



**One Day Workshop
on**

**International Year of Basic Sciences for Sustainable Development (IYBSSD2022)
02/07/2022**

**Organized by
Center for Basic Sciences,
Pt. Ravishankar Shukla University, Raipur (C.G.)**

Chief Patron

Prof. K. L. Verma, Vice Chancellor

Patron

Prof. Kallol K. Ghosh, Director (CBS)

Administrative Support

Dr. Shailendra Patel, Registrar

Convener: Dr. Laxmi Kant

Co-Conveners: Dr. Smita Sharma, Dr. Veenu Joshi, Dr. Govind Prasad Sahu, Dr. Bhanushri Gupta, Dr. Girija Shankar Gautam

About the workshop : The year 2022 has been declared as the **International Year of Basic Sciences for Sustainable Development (IYBSSD2022)** by United Nations General Assembly to



stress that the applications of basic sciences are vital for advances in medicine, industry, agriculture, water resources, energy planning, environment, communications and culture, and that basic sciences

rupture technologies respond to the needs of humankind by providing access to information and increasing societal well-being, and promoting peace through improved collaboration toward Sustainable Development Goals (SDGs).

Center for Basic Sciences has planned to organize series of workshops and activities throughout the year 2022 to celebrate IYBSSD. To begin with we organized **one day workshop** on **02 July 2022** at **Dr. A.P.J Abdul Kalam Seminar Hall, CBS**.



This workshop brought together local experts from the academics, science, finance and administration to discuss and share their thoughts with the students of Center for Basic Sciences on the following Sustainable Development Goals (SDGs) from the 17 Goals adapted by that UN General Assembly as a part of 2030 agenda.

- **QUALITY EDUCATION:** Ensure inclusive and equitable quality education and promote lifelong learning opportunities for all
- **LIFE ON LAND:** Protect, restore and promote sustainable use of terrestrial ecosystems, sustainably
- manage forests, combat desertification, and halt and reverse land degradation and halt biodiversity loss

- **DECENT WORK AND ECONOMIC GROWTH:** Promote sustained, inclusive and sustainable economic growth, full and productive employment and decent work for all
- **INDUSTRY, INNOVATION AND INFRASTRUCTURE:** Build resilient infrastructure, promote inclusive and sustainable industrialization and foster innovation

Workshop Inauguration:

The workshop was inaugurated by lighting the lamp by invited speakers, university dignitaries including director and faculties of CBS followed by Saraswati Vandana and Kulgeet. The speakers were given floral welcome before starting the next session of the workshop.

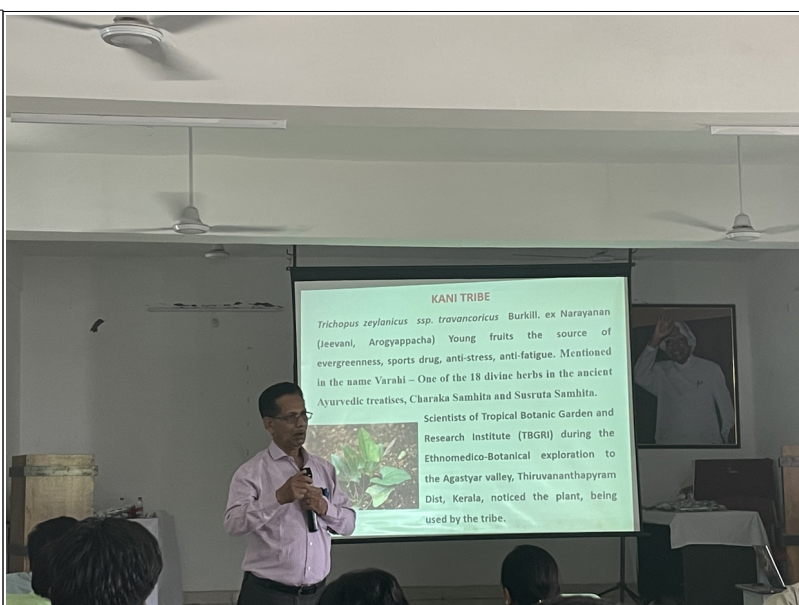




Workshop Lectures:



The session started with **welcome address by prof. Kallol K. Ghosh** Director CBS. He shared the background and the context of the workshop with the audience. He proudly showed glimpses of the academic achievements of the CBS students and highlighted how CBS is contributing to sustainable development through its activities. He specially mentioned the public outreach activities done by CBS in various schools out side the university campus. And activities in the CBS in which students from various schools are invited to participate. Followed by this lecture, **Dr. Sailendra Patel, Registrar Pt. R.S.U.** addressed the audience by putting his thoughts on sustainable development goals and elaborated how basic science studies can play role to achieve these goals. **Prof. S. K. Pandey**, an eminent astrophysicist and ex-vice chancellor of Pt. R.S.U. delivered a lecture entitled “ **Importance of Basic Science for educating students**”. He addressed one of the SDGs “**QUALITY EDUCATION**” in detail and discussed how CBS can contribute to ensure inclusive and equitable quality education. He expressed his expectations towards CBS students that they will become excellent scientists and good science teachers.



Prof. M. L. Naik, eminent botanist, Ex. Director General, CG COST, Rt. Prof. and Head, SOS in life Sciences, Pt. RSU, Raipur delivered a lecture entitled “**Plants and sustainable development**” and discussed an important SDG , LIFE ON LAND. He emphasized the judicious use and management of natural resources for sustainability. He gave example that how Israel despite 300-400 mm of annual rainfall (which is five times less compared to 1750 mm of annual rainfall in India) with scientific management system do not face scarcity of water, whereas the unavailability of adequate amount of water for livelihood to large population in India is a severe problem.

Dr. Sabya Sachi Ghosh, IIT Bhilai, explained how nuclear energy can be one of the energy sources to met with the ever increasing demand of energy for humankind though his lecture “**Role of nuclear energy for sustainable development**” and **Dr. Sesha P Vemapati**, IIT Bhilai, discussed solar energy as a clean energy source for sustainability through his lecture “**Basics of photovoltaics for sustainable development of energy resources**”. Both the lectures addressed one of the SDGs INDUSTRY, INNOVATION AND INFRASTRUCTURE through their lectures.



Mr. B. K. Lal, Controller, Finance, PWD, Nava Raipur Atal Nagar delivered a lecture entitled “**Role of Science in SDG and planning**” and addressed the SDG, DECENT WORK AND ECONOMIC GROWTH. In his lecture he gave overview of the government’s five year plans and explained how these plans are in accordance with the sustainable development goals. He also pointed out that taking education to get government jobs by majority of youths will not lead to sustainable development. Rather the education should inculcate entrepreneurship in the students. He also told about the Chhattisgarh Government’s schemes to support the startup projects. The lecture was well received by the audience.

Mr. Vishwash Meshram, Joint Collector and Manager Land, Nava Raipur Atal Nagar Vikas Pradhikaran, who is also an Executive President of Chhattisgarh Vigyan Sabha discussed with example about importance of raising questions, through his interactive lecture “ **Promoting learning opportunity for all, through science popularization**”.

Student activities:



The Video documentary (made by CBS students) <https://www.youtube.com/watch?v=QBCauu00cdE> regarding laboratory facility in CBS was screened which was appreciated by the guest speakers. Himanshu Kunjam (8th sem), Yas Rajput and Bhashkar Yaduwanshi (2nd sem) sung “**Ped hain Saanse**” **Song**. CBS students Played a **drama “Save Environment”**, giving a message that if we use a inevitable modern means of development like industrialization, we must make enough effort to compensate for its negative effect on the environment. The drama was written by Pushpendra Sahu (10th Sem) and directed by Ramesh Rautiya (10th sem). All the speakers were given memento as a token of thanks by CBS faculties. The workshop ended with the vote of thanks by workshop convener Dr. Laxmi Kant.