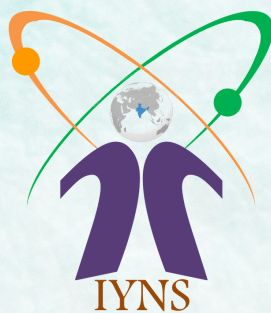




NUCLEAR NEWS

THE MONTHLY NEWSLETTER
AUGUST 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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EDITOR'S NOTE

"My journey with IYNS began not a long time back. I remember the countless discussions with Dr. Nitendra Singh about the various activities happening at IYNS and then just one day we both came to a conclusion that why don't I join this initiative! I must admit, from the first day itself, I felt right at home. I am thankful to all the team members for including me in this active group of individuals. We may come from different walks of life but it is our passion for innovation and developments in nuclear technology that binds us all.

Our nation today is battling against the pressing issues of global warming, increased energy demand and pollution. The current scenario calls for immediate measures to mitigate this adversity and we at IYNS believe that Nuclear technology is one of the imperative solutions for it. Our goal at IYNS is to engage the Indian public in activities and discussions that aid us in answering their questions on how nuclear technology can become a vital part of India's strategy on becoming a low-carbon economy. I truly believe that with the ever-increasing support and participation of all our members, this initiative will go a long way in making a positive impact on our nation's current energy and climate change scenario.

Finally, I would like to thank all our readers who made the first issue of this newsletter successful. I sincerely hope that you all find the second issue equally interesting. Happy Reading!"

*-Dr. Vaishnvi Tiwari
Editor-in-chief (IYNS)
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HIGHLIGHTS OF THIS MONTH

Premier episode of IYNS's original Tête-À-Tête Series: "Being Informal With..." (26 July, 2020)



The IYNS team successfully launched the premier episode of its original Tête-À-Tête Series: "Being Informal With..." on July 26, 2020, with Dr. Anil Kakodkar (Former chairman, Atomic Energy Commission of India) as its first guest.

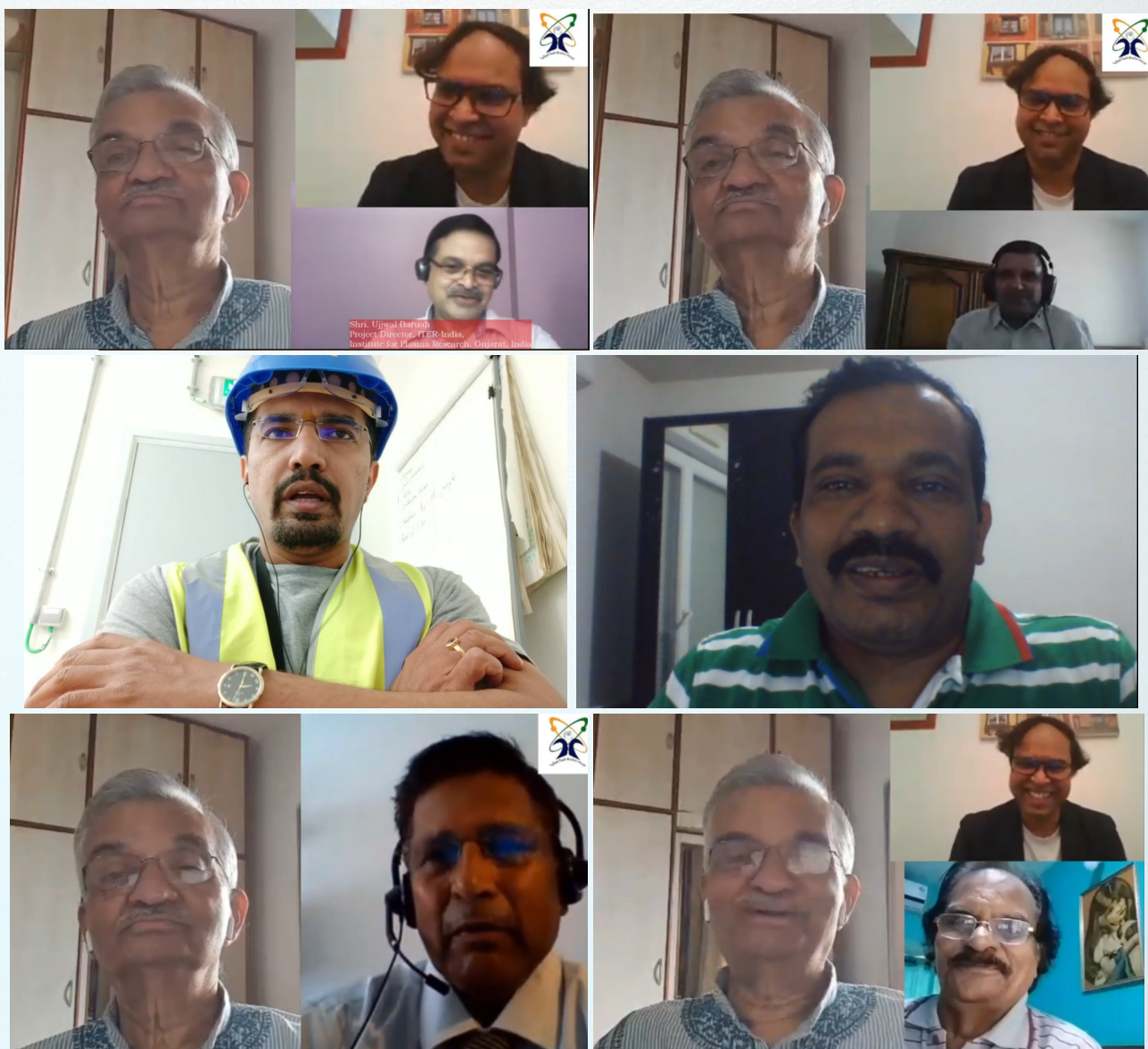
During this session the IYNS President Dr. Nitendra Singh engaged Dr. Kakodkar in a discussion pertaining to his personal journey as a scientist. Dr. Kakodkar graciously shared with us the course of his life from childhood to his present position, and how his experiences shaped his current professional life. It was a rare opportunity for us to hear about Dr Kakodkar's journey in his own words.

Dr. Kakodkar was also present at the ITER Cadarache during the arrival of the Cryostat (manufactured in India) on July 26, 2019. When asked about his experience at this event, he expressed his gratitude towards the ITER Organization for inviting him to be a part of the hand-over ceremony and stated that it was a great milestone for the ITER project as well as for India as a nation. He emphasized the importance of this event to the technological advances being made in the field of fusion energy and affirmed the significance of fusion energy in combating the pressing problems of global climate change and ever-growing energy demand. He also discussed about the importance of Fusion Reactor technology for India's development and mentioned how this project and India's participation in it will help not only with the nation's R&D efforts to develop fusion technology, but also further our nuclear energy program in the long term.



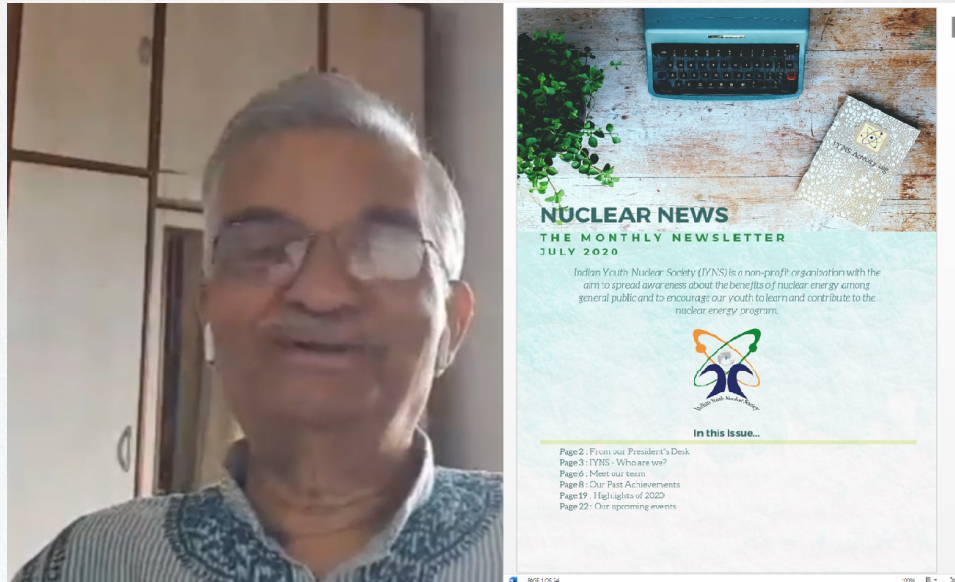
During this discussion, we were also joined by our guest members: Shri Ujjwal Baruah (Project director, ITER India), Shri Anil Kumar Bharadwaj (Group Lead, In-Cryostat, CTS & Auxiliaries Section at ITER), Dr. Prabhat Kumar (Senior Advisor, Construction Management at ITER) and Shri Swapnesh K. Malhotra (Secretary, Indian Nuclear Society and Former head, Public Awareness Division, DAE), who happily shared their stories and personal experiences while interacting with Dr. Kakodkar. Additionally, **Shri. Baruah** explained about the complexities involved in successfully carrying out the construction of the reactor components at such a large scale. **Dr. Prabhat Kumar** shared with us his experience on India's Fast Breeder Reactor Technology (a part of the second stage of the Indian Nuclear Program) and laid emphasis on increased participation of India in the ITER project and the need for assimilation of the acquired knowledge and expertise to be applied to the India's fusion programme in future.

We also shared messages recorded by our guests who could not join us for the chat show : **Mr. Manoj Panchaal** (Commission Engineer at ITER) and **Mr. Amit Pawar** (In-Field Structural Engineer at ITER) who expressed his awe and respect for Dr. Kakodkar and his efforts towards getting India on-board the world's largest and most unique clean energy project.



Dr. Singh asked Dr. Kakodkar to share his memories and his experience as a participant of India's Peaceful Nuclear tests that were conducted at Pokhran in the years 1974 and 1998, to which his response was very humbling and inspiring.

Dr. Singh also requested Dr. Kakodkar to inaugurate the **launch of the first issue of IYNS's Newsletter: Nuclear News**, to which he responded enthusiastically. He congratulated all the members at IYNS and applauded their efforts towards spreading awareness about Nuclear Energy and its applications.



In conclusion, we asked Dr. Kakodkar to nominate three Indian scientists which we should invite for our future episodes at Being Informal With... Dr. Kakodkar nominated Dr. S. Banerjee (Chancellor, Homi Bhabha National Institute), Dr. R. Chidambaram (Former Principal Scientific Advisor to the Prime Minister of India) and Dr. K. Sivan (Chairman, ISRO).

We would like to thank Dr. Kakodkar and our guests once again for taking out the time to share these inspiring incidents with us. We also express our sincerest gratitude towards our viewers for making this premier episode a great success. We look forward to your active participation in our upcoming episodes as well! We invite all our members to view the second episode of **Being Informal With... Dr. Srikumar Banerjee** that was aired on our YouTube channel on August 30, 2020 at 17H30 (IST): <http://youtube.com/c/IndianYouthNuclearSocietyIYNS>.



IYNS Annual General Body Meeting (9 August, 2020)

The IYNS team held its Annual General Body Meeting on August 9, 2020. This was the first General Body meeting where all the members of the Society were invited. The main agenda of this Annual meeting was to present to our members a brief description of the society, our past work and activities. During this meeting, our President Dr. Nitendra Singh explained to our members about the IYNS initiative and the organization structure, i.e. the three wings of IYNS - **Nuclear Technology Outreach Wing (IYNS-NTO)**, **Climate and Energy Forum Wing (IYNS-CEF)** and **Innovation and Technological Wing (IYNS-Innotech)**.

Dr. Singh explained about the different teams that are handling the various projects at IYNS and encouraged the members to actively participate in the projects. Following this brief description, the team leaders explained to the attendees about their ongoing respective projects. Dr. Singh also announced the upcoming events planned by IYNS:

- Launch of the Indian Chapter of **Women in Nuclear (WiN - India)**.
- Launch of a **Nation-wide Plantation Drive** that focuses on raising awareness among people regarding the current problem of climate change.
- Organization of a five-day **Workshop on Nuclear Security** in collaboration with Amity Institute of Nuclear Science & Technology (Noida).
- Organization of an **Energy BootCamp** in collaboration with the Shiv Nadar School (Noida), aimed at educating young students about the applications of Nuclear Technology through a series of interactive lectures, experiments, quizzes and contests.
- Organization of the **North-East Outreach Programme** in collaboration with the University of Science and Technology, Meghalaya. This interactive session targets the research scholar level students from diverse disciplines who are enthusiastic about nuclear energy and would like to know more about Nuclear Technology.

Towards the end of this meeting, the member participants were engaged in a Q&A session, where our President and General Manager Ms. Sunaina Kundra answered the queries from some of our members.



Launch of Women in Nuclear - India "WiN-India" (15 August, 2020)



On August 15, 2020, IYNS team organized the launch of the **Women in Nuclear-India (WiN-India)** via the online YouTube platform.

WiN - India, is an initiative that started back in **2012** to give the much-deserved recognition to our women fraternity in the Indian nuclear sector. Inspired by WiN Global, **WiN - India** will also act as the **Indian chapter of WiN Global**. It is an independent organization of women associated with the Indian nuclear sector including the **Department of Atomic Energy (DAE)**, associated private industries, medical industries, educational and research institutions. The main objective of **WiN-India** is to acknowledge and promote the contribution of women in Indian nuclear program. Furthermore, the association also works towards encouraging the young females to choose nuclear as their career of preference.

Women in Nuclear Global (WiN Global) is a world-wide non-profit organization of women working professionally in various fields of nuclear energy and radiation applications. Founded in 1993, today WiN Global has around 35,000 members including chapters' members and individuals from 109 countries including international and regions. WiN Global has over 32 national, regional and international chapters throughout the world, with women and men working professionally in medicine and health care, in regulatory authorities, in industry and as independent researchers as its members.

The launch was successfully organized by the IYNS team and the board members of WiN-India in the esteemed presence of our chief-guest **Dr. R.B. Grover** (Member of the Atomic Energy Commission of India, Founder and former Vice Chancellor of Homi Bhabha National Institute). The organization was introduced by **Dr. Mary Mohankumar** (former Scientist at IGCAR and a member of the Board of Directors for WiN-India).

Dr. Mohankumar talked about the objectives of the organization and formally introduced all the members of the Board of Directors :

Dr. Mary Mohankumar (Former Scientist, IGCAR) : Currently associated with the Centre for Environmental Nuclear Research SRM Institute of Science and Technology, Dr. Mohankumar has worked for over 25 years as Scientist at the Department of Atomic Energy (Radiological Safety Division, Indira Gandhi Centre for Atomic Research), Kalpakkam, India. A recipient of the HICARE award for Research in Radiation Biology, she is a pioneer in research on DNA damage using Comet assay.





Dr. Umashankari Kannan (Head, Reactor Physics Design Division, BARC) : With a rich experience of 34 years in the field of Reactor Physics, Dr. Kannan is well known for her work on the design of thorium fuelled Advanced Heavy Water Reactor (AHWR), Indian Pressurized water reactor (IPWR) and advanced thermal reactors such as High temperature reactors and Molten salt breeder reactors. She is also recognized for her notable contributions to the physics design for AHWR and IPWR. Furthermore, she is leading the team for experimental reactor physics activities and irradiation in reactors and other facilities.

Dr. Manpreet Sethi (Senior fellow, Centre for Air Power studies) : A recipient of the prestigious K Subrahmanyam award, Dr. Sethi has a vast experience in nuclear issues ranging from nuclear energy to strategy, arms control and disarmament. She has authored the book **Nuclear Strategy: India's March towards Credible Deterrence (2009)** - one of the essential reads at many war colleges, and is known for her contribution to United Nations Institute for Disarmament Research (UNIDIR) in their work on hypersonic missiles, and nuclear risk reduction.



Dr. Alpana Goel (Director, Amity Institute of Nuclear Science and Technology) : Dr. Goel is an Ambassador of India to the World Institute for Nuclear Security (WINS). Doctorate in Nuclear Physics (from IIT Roorkee) with a strong interest in the areas of Nuclear Structure Physics and Nuclear Security, she has more than 35 years of experience in graduate and post-graduate level teaching. She is a life member of IAPT, IANCAS and INS.

Mrs. Manju Gupta (Former President, AREVA-India) : A Nuclear professional with wide experience of over 35 years, Mrs. Gupta has held senior positions in large multinational and national organizations. As the President and Managing Director of AREVA India Pvt. Ltd., Mrs. Gupta was responsible for overall operations of the Indian business entity. Prior to joining AREVA, she worked for 3 years with ATKINS, one of the largest engineering consultancies in UK.





Mrs. Archana Yadav (Assistant Professor, Amity University) : Mrs. Yadav holds an M.Tech Degree in Nuclear Science and Technology from University of Delhi and a Masters Degree in Nuclear Energy: Operations from Ecole Centrale Paris. Presently, she is appointed as an Assistant Professor in the department of Nuclear Science & Technology at Amity University Uttar Pradesh, Noida Campus, India. Prior to this, Mrs. Yadav was appointed as a Senior Engineer Nuclear Science at PM Dimensions Pvt. Ltd.

Mrs. Kritika Kaur (Technical Manager & Radiological Safety Officer, Nuvia-India) : A Nuclear Engineer by profession, Mrs. Kaur has over 8 years of experience in design, calibration of radiation monitoring instruments, R&D, Consultancy and Trainings. She has extensively worked in India and abroad on various projects and has spearheaded radiation consultancy and trainings for various clients such as Unilever, Lupin Limited, Oil India Limited, Larsen and Toubro, Century Pulp and Paper, Tata Steel, GAIL, BHEL, Petromasila Yemen and NDRF.



Dr. Jyoti Gupta (Former Scientist, BARC) : Currently based in London, she is a research scientist with 7+ years of experience in the field of nuclear material characterization, material testing techniques and corrosion of materials. She holds a PhD in Material Science and Engineering from University of Toulouse (INP- Toulouse) and Alternative Energies and Atomic Energy commission (CEA) Saclay, France. She was awarded the prestigious KSKRA fellowship in the year 2018 to work on the prospects of using naturally occurring minerals for waste disposal. Consequently, she conducted first of a kind (in India) material characterization on one of the potential naturally occurring mineral.

Dr. Nitendra Singh (President, IYNS) : Currently living in France, Dr. Singh is the founder and President of IYNS. A Nuclear engineer by profession, he is fond of traveling, photography, hiking and also passionate about cooking. His research interests include nuclear safety & design, reactor thermal hydraulics and Nuclear severe accidents. Furthermore, he is an avid speaker on Nuclear4Climate, advanced technologies and public awareness.



Dr. Aakanksha Saxena (Diagnostics Integration Engineer, ITER) : A Nuclear Research Engineer with more than 9 years of experience, Dr. Saxena is currently working in the Diagnostic division of ITER as Diagnostic Integration Engineer. She is responsible for the Hard Core components that are safety components required in extreme scenarios to prevent cliff-edge effects, and the In-Vessel Viewing System (IVVS) - a sophisticated and agile inspection system to perform a series of checks inside the machine. The IVVS is the first of a kind system that combines robotics with meteorology, high-tech vision to operate under vacuum with a high radiation field and magnetic field.



Following this comprehensive introduction, **Prof. R.B. Grover** gave an inaugural speech where he applauded the Board of Directors for their efforts. He laid emphasis on the importance of having a dialogue with public and how such an organization can be instrumental in conveying evidence based information on the advantages of Nuclear Energy and Radiation applications to the people. He talked about the significant contribution of the Radiation applications to the diverse fields of health-care, agriculture, industries and R&D, highlighting the facts recovered from an IAEA survey that

have shown the contribution of radiation applications to GDP and employment to be as great as that of Nuclear Energy sector. Furthermore, he underlined the need for inclusion of Nuclear and Renewable Energy Technologies to the current energy-mix of India to aid in achieving a low-carbon economy, and hoped that WiN-India will be successful in conveying this important message to the public.

During the event **Mrs. Archana Yadav** introduced the official website for WiN-India to our viewers and encouraged everyone present to contribute to this initiative by actively participating in the upcoming events and activities of the WiN-India organization. The session was then formally concluded by Mrs. Yadav.

IYNS is thankful to the Board of Directors at WiN-India for their confidence in our team's ability to organize this launch. Furthermore, we express our sincere gratitude to Dr. Grover for taking time from his schedule to inaugurate this event. Last but not least, we are thankful to all our members for their support.

We encourage all our readers to visit our YouTube channel to view the **launch video**: <https://www.youtube.com/watch?v=6opzQ-ykdPM> and to visit the WiN-India website <http://www.win-india.org.in/> to register with the organization and stay updated with the upcoming activities of WiN-India.



Meeting between the Executive Board of IYNS and IYNC (16 August, 2020)

The executive members of IYNS and IYNC held a meeting on August 16 2020, with the aim of discussing about the possible areas of collaboration between the two organizations. During this meeting, both sides exchanged the details of their past and future activities. The IYNS members notified IYNC of their adherence to the regulations set by the Indian Government policies and the Department of Atomic Energy.

The two organizations came to a conclusion that they're on the same wavelength when it comes to their activities and that there is a huge scope for collaboration between them for future projects. The IYNC board sought cooperation from IYNS in different areas such as audiovisual projects, regional events, communications, regional contests for Innovation for Nuclear (I4N), climate activities and the mentor-ship program. To this, IYNS responded enthusiastically and expressed its willingness to organize more IYNS-IYNC collaborated activities in India. Plans for future exchanges between the organizations were made to discuss the matters at length for the planning and execution of the events/activities.

Furthermore, IYNC invited IYNS to be an active participant of the organizing committee for the upcoming International Youth Nuclear Congress, which is to be hosted by the Youth Department of Nuclear Society of Russia (YDRNS) in Sochi (Russia) in the year 2022.

International Youth Nuclear Congress
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International Youth Nuclear Congress @IYNC · Aug 27
#TBT to the last international conference before the pandemic. #IYNC2020 Sydney, Australia 🇦🇺.
Next stop #IYNC2022, Sochi, Russia 🇷🇺. Who's going to be there?

AusYGN and 2 others

1 1 7



Launch of the Nation-wide Plantation Drive (23 August, 2020)

Climate Change is one of the most distressing issues of our time. The shifting weather patterns are threatening not just global food production but also the glacial shrinking and consequently the rising of sea levels that increase the risk of catastrophic flooding. India is the world's third-largest emitter of greenhouse gases (GHGs), after China and the USA. As per the International Energy Agency data, India's per capita CO₂ emission is 1.6 tonne in 2017. We as citizens need to take drastic actions today to help stop this calamity or else these impacts will be more difficult and costly to manage in the future.

IYNS, in association with the Nuclear4Climate campaign, launched a 'Nationwide Plantation Drive' on August 23, 2020 under its [Climate and Energy Forum Wing \(IYNS-CEF\)](#) in a bid to contribute towards Climate Change Mitigation. Unlike the previous plantation drives organized by IYNS, this nation-wide campaign is to run all the year round. We invite and encourage all our members and the general public to plant a sapling in their gardens/neighborhood, and connect with our organization by sending a photo/video of the same to IYNS at <https://forms.gle/yp4HBuR3sW5wth8d8>. To acknowledge the contributions made by our members and their families, and to further this noble cause, we will be sharing these pictures/videos with the world through our social media platforms. All of us together can make a difference. So let's do our individual part to collectively make a huge difference.

Here we present some of the contributions made during the pre-launch phase by our followers and members.







We also take this opportunity to bring to you a very special message from Mr. Satendra Pal Chauhan (DGFS - PhD Research Scholar, BARC), one of our team members and an active participant in the plantation drive:-

पर्यावरण प्रेम ही सात्विक देश प्रेम..



"हमारा गौरवशाली देश भारत, जहां वेद और पुराणों में वृक्षों पर इतना बल दिया है कि उनको देवों का दर्जा दिया है। जैसे नीम, सीता अशोक(रामायण में अशोक वाटिका के वर्णन में), तुलसी, बरगद, पीपल, बबूल, गूलर, कदम्ब(राधा एवं कृष्णा की प्रत्येक लीला में), अर्जुन(कृष्णा के बाल स्वरूप में दामोदर लीला में यही वृक्ष थे), बेलपत्र(भोलेनाथ जी का प्रिय), आम, केला(विष्णु का स्वरूप), नारियल(प्रत्येक पूजा में सम्मिलित), इमली, जामुन, आंवला, बेर इत्यादि सभी वृक्ष पूजनीय माने जाते हैं। इस बात का अंदाजा आप इसी बात से लगा सकते हैं कि जब भी घर में पूजा या अनुष्ठान

होता है तो इनमें से ही किसी ना किसी वृक्ष या पौधे की फल, फूल या पत्तियां घरो को सजाने या अपने प्रभु को समर्पित किये जाते है वो जाहे जो भी धर्म हो, हवन और यज्ञो के लिए उसकी लकड़ी का प्रयोग किया जाता है। ये तो इनका एक पहलू है। दूसरा पहलू यह है कि हमारे ऋषि-मुनियों ने इनको ही इतना विशेष क्यों बताया है ? इसका उत्तर आपको पता है, वह है इन के गुण। मानव शरीर की ऐसी कोई बीमारी नहीं है जो इनके प्रयोग से ठीक ना हो सके, विस्तार व्याख्या के लिए आयुर्वेद को देख सकते हैं। इनके अलावा और भी भारतीय मूल के वृक्ष है जैसे की रामफल, सेमल, सर्पगंधा, अमरूद, लिसोड़ा, मीठा नीम, करील, सहजन, सरस, पाकड़ इत्यादि सूची बहुत लंबी है। ज्यादातर छायादार वृक्ष होने के साथ-साथ औषधीय गुणों से भरपूर हैं। इसका आशय यही है कि इन वृक्षों को धर्म से जोड़ा गया ताकि ये वृक्ष आपके आसपास ही रहे और आप इनका लाभ के सके। अब आप सोच रहे होंगे कि यह सब पेड़ों के नाम क्यों बता रहा हूं ये सब तो आपको पता है। बताने का मूल आशय यह है कि भारतीय मूल के वृक्ष समय के साथ कम हो रहे हैं कुछ तो विलुप्त होने की कगार पर हैं। क्योंकि, इन वृक्षों का मूल स्थान भारत भूमि ही है तो हमारे यहां के लिए इनसे उचित और गुणकारी वृक्ष कोई नहीं हो सकता। उदाहरण के लिए, अगर एक समुद्र तटीय व्यक्ति को हिमालय के ठंडे इलाके में रख दिया जाए तो उसका वहां जीवन बहुत ही मुश्किल होगा। हां, अगर जो व्यक्ति जिस वातावरण में पला बढ़ा है, वह वहां बिना किसी परेशानी के रह सकता है। वैसे ही वृक्ष का भी स्वभाव होता है। विडंबना यह है कि हमको जब भी पूजा अनुष्ठानों के लिए पौराणिक वृक्ष की जरूरत रहती है तो आसपास के गिने चुने वृक्षों पर ही सबकी जरूरतों का भार आता है जिसके फलस्वरूप जो है वो भी जल्द ही खत्म हो जाते है, लेकिन हम अपने घर आंगन में ऐसे पौधे लगाते नहीं। अगर लगाते भी है उनमें भी सुंदर दिखने वाले पौधे जैसे की मनी प्लांट, वो भी १० से २० % घरों में है। ज्यादातर लोगो को पुरे घर या आंगन में मार्बल और फ्लोरिंग चाहिए। आजकल, पौधशालाओं में भी ये पौधे नहीं मिल रहे हैं। सीधा सा विषय है, मानव के स्वास्थ्य का हमारे आसपास के वातावरण से सीधा सा संबंध है। वातावरण का संबंध है पेड़ पौधों से। यदि, हम पेड़ों का संरक्षण नहीं करेंगे तो हमारा संरक्षण संभव ही नहीं है। अब चुनाव आपको करना है, जो चाहो सो चुन लो !!!"

सतेंद्र चौहान

पेड़ लगाओ पेड़ बचाओ ॥



Meet India's "Super Women"..

Following the huge success of the WiN-India launch on August 15, keen interest has been observed among the public to know more about this initiative. As a response to this, the IYNS team is organizing a **round-table interview** with all the WiN-India board members on **September 13, 2020**, at 17h30 IST.

This interview is to let people know about the organization and the members of the board so that they could connect with WiN-India, understand its objectives and way forward. Join us to know more about the amazing journey of our Women in Nuclear towards their ultimate goal!



Learn from the most experienced national and international nuclear security experts



Together with the Amity Institute of Nuclear Science & Technology (AINST) and the World Institute for Nuclear Security (WINS) Academy, IYNS is organizing a five-day Online Training Course on **Integrating Cybersecurity with the Security Programme** from September 22 to September 26, 2020.

The course has been carefully designed to provide the participants with an understanding of the interface between cybersecurity and the physical protection and insider threats through human factor. The training presentations and exercises will be delivered in collaboration between Amity, WINS and supporting national and international experts in nuclear security through Microsoft Teams, with the platform and registration managed by Amity Institute.

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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