

Year 2021-22

Quasar

The Physics Society
(Events and Activities)

Teacher-In-Charge : Dr. Hira Joshi
Teacher Coordinators Physics Society :
Dr. Supreeti Das, Mr. Munish and Ms.
Mansi Agrawal

Union Members :

- **President : Arzoo Dagar**
- **Vice-President : Neha Chaudhary**
- **General Secretary : Priya Rajput**
- **Treasurer : Gursimran Kaur**
- **Joint Secretary: Anwesha Bhattacharjee**
- **Cultural Secretary: Priyal Kesarwani**

EVENTS

Summer Workshop

Formation of union

World Food Day

Inaugural Lecture

Career Guidance Session

Fresher's Orientation

Cinema Quizohilic

Quiz

Lecture

Revel

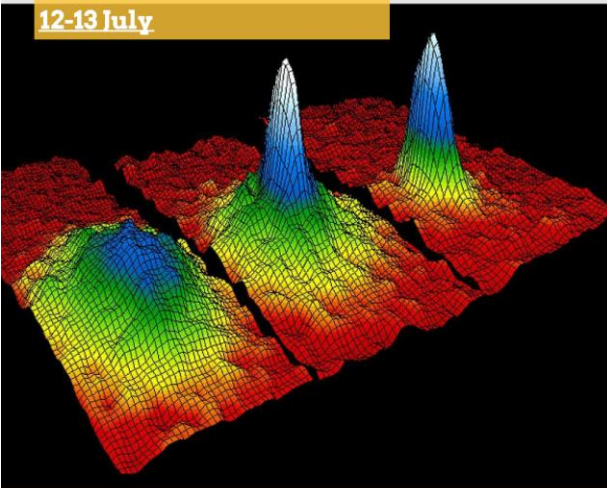
Memania

Farewell

Summer Workshop

A two day summer workshop was organized by the department during the summer vacations in July 2021. The first keynote address on “Single Crystal and Nano particles for Strategic applications” was delivered by Prof. Binay Kumar, Professor at Department of Physics and Astrophysics, University of Delhi. The second keynote address on “Extraction of oil from waste plastic” was delivered by Dr. Ritu Dhingra, Associate Professor at Maitreyi College. The lectures in the other sessions of the workshop were delivered by the following teachers of Gargi College; Dr. Alka Garg, Dr. Supreeti Das, Dr. Vandana Luthra, Dr. Hira Joshi and Dr. Archana Tripathi. The workshop was coordinated by Dr. Alka Garg.

**SUMMER PHYSICS
WORKSHOP-2021**
12-13 July



Convenor
Dr. Alka Garg

Organizing Committee
Dr. Supreeti Das
Dr. Vandana Luthra
Dr. Hira Joshi
Dr. Archana Tripathi

PHYSICS SOCIETY GARGI COLLEGE

Day -1, 12 July 2021				
Time	Event	Resource person	Affiliation	Topic
10:00 am	Inauguration	Teacher In Charge- Dr. Hira Joshi		
10:30-11:45 am	Key note Session-1	Prof. Binay Kumar	Department of Physics and Astrophysics, University of Delhi	Single Crystal and Nano particles for Strategic application
11:45 am-1:30 pm	Demonstration cum lecture	Dr. Archana Tripathi	Gargi College	Handling Crystal Structures with Diamond Software
1:30-2:00 pm	Lunch			
2:00-3:30 pm	PBL(Problem Based Learning)	Dr. Alka Garg	Gargi College	XRD-Analysis and applications
Day-2, 13 July 2021				
Time	Event	Resource person	Affiliation	topic
10:30-11:30 am	Key note Session-2	Dr. Ritu Dingra	Maitreyi College, University of Delhi	Extraction of oil from waste plastic
11:30 am -12:30 pm	Talk	Dr. Supreeti Das	Gargi college	Nonlinearity
12:30-1:30 pm	talk	Dr. Hira Joshi	Gargi college	Nanomaterials and their applications
1:30-2:30 pm	Lunch			
2:30-4:00 pm	Talk	Dr. Vandana Luthra	Gargi College	overview of machine learning and interdisciplinary applications
4:00-4:30 pm	Feedback and Valedictory Session			

Joining Link:
for 12 July- <https://meet.google.com/egk-ekua-yjo>
for 13 July- <https://meet.google.com/dcj-qjdm-jom>

Formation of union

The e-polling for the union posts was conducted in October 2021 after getting self nominations from 2nd and 3rd year students.

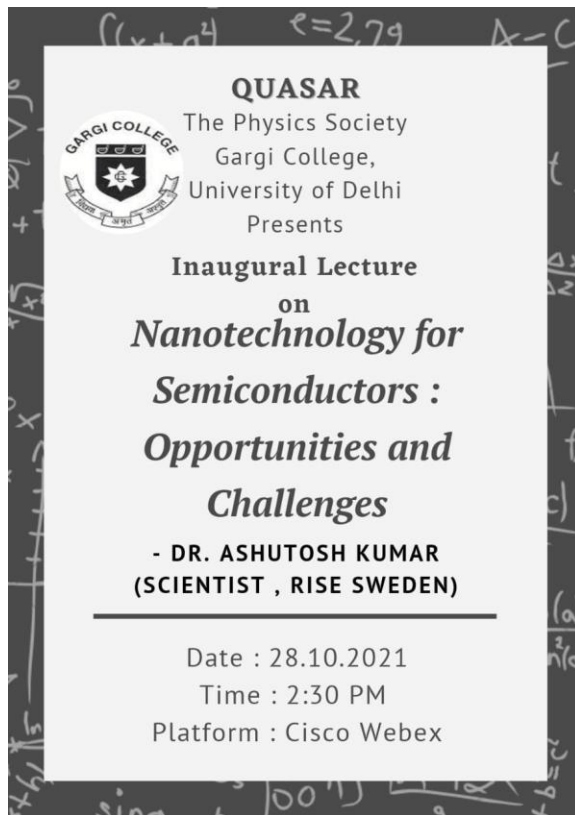
World Food Day

Quasar, the physics society celebrated world food day on Oct. 16, 2021 virtually with a documentary screening and a mind boggling quiz. The motto of the celebration was “Save food for a healthy tomorrow”.



Virtual Inaugural Lecture

The inaugural lecture was organised virtually on “Nanotechnology for semiconductors: Opportunities and Challenges”. The lecture was delivered by Dr. Ashutosh Kumar working as a scientist in RISE Sweden. The event was open to all students and faculty members of Gargi College. Along with the lecture, the newly formed Union of Quasar was introduced and the inauguration of the departmental magazine, Physikos 2020-2021 was done.



The poster is set against a background of mathematical equations and symbols. It features the Gargi College logo at the top left. The text is centered and reads: **QUASAR**
The Physics Society
Gargi College,
University of Delhi
Presents
Inaugural Lecture
on
Nanotechnology for Semiconductors : Opportunities and Challenges
- DR. ASHUTOSH KUMAR
(SCIENTIST , RISE SWEDEN)
A horizontal line separates the speaker information from the date and time details at the bottom.

QUASAR
The Physics Society
Gargi College,
University of Delhi
Presents

Inaugural Lecture
on
Nanotechnology for Semiconductors : Opportunities and Challenges
- DR. ASHUTOSH KUMAR
(SCIENTIST , RISE SWEDEN)

Date : 28.10.2021
Time : 2:30 PM
Platform : Cisco Webex



The screenshot shows a virtual lecture window. At the top, there is a header bar with participant names. The main content area displays the lecture title and speaker information. At the bottom, there is a row of logos for various institutions and companies. The Windows taskbar is visible at the very bottom of the image.

Nanotechnology for Semiconductors:
Opportunities and Challenges

Ashutosh Kumar
Scientist
Nanotechnology unit-Smart Hardware-Digital Systems
RISE Research Institutes of Sweden

Logos at the bottom include: University of Delhi, Gargi College, NIMS, Fuji Electric, SONY (make.believe), and RISE.

Career Guidance Session

Quasar then organised the career guidance session on JAM and JEST “Irshaad” for the students on 21 November, 2021. Our former students Ms. Tanvi (AIR-143 JEST) and Ms. Manisha (AIR-388, IIT JAM) shared the tips and tricks for cracking the exams.

QUASAR
The Physics Society
Gargi College
Presents

IRSHAAD :
guidance session for IIT-JAM
and JEST -2021

By -



Ms Manisha
AIR-167 in JRF(NET) in
CSIR [June 2019].
AIR-388 in IIT-JAM [2018].



Ms Tanvi Sharma
Cleared JEST -2018 (AIR 143)
Cleared GATE 2018 (AIR 744)

Schedule
21 November , 2021
Timing :- 4 PM
Link :- Google Meet

sharma is presenting

Syllabus and how to prepare?

- ▶ Core subjects : Mathematical Physics, Classical, Quantum, Thermal and Stat Mech, Electronics, EMT and optics. (JEST syllabus is on their website)
- ▶ Syllabus is concise and relatively small as compared to other competitive exams
- ▶ Based on critical thinking and covers core subjects , you don't have to memorise much stuff.
- ▶ Curriculum in Undergrad should be sufficient. Pick any book in your curriculum and follow topicwise.
- ▶ Solve as many previous papers as you can.
- ▶ You can also prepare without coaching. [Totally your choice. Worked for me]
- ▶ WORK HARD and enjoy the process!

tanvi sharma

AIR-143 JEST

Manisha

NEHA Choudhary

Shruti Yadav

Nandini Singh

AIR-388 IIT JAM

Manish

Rashmi Gangani

Laoni Godara

Tanya Sharma

Priya Rajput

Dr. Supriya Das

Vandana Luthra

Archana Tripathi

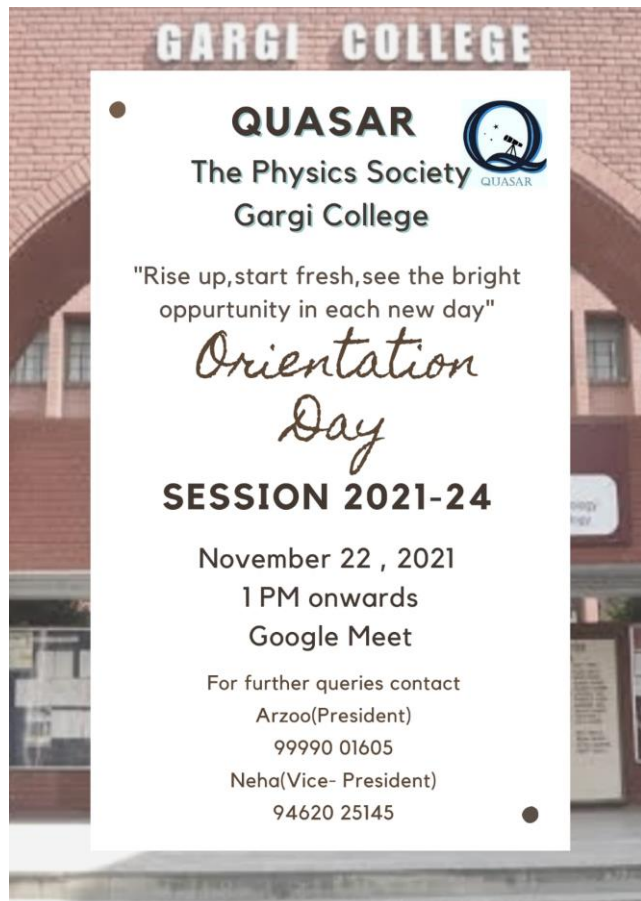
25 others

You

eqv-dccq-www

Fresher's Orientation

For the first year students of B.Sc. Physics Honors Quasar organized the orientation day on 22 November, 2021. The students were formally welcomed and introduced to the department and college societies and guided by the teachers.



Cinema Quizohilic

Quasar then organized a stress buster activity namely 'Cinema Quizohilic', a quiz on Bollywood on 16 January, 2022.



Quiz



GARGI COLLEGE
UNIVERSITY OF DELHI
ACCREDITED WITH GRADE 'A' BY NAAC

**Department of Physics & Department of
Microbiology present a Quiz on**



AIR POLLUTION: CAUSES, PREVENTION & REMEDIES AND POLICIES

**UNDER THE AEGIS OF NATIONAL ACADEMY OF
SCIENCES- NASI SCIENCE-SOCIETY PROGRAM**

Patron

Prof. Promila Kumar
Principal
Gargi College (Off)

Patron

Prof. Ajoy K Ghatak, IITD
President, National Academy of
Sciences

Chair

Prof. Anurag Sharma, IITD
Chairperson - National Academy of
Sciences, Delhi Chapter

**Supporting
Partners**



Participation: School, UG and PG Students
Date: 6 February 2022
Time: 3:00 - 4:00 PM

Conveners

Prof. Vandna Luthra
Physics Dept.
Gargi College
9811794118

Prof. Shashi Chawla
Microbiology Dept.
Gargi College
9818811070

phys.gargi@gmail.com

Link <https://forms.gle/e37gesgxzQ1jNAFE8>

V IMP: *NO PRIOR REGISTRATION IS REQUIRED* *LINK WILL ONLY BE OPEN AT 3.00 PM on 6 FEB 2022*

Virtual Lecture

Quasar also organised a lecture virtually on “Why I loved science” which was delivered by Dr. Kajol Banarjee, a retired principal scientist from GE’s Global research Center at Bangalore on 9 February, 2022.

**QUASAR
THE PHYSICS SOCIETY
GARGI COLLEGE**
presents
LECTURE ON
I loved science....
By :- Dr. Kajoli Banerjee Krishnan
Retired Principal Scientist at
GEs Global Research Centre ,
Bangalore

**SCHEDULE :-
FEBRUARY 9, 2022
WEDNESDAY
3 P.M ONWARDS**

**For any queries contact :-
Arzoo Dagar (President)
Neha Choudhary (Vice - President)**

The screenshot displays a virtual lecture interface. The main content area shows a presentation slide titled "Ultrasound Imaging" which includes a photograph of an ultrasound machine, a diagram of a probe's internal structure with labels like "Acoustic matching layer", "Acoustic lens", "Piezoelectric element (transducer)", and "Backing material", and a 3D model of a "Convex type probe". Above the slide, a toolbar contains icons for "Unmute", "Start video", "Share", and other controls. To the right, a "Participants (33)" list is visible, showing names like Gursimran Kaur, KAJOLI, Arzoo Dagar, and others. Below the presentation, a grid of video feeds shows several participants: Gursimran Kaur, kirti pandey, a participant with ID 72883, Arzoo Dagar, Priyal Keswani, and Afreen bano. At the bottom, another toolbar includes "Unmute", "Start video", "Share", and "Participants" buttons.

REVEL



GARGI COLLEGE

UNIVERSITY OF DELHI
ACCREDITED WITH GRADE 'A' BY NAAC

DBT Star Status College

NIRF Ranking 16 (2020)

India Today Rankings (2020)

Arts (9), Science (12) and Commerce (14)

SCIENCE & MATHEMATICS DEPARTMENTS



UNDER THE AEGIS OF NATIONAL ACADEMY OF SCIENCES, INDIA (NASI)
SCIENCE-SOCIETY PROGRAM BY NASI DELHI CHAPTER

&

IN ASSOCIATION WITH IQAC

cordially invite you for

REVEL - A Paper Presentation Event

to celebrate

**THE ETHOS OF THE NATIONAL SCIENCE DAY AND
NOBEL PRIZE OF SIR C.V. RAMAN**

THEMES

**Integrated Approaches in Science and Technology for a Sustainable Future, Ministry of
Science & Technology, Govt. of India
International Year of Basic Sciences for Sustainable Development by United Nations**

PATRONS

Prof. Promila Kumar
Principal, Gargi College (Offg.)

Prof. Ajoy K Ghatak
Former Professor, IIT (Delhi)
President, NASI

**NATIONAL
SCIENCE DAY**

February 28, 2022

ADVISORY MEMBERS

Prof. Anurag Sharma, Former Professor IIT (Delhi) & Chairperson, NASI, Delhi Chapter
Dr. Shashi Tyagi, Former Principal & Associate Professor, Department of Botany, Gargi College
Dr. Sushmita Choudhary, Former Associate Professor, Department of Chemistry, Gargi College
Dr. Nisha Gupta, Former Associate Professor, Department of Physics, Gargi College

CONEVENERS

Pls-National Academy of Sciences
Science-Society Program at Gargi College

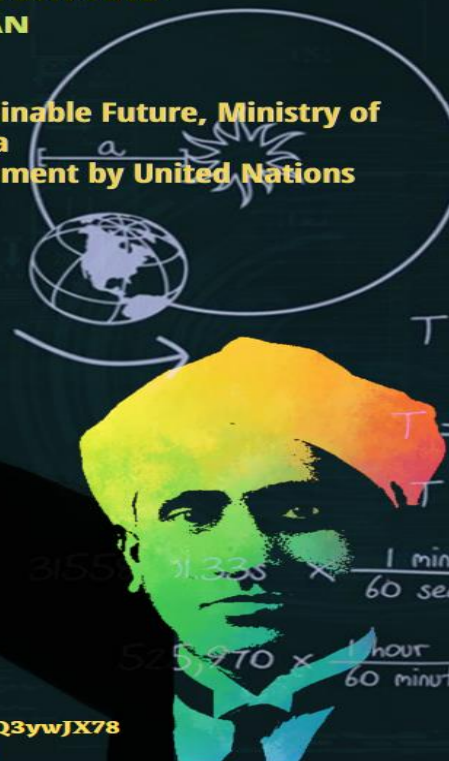
ORGANISERS

TARU, Department of Botany
RASGANDHYAN, Department of Chemistry
MATHEMA, Department of Mathematics
GERMS, Department of Microbiology
QUASAR, Department of Physics
ALBATROSS, Department of Zoology
ZENITH, Association of Physical and Life Sciences

**TIME: 28 February 2022, 4.30 PM onwards
For Queries: phys.gargi@gmail.com**

Technical Support : Mr. Anuj Bharadwaj

**Link for the registration: <https://forms.gle/n1DBtnhLGQ3ywJX78>
Last date for Registration: 23 February 2022**



Memania

Quasar then organised memania – a meme making competition in March, 2022. The theme of the event were “Perks of being a Physicist”, “Physics in our daily life”, “Astronomy and Astrophysics”.

 QUASAR
The Physics Society
Gargi College
University of Delhi
presents

INTER-COLLEGE MEME
MAKING COMPETITION

MEMANIA

THEMES :-

- Perks of being a physicist
- Astronomy and astrophysics
- Physics in daily life

**** Entries are acceptable
till 20 March, 2022**

Registration Link
https://docs.google.com/forms/d/e/1FAIpQLSdE5OOTp5PIIP-K_5QEdhyrC7KK4hNOI6jzH4Yupc-CWEzQ/viewform?usp=pp_url

Winners will be provided E-certificate and shoutout on our Instagram handle

For any queries contact :-
Arzoo (President) - +91 999901605

Quasar
The Physics Society
Gargi College
presents

Entries for Memania

POORNIMA SHUKLA

MY GIRL ALWAYS
GOING AGAINST WHAT
I SAY

ME - ARE YOU
ELECTROMAGNETIC
INDUCTION?

Stress existing
in lives of
normal people

Stress existing
in both life and
book for physicists

Me after watching weird
youtube theories

Is this reflection is my
doppelganger in another
dimension!

When someone asks me if they
should date someone or not:

Have you ever heard of
Schrodinger's cat?

Namra Arya

CHAHAT KOHLI

Interviewer : What would you say is your
biggest strength?
Me: I am very fast at physics.
Interviewer : Alright. What is the SI unit of
Charge...?
Me : Coulomb..
Interviewer : What..No that's not even close.
Me : No, but it was fast.

Me : Interviewer :

RIDDHI JAISWAL

KHUSHBOO SHARMA

Farewell

