



# NUCLEAR NEWS

THE MONTHLY NEWSLETTER

OCTOBER 2020

*Indian Youth Nuclear Society (IYNS) is a non-profit organization with the aim to spread awareness about the benefits of nuclear energy among general public and to encourage our youth to learn and contribute to the nuclear energy program.*



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# FOREWORD

*"I am honoured to be writing the foreword for the October issue of IYNS newsletter. IYNS has been involved in various activities for furthering awareness in public about climate change and the need for a low carbon energy mix to prevent further damage to environment. We at IYNS firmly believe that nuclear technology, by virtue of its inherent characteristics, forms a major piece in the multi-pronged strategy to address climate change along with other renewable sources.*

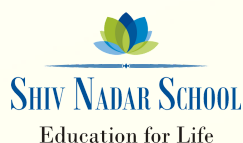
*IYNS is composed of people from different backgrounds and enables multi-disciplinary collaboration among the members. One can become a part of a group working on an initiative and leverage the capabilities of the other team members. The team work that ensure results in the whole being greater than sum of the parts. Moreover, the reach a platform like IYNS is able to provide results in the work you do being far more impactful. One such initiative that is ongoing is the Energy Bootcamp (EBC) conducted in association with Shiv Nadar School. Through the initiative of EBC, IYNS is focusing on creating awareness in the students from different age groups about the various aspects of energy generation and the measures we should be taking for a sustainable future. These students are leaders of tomorrow, and we, at IYNS feel it is imperative that they develop the critical thinking to navigate the future.*

*I have been working for IYNS as a project manager and presently as the member-coordinator for the content team for the EBC. The team comprises of talented individuals with an established research record in their domain of expertise. Given this team of experts, all I have had to do is to identify the role each of us will play and structure the efforts of the team towards fulfilling the goal of developing content that is understandable by students in the form of a "knowledge booklet". Furthermore, we as a team have been involved in developing quizzes and appropriate projects for the students. We are able to reach five schools and more than 2000 students so far by the way of this initiative.*

*I implore our readers to contact us at IYNS to find out more about our activities and contribute, or, better still, propose an activity you are passionate about and we will find like-minded people within our fraternity and make it possible!"*

*Mr. Ganesh V  
Project Manager (IYNS)*

# HIGHLIGHTS OF THIS MONTH



## Energy Boot Camp October 6, 2020

IYNS, in association with Shiv Nadar School, organized an Energy Boot Camp. The event had a stellar online launch on October 6, 2020 (<https://bit.ly/2JrPKB5>). During this event, the IYNS team was joined by Col. (Retd.) Gopal Karunakaran (CEO, Shiv Nadar School), along with the faculty members and students of Shiv Nadar Schools and VidyaGyan Schools.



Post the launch event, the Boot Camp was officially open to all Shiv Nadar School and VidyaGyan School students from classes 6-12th, in which students from the Noida, Gurugram and Faridabad Branches of Shiv Nadar School and Buland Sahar and Sitapur Branches of VidyaGyan School actively participated. The event featured various fun-filled activities and interactive sessions for the students, to help them understand more about energy and the environment.

During this preliminary phase of the Energy Boot Camp, the students competed in Creative Activities Contests (such as Painting, Rap/Poem writing, Digital Art, Cartoon/Meme making, Video making and Slogan/Tag-line writing) on the central theme of "Sustainability: Energy and Environment", and actively engaged in Interactive Experiment Sessions hosted by team IYNS on the basics and the applications of Nuclear Science & Technology.

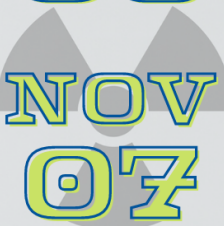
Apart from this, the students also took part in the first round of the Inter-School Competition - Quiz Session and our team IYNS received a whopping response of over 1800 participants. Following this immense response, the participating schools have shortlisted 45 students on merit basis and formed 15 teams consisting of 3 students each, that will be taking part in the upcoming rounds of the Inter-School Competition. The upcoming rounds of this competition will engage the students in activities such as conducting video surveys on the theme "Public Opinion on Nuclear Energy, Radiation Applications and Climate Change" as well as taking part in Technical and Philosophical Group Projects along with Team Mentors (consisting Nuclear Professionals, IYNS team and school faculty).

In the end, four teams will enter the Finale Round, where they will participate in the 'Youth Parliament' on the theme "Sustainability: Energy and Environment" along with the Eminent International Experts and Panelist from various fields. The winning team will be decided by the Jury, based upon the cumulative scores of Rounds 2, 3 and 4, and will be eligible for the prestigious Dr A.P.J. Abdul Kalam fellowship of IYNS.

The upcoming rounds of the Inter-School Competition will be conducted in parallel to three-day Interactive Lecture Series planned by IYNS on the "Basics and Applications of Nuclear Technology" and the Virtual Visits to the Indian Nuclear Facilities on November 6-8, 2020. In addition to this, there will be a special session dedicated to the "Role of Nuclear Technology against Climate Change". These interactive lecture series are open to all public and we encourage our followers and readers to participate in it by visiting <https://bit.ly/31XWtcp>. Also, for more information on the event, we request our readers to visit our webpage <http://iyns.in/energy-boot-camp/>.



**INTERACTIVE SESSIONS ON  
BASICS & APPLICATIONS OF  
NUCLEAR TECHNOLOGY**



**NOV 06**

**BASICS OF NUCLEAR TECHNOLOGY**  
<https://bit.ly/3jiLn7l>  
10:00AM - Introduction + Role of Nuclear in Climate change  
10:40AM - Fundamentals of Science  
11:40AM - Radiation & Radioprotection


**NOV 07**

**REACTOR APPLICATIONS**  
<https://bit.ly/37ynWEW>  
10:00AM - Nuclear Applications  
10:40AM - Fission Technology & Reactors  
11:45AM - Nuclear Fuel Cycle & Waste Management  
12:25PM - Fusion Technology & Reactors

**NOV 08**

**YOUTH PARLIAMENT "SUSTAINABILITY: ENERGY & ENVIRONMENT"**  
<https://www.youtube.com/playlist?list=PLvzK-4TYf7PFi7UdFWWP74x4xYy1Bde2H>

- Prize Distribution
- #Nuclear4Climate Photo Campaign



**SHIV NADAR SCHOOL**  
Education for Life

For more information visit  
<http://iyns.in/energy-boot-camp/>

## "Being Informal With Dr. Ravi Bhushan Grover..." IYNS's original Tête-À-Tête Series (October 25, 2020)



The IYNS team had another successful episode of its original Tête-À-Tête Series: "Being Informal With..." on October 25, 2020, with Dr. Ravi Bhushan Grover (*Emeritus Professor, Homi Bhabha National Institute; Member of the Atomic Energy Commission of India*). An Indian nuclear scientist and a mechanical engineer by profession, Dr. Grover is the founding Vice Chancellor of the Homi Bhabha National Institute, Mumbai. A well known proponent of nuclear energy in India, he is an editor of the International Journal of Nuclear Knowledge Management. Furthermore, Dr. Grover is one half of the Kakodkar-Grover duo who are chiefly responsible for the success of the Indo-US negotiations that culminated in the 123 Agreement signed in July 2007. During this session, Dr. Grover and Dr. Singh were also joined by Shri Shiv Abhilash Bhardwaj (*Former Chairman, AERB*), Prof Vasudeva Rao (*Vice chancellor, HBNI Former director, Indira Gandhi Centre for Atomic Research*) and Dr K L Ramakumar (*Principal advisor, strategy and planning group, DAE Former president, Indian Association of Nuclear Chemist and allied scientists*).



Our host engaged Dr. Grover in an insightful discussion on his journey from the field of Engineering into Research, to which he heartily shared with us the course of his life in Engineering College and the BARC Training School and how his experiences and interactions with fellow students and teachers was challenging yet satisfying and also how it helped him to transform his professional life. He shared with us his journey into the realm of Nuclear Law and how being a part of the expert team to examine Multilateral approaches to nuclear fuel cycle (organized by IAEA) paved his way into the future. Dr. Singh also asked Dr. Grover about Nuclear Diplomacy and his role in the Indo-US Nuclear Deal. Dr. Grover told us about the level of intricacy involved in the deal in terms of conducting negotiations with the USA, French and Russian Governments, along with holding outreach with members of the Nuclear Supply Group to enter into nuclear trade with our nation, and hold negotiations with the IAEA for safeguard agreements on the technical, legal and diplomatic aspects. He also told us how the Pokhran Peaceful Nuclear Test of 1998 resulted in the halt of nuclear co-operation, but did not stop India's research team to develop a whole range of nuclear reactor technologies to fuel fabrication, reprocessing and waste management technology and how it lead to India's independence in the field of nuclear technology development.

Dr. Grover also shed some light on the motivation behind setting up the Homi Bhabha National Institute (HBNI), which is to ensure India's self-sufficiency in conducting academic research in the field of nuclear technology, and to develop technology based on the in-house research. He also discussed with us the initial challenges which he, being the founding Vice Chancellor of the Institute, had to face with his team while establishing an institute that solely focuses on Nuclear Technology - a multi-disciplinary field.

Our accompanying guests also shared their experiences of being involved with Dr. Grover on a personal and a professional level. **Dr. Ramakumar** told us about the time when he took over Dr. Grover's role in nuclear diplomacy and how by following his policy of finding the most constructive way to carry out negotiations at an international level while keeping in mind our nation's interest helped him to successfully carry out more nuclear deals under his leadership. Furthermore, **Shri Bhardwaj** and **Dr. Rao** applauded Dr. Grover for his disciplined and responsible nature, and his zealousness to carry out all that he was entrusted with. Dr. Rao also stressed on the need for nuclear education in our nation, its connection with India's Energy Security and how it was imperative to establish an academic research organization as HBNI. Shri Bhardwaj and Dr. Grover, who played an important part in the establishment and organizing of early activities of IYNS, also applauded the efforts of IYNS team and appreciated the range of awareness activities being carried out by the organization.



We would like to thank Dr. Grover and our guests once again for taking out the time to share these inspiring stories with us. We also express our sincerest gratitude towards our viewers for supporting this venture. We look forward to your active participation in our upcoming episodes as well!

# OUR UPCOMING EVENTS

## Interactive Sessions and Youth Parliament: Energy Boot Camp November 6-8, 2020



Continuing the activities and interactive sessions of the Energy Boot Camp, IYNS and Shiv Nadar School are jointly organizing a three-day **Interactive Lecture Series** on the *"Basics and Applications of Nuclear Technology"* and **Virtual Visits to the Indian Nuclear Facilities** from November 6-8, 2020. These interactive lecture series are open to all public and we encourage our followers and readers to participate in it by visiting <https://bit.ly/31XWtcp>.

The final day of the Interactive Sessions is the **Youth Parliament** event on the theme *"Sustainability: Energy and Environment"*. This Youth Parliament is a fantastic opportunity for the students of Shiv Nadar School and VidyaGyan Schools to interact with the Jury Panel composed of eminent scientists and experts from the field of Nuclear Technology.

The poster features a world map background. At the top left is the IYNS logo, and at the top right is the Shiv Nadar School logo. The text reads: 'Indian Youth Nuclear Society & Shiv Nadar School presents YOUTH PARLIAMENT on "Sustainability: Energy & Environment"'. Below this, under the heading 'Our Panelists', are four portraits with their names and affiliations: Dr. Kapil Narula (University of Geneva), Dr. Nandakumar Janardhanan (Jawaharlal Nehru University, Nuclear First), Prof. Patrick Das Gupta (University of Delhi), and Dr. Nitendra Singh (Indian Youth Nuclear Society). At the bottom, it says 'Alongwith student teams from Shiv Nadar Schools & VidyaGyan Schools', 'November 8, 2020 @ 10H55 (IST)', and provides a YouTube playlist link: <https://www.youtube.com/playlist?list=PLvzK-4TYf7PEi7UdFWWP74x4xYy1Bde2H>. A small graphic on the right shows a lightbulb, a wind turbine, and a recycling symbol.

For more information visit: <http://iyns.in/energy-boot-camp/>

## Getting to know our scientists better..



The IYNS team is proud to present its guest for the upcoming **episode** of our chat show - "**Being Informal with...**" which is to be aired on its YouTube channel on November 29, 2020. Our goal is to air interactive sessions with the eminent scientists of our nation, every month on our YouTube channel.

As the name suggests, the talk will be informal and very casual. Through these sessions, our host Dr. Nitendra Singh brings to you their non scientific/technical side along with their experiences, life lessons and their advice.

Our guest for this session is **Dr Dinesh Kumar Aswal** (*Director of CSIR-National Physical Laboratory and Outstanding Scientist of Physics Group, BARC*). Dr Aswal has been associated with the CSIR- National Physical Laboratory (CSIR-NPL), New Delhi with effect from 15th December 2015 maintaining lien with his position as "Outstanding Scientist" at Bhabha Atomic Research Centre (BARC), Department of Atomic Energy (DAE), Government of India, Mumbai. Dr. Aswal, during 2012-2015, has also served as Secretary, Atomic Energy Education Society (AEES), Mumbai, which is an autonomous institution under DAE.



We invite all our followers to actively participate in the sessions and also bring them the opportunity to ask their own questions to our guests by posting them on our website <http://iyns.in/being-informal-with/>.



# MEET OUR TEAM

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# REACH OUT TO US!

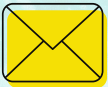
Join us to help our cause to support Nuclear Energy!

To register at IYNS : <http://iyns.in/iyns-registration/>

For more information visit <http://iyns.in/contact/>



Handmade 'Rangoli' made by students of Nutan Mahavidyalaya, Maharashtra



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