Bondre [3 rd grade]	
20	Vedang. Gotmare (Bsch. III rd yr)	
21)	Pratik Joga stream VVIT BSC (CBZ) 1 st yr.	
22)	Vrudh Niranjane (Bsc-III rd yr)	

Sr. No.	Name	Signature
21	Mohit O. Dhondale	
22	Aishwarya P. Mendwade	
23	Avani Kale	
24	Malhar Kedar	
25	Shreuti G. Mehar	
26	Vidya O. Manmode	
27	Anjali M. Neware	
28	Twinkle B. Madavi	
29	Prachi G. Nandanwar.	
30	Sahil J. Mendhe	
31	Sanket R. Mathankar	
32	Rhushi Abhadasingh Rajput	
33	Pratiksha Rajesh Rumbhe	
34	Priyanka R. Kulsange	
35	Aakash A. Pawar	
36	Siddhesh B. Nemad.	
37	Ritik R. Raut	
38	Kranthivarya D. Wankhe	
39	Taniya M. Upet	
40	Selina A. Shenole	
41	Mojit M. Sahare	
42	Anisha A. Tiwari	
43	Reetika R. Ukey	
44	Divya V. Wathkar	
45	Sanika G. Varpatkare	
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**Shri Shivaji Education Society Amaravati's
Science College Congress Nagar, Nagpur**

Department of Physics

Guest Lecture

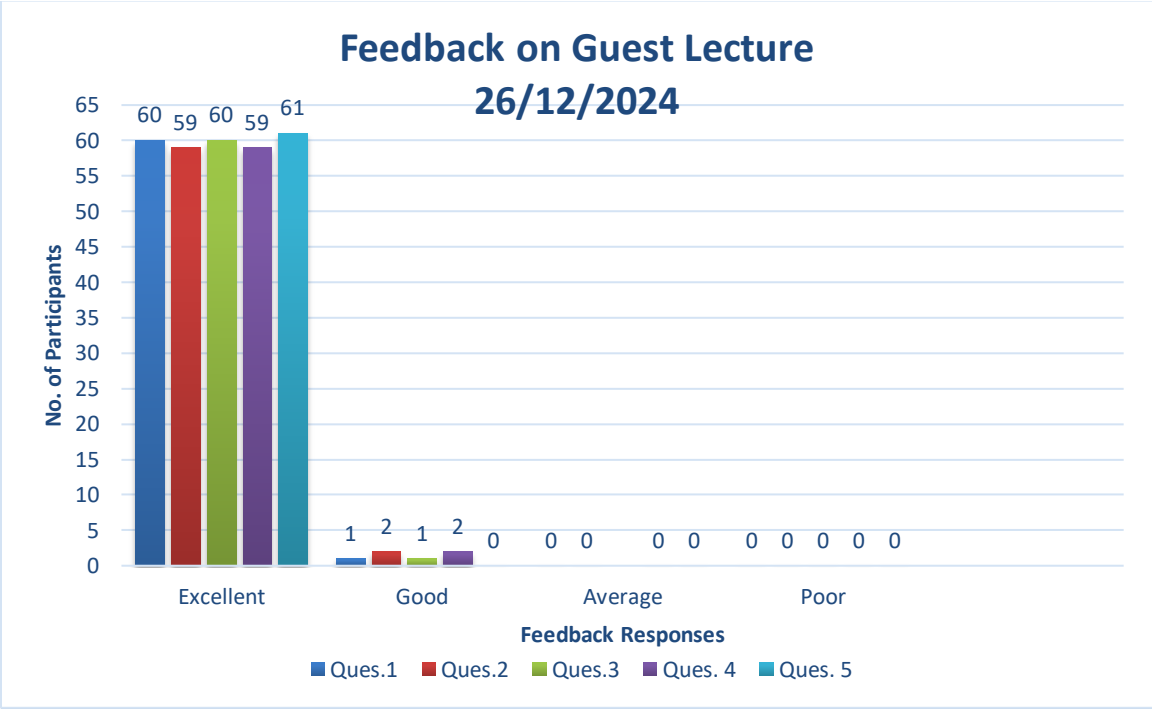
“Utilizing Rich Astronomy Archives”

Date: 26/12/2024

Feedback Form

Name : _____

- 1) How would you rate the guest speaker's knowledge on the subject?
 - Excellent
 - Good
 - Fair
 - Poor
- 2) How would you rate the guest speaker's presentation style?
 - Excellent
 - Good
 - Average
 - Poor
- 3) How relevant was the content to your course or field of study?
 - Extremely
 - Mostly
 - Somewhat
 - Neutral
- 4) How satisfied were you with the guest lecture overall?
 - Excellent
 - Good
 - Fair
 - Poor
- 5) How would you rate the speaker's ability to engage and interact with the audience?
 - Excellent
 - Good
 - Average
 - Poor



Physics Society, Science College, Nagpur

in association with

Indian Association of Physics Teachers (IAPT) SRC 08E (Vidarbha)

Guest Lecture by our esteemed alumnus on

Utilising Rich Astronomy Archives

Date: 26/12/2024

Venue: C4, Dept of Physics, Science College, Nagpur

Table Program

Arrivals of Guests	2:55 pm
Lighting of Lamp	3:00 pm
Welcome of Guest and Principal	3:05 pm
Introductory Speech: Hon'ble Prof. S. W. Anwane HOD of Physics Dept & President, IAPT SRC-08E	3:10 pm
Introduction of Speaker Dr Ashish Mahabal by B.Sc. Final Year Student Ms Aishwary Mendwade-President of Physics Society	
Address by Chief Guest: Hon'ble Dr. Ashish Mahabal Deputy Director, Centre for Data Driven Discovery California Institute of Technology (Caltech) Pasadena, USA	3:15 pm
Interactions: Question & Answer, Sum-up/remarks by Prof P.K. Ahluwalia, President – Central IAPT	
Presidential Speech: Hon'ble Dr. O. S. Deshmukh Principal, Science College Congress Nagar Nagpur	4:30 pm
Vote of Thanks: Dr. Sugandha Khangar, Co-ordinator Physics Society	4:35 pm
Master of Ceremony: Dr. Gajanan Jadhav, Treasure, IAPT SRC-08E Zoom Meeting Coordination by Dr Govinda Lakhotiya, Vice President-IAPT	

देशोन्नती



श्री शिवाजी विज्ञान महाविद्यालयाचा उपक्रम

'समृद्ध खगोलशास्त्र संग्रहणाचा वापर' या विषयावर व्याख्यान

देशोन्नती वृत्तसंकलन

नागपूर : शिवाजी विज्ञान महाविद्यालय, नागपूर आणि आयएपीटी एसआरसी ८ ई असोसिएशन यांच्या संयुक्त विद्यमाने 'समृद्ध खगोलशास्त्रीय संग्रहांचा वापर' या विषयावर व्याख्यानाचे आयोजन नुकतेच करण्यात आले होते.

'समृद्ध खगोलशास्त्रीय संग्रहांचा वापर' या विषयावर डॉ. आशिष महाबळ, उपसंचालक यांचे प्रेरणादायी व्याख्यान झाले. व्यासपीठावर कॅलटेक (कॅलिफोर्निया इन्स्टिट्यूट ऑफ टेक्नॉलॉजी, पासाडेना युएसए) येथील डेटा-ड्राइव्हन डिस्कव्हरी सेंटर, शिवाजी विज्ञान महाविद्यालय, भौतिकशास्त्र विभागाचे प्रतिष्ठित माजी विद्यार्थी, कार्यक्रमाच्या अध्यक्षस्थानी प्राचार्य डॉ. ओ. एस. देशमुख यांच्यासह प्रा. पी. के. अहलुवालिया, सेंट्रल कौन्सिलचे अध्यक्ष, प्रमुख पाहुणे म्हणून उपस्थित होते.

अमरावती विद्यापीठाचे माजी कुलगुरु डॉ. कमल सिंग आणि शिवाजी महाविद्यालयातील भौतिकशास्त्राचे माजी शिक्षक प्रा. एस. एस. दारोकर आणि प्रा. एस. बी. खासरे उपस्थित होते. अतिथी व्याख्यान झूम प्लॅटफॉर्मद्वारे थेट प्रवाहित केले गेले. ज्यामुळे ते सदस्यांसाठी योग्यच ठरले

होते. इंडियन असोसिएशन ऑफ फिजिक्स टीचर्स आणि राष्ट्रीय खगोलशास्त्र नेटवर्क ऑफ इंडिया देशभरात सेंट्रल कौन्सिलच्या सचिव डॉ. रेखा घोरपडे, इतर अनेक प्रमुख सदस्यांसह ऑनलाइन सत्रात सहभागी झाले होते. डॉ. महाबळ यांच्या व्याख्यानात खगोलशास्त्राच्या विविध पैलूंचा अभ्यास करण्यात आला, सूर्यमाला, तारे आणि आकाशगंगा यांचा शोध घेण्यापासून ते विश्वविज्ञान समजून घेण्यापर्यंतच्या परिवर्तनवादी प्रवासाची रूपरेषा त्यांनी मांडली.

खगोलशास्त्र, केंद्रीत निरीक्षणांपासून सर्वेक्षण-आधारित संशोधनाकडे वळण्यावर जोर देते. इंटरनेट, आधुनिक कॅमेरे आणि संगणकीय साधनांसह तंत्रज्ञानातील प्रगतीवर प्रकाश टाकला, ज्याने डेटा संकलन आणि विश्लेषणामध्ये क्रांती केली आहे. डॉ. महाबळ यांनी आपल्या भाषणात खगोलशास्त्र अभिलेखागाराने दिलेल्या अफाट शक्यतांचे महत्व विशद केले.

कॅलटेक येथील सह. वैश्विक घटना आणि मशीन लर्निंग समजून घेण्यासाठी हे संग्रहण खजिना म्हणून करा काम करतात आणि आर्टिफिशियल इंटेलिजन्स या डोमेनमधील जटिल समस्या परिभाषित करण्यात आणि त्या सोडवण्यास मदत करू शकते, याची माहितीही त्यांनी दिली.

डॉ. महाबळ यांचे कौतुक

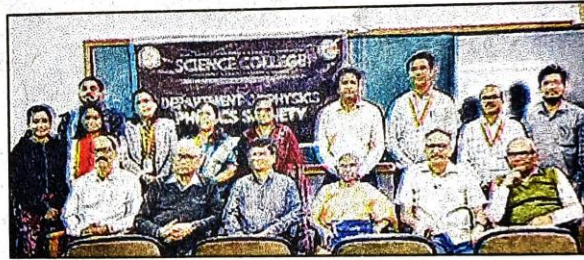
डॉ. महाबळ यांनी याप्रसंगी आउटरीच कार्यक्रमाचीही ओळख करून दिली आणि खगोलशास्त्राला जनतेच्या जवळ आणण्याच्या भूमिकेवर जोर दिला. कार्यक्रमाचे अध्यक्ष डॉ. ओ. एस. देशमुख यांनी डॉ. महाबळ यांच्या कामगिरीचे आणि खगोलशास्त्र क्षेत्रातील त्यांच्या प्रेरणादायी योगदानाचे कौतुक केले. भौतिकशास्त्र विभागाचे प्रमुख अनवणे यांनी स्वागत व प्रास्ताविक करून कार्यक्रमाचे सूत्रसंचालन केले. आभार डॉ. एस. व्ही. खंगार यांनी मानले

Physics Socy of Shivaji College and IAPT organise lecture on astronomy

The Physics Society of Shri Shivaji Science College, Nagpur, in collaboration with the Indian Association of

Physics Teachers (IAPT) Sub-Regional Council for Vidarbha SRC-08E, organised an enlightening guest lecture on 'Utilizing Rich Astronomy Archives'.

The event witnessed an inspiring session by **Ashish Mahabal**, deputy director of the Centre for Data-Driven Discovery at Caltech (**California Institute of Technology Pasadena USA**) and an alumnus of department of



physics, Shivaji Science College.

The programme was presided over by principal **OS Deshmukh**, with **Prof PK Ahluwalia**,

president of IAPT Central Council, gracing the occasion as the chief guest. **Prof SW Anwane**, HoD, physics, delivered the welcome address.

Also in attendance were Prof Sapre, **Prof Kamal Singh**, Prof SS Darokar and Prof SB Khasare. Mahabal's lecture delved into various aspects of astronomy. **Gajanan Jadhav** conducted the proceedings.

Short Report for IAPT Bulletin: Guest Lecture on "Utilizing Rich Astronomy Archives"

Nagpur, December 26, 2024: The Physics Society of Shri Shivaji Science College, Nagpur, in collaboration with the Indian Association of Physics Teachers (IAPT) SRC-08E, hosted an insightful guest lecture titled "*Utilizing Rich Astronomy Archives.*" The session was delivered by Dr. Ashish Mahabal, Deputy Director of the Centre for Data-Driven Discovery at Caltech and an esteemed alumnus of Shri Shivaji Science College.

The event was presided over by Principal Dr. O.S. Deshmukh, with Prof. P.K. Ahluwalia, President of the IAPT Central Council, as the Chief Guest. The introductory address was given by Prof. S.W. Anwane, Head of the Physics Department, setting a vibrant tone for the proceedings. Esteemed faculty members, including Prof. Sapre, Prof. Kamal Singh, Prof. Darokar, and Prof. Khasare, also graced the occasion.

Dr. Mahabal's lecture explored various facets of astronomy, from the solar system and stars to galaxies and cosmology. He highlighted the paradigm shift in astronomy, moving from observational methods to survey-based research, facilitated by advancements in technology such as the internet, modern cameras, and computational tools.

A key focus of the lecture was the utilization of astronomy archives like the Zwicky Transient Facility (ZTF) at Caltech. Dr. Mahabal demonstrated how these archives are instrumental in understanding cosmic phenomena and emphasized the transformative role of machine learning (ML) and artificial intelligence (AI) in addressing complex astronomical challenges. He also introduced the ZARTH outreach program, aimed at democratizing access to astronomy.

The lecture received widespread appreciation for its depth and relevance. In his presidential address, Dr. O.S. Deshmukh lauded Dr. Mahabal's contributions to astronomy and his inspiring journey. Prof. P.K. Ahluwalia commended the lecture for its practical relevance and ability to make complex scientific ideas accessible.

Dr. Gajanan Jadhav conducted the event as the Master of Ceremony, while Dr. S.V. Khangar delivered the vote of thanks. The online coordination was skillfully handled by Dr. Govinda Lakhotiya and Mr. B.T. Kumbhare, ensuring seamless participation. Faculty members, including Dr. Ragini Pathare, Dr. Shahin Sayyad, and Mr. Parag Bramhankar, were also present for the event.

The program concluded with a sense of pride as students and faculty reflected on Dr. Mahabal's inspiring return to his alma mater, encouraging the audience to pursue opportunities in the vast field of astronomy.

This event marked a significant milestone for Shri Shivaji Science College and IAPT SRC-08E, showcasing their commitment to fostering scientific inquiry and excellence in education.

Invitation

Join us for a Guest Lecture presented by our esteemed alumnus:

Dr. Ashish Mahabal

Deputy Director, Centre for Data Driven Discovery
California Institute of Technology (Caltech), Pasadena, USA

In Association with:

Sub Regional Council for Vidarbha SRC-08E
Indian Association of Physics Teachers

We cordially invite faculty members of Physics and Mathematics to attend this enlightening session.

Date & Time:

26-12-2024 at 3:00 pm

Venue:

Classroom C4, Block C, 3rd Floor, Department of Physics, Shri Shivaji Science College, Congress Nagar,
NAGPUR 440012

IAPT CENTRAL is inviting you to a scheduled Zoom meeting.

Topic: Utilizing Rich Astronomy Archives

Time: Dec 26, 2024 02:45 PM India

Join Zoom Meeting

<https://us06web.zoom.us/j/88916847511?pwd=NKaWjAiyL40qY4P60uHsfDwwk5oCPH.1>

Meeting ID: 889 1684 7511

Passcode: 898775

College logo

College Name

Bhauasaheb image

Guest Lecture

organized by Department of Physics

In Association with

Sub Regional Council for Vidarbha SRC-08E

Indian Association of Physics Teachers

Speaker: Dr. Ashish Mahabal

Deputy Director, Centre for Data Driven Discovery

California Institute of Technology (Caltech) Pasadena, USA

Topic: Utilizing Rich Astronomy Archives

Date: 26/12/2024



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)

Prof S. W. Anwane <i>President</i> 9422122711	Dr G. Lakhotiya <i>Vice-President</i> 9579194076	Dr Halim Ahamad <i>Secretary</i> 9372233844	Dr G. L. Jadhav <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
Amravati
9404376940

Dr. A. Bajpeyee
Amravati
9422157797

Dr. Amol Nande
Ballarpur
7219436824

Shashank Deshpande
Nagpur
9881001204

Lt. Dr. Prashant Ambekar
Nagpur
7776899668

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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/GEN/601

Date: 23/12/2024

To,
Dr Ashish Mahabal
Assistant Director
California Institute of Technology, CALIFORNIA USA

Sub: Invitation for Guest Lecture at Shri Shivaji Science College,
Nagpur on 26th December 2024 at 3:00pm (C-4, C-Block, 3rd Floor)

Dear sir,

We are pleased to invite you to deliver Guest Lecture on topic of your interest/liking at the Department of Physics, Shri Shivaji Science College, Congress Nagar NAGPUR. This is jointly being organized by IAPT-SRC-08E and Shri Shivaji Science College, Nagpur. As students are busy in the university level examination in all affiliated colleges we would like to invite Physics Faculty members in the town for this talk.

Kindly suggest suitable title of your proposed talk so that we can release invitation/flyer. Looking forward to seeing you!

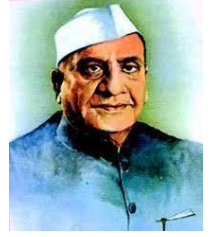
REGARDS!

Yours Faithfully,

Prof. S. W. Anwane
President
IAPT SRC-08 E



Shri Shivaji Education Society Amravati's
SCIENCE COLLEGE
CONGRESS NAGAR, NAGPUR.



SCIENCE ASSOCIATION
PHYSICS SOCIETY 2024-25

Dr. O S Deshmukh
Principal

Dr. S W Anwane
Professor & Head
9422122711

Dr. S V Khangar
Convener
9975768840

Date:- 28/12/2024

Co-conveners

Dr. Mrs R N Pathare
Mr. B. T. Kumbhare
Dr. (Ms) Shahin K. Sayyad
Dr. Gajanan L. Jadhav
Dr. Sarang Daf
Ms. Kanchan Jinapurkar
M.s Chanda Jatgade

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Ms. Sraddha Raut M.Sc.II
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Ms. Anushka Palandurkar B Sc III
Secretary -7666571986
Mr. Yugansh Kanoje BSc II
Jt. Secretary -9423854616
Mr. Jatin Karde B Sc II
Treasurer- 7875723214

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- 8855044167
Mr. Mohit Dhandale B Sc I
9370875343- (B. Sc. 1st year)
Ms Hansika Jamgade B Sc I
743890817
Ms Ekta Khursankar B Sc I
9022293094
Ms Aarohi Tembhurne B Sc I
9561683798


PRESS-NOTE


To,
All the Local Daily

Dear sir/Madam,
Pl find enclosed herewith a Press Note for your
esteemed Local Daily.

Looking forward for good coverage.

REGARDS!


Dr S W ANWANE
Dr. S. W. Anwane
Professor and Head
Department of Physics
Shri Shivaji Education Society Amravati's
SCIENCE COLLEGE
Congress Nagar, Nagpur.


Principal
SSESA's Science College,
Nagpur
Principal
S. S. E. S. Amravati's
Science College, Nagpur.



**Shri Shivaji Education Society Amravati's
SCIENCE COLLEGE
CONGRESS NAGAR, NAGPUR.**



**SCIENCE ASSOCIATION
PHYSICS SOCIETY 2024-25**

PRESS-NOTE

**Shivaji Science College, Nagpur, in Association with IAPT SRC-08E, Organizes Guest Lecture on
"Utilizing Rich Astronomy Archives"**

Nagpur, December 26, 2024: The Physics Society of Shri Shivaji Science College, Nagpur, in collaboration with the Indian Association of Physics Teachers (IAPT) Sub-Regional Council for Vidarbha SRC-08E, organized an enlightening guest lecture on "**Utilizing Rich Astronomy Archives**". The event witnessed an inspiring session by Dr. Ashish Mahabal, Deputy Director of the Centre for Data-Driven Discovery at Caltech (California Institute of Technology Pasadena USA) an esteemed alumnus of the Department of Physics, Shri Shivaji Science College, Nagpur.

The program was presided over by Principal Dr. O.S. Deshmukh, with Prof. P.K. Ahluwalia, President of IAPT Central Council, gracing the occasion as the Chief Guest. Prof. S.W. Anwane, Head of the Department of Physics, delivered the welcome and introductory address, setting the tone for the event. Also in attendance were distinguished faculty members, including Prof. Sapre, a former professor at the PGTD Physics Department; Prof. Kamal Singh, the former Vice-Chancellor of Amravati University; and former Physics teachers from Shivaji College, Prof. S.S. Darokar and Prof. S.B. Khasare. The guest lecture was streamed live via the Zoom platform, making it accessible to members of the Indian Association of Physics Teachers (IAPT) and the National Astronomy Network of India (NASNI) across the country. Dr. Rekha Ghorpade, Secretary of the IAPT Central Council, along with several other prominent members, also participated in the online session.

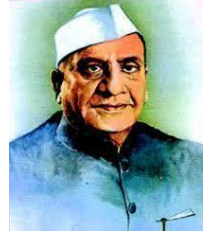
Dr. Mahabal's lecture delved into various aspects of astronomy, from exploring the solar system, stars, and galaxies to understanding cosmology. He outlined the transformative journey of astronomy, emphasizing the shift from focused observations to survey-based research. He also highlighted the advancements in technology, including the internet, modern cameras, and computational tools, which have revolutionized data collection and analysis.

In his talk, Dr. Mahabal elaborated on the vast possibilities offered by astronomy archives, including the Zwicky Transient Facility (ZTF) at Caltech. He demonstrated how these archives serve as a treasure trove for understanding cosmic phenomena and how machine learning (ML) and artificial intelligence (AI) can help define and solve complex problems in this domain. Dr. Mahabal also introduced the ZARTH outreach program, emphasizing its role in bringing astronomy closer to the masses.

The lecture was lauded by students and faculty for its depth and relevance. In his presidential address, Dr. O.S. Deshmukh applauded Dr. Mahabal's achievements and his inspiring contribution to the field of astronomy. Prof. P.K. Ahluwalia offered a summary and special remarks, praising the way Dr. Mahabal connected complex scientific concepts to practical



**Shri Shivaji Education Society Amravati's
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**SCIENCE ASSOCIATION
PHYSICS SOCIETY 2024-25**

applications, making them accessible to all. Students showed great enthusiasm during the Q&A session and informal interactions. Members of the local active space group also engaged eagerly, building a strong rapport with Dr. Mahabal. His presence was particularly significant, as he was one of the founding members of the KUTUHAL group, established by Mr. Arun Dolke and his friends over four decades ago.

Dr. Gajanan Jadhav conducted the proceedings as the Master of Ceremony, while Dr. S.V. Khangar proposed the vote of thanks. A smooth coordination of online Zoom platform was provided by Dr. Govinda Lakhotiya, Mr B. T. Kumbhare along with Dr Ragini Patahre, Dr Shahin Sayyad and Mr Parag Bramhankar. The session concluded with an expression of pride and gratitude for Dr. Mahabal, whose return to his alma mater as a mentor inspired the audience to explore the vast universe of opportunities in astronomy.

This event is yet another milestone for Shivaji Science College-Nagpur and IAPT SRC-08E, reinforcing their commitment to fostering scientific curiosity and excellence.



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)

Prof S. W. Anwane <i>President</i> 9422122711	Dr G. Lakhotiya <i>Vice-President</i> 9579194076	Dr Halim Ahamad <i>Secretary</i> 9372233844	Dr G. L. Jadhav <i>Treasurer</i> 9765583480
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RefNo.: CORR/2024/GEN/604

Date: 26/12/2024

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Amravati
9404376940

Dr. A. Bajpeyee
Amravati
9422157797

Dr. Amol Nande
Ballarpur
7219436824

Shashank Deshpande
Nagpur
9881001204

Lt. Dr. Prashant Ambekar
Nagpur
7776899668

Executive Council Members RC-08 (Maharashtra)

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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



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President
IAPT SRC-08 E



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Dr Ashish Mahabal delivering lecture



Group photo with Dr Ashish Mahabal after his lecture



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Shri Shivaji Education Society Amravati's
SCIENCE COLLEGE
CONGRESS NAGAR, NAGPUR.



**SCIENCE ASSOCIATION
PHYSICS SOCIETY 2024-25**

Dr. O S Deshmukh
Principal

Dr. S W Anwane
Professor & Head
9422122711

Dr. S V Khangar
Convener
9975768840

Date:- 24/12/2024

Co-conveners

Dr. Mrs R N Pathare
Mr. B. T. Kumbhare
Dr. (Ms) Shahin K. Sayyad
Dr. Gajanan L. Jadhav
Dr. Sarang Daf
Ms. Kanchan Jinapurkar
M.s Chanda Jatgade

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Ms Hansika Jamgade B Sc I
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Ms Ekta Khursankar B Sc I
9022293094
Ms Aarohi Tembhumre B Sc I
9561683798

Invitation

Join us for a Guest Lecture presented by our esteemed alumnus:

Dr. Ashish Mahabal

Deputy Director, Centre for Data Driven Discovery
California Institute of Technology (Caltech), Pasadena, USA

In Association with:

Sub Regional Council for Vidarbha SRC-08E
Indian Association of Physics Teachers

We cordially invite faculty members of Physics and Mathematics to attend this enlightening session.

Date & Time:

26-12-2024 at 3:00 pm

Venue:

Classroom C4, Block C, 3rd Floor, Department of Physics, Shri Shivaji Science College, Congress Nagar, NAGPUR 440012

Online option:

IAPT CENTRAL is inviting you to a scheduled Zoom meeting.

Topic: Utilizing Rich Astronomy Archives

Time: Dec 26, 2024 02:45 PM India

Join Zoom Meeting

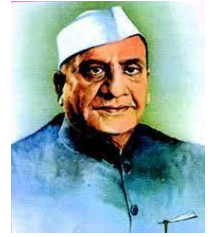
<https://us06web.zoom.us/j/88916847511?pwd=NKaWjAiyL40qY4P60uHsfDwwk5oCPH.1>

Meeting ID: 889 1684 7511

Passcode: 898775



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SCIENCE ASSOCIATION
PHYSICS SOCIETY 2024-25



Shri Shivaji Education Society Amravati's
SCIENCE COLLEGE

Congress Nagar, Nagpur- 12 (MS)



Reassessed with A+ Grade with CGPA 3.51 by NAAC, Bangalore
College with Potential for Excellence identified by UGC New Delhi
Institutional Member of APQN
Recognized Centre for Higher Learning and Research
Mentor College under Paramarsh Scheme
An ISO 21001:2018 Certified Institution, NIRF ranking (HRD Ministry) 201-300

24-12-2024

Invitation

Guest Lecture by our esteemed alumnus

Topic: Utilising Rich Astronomy Archives

by

Dr. Ashish Mahabal

Deputy Director, Centre for Data Driven Discovery
California Institute of Technology (Caltech) Pasadena, USA

In Association with

Sub Regional Council for Vidarbha SRC-08E

Indian Association of Physics Teachers

Faculty members of Physics & Mathematics are invited.

Date-26 Dec. 2024

Time- 3.00 PM

Venue- C4 Classroom

Dr. S. W. Anwane

Head, Department of Physics

Dr. O. S. Deshmukh

Principal



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)

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President *Vice-President* *Secretary* *Treasurer*
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98507 85615

RefNo.: CORR/2024/GEN/601

Date: 23/12/2024

To,
Dr Rekha Ghorpade
Secretary
Central IAPT, MUMBAI

Sub: request to provide Zoom Meeting Platform

Dear Madam,

We are pleased to announce a proposed Guest Lecture at our institute. The details are as following. We request you to provide Zoom meeting platform to reach IAPT members at large.

Thanking you!

Invitation

Join us for a Guest Lecture presented by our esteemed alumnus:

Dr. Ashish Mahabal

Deputy Director, Centre for Data Driven Discovery
California Institute of Technology (Caltech), Pasadena, USA

In Association with:

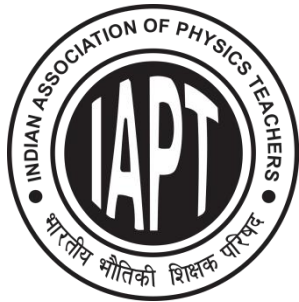
Sub Regional Council for Vidarbha SRC-08E
Indian Association of Physics Teachers

We cordially invite faculty members of Physics and Mathematics to attend this enlightening session.

REGARDS!

Yours Faithfully,

Prof. S. W. Anwane
President
IAPT SRC-08 E



Indian Association of Physics Teachers

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

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98507 85615

Ref No.: CORR/2024/GEN/604

Date: 27/12/2024

To,
Dr. Ashish Mahabal
Deputy Director, Centre for Data Driven Discovery,
California Institute of Technology (Caltech) Pasadena, USA

Subject: Thank You for Your Inspiring Lecture

Dear Dr Ashish Mahabal,

Thank you for delivering such an informative and thought-provoking lecture on "Utilizing Rich Astronomy Archives" at the Department of Physics, Shri Shivaji Science College, Congress Nagar, Nagpur, on December 26, 2024.

Your presentation was truly outstanding and provided valuable insights into research practices, benefiting both faculty and students alike. The feedback from participants has been overwhelmingly positive, and many expressed appreciations for your engaging discussion on the topic.

We look forward to your continued cooperation in the future and hope to have the pleasure of welcoming you again.

Warm regards,

Yours Faithfully,

Prof. S. W. Anwane
President
IAPT SRC-08 E



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Warm regards,

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Yours Faithfully,

(S W ANWANE)

Dr. S
Prof
Depa
Shri Shivaji
SC
Cong

अहवाल

शिवाजी विज्ञान महाविद्यालय कॉंग्रेस नगर, नागपूर आणि IAPT SRC-08E (विदर्भ) यांच्या संयुक्त विद्यमाने "समृद्ध खगोलशास्त्र संग्रहणाचा वापर" या विषयावर अतिथी व्याख्यानाचे आयोजन

दिनांक: 26/12/2024

स्थळ: C4, भौतिकशास्त्र विभाग, शिवाजी सायन्स कॉलेज, नागपूर

वेळ: दुपारी 3:00

नागपूर, 26 डिसेंबर 2024: श्री शिवाजी सायन्स कॉलेज, नागपूरच्या भौतिकशास्त्र मंडळाने इंडियन असोसिएशन ऑफ फिजिक्स टीचर्स (IAPT) SRC-08E यांच्या सहयोगाने "खगोलशास्त्र संग्रहालयांचा समृद्ध उपयोग" या विषयावर अतिथी व्याख्यानाचे आयोजन केले. या व्याख्यानासाठी कॅलटेकमधील सेंटर फॉर डेटा-ड्रिव्हन डिस्कव्हरीचे उपसंचालक व श्री शिवाजी सायन्स कॉलेजचे माजी विद्यार्थी डॉ. आशिष महाबळ यांनी प्रेरणादायी सत्र घेतले.

कार्यक्रमाचे अध्यक्षस्थान महाविद्यालयाचे प्राचार्य डॉ. ओ.एस. देशमुख यांनी भूषविले, तर IAPT केंद्रीय समितीचे अध्यक्ष प्रा. पी.के. अहलुवालिया प्रमुख पाहुणे म्हणून उपस्थित होते. भौतिकशास्त्र विभागप्रमुख प्रा. एस.डब्ल्यू. अनवणे यांनी स्वागत व प्रस्तावना करत कार्यक्रमाची सुरुवात केली. प्रा. सप्रे, प्रा. कमलसिंग, प्रा. दारोकार, आणि प्रा. खसारे यांच्यासह महाविद्यालयातील नामांकित प्राध्यापकही उपस्थित होते.

डॉ. महाबळ यांनी खगोलशास्त्रातील सौरमाला, तारे, आकाशगंगा आणि ब्रह्मांडशास्त्र यांसारख्या विषयांवर विस्तृत चर्चा केली. त्यांनी खगोलशास्त्राच्या प्रवासातील बदल अधोरेखित करत, निरीक्षणाधारित संशोधनाकडून सर्वेक्षणाधारित संशोधनाकडे झालेल्या संक्रमणाची माहिती दिली. इंटरनेट, आधुनिक कॅमेरे, आणि संगणकीय साधनांमुळे डेटा संकलन व विश्लेषणाच्या पद्धतीत झालेल्या प्रगत तंत्रज्ञानाचा त्यांनी उल्लेख केला.

त्यांच्या व्याख्यानातील प्रमुख ठळक मुद्दा म्हणजे कॅलटेकच्या झिवकी ट्रान्सिएंट फॅसिलिटी (ZTF) यांसारख्या खगोलशास्त्र संग्रहालयांमधील संधीचा उपयोग. त्यांनी या संग्रहालयांद्वारे ब्रह्मांडातील घटनांचा अभ्यास कसा करता येतो, याचे सविस्तर विवरण दिले. तसेच मशीन लर्निंग (ML) आणि कृत्रिम बुद्धिमत्ता (AI) यांच्या साहाय्याने खगोलशास्त्रातील जटिल समस्यांचे निराकरण कसे करता येते, यावर प्रकाश टाकला. झार्थ (ZARTH) या आउटरीच प्रकल्पाची माहिती देत त्यांनी खगोलशास्त्र सर्वसामान्य लोकांपर्यंत पोहोचविण्याचे महत्त्व अधोरेखित केले.

विद्यार्थ्यांनी आणि प्राध्यापकांनी या व्याख्यानाला उत्स्फूर्त प्रतिसाद दिला. अध्यक्षीय भाषणात डॉ. ओ.एस. देशमुख यांनी डॉ. महाबळ यांच्या यशाचे आणि प्रेरणादायी कार्याचे कौतुक केले. प्रा. पी.के. अहलुवालिया यांनी सत्राचा सारांश मांडत डॉ. महाबळ यांनी सुलभ पद्धतीने जटिल वैज्ञानिक संकल्पना मांडल्याबद्दल प्रशंसा केली.

कार्यक्रमाचे सूत्रसंचालन डॉ. गजानन जाधव यांनी केले, तर डॉ. एस.व्ही. खंगार यांनी आभार प्रदर्शन केले. ऑनलाईन सत्राचे सुरळीत संयोजन डॉ. गोविंदा लाखोटिया, श्री. बी.टी. कुभारे, यांनी केले. यावेळी हे विषयाचे शिक्षक कर्मचारी डॉ. रागिणी पाथरे डॉ. शाहीन सय्यद, आणि श्री. पराग ब्रम्हणकर हेदेखील उपस्थित होते. कार्यक्रमाच्या शेवटी उपस्थितांनी डॉ. महाबळ यांच्या प्रेरणादायी प्रवासावर अभिमान व्यक्त केला. आपल्या महाविद्यालयाचे माजी विद्यार्थी जागतिक पातळीवर खगोलशास्त्र क्षेत्रात नेतृत्व करत असल्याचा गर्व व्यक्त करण्यात आला.

हे आयोजन विज्ञान महाविद्यालय कॉंग्रेस नगर नागपूर आणि IAPT SRC-08E यांच्यासाठी एक महत्त्वाचा टप्पा ठरला असून, वैज्ञानिक जिज्ञासा आणि उत्कृष्टतेसाठी त्यांची वचनबद्धता पुन्हा या कार्यक्रमाच्या माध्यमातून अधोरेखित झाला.

