# International Symposium on Extraterrestrial Life

(AI, Exoplanets, Colonisation of mars and Future of Humanity)



**DATE:** December 20th 2024

VENUE: Confrence Hall, N.S.C.B.M. GOVT. COLLEGE HAMIRPUR

#### **RESOURCE PERSONS:**

- Dr. Chandan Bhardwaj (Principal. Govt. College Majheen)
- Dr. Dinesh Pathak (HOD Physics. The University of West Indies St. Augustine Campus, Trinidad)
- Dr. Rakhee Chaudhary (Dean. School of Basic & Applied Science Career Point University, Kota)
- Dr. Monika Sanoria (Research Fellow, University of California, Merced USA)









# THE FOLLOWING COMMITTEES WERE CONSTITUTED FOR THE SMOOTHCONDUCT OF THE EVENT



#### Netaji Subhash Chander Bose Memorial Govt. College Hamirpur, Himachal Pradesh

Tel. No.: 01972-222227, FAX: 01972-222227, E-mail: gchamirpur-hp@nic.in



No. 1425

Date: 19/12/2024

The following committees are hereby constituted for the smooth functioning of International Level Symposium that is going to be held in the college on 20/12/2024.All to note it for compliance.

Details Of Committees	
Organizing Committee	
Prof. Neelam Kumari	
Prof. Lavli Rana	500
Dr. Rohit Sandal	
Certificate/ Memento Distribution Committee	
Dr. Ashwani Puri	100000
Rumani	
Shivali	
Pragti	ر انتیک
Refreshment Committee	
Prof. Prashant Sharma	
Sh. Rajender Singh	
Sh. Vijay Kumar	
Samriti Kaushal	
Yavindra	
Aditi	
Technical Support Committee	
Prof. Suresh Kumar	
Mr. Jagdeep	
Anshul	
Pankaj	-
Registration Committee	
Dr. Virender Pratap Singh	
Kriti Mehta	- 3
Riya Saini	
Mohit Garha	
Stage Handling Committee	
Payal Thakur	
Priyanka Kumari	

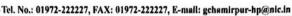
Principal
NSCBM Govt. College Hamirpur
Principal
G.C. HAMRPUR



## **SCHEDULE OF THE DAY**



#### Netaji Subhash Chander Bose Memorial Govt. College Hamirpur, Himachal Pradesh





#### Department of Physics

International Symposium (20-12-2024)

#### SCHEDULE OF THE EVENT

- · Registration: 9:00 AM
- Welcome of the Chief Guest/Guests: 9:30 AM
- Lightening of the lamp: 9:35 AM
- Rosette Pin up to all Guest: 9:40 AM
- Plant Presentation to the chief Guest by Physics Faculty 9:45 AM
- Brief introduction of event by Prof. Lavli Rana: 9:50 AM
- 1st Presentation: 10:00 AM (Dr. Monika Sanoria)
- 2<sup>nd</sup> Presentation: 10:40 AM (Dr. Dinesh Pathak)

#### TEA BREAK 11:20 AM - 11:30 AM

- Students' Presentation:11:30AM 12:30 PM
- 3<sup>rd</sup> Presentation: 12:30 PM (Dr. Chandan Bhardwaj)

#### LUNCH BREAK 1:10PM - 1:50 PM

- 4<sup>th</sup> Presentation: 1:50 PM (Dr. Rakhi Chaudhary)
- 5<sup>th</sup> Presentation: 2:30 PM (Prof. Neelam Kumari)
- 6<sup>th</sup> Presentation: 3:00 PM (Dr. Virender Pratap Singh)
- Students' Presentation: 3:30PM 4:00 PM

#### HIGH TEA BREAK 4:00PM - 4:10 PM

- 7th Presentation: 4:10 PM (Prof. Lavli Rana)
- Open House Discussion: (4:40 PM)
- Report Presentation by HOD Physics: (5:00 PM)\*
- Valedictory Function: (5:15 PM)
- Vote of Thanks by Prof. Parshant Sharma . (5:25 PM)
- National Anthem (5:30 PM)

# **Registration Details**



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#### Netaji Subhash Chander Bose Memorial Govt. College Hamirpur, Himachal Pradesh



-Tel. No.: 01972-222227, FAX: 01972-222227, E-mail: gchamlrpur-hp@nic.in

Department of Physics

International Symposium 20/12/2024 Registration Details					
S.no.	Name	Designation	College	Theme/Topic	Signature
1	Sarjana	Student	G. C Ghumalwin		Borana
2	Paretti Kaushal	Student	G C Hamirbur		houle
3	Kusti	Student		Colonization of Mars	1888
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#### Department of Physics Attendance Sheet International Symposium

Date :20/12/2024				
S. No.	Name of Student	Class	Roll No.	Sign.
1	Sayal Thakur	M.Sc 3rd Sem	23MSCPHY022	fyul
2	Ciyanka Kumari	M·sc·3RDSem	23MSCPHY039	Weyenka
3	Rumani	MSc. 38d som	23 MSC. PHY034	Rymani
4	Riya Sanu		23 M86 PHY025	Fay
5	Nisha Dhiman		35MSCBHN 036	Night
6	Harshid Sharma		24 MSCP WYOOR	
7	Lakshay Thakuz	MSc Ost Sem	24 MSCP44005	Caldral
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9	Shay Kumar		24 MSCPHY032	94
10	Silhani Bhushan		24 BSM 071	Suhan
11	Aastha Sharma	*	24 BSH054	3/12/11/2/18/1/
12	Shivali Thakux		24BSM011	Shinali Thaken
13	Bhunika Sharma		24BSM014	BhumikaSharma
14	Rohit Kuman		24MSCPHY026	Dmil
15	Borns Raj		24MBCPHY021	Rockson
16	Sijal Rana.	MSC 1st sim	24MSCPHY001	Deans
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27	Monika	BSC 201 Year	23BSM050	
28	Sahiba Sharma	Misc 38d Sem	23 MSPY007	Mancha Santa
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45	Nitika	BSc 2nd Year	23BCM030	Nitika
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# Presentation by the Resource Persons

#### • Dr. MONIKA SANORIA

Dr. Monika Sanoria is a learner and a Doctorate in Physics. Right now she is persuing her Post-Doctoral Fellowship, which is a program that provides training for career advancement and scholarly development for those who have a doctoral degree. She is doing her PDF from Scholar University of California Merced (USA).



In her presentation she highlighted the concept of `Extraterrestrial Life`. She gave us information on how aliens or extraterrestrial lifes can affect the life on Earth. She also shared with us some delicate information about many UFOs being spotted by NASA but still kept as a secret as to avoid panic among people and also because we do not have sufficient knowledge about these UFOs.

#### DR. DINESH PATHAK

Dr. Dinesh Pathak is the HOD of physics in The University of West Indies St. Augustine Campus, Trinidad.

He is the head of Physics department
.His research interests includes
Nanostructured Compound
Semiconductors (Chalcopyrites)
,Oxide Nanocomposites /Low cost gel synthesis of TCOs

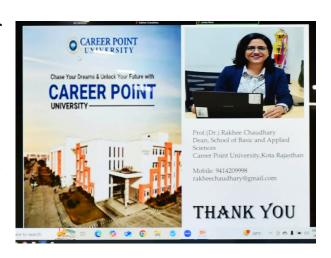


Dr. Dinesh Pathak discussed about "The Importance of Nanostructured Materials in Exploration of Extraterrestrial Life".

#### DR. RAKHEE CHAUDHARY

Dr. Rakhi Chodhary is a professor of Physics at Carrier Point University Kota, Rajasthan.

She is an accomplished academic and administrative leader with over23+years of experience in higher education. She has been privileged to serve in various academic and



administrative responsibilities and key role in inspection and accreditation. Dr. Rakhi Chodhary discuss about "The Future of Human Identity: Ethical Impact of Discovering Extraterrestrial Life".

#### • DR. CHANDAN BHARDWAJ

Dr. Chandan Bhardwaj is the Principal of Govt. College Majheen. We humans are three dimensional beings and trying to find aliens on other planets in three dimension as well. But the question is that are there only three dimensions? Dr. Chandan gave a completely new way of thinking about it. According to



string theory there are 11 dimensions and we humans are trapped in 3rd dimension. There might be a species that is living in a higher dimension and their dimensions are overlapping with ours. Neither we can see them nor they can see us. There might be an alien coexisting with us but in a different dimension. He discussed about many other theories related to humans and our universe. He talked about the Matrix Theory which says that we humans are just the NPCs of a world made by an higher dimensional beings and are just trapped but don't know about it. He also talked about Universal Zoo theory which says that human are just a primitive species and are caged as we do with other animals on earth and a much powerful and intelligent species is watching us and laughing at us. He also talked that how the whole universe resembles to the brain of a human so it can also be possible that our universe is just a brain of some omnipotent being and we are just a part of his imagination. He also discussed about the quantum chip which was recently in news WILLOW which solved a complex mathematical problem in just 5 minutes, a task that would take classical computer an estimated time of 10 septillion years. It is said that quantum computers break the walls of universe and communicate with other quantum computers in different universes and it might be a key of multiversal travel. He discussed about the technology of Teleportation. How in future we will be able to dematerialize our body and then materialize it on some other place eventually teleporting ourselves. He also discussed about Neuralink's N1 Chip. A chip that is able to understand our brain's activity and convert it in a manner to make it understandable for computers. Which will make computing easier than today. He discussed what will be the future of humanity not only on other planets but also on our planet as well.



#### • PROF. LAVLI RANA

Prof. Lavli Rana is the professor of Physics in N.S.C.B.M. Govt. College Hamirpur. The topic of his presentation is "LIFE BEYOND EARTH: Prospects for Civilization and Interstellar Travel". He discussed about life beyond earth and what are the conditions for this to happen. He talked about the habitable



zone of a star which is also known as Goldilock Zone. He gave us an idea that how the mass of a star affects the Goldilock Zone and what kind of life form can grow on the planets lying in this zone. He also discussed the fact that we always compare the extraterrestrial life form with the life form present on earth but it might be completely different from that, it might be silicon based life form because the conditions that we get on earth might not be possible on those planets. He also talked about Drake Equation, an equation which estimates the number of active, communicative extraterrestrial civilization in Milky Way Galaxy and if we put all the values in this equation then the number which came out is very large. So, the question is why we are unable to communicate with any civilization till now or why they are unable to communicate with us. Then he talked about the possible reasons for it. First one was the complexity of interstellar travel. First of all it it really hard to make a space ship that can do such things, second reason is the extremely large distances to travel with really slow speed which will take millions of years even to reach the closest exoplanet and third one was the complexity of extra dimensions.



#### DR. VIRENDER PRATAP SINGH

Dr. Virender Pratap Singh is the professor of Physics in College N.S.C.B.M. Govt. Hamirpur. He discussed about Material Science and how it is very important to us. He started his presentation from the very beginning, from the origin of the first metal that was ever used by human kind, that is stone. Then shared with us that humans evolved from stone to iron in the iron age, in which we



used iron in a variety of manner from being a vessel to be used as a weapon for hunting and for many more purposes. By this information we get to know how important Material Science is . Even in the modern time Material Science is one of the most interesting field . And even now a lot of discoveries are still going on in this field.

He also highlighted the importance of Material Science whether it is in terms of classic level material or quantum level material. He discussed about the results of his personal studies on the material sciences.

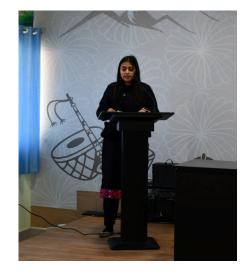
Sir shared with us the experimental results from his own lab which is situated in the campus of N.S.C.B.M College.



# Presentation by the Students

#### SAMRITI KAUSHAL

Samriti is a student of N.S.C.B.M. Govt. College Hamirpur. She gave her presentation "EXOPLANETS". topic on the Exoplanet is a planet outside our solar system which ,like earth, orbits one or more giant bodies. There are more than 5,600 confirmed Exoplanets. of Most the **Exoplanets** discovered so far are in a small region of few thousand light years. So we can't even imagine how many earth like planets will be there in



our universe. The closest Exoplanet to earth is Proxima Centuari B and even it is 4 light years away from our solar system which means reaching there with the help of today's technology is near impossible so going there to check whether life exists there or not might not be possible but we have some other methods to do this. By measuring the size and mass of these planets we can find out the composition of these planets and tell whether they are suitable for developing life form or not.

#### MOHIT GARHA

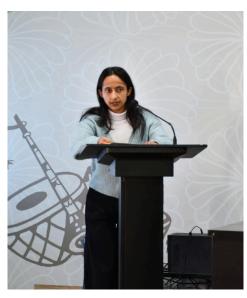
Mohit is a student of N.S.C.B.M. Govt. College Hamirpur. He gave his presentation on the topic "THE GOLDEN RECORD". It is a try of humans to tell humans that you are not alone here. Mohit discussed how the unknown life form will decode it, what is the meaning of all those weird symbols and what is the language of the tutorial of handling this disk. What are the sounds that are on the disk and all the images sent to those



creatures. Why we sent only those 115 pictures and not others. He also discussed about converting the sound into images and why we sent those particular images and what aliens will think of us by seeing all those images. Will they find us friendly or will they think that we are danger to them?

#### KRITI

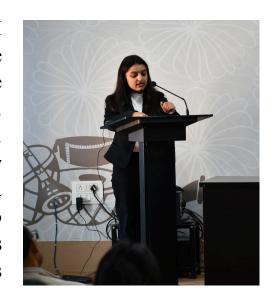
Kriti is a student of N.S.C.B.M. Govt. College Hamirpur. She gave her presentation on the topic "COLONIZATION OF MARS". As we know that population of earth is increasing rapidly we need a new home. Mars is the best suitable planet to colonize humans. But there are many challenges in doing so. Kriti discussed about it in complete detail. How are we going to change the completely different atmosphere of Mars into Earth's? How are we going to



overcome the barrier of this large distance ?What are the potential locations where extraterrestrial life can flourish? There are multiple locations found on mars like underground regions and hydrothermal vents and there is a possibility that microbial life can be found there. And if it is possible on Mars then it can be possible on Exoplanets as well.

#### SANJANA

Sanjana is student of **SWAMI** a VIVEKANAND College Govt. Degree Ghumarwin. She gave her presentation on the topic "EXTRATERRESTRIAL LIFE". Sanjana gave a brief explanation about it. What is Extraterrestrial Life scientists believe it might exist? Sanjana talked about different Exoplanets. She also explained what is extremophile and how it is possible that they can exist on other planets rather than earth. She also talked about



Colonization of Mars. What is it, how it can be achieved, what are the different missions done by us to do so and why do we need it? She also gave a vast list of different books and series to us to understand more about life beyond earth. She also talked about NASA's Voyager missions and how they became farthest going man-made objects and gave a hint of The Golden Record. At last she left us with a question whether extraterrestrial life is an opportunity or a threat? Should we afraid of it or grab the opportunity. What are the biological challenges and what good will happen if we overcome these challenges.

#### SHIVAM SHARMA

Shivam Sharma is an alumnus of N.S.C.B.M. College Hamirpur. Govt. He his gave presentation the topic on "EXTRATERRESTRIAL LIFE". He started his topic with a question, are humans extraterrestrial or not? We might be thinking what kind of question is this but it all depends on frames of reference. For an alien we humans are



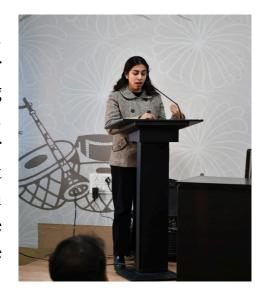
extraterrestrial being, and for us they are extraterrestrial. Then he went to the topic Exoplanets with an interesting story of Vishnupuran which tells us about the concept of multiverse. He talked about WASP 12 B planet which is orbiting a red dwarf and this red dwarf is sucking all its energy and kind of similar thing will happen with our planet earth too. He talked



about many other planets like Trapist-1 system which is a red dwarf again but interesting fact about it that in its solar system there is a series of planets which are revolving around it and not only one but many of these lies in the Goldilock Zone. He not only gave us the information about the topic but he tried to give us something extra, some wisdom which will be useful for us in our upcoming future.

#### ASTHA MODGIL

Astha is an alumna of N.S.C.B.M. Govt. College Hamirpur. She presented her poster on the topic "BEYOND EARTH: Exploring AI, Exoplanets, Humanity's Future in Space". Imagine AI as a brain behind all our upcoming space missions. It can detect Exoplanets much faster than a normal human do. She also discussed about habitable exoplanets and how Mars can be one of those leading to the idea of Colonization of mars.



In a nutshell we can say Human's curiosity drives us to explore extraterrestrial realms. From AI enabled space exploration to the discovery of Exoplanets and the dream of colonizing Mars, her poster showcases how we are shaping our future beyond earth.

## PHOTOGRAPHS OF THE EVENT

• Model and posters made by students





• Chief Guest Dr. Chandan Bhardwaj





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## • <u>Lightning of the Lamp</u>









## • Students pinning badges to our chief guest and guests















## • Presenting Bouquet to the Chief Guest



### All the presented members and students







## • Anchors of the Event





## Certificate Distribution







## **Presenting momento to Chief Guest**









## • A Final Group Photo





