

The National Academy of Sciences, India

5, Lajpatrai Road, Prayagraj-211002, India

Monthly Summary for the month of June 2022



NASI continued to contribute to the 'Science & Society' as per its mandate, observing COVID appropriate behaviour during the re-spread of the coronavirus. The office of the Academy also followed the necessary orders of the govt. regarding the preventive strategies and norms, during the pandemic; however, several programmes were organised, as-

1. NASI, its Chapters and several DNA Clubs (earlier established by the NASI), celebrated the World Environment Day on the theme - **Living Sustainably in Harmony with Nature**, on 5th June 2022. The aim towards organizing several activities (as Webinars, Seminars, Plantation, etc.) was to make the people aware to protect & preserve our invaluable natural resources (further details are enclosed as **Annexure- 1 'A', 'B', 'C' & 'D'**); in fact, the Academy has taken several steps earlier also to make the people aware about the conservation of our natural resources.
2. NASI started Covid-19 appropriate behaviour awareness programmes in different corners of the country in collaboration with the ICMR. Several programmes were organized, especially in the rural areas; and continuing with full vigour, as Covid-19 pandemic has engulfed majority of population with reference to morbidity and mortality (the details are enclosed herewith as **Annex. 2 'A', 'B' & 'C'**).
3. NASI in collaboration with the Uttarakhand Council of Science & Technology, Dehradun and BCIL, New Delhi organized a detailed two days programme on **Entrepreneurship Development** as a part of its Science-Society Activities, under *Azadi ka Amrut Mahotsav*, on June 20-21, 2022 at Dehradun. The programme was steered by **Prof. Manju Sharma**, Past President, NASI, and former Secretary to the Govt. of India. It was nicely coordinated by **Dr Rajendra Dobhal**, Director General, UCOST. About 200 students/entrepreneurs participated in the programme, and several eminent scientists addressed on this occasion. The programme was appreciated by one and all (a brief news-report is enclosed as **Annex. 3**). The programme was dedicated to **Prof. Staya Deo**, former General Secretary, NASI & Vice-Chancellor of two Universities of MP, who unfortunately expired just a day before the programme.
4. Yoga can be an important instrument in the collective quest of humanity for promoting sustainable lifestyle in harmony with planet Earth. In keeping with this spirit, and as per the theme for this year's Yoga Day celebrations - "**Yoga for Humanity**", the Academy celebrated the 'Yoga Day' with full enthusiasm (**Annex. 4**- photograph of the staff practicing Yoga) on 21st June. Also several activities are to be organized as per plan.

Several NASI Chapters also organized the Science-Society Programmes in and around their respective regions.



Annex. 1 'A'

THE NATIONAL ACADEMY OF SCIENCES, INDIA (NASI)

(A Scientific Professional Body financially supported by
Department of Science & Technology, Government of India)

World Environment Day* (5th June)

(*It is celebrated by millions of people across the world. World Environment Day 2022 is being hosted by Sweden. "Only One Earth" is the campaign slogan, with the focus on "Living Sustainably in Harmony with Nature".)



Please join on the Web link, as given below-

<https://nasi.webex.com/nasi/j.php?MTID=med0460be637f61d56fb8e9ea418e84a1>

YouTube Live video link, as given below-

<https://www.youtube.com/c/nasi%20prayagraj/live>

Programme

11.00 am: Welcome: **Prof. U. C. Srivastava**, M. Ed. Proceedings (Biol. Sc.), NASI

11.10 am: Introductory Remarks: **Prof. Madhoolika Agrawal**, BHU; GS, NASI

11.25 am: Role of NASI: **Prof. Manju Sharma**, Chair, Science-Society Programme, NASI

11.40am: Thematic Addresses-

(Award Lecture* in the field of Biodiversity-2021)

Prof. Arun Pandey*, Vice Chancellor, Mansarovar Global University, Kolar Road, Bhopal

Dr. Jitendra Kumar Thakur, Scientist, National Institute of Plant Genome Research, New Delhi

12.20 pm: Address by the Chief Guest (*Prof. R.N. Tandon Memorial Award Lecture-2020)

***Prof. Saroj Kanta Barik**, Director, CSIR-National Botanical Research Institute, Rana Pratap Marg, Lucknow

Presidential Remarks: **Prof. Anurag Sharma**, IIT Delhi; Officiating President, NASI

Vote of thanks: **Prof. J. R. Bellare**, IIT Bombay; GS (OS), NASI

विश्व पर्यावरण दिवस पर ललित के वनस्पति विज्ञान विभाग में गोष्ठी आयोजित

सरिता प्रवाह खुरो

लखनऊ । विश्व पर्यावरण दिवस पर रविवार को लखनऊ विश्वविद्यालय के वनस्पति विज्ञान विभाग के तत्वावधान में राष्ट्रीय विज्ञान अकादमी, इंडिया (नासी)- लखनऊ चैप्टर तथा राष्ट्रीय वनस्पति अनुसंधान संस्थान के सहयोग से वनस्पति विज्ञान सभागार में गोष्ठी आयोजित हुई। गोष्ठी की अध्यक्षता करते हुए सीएसआईआर-सीडीआरआई के पूर्व चेयरमैन डा. वी.पी. कंबोज ने कहा कि जलवायु में जो परिवर्तन हो रहे हैं उसमें हम सभी की सहभागिता है। हम सभी अपनी

जिम्मेदारी समझते हुए ऐसी छोटी-छोटी आदतों को जीवन का हिस्सा बनायें जिससे हम पर्यावरण का संरक्षण कर सकें। विकास के नाम पर हम पर्यावरण को नुकसान पहुँचा रहे हैं। समाज के हर वर्ग और हर व्यक्ति को इस पर बात करनी चाहिए तथा स्वयं में और अपने आस-पास के लोगों में ऐसी आदतें विकसित करते हुए यह सुनिश्चित करना चाहिए जो पर्यावरण संरक्षण में सहयोग करें।

गोष्ठी के विशिष्ट अतिथि उत्तर-पश्चिमी हिल विश्वविद्यालय (नेहु) शिलांगा के पूर्व कुलपति, बायोटेक पार्क के सीईओ एवं नासी लखनऊ



चैप्टर के अध्यक्ष पद्मश्री प्रोफेसर प्रमोद टंडन ने कहा कि इस साल विश्व पर्यावरण दिवस की थीम है - ओनली वन अर्थ अर्थात् पृथ्वी एकमात्र ग्रह है जहाँ जीवन है। हम भाग्यशाली हैं कि हम इस ग्रह पर हैं। इसे वचाना हम सभी की सामूहिक जिम्मेदारी है

। जलवायु परिवर्तन जिसमें तापमान में वृद्धि हो रही है, अनेक वनस्पतियाँ और जंतु और उनकी प्रजातियाँ समाप्त हो रही हैं, हिमालय क्षेत्र के ग्लेशियर पिघल रहे हैं, पानी का स्तर नीचे जा रहा है। इन सभी का मुख्य कारण अंधाधुंध विकास है। इसकारण ग्रीन

हाउस गैस वातावरण में मुक्त होते हैं, जो जलवायु परिवर्तन के लिए उत्तरदायी हैं। राष्ट्रीय व अंतर्राष्ट्रीय स्तर पर अनेक कदम उठाये गये हैं व घोषणाएँ हुई हैं लेकिन इसमें समाज के हर वर्ग और हर व्यक्ति को जिम्मेदारी समझने की जरूरत है। हमें प्लास्टिक व उससे बने उत्पादों का उपयोग कम से कम करना चाहिए, हम कोशिश करें कि कम दूरी के लिए साइकिल का जवाब उपयोग करें, स्कूल कार्यालय के लिए कार पूल करें, व्यक्तिगत की जगह सार्वजनिक वाहनों का उपयोग करें, बिजली व्यर्थ न करें, सोलर पैनल का उपयोग करें, दोबारा उपयोग में लाई जा सकनेवाली

वस्तुओं का ज्यादा से ज्यादा उपयोग करने की कोशिश करें। पानी बचाएं, ज्यादा से ज्यादा पेड़ लगाएं तथा ईको फ्रेंडली उत्पादों का उपयोग करें। यह हमारे आपके सहयोग से ही संभव है इस मौके पर वनस्पति विज्ञान विभाग की अध्यक्ष डा. नलिन पांडे, डा.आर.डी. श्रीवास्तव, डा. तुषार, डा. लावान्या, डा. गौरी सक्सेना, डा. शालिनी श्रीवास्तव एवं डा. लीणा टंडन, लखनऊ मण्डल स्वास्थ्य विभाग से डा. मानवेंद्र त्रिपाठी, जी.एस.सिंह, जिला मलेरिया अधिकारी डा.रितु श्रीवास्तव, अन्य शिक्षक, शोधार्थी व विभाग का पूरा स्टाफ उपस्थित रहा।



The Academy has made several efforts to save & conserve the Environment by making the people aware about the issues like Conservation of rivers & associated biome, NO to Plastics, Emphasis on hand made products, Climate Change & its impact, Biodiversity & its importance and so. Some of the reports/links are given below, just for information/reference-

- a) **About the river galleries-**
<http://nasi.nic.in/Gangagallery.htm> & <http://nasi.nic.in/Brahmaputgra%20GALLERY.pdf> (NASI has established three river galleries, interactive & electronically equipped with enormous information/depiction about the conservation of our natural resources, especially the rivers, as Ganges, Brahmaputra & Cauvery).
- b) **To conserve the environment**, a 5-7 years project was launched earlier very successfully in three states (UP, MP & Bihar) with the support of the DBT, GoI; details given at - <http://nasi.nic.in/DNA%20Club.htm> (Natural Resources Awareness Club)
- c) **On climate Change** - Please see the report at - http://nasi.nic.in/Climate_Change_Report_Recommendations-Final.pdf (The brainstorming discussion was inaugurated by **Dr Jitendra Singh, Hon'ble Union Minister for Sc. & Tech.**)
- d) **Research findings of the 'Ganga-researchers' & others**, on the rivers & natural resources etc. may be visited on the links as -
1. **Paradigms of climate change impacts on some major food sources of the world: A review on current knowledge and future prospects**
 2. **The pristine nature of river Ganges: its qualitative deterioration and suggestive restoration strategies.**
 3. **3Ps (Population, Poverty and Pollution) and the Pious Poor Ganga**
 4. **Integrated effects of climate change and pollution on the Ganges river biodiversity**
- There are many more; and almost all the findings are on the ResearchGate.
- e) Apart from these, the NASI regularly organises the 'Brainstorming' on the issues related to 'Safe Drinking Water', Malnutrition, Health & Environment, etc. etc.; and all these have been earlier sent to the various departments/agencies including the DST, GoI. Almost all these reports are treasured in our Annual Reports available on the websites, as- https://nasi.org.in/annual_report/annual-report-2020-2021/ & <http://nasi.nic.in/AR-2019-20%20NASI%20Engl.pdf> and so.

The National Academy of Sciences, India

5, Lajpatrai Road, Prayagraj - 211002

A virtual meeting of the Expert Committee for NASI-ICMR Awareness programme for “Covid-19 Pandemic Appropriate Behaviour” was held on June 09, 2022 at 11.30 on the Cisco Webex.

The following attended the meeting on Web:

- Prof. Manju Sharma, Advisor, NASI New Initiative - Chairperson
- Dr. V. M. Katoch, NASI-ICMR Chair on Public Health Research, Former DG, ICMR - Co-Chair
- Dr. Atul Sarode, MD, General Physician, Jalgaon, Maharashtra- Member
- Dr. Kiran Katoch, Former Director, ICMR-NJILOMD, Agra- Member
- Dr. S.L.Hoti, Emeritus Scientist, ICMR-VCRC, Puduchery- Member
- Dr. Rajni Kant, Director, ICMR-RMRC, Gorakhpur, (Nominee from ICMR, New Delhi) - Member
- Dr. Manvendra Tripathi, Dept. of Health & Family Welfare, U.P., Lucknow- Member
- Dr. Niraj Kumar, ES, NASI
- Dr. Santosh Shukla, AES, NASI - Member Secretary

Prof. Paramjit Khurana, New Delhi and Dr. Sanghmitra Pati, Bhubaneswar could not attend the meeting due to their preoccupation.

1. Prof. Manju Sharma welcomed all the members and thanked the Coordinators for their remarkable efforts to carry out the programme. The State Coordinators presented the activity/progress report before the Committee and following observation/suggestion were given:-

❖ Rajasthan State:

Coordinator- Dr. Kiran Katoch, Jaipur

Focused area/locations:

- I. Bhanpur Kala CHC of Jamua Ramgarh Block a sub division of Jaipur 1
- II. Kanota PHC and Sindhauli PHC of Bassi sub Division of Jaipur 2

Focus Group:

- Health Care workers- Medical Officers, ANMs, ASHAs, Anganwari workers
- Panchyati Raj Members- Sarpanch, Pradhan, ward panchs
- Private health practitioners of the area including traditional healers, RMP practitioners, Ayurvedic and Ayush doctors
- Women and Children through ASHAs and Anganwadi workers; school teachers and parents
- Religious leaders

Committee Recommendation:

The members appreciated the efforts of the Coordinator and it was decided to extend the project for next year (i.e. FY 2022-23) covering the other health issues also.

❖ **Karnataka State:**

Coordinator- Dr. S.L.Hoti, Puduchery

Task: Information dissemination through Media (Short movies and compendium of cartoons related to COVID-19 appropriate behavior protocols)

Focused Area/locations: Impact assessment of Covid Appropriate Behavior in five villages of Mysure(Varuna, Mosambayanahalli, Pillahalli, Kiralu, Ayarahalli villages).

Committee Recommendation:

Very good progress has been observed by the Members. It has been suggested that the case study protocol prepared by Dr. Sanghmitra Pati shall be used and the impact assessment will be done accordingly.

❖ **Uttar Pradesh State:**

Coordinator- Dr. Manvendra Tripathi, Lucknow

Focused Area: Gausganj, Block -Kauchna, Tehsil- Sandila, District Hardoi; Dudhwa forest fringe and Chandan Chowkey

Committee Recommendation:

Very good progress has been observed by the Members. It was suggested to extend the programme covering the other health issues.

❖ **Orisa**

Coordinator- Dr. Sanghmitra Pati, Bhubaneswar

Focused Area: Tribal area of district Sundargarh, Orisa

It was reported that the awareness among the population by the various strategies were implemented as: *Covid Ratha* (Covid Chariot), Social media, Print media (Leaflets, Pamphlets, Banners, Posters), Traditional folk media (Pala, folk songs), Verbal campaign etc.

2. Further, it was a decided that the NASI-ICMR Health programme will be extended for next two years. A formal letter in this regard will be sent to the ICMR, New Delhi. The Coordinators were requested to send the proposals with the budget accordingly.
3. It was also decided that the lessons/outcome and recommendations of the programme may be published in the ICMR/NASI journal. The Coordinators were requested to draft their reports accordingly.
4. Tuberculosis in particular should be taken note by all the Coordinators.

The meeting ended with the vote of thanks to the Chair and Members.

Covid 19 Pandemic Appropriate Behaviour Awareness Programme.

Covid 19 pandemic engulfed majority of population with reference to morbidity and mortality also. As Covid is Corona virus infectious disease as name suggest a weak virus in general but transmissibility is very high. From March 2020,covid infectivity starts and fulminates in a few days. To protectthe citizens, upgrade the health infrastructure and for enhancement of testing facility the lockdown was enforced. Educational institutions were closedfor more than one year. Internet connectivity with reference to studies solved the problem to some extents but due to enhanced screen time, on computer and android mobile phones , led to another health challenges related with eye disorders like drying eye, vision impairment . Development of vaccines provides some relief but due to deterrent behaviour of population in rural areas creates a majorhurdle. In urban areas another challenge came because of deficient vaccine supply led to chaos management of anxious population. This problem solved due to increased supply of vaccine by air. Undoubtedly , vaccine is disease modifier and not disease preventable .In April 2021, with emergence of Delta variant causes a havoc of morbidity mortality. Then it was perceived that Corona virus will continue for longer periods as well as challenges will be many fold, mainly appearance of New Strains. Under these background ,awareness programme planned to inculcate in the masses, especially rural population ,the covid 19 appropriate behaviour awareness programme was started . For this programme,Financial support was provided From N A S I & I C M R .

The initial programme was started from the remote village area i.e. Gausganj, Block –Kauchna, Tehsil-Sandila, District Hardoi on 10th May 2022. Gausganjvillage ,total population 12434, targetted population for Covid vaccination7460, Ist dose vaccinated population 6341 ;85 percent , IInd dose vaccinated population 5921; 79.36 percent, is 95 km from Lucknow. A school was selected namely SarashwatiShishuMandir,Gausganj where 315 students were enrolled from Nursery to Highschool .On that day parents were also invited. But on 10th May Early morning local atmosphere was very inclement & dust storms creates some hindrance. In spite of these challenges programme was slightly delayed and 210 students and 25 parents were participated in the programme.

Covid appropriate behaviour activities were divided in Sixcategories .

1. Use of Mask& Sanitizer – Masking is very effective tool to prevent covid as well as various respiratory disorders. Correct use of Mask werepractically explained to students. One piece of mask wasalso given to students. Significance of mask was also explained with the help ofbig banners. It was mentioned that hand hygiene is very effective way to contain the covid transmission but if hand washing is not possible then sanitizer can be used .

- 2.Hand Hygiene- 50 students were participated in this activity. Total 9 demonstrators involved with guiding ofthe students , the question pertains , what is the correct way of hand washing. SUMAN –K Nick formula was elaborately explained,i.e. Straight, Opposite, Punch,Thumb, Nail, & wrist cleaning in that sequence. Very big

Banners of 10 in to 10 feet & standee were installed, where all activities were explained and demonstrated. **Photo 1 & 2**



Photo 1



Photo 2



Photo 3



Photo 4

3. Oral hygiene – Again another 30 students were isolated from pool .Every participating students were given tooth brushes & explained the correct way of brushing .Then students were given an opportunity to perform the way of brushing. For exposure a banner

and standee were arranged. Repeated exercises were also executed.
Photo 3&4

4. Nail trimming – All participating students were screened for proper nail trimming with association of public health experts. They were segregated primarily again screened for final rounds. Preference were given to girl candidates to strengthen women empowerment programme. **Photo 5**



Photo 5

Photo 6

5. Open Platform activity – Under this group from each class an opportunity was given to all participants to answer following questions verbally. Out of them 10 were selected. **Photo 6**

6. What are the immunity boosters- For that activity initially students were exposed to Immunity & explains the role of immunity in corona. Emphasized on Vitamin C rich fruits, Zinc supplements and traditional

supplements such as Turmeric, Ginger & Garlic as well as a Geloy – immune-modulator. It was advised to stay away From non vegetarian food, frozen food & Chinese cuisine. Additionally it was explained use of millet to overcome Iron deficiency, predominantly very high among students. **Photo 7**



Photo 7



Photo 8

Certain important parameters were isolated with reference to Corona Virus and questions were asked. Open forum was provided to the students to express their views. Majority of students participated with zeal & enthusiasm.

Questions 1 **Why using mask to protect from corona?**

2. **How many times we have to wash our hands?.**

3. **Why sequence of Hand washing is important?.**

4. **At what duration nail trimming is to be done and why?**

5. **Activity involved in important covid awareness slogan .**

6. **Use of Vaccination & Benefits**

7. Infodemic means superfluity of information ,on immunity boosters

From each activity students were isolated and 1st, 2nd,3rd and 10 consolation prizes were given by Management committee members, Dr .M. Chaturvedi ,Formerly Director General Medical ,Health & family welfare U.P. As well as Special dignitaries Dr G.S Bajpayee, Additional Director Medical ,Health & Family welfare was also grace the occasion . This is significant that both esteemed guest were present continuously from 8 A m to 11.30 A M. All school children were highly motivated and every participating students were given prizes.**Photo 8** Parents were also learned a lot and it was requested this activities was replicated several times. It was also proposed that these activities were revised in school premises weekly. And its impacts on protection of citizens from Covid . By inculcating these activities at a great extent, a healthy nation and enrich India goal will be fulfilled. Vote of thanks was given by The Principal, Sri Rajesh Kumar Varma ,Saraswati Shishu Mandir, Gausganj. He categorically mentioned a Special thanks for NASI & I C M R to select such school of remote village with high profile, esteemed dignitaries.

Print Media .Activities were published in Rastriya Prastwana Dated 11th May 22. **Photo 9 .Next covid appropriate activity is proposed on 20 th May 22 in the vicinity of Dudhwa National Park at Saraswati Shishu Mandir<Chandan Chowki, Palia Lakhimpur Kheeri**

कोविड बचाव के लिए लगाया गया प्रशिक्षण



राष्ट्रीय प्रस्तावना

कछौना (हरदोई)। कोविड अनुरूप व्यवहार के कार्यात्मक प्रशिक्षण क्रियात्मक व्यवहार प्रदर्शनकी श्रंखला के तहत बुधवार को गौसगंज के सरस्वती शिशु मंदिर में मंडलीय अपर

निदेशक डॉक्टर जीएस बाजपेई एवम पूर्व महानिदेशक परिवार कल्याण मिथिलेश चतुर्वेदी ने दीप प्रज्वलित कर उक्त कार्यक्रम का शुभारंभ किया गया कोविड अनुरूप व्यवहार की प्रथम गतिविधि के रूप में हाथों को स्वक्ष रखने की विधि का प्रशिक्षण एवं

कार्यात्मक व्यवहार का प्रदर्शन छात्रों से कराया। सामुदायिक स्वास्थ्य केंद्र के अधीक्षक किसलय बाजपेई ने मुख सम्बन्धी स्वक्षता का क्रियात्मक व्यवहार पर प्रकाश डाला व नाखूनों एवं दांतों की साफ-सफाई के बाबत विस्तार से बताया गया। छात्रों को वर्गीकृत कर प्रशिक्षण का अभ्यास कराया गया तथा प्रथम व द्वितीय एवम तृतीय स्थान लाने वाले छात्रों को पुरस्कृत कर उत्साह वर्धन किया गया संचालन मंडलीय कीट वैज्ञानिक मानवेन्द्र तिरपाठी ने किया तथा मंडलीय सर्विलांस अधिकारी शैलेन्द्र प्रहार विकास सिंह व आशा कार्य करता आदि मौजूद रहे।

Photo 9



Rajasthan Chapter

National Webinar

Organized by

Annex. 2 'C'



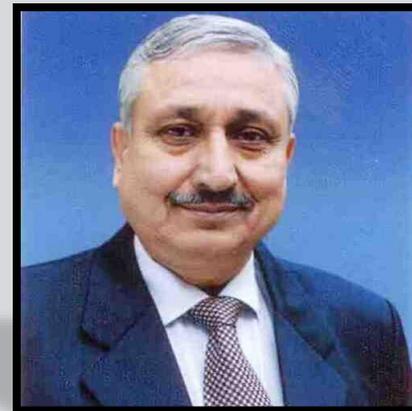
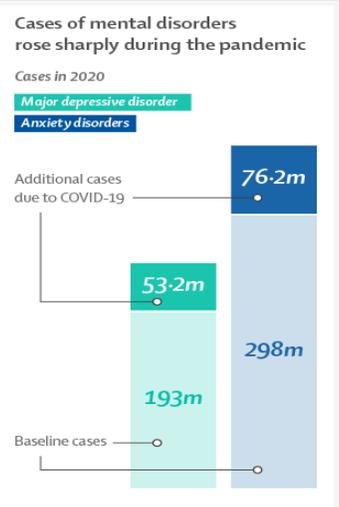
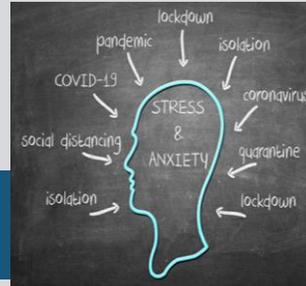
National Academy of Sciences, India (NASI) – Rajasthan Chapter &

Indian Society for the Study of Reproduction and Fertility (ISSRF)

On

Saturday, 4th June, 2022, 11.30 am

Mental Health during COVID-19 and Beyond



Dr. Shiv Gautam

MBBS, MD (PSYCH), MNAMS, FIPS, MAPA (USA), FAMS

Emeritus Professor of Psychiatry (NAMS)

Director Professor

Gautam Hospital & Institute of Behavioral Sciences, Jaipur

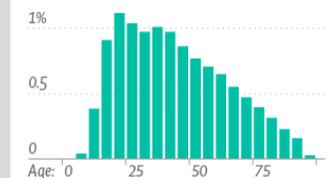
Email: dr_shivgautam@yahoo.com



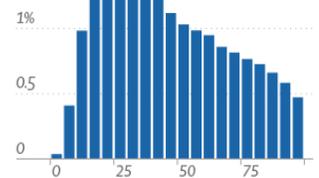
Younger people were hardest hit

Additional prevalence due to COVID-19, by age

Major depressive disorder



Anxiety disorders



Join us at:

<https://meet.google.com/zrs-ceck-qfe>

Registration: <https://forms.gle/U6ty5nhCS2PQLGqT6>
E-Certificates for Participants

Correspondence:

Prof. N. K. Lohiya

Secretary, NASI Rajasthan Chapter

& President-ISSRF

University of Rajasthan, Jaipur

Mobile No.: 9829124048; Email:

lohiyank@gmail.com

UCOST holds workshop on 'Science and Technology based Entrepreneurship Programme'

Dehradun, June 20 (HTNS): The National Academy of Sciences (NASI), Prayagraj, Biotech Consortium India Limited (BCIL), Uttarakhand State Council for Science and Technology (UCOST) and Uttarakhand Council for Biotechnology (UCB) jointly held a two day workshop under the Azadi ka Amrit Mahotsav at the Hotel Pacific on Monday.

The theme of the programme was 'Science and Technology based Entrepreneurship Programme at Different Levels of Society' which was organized in a hybrid mode. Dr Rajendra Dobhal, Director General, UCOST delivered the welcome address and shed light on the various programmes conducted by NASI and UCOST. He said that startups should adapt their innovations with the changing times as it is an integral part of entrepreneurship development. He talked about the importance of marketing research and technology management for startups.

Dr Manju Sharma, Former President of NASI gave a brief introduction of the various pro-

grammes of the academy and talked about opportunities for entrepreneurship in the sector of science and technology.

Dr Purnima Sharma, MD BCIL, talked about the agro-climatic diversity of the country and increasing demand for biotech products, and various entrepreneurship opportunities in the sector of pharmaceutical, biofertilizers, and the development of the medical device. She also shed light on the various proactive government policies for startups.

Dr Anurag Sharma from IIT Mumbai delivered the presidential address and talked about the importance of incubation in entrepreneurship development and various activities and programmes initiated by IIT Mumbai for students. Professor VP Kamboj gave a brief introduction of various startups which were developed in the COVID era. Dr Neeraj Kumar, NASI, Prayagraj proposed the vote of thanks. The keynote address of the first technical session of the day was delivered by Dr Rohit Srivastava of IIT Mumbai. He intro-



duced various technologies which were commercialized and transferred to industries by IIT Mumbai. Dr Purnima from BCIL, New Delhi delivered a talk on entrepreneurship opportunities in India and talked about the process of simplification for encouraging startups and various segments of the biotechnology industry in India.

Professor KN Badhani, Dean of Administration, IIM Kashipur shed light on various types of funding schemes for entrepreneurs. The second Technical session was chaired by Dr Rajendra Dobhal and co-chaired by Dr Purnima. The theme address of the session was delivered by Shachindra

Pandey. He talked about IPR Rights, copyright, trademark, trade secret, and geographical indication and their importance in IP protection. He also talked about the complete process of patent filing. Hiresha Sharma, a successful entrepreneur also shared her experience with students. She talked about her journey from IT Professional to medicinal mushroom producer and entrepreneur.

The third technical session was chaired by Professor Rohit Shrivastava. The theme address was delivered by Professor Pralay Maiti, BHU, and Varanasi on the topic Development of Healthcare Materials and the way forward to commerciali-

zation.

Professor Azam Ali Khan, IIT Roorkee talked about innovation and entrepreneurship support. In this session, Dr AK Singh, CEO of Biotechpark shared his experiences related to entrepreneurship. A special address was delivered by Dr Ram Gopal Rao, IIT Delhi. In this workshop, Scientists and officials of Uttarakhand State Council for Science and Technology, Uttarakhand Council for Biotech, members of the National Academy of Sciences India (NASI), and students from different colleges were present. The report of NASI, India, 2019- 2021 was also launched during the workshop.

