

HYBRID MODE

National Conference

OZONE LAYER, ITS DEPLETION AND **IMPACT ON LIVING BEINGS (ODIL 2022)**

16-17 September, 2022

Venue: National Research Centre on Camel (NRCC), Jorbeer, Bikaner (Rajasthan)

Organized by



National Environmental Science Academy, New Delhi

In collaboration with

ICAR-National Research Centre on Camel, Jorbeer, Bikaner (Rajasthan) Vidya Bhawan Rural Institute, Udaipur (Rajasthan) India **CAZRI Regional Research Station, Bikaner (Rajasthan)**

SKRAU, Bikaner (Rajasthan)

Dungar College, Bikaner (Rajasthan)

Asian Biological Research Foundation (ABRF) Prayagraj, India



ICAR-National Research Centre on Camel Jorbeer, Bikaner (Rajasthan)



SKRAU Bikaner (Rajasthan)



Dungar College Bikaner (Rajasthan)



ICAR-National Research Centre on Camel Jorbeer, Bikaner (Rajasthan)



www.abrf.org.in

Asian Biological Research Foundation (ABRF) Prayagraj, India



ICAR-National Research Centre on Camel Jorbeer, Bikaner (Rajasthan)





ISRS and PRSC, Ludhiana

About the Conference

Environmental pollution is not a new phenomenon, but it is still the world's most serious problem, as well as one of the primary causes of disease and mortality. Urbanization, industrialization, mining, etc. are all examples of human activities that contribute to global environmental degradation. Both developed and developing countries share this responsibility, Despite the fact that environmental pollution has received worldwide attention, the impact is still felt owing to its severe long-term implications.

The progressive weakening of the Earth's ozone layer in the upper atmosphere caused by the discharge of chemical compounds containing gaseous chlorine



or bromine from industry and other human activities is known as ozone depletion. In the polar areas, notably over Antarctica, the thinning is most noticeable. Ozone depletion is a serious environmental issue because it increases the amount of ultraviolet (UV) radiation reaching the Earth's surface, which causes skin cancer, cataracts, and genetic and immune system damage. The Montreal Protocol, which was ratified in 1987, was the first of numerous comprehensive international agreements to end the manufacturing and use of ozone depleting chemicals. The ozone layer is projected to recover over time as a consequence of ongoing worldwide collaboration on this subject. It is apparent that the depletion of ozone layer is causing considerable damage to the environment all around the world. We do, however, believe that science, engineering and technology can help to mitigate the detrimental effects of the depletion of ozone layer of the earth.

National Conference on OZONE LAYER, ITS DEPLETION AND IMPACT ON LIVING BEINGS (ODIL 2022) aims to bring together leading academicians, scientists, researchers and research scholars to exchange and share their experiences and on all aspects of environment pollution and Ozone depletion. It also provides a premier interdisciplinary platform for researchers, practitioners and educators to present and discuss the most recent innovations, trends, and concerns as well as practical challenges encountered and solutions adopted in the fields of environment pollution.

Conference Objectives

The conference will feature renowned speakers representing both academia and industry who are renowned experts in environmental pollution and risk assessment.

This conference focus on types of pollution—air, water, and soil; the causes and effects of pollution; and proposes solutions in combating pollution for sustainable environment and health.

The objectives are

- ❖ To Promote global interventions to reduce climate change and air pollution
- ❖ To Spread awareness about environmental pollution and its impact on living organism and human health.
- To preserve human health, and to protect the environment from any harmful effects of the depletion of the ozone layer
- To discuss the Legislative or administrative measures against activities likely to have adverse effects on the ozone layer.
- To promote research for providing solution to solve the environmental pollution

Sub themes of the Conference

National Environmental Science Academy (NESA), New Delhi ODIL-2022 invites abstracts / papers with the following sub themes

- **❖** Biotechnology and Environment
- Desalination
- **Environmental Risk Management and Environmental Protection**
- Environmental Sustainability and Development
- ❖ Fossil Fuels and Renewable Energy
- **❖** Global Warming and Climate Change
- Groundwater Pollution
- **❖** Health and Environment
- Oil Spills
- Soil Pollution and Treatment
- Waste Management
- ***** Wastewater Pollution and Treatment
- Risk Communication
- ❖ Innovative Technologies Developed and Practiced to limit the impact of the Pandemic
- **❖** Impact of COVID-19 and other aspect of Health and Disease
- **Ozone Layer Depletion and its Prevention**
- Health effects of Ozone Depletion
- ***** Biodiversity conservation
- Any other relevant topic related to main theme

This ACADEMY is registered by the provisions of Societies Act XXI of 1860 under the Government of Bihar in 1988, presently has its headquarters at 206, Raj Tower-1, Alaknanda Community Centre, New Delhi. The main objective of the Academy is to bring awareness about environmental issues among the masses by arranging lectures, workshops, training programmes, seminars, symposia, conferences, publishing journals, etc.

Aims Objectives and Functions of the Academy

- To enhance and promote the study of the environmental sciences by encouraging students, scientists, researchers, academicians and members of the Academy for pursuing research on environment and allied areas.
- To set up Regional/State Chapters for dissemination of information on environment.
- To motivate and prepare young minds on environmental management.
- To hold Annual Conference of the Academy.
- To organise national/international level conferences, symposia, seminars, meetings and workshops on themes of environmental concerns.
- To publish policy papers, synthesis volumes, proceedings, journals, newsletter, transactions and other publications for the promotion of Environmental Sciences.

Various eminent personalities have graced the Academy as President. The first President of the Academy was Dr. K.C. Bose, Vice-Chancellor of Ranchi University; then Dr. B.S. Attri, Advisor, Ministry of Environment and Forest. Most recently Padmabhushan Dr. S.Z. Qasim was the President of the Academy till June 2015, who is a renowned marine scientist known for his Antarctica mission in 1981-82, he also served as the

Secretary at the Deptt. of Ocean Development (now Ministry of Earth Sciences); Member, Planning Commission and Vice-Chancellor, Jamia Millia Islamia, New Delhi. Currently Prof. Javed Ahmad, (Former Dean, Faculty of Science), Jamia Hamdard, New Delhi, is the President of the Academy.

Annual Awards

The Academy recognises the merit and achievements of individuals who have contributed to the field of environmental science, education and societal values by conferring (1) NESA FELLOWSHIP OF THE YEAR AWARD (2) NESA EMINENT SCIENTIST OF THE YEAR AWARD (3) NESA SCIENTIST OF THE YEAR AWARD (4) NESA ENVIRONMENTALIST OF THE YEAR AWARD (5) NESA GREEN TECHNOLOGY INNOVATIVE AWARD (6) NESA DISTINGUISHED SCIENTIST OF THE YEAR AWARD (7) WOMEN EXCELLENCE OF THE YEAR AWARD (8) NESA YOUNG SCIENTIST OF THE YEAR AWARD (9) NESA JUNIOR SCIENTIST OF THE YEAR AWARD (10) NESA BEST RESEARCHER AWARD (11) NESA BEST PHD THESIS AWARD. Any life member of the Academy can apply for the awards. Any life member of the Academy can apply for the awards. For more information please, log on to our website: http://nesa-india.org/award-form-submission/

In addition, the Best Oral Presentation and Best Poster Awards are given away during the Annual Conference of the Academy.

Publications

The Academy is publishing the following Journals (Biannual):

- 1) INTERNATIONAL JOURNAL ON AGRICULTURAL SCIENCES
- 2) INTERNATIONAL JOURNAL ON ENVIRONMENTAL SCIENCES
- 3) INTERNATIONAL JOURNAL ON BIOLOGICAL SCIENCES
- 4) INDIAN JOURNAL OF UNANI MEDICINE http://nesa-india.org/nesa-journal/
- 5) E-NESA Newsletter (Monthly) http://nesa-india.org/newsletter/



Asian Biological Research Foundation (ABRF) Prayagraj, India

The ABRF Prayagraj, India is a self-supporting, academic and research associated body. It is basically nonprofit and Non-Government Organization: (1) to provide a common platform for scientists associated with biological sciences to interact with one another for mutual benefit and to enhance the innovative knowledge on the subjects, (2) t to encourage, facilitate and perform the activities related to conservation of water, nature and biodiversity, (4) to felicitate the persons and organizations internationally for their outstanding services rendered in basic, applied and modern biological sciences including all branches of Botany, Zoology, Agriculture, Veterinary Science, Environmental Science, Molecular Biology, Biotechnology, Biochemistry, Bioinformatics, Microbiology, and so on and (6) to collaborate with National and International Institutions, Government and Non-Government Organizations, Schools, Colleges, Institutions, Universities, Private and Public sector Industries to achieve the objectives of the ABRF.

The ABRF confers following categories of awards and honors to its members through search and nominations:

- 1. ABRF Lifetime Achievement Award (above 57 years of age)
- 2. Hon. Fellowship/Fellowship (FABRF)
- 3. ABRF Excellence Award for Environmental/Agricultural/Botanical/ Zoological Research
- 4. ABRF Global Recognition Award
- 5. Outstanding Extension Professional/Agriculture Scientist/ Social Services Award
- 6. Best Teacher Award for Agricultural/Botanical/Environmental/Zoological Innovations
- 7. Eminent Ichthyologist/ Environmentalist/ Ecologist/ Entomologist/ Geneticist/ Parasitologist/ Cytologist/Taxonomist/ Plant Pathologist/ Physiologist/Biotechnologist/ Anthropologist Award

- 8. Senior Botanist/ Zoologist/ Biochemist/ Scientist/ Environmentalist Award (above 45 years of age)
- 9. Innovative Botanist/Zoologist/Scientist/Environmentalist/Agriculture Scientist/Biotechnologist/ Extension Professional Award
- 10. Innovative Biologist Award for Wild Life/ Biodiversity Conservation
- 11. Vigyan Ratna Puraskar (No age bar)
- 12. Paryavaran Shri Samman (**No age bar**)
- 13. Young Botanist/Zoologist/Scientist Award (below 30 years of age; mainly for research scholar)

Note: Only ABRF Life Members are eligible to apply for these awards. Each award consists of a multicoloured award certificate, a potted plant and a high quality memento. ABRF Award selection is strictly based on API and biodata both. For detail guidelines, please log on to website: http://www.abrf.org.in [emailid:secretary.abrf@gmail.com]. Ph: 8299707543



ICAR-National Research Centre on Camel, Bikaner

ICAR-National Research Centre on Camel (NRCC), Bikaner, is a Premier Research Centre of the Indian Council of Agricultural Research (ICAR) which is an autonomous organization under the Department of Agricultural Research and Education, Ministry of Agriculture and Farmers Welfare, Government of India. Since the its inception on 5 July, 1984, the Center is working with a vision "Improvement of traditional and economic utility of camel through scientific conservation, management, nutritional security, disease control and extension methods" by focusing on basic and applied research on one humped camel (Camelus dromedarius) mostly confined to the arid and semi-arid areas of North-western India and also double humped camel (Camelus bactrianus) found in the arid cold-desert of Nubra Valley of Laddakh region.

Climate change has been observed to impact mostly the extreme climatic regions and the native camel seems to be most resistant animal in these regions. The camel production system in India remains traditional, e.g., nomadic, transhumance, sedentary that is mainly linked with the social life of the pastorals and camel herders. Despite its indispensability as a mode of transportation and draught power in the desert ecosystem, modern-day transportation and road-network has diminished its potentiality and it is now thus facing the threat of unsustainability. India's camel population has decreased drastically from 10.0 lakhs in the early part of the century to only 2.5 lakhs in 2019 and the populated state of Rajasthan has the maximum decline compared to neighbouring Gujarat. In this scenario, promotion of 'Camel Dairy' emphasizing therapeutic benefits of camel milk would definitely widen the prospects of camel rearing and earn additional revenue to the farmers for their socio-economic stability and may possibly also block its declining trend. Tactical intervention in production and application of marketing strategies for higher return from produce and products would open up avenues for future investment and maximize profit from 'Camel Dairy' based livestock enterprises. Further, possibilities need to be explored for use of male camels in eco-tourism business for additional revenue and socio-economic upliftment of camel herders. The unique species of the desert ecosystem has also widened its scope in biomedical research due to its exceptional immune system and adaptive thermoregulation mechanism. Concerted efforts from policy makers, research and development agencies, stakeholders and the farmers for its potential application as 'Multi-utility' animal will definitely serve the socio-economic livelihood of the traditional rearers and block its declining trend in safeguarding the community as well as the camel.

The main research and developments programmes of NRCC are carried out under two sub-heads:

- 1. Camel Production and Technology
- 2. Camel Health and Bioscience

and the Programmes are:

- Improvement of camel production system
- Enhancing camel produce and technology for value addition
- Exploration of camel immune system and therapeutics
- Healthcare, disease surveillance and diagnosis
- Exploration and extension of camel based ecotourism
- Transfer of technology and development of public-private partnership

CAZRI Regional Research Station, Bikaner (Rajasthan)

The arid zone of India covers about 12% of the country's geographical area and occupies over 31.7 m ha of hot desert and about 7 m ha is under cold desert. The production and life support systems in the hot regions are constrained by low and erratic precipitation (100-420 mm/year), high evapotranspiration (1500-2000 mm/year), and poor soil physical and fertility conditions. The local inhabitants have evolved suitable landuse and management systems of farming, pastoralism and animal husbandry; of late, these local survival systems have become inadequate to fulfill the ever increasing needs. This has resulted in over-exploitation of the resources causing rapid and widespread land degradation and decline in productivity. To arrest this degradation process and for scientific and sustainable management of the resources, Desert Afforestation Station was established in 1952 at Jodhpur. This was later expanded into Desert Afforestation and Soil Conservation Station in 1957, and finally upgraded to Central Arid Zone Research Institute (CAZRI) in 1959 under Indian Council of Agricultural Research, New Delhi. The CAZRI operates through Six Divisions, located at the headquarters in Jodhpur. There are five Regional Research Stations located in different agro-climatic zones to work on location-specific problems.

SKRAU, Bikaner (Rajasthan)

Swami Keshwanand, after whom the RAU has been renamed as Swami Keshwanand Rajasthan Agricultural University, Bikaner (SKRAU, Bikaner) vide Gazette notification No. F. 4 (2) vidhi/ 2/ 2009 dated June 09, 2009, was born at the village Magloona in Sikar district of present-day Rajasthan in the year 1883. His actual name was Birama. The famine of 1899 forced the 16-year-old Birama to leave the desert region and move to Punjab in search of livelihood. Driven by an ineffable spiritual quest, he became a sanyasi in 1904 and was inducted into the Udasin sec. He commenced his education at the Sadhu Ashram Fazilka. He learned the Hindi and Sanskrit languages and the Devanagari and Gurmukhi scripts at the Ashram. At the Kumbha Mela held at Prayag in 1905, Mahatma Hiranandji Avadhut conferred on Birama the new name "Swami Keshwanand". Swami Keshwanand lived an accomplished life of myriad facets such as freedom fighter, educator, Hindi propagator and social reformer.

Dungar College, Bikaner (Rajasthan)

Govt. Dungar College, Bikaner is named after Maharaja Shri Dungar Singhji and in its nascent state was called The Darbar School. Shri Dungar Singhji was the 20th ruler of the erstwhile state of Bikaner and established The Darbar School in the year 1873. After his demise, his brother Ganga Singhii elevated the Darbar School to Dungar Memorial College on 25 September, 1912. College level teaching started in the year 1928. In the year 1937 degree classes started in the college and in the same year the school was separated from the college with the name of Sardul School. In July 1940, intermediate Science Faculty started with Physics and Chemistry subjects. In 1942, Degree level Science, law classes and post- graduate Departments of Hindi, Sanskrit, English, History and Economics were opened. In the year 1951, there were only five postgraduate colleges in Rajasthan and Dungar College was one of them. In 1962, the college shifted from Sardul school premises to its present-building. Postgraduate teaching in Physics and Chemistry started in the same year. In 1970 M.Sc in Zoology, Botany and LLM were started. The college extended its academic growth with the postgraduate teaching in Geography, Sociology, Economics, Geology and Urdu departments. From 1988-1995 the college was given the status of an autonomous college. In the session 1996-97, commerce faculty was started in the college. Today this college is one of the premier institutions of Rajasthan, where 22 subjects are being taught at Graduate and Post Graduate level and 10 at M.Phil level. Research work is also being carried out for Ph.D. Degree in all three faculties Arts, Science & Commerce. Dungar College was recognized by the UGC u/s 2f and 12B in the year 1972 as per its policy for colleges established before 1972.

About Vidya Bhawan Rural Institute, Udaipur

Vidya Bhawan Rural Institute, an institution of Vidya Bhawan Society, Udaipur was established in 1956 with the vision of "Empowering Rural Youth with the Quality Education". Under the aegis of the Union Ministry of Education, Government of India, it was conceived as one among the chain of rural institutes in higher education; started at various places in the country; focusing on teaching, research and extension to cater to the growing and fast emerging needs of the rural community. Over the 50 plus years, Vidya Bhawan Rural Institute has successfully completed its long and arduous journey, and continues to make an impact. The Institute today offers graduate and postgraduate courses in all the disciplines. Department of Botany, VBRI, Udaipur have well equipped and sophisticated research facilities. The Botany Department has excellent faculty members with impressive research and academic experience. It has undertaken many research projects funded by various government agencies like DST, UGC, SK Jain institute of Ethnobiology, Gwalior. It offers excellent academic and career opportunities to young students.

ISRS and PRSC, Ludhiana

Punjab Remote Sensing Centre (PRSC), an autonomous organization under the Department of Agriculture, Government of Punjab, is the apex body in the State for all Remote Sensing (RS), Geographic Information System (GIS) and Global Positioning System (GPS) related works. It is designated as a Nodal Agency by the Govt. of Punjab for geospatial needs of the State and also acts as the centralized hub for the geo-spatial data to all the user departments.

Indian Society of Remote Sensing (ISRS) was established in 1969 as "Indian Society of Photo-interpretation" with the main objective of advancement and dissemination of remote sensing technology and education by conjunctive use of remote sensing with conventional mehods in the fields of survey, planning and management of natural resources and environment by organising seminars/ symposia and by publishing journal, bulletins, proceedings, etc. From its modest beginning with 56 members, the Society has grown into a premier professional body with a membership of over 3700, including both individual and Institutional members. The Journal of the Society, JISRS, a quarterly publication, is the only journal in the country exclusively dealing with remote sensing technology and its applications. The Society has been organising annual conventions and national symposia regularly since 1981, giving opportunities to the remote sensing community in the country to present their papers and discuss the problems and methods of applications of remote sensing in development and management of resources. Remote Sensing has been universally recognised as a highly effective and extremely versatile technology for evaluation and management of natural resources and environment. With the advent and advancement of Geographic Information System (GIS), the concept of multidisciplinary integrated approach got an impetus in monitoring and management of resources and environment. Realising this in recent years ISRS is giving emphasis on application of integrated approach for solving various types of real world problems related to resource management, environmental assessment and disaster management.

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Call for Abstracts and Full Length Papers

The participants are invited to submit their abstracts and full length papers on the theme and sub themes of the Conference. The abstract should be within 250-300 words in English font 'Times New Roman' with size of '12'. The full length paper should be within 3000-4000 words in length, including an abstract (about 300 words) and 4-5 keywords. The abstracts will be released in 'Souvenir and Abstract Book' on **16th September**, **2022** in the Inaugural Session of the Conference, while selected full length papers will be published in NESA Journals. The participants may send their abstracts by **31 August**, **2022** and full length papers by 31 August, 2022 online to Ozoneday2022.bikaner@gmail.com The participants may present their papers in the Conference by oral/poster.

Poster Presentation

Papers are invited for poster presentation. The poster should be related with the topic and sub themes of the Conference. The poster size should be 2x3 feet.

Conference Award

The Organizing Committee of ODIL-2022 will confer the following awards during the conference:

1. ODIL 2022 Best Oral Presentation Award

2. ODIL 2022 Best Poster Presentation Award

3. ODIL 2022 Related to Topic (Best Idea on Waste Management/Waste Minimization)

Important Dates

Conference Dates16-17 September, 2022Registration and Abstract Submission Starts:18.07.2022Last Date of Registration without late payment:31.08.2022Abstract submission Deadline:31.08.2022Full length paper submission Deadline:31.08.2022

The above dates are mandatory and strictly followed by Organizing and Publication Committee.

Registration

Faculties/ Delegates/Scientists/Academicians Scientists and members of
NRC/NESA/ABRF and ISRS and PRSC, Ludhiana
Research Scholars
Rs. 1200.00
Students (Graduate/PG)
Rs. 800.00
Online Participants
RS. 500.00
Corporate Delegates
Rs. 5000.00

Payment Details

Name: National Environmental Science Academy

Bank Name & Address: Bank of Maharashtra, Kalkaji Branch, New Delhi-110 019

Account Type: Current Account Bank Account Number: 60109889476

List of Hotels with details to contact at Bikaner for accommodation

Sl. No.	Hotel Name	Tariff	Contact Number
1.	Hotel Basant Vihar Place	Rs. 4,000-6,000 + Taxes	9414604362
2.	Hotel Sagar	Rs. 2,000-2,500 + Taxes	8385935472
3.	Hotel Manglam	Rs. 1,000-1,500 + Taxes	9460779854
4.	Hotel Jyoti	Rs. 1,500 + Taxes	9828238745
5.	Hotel Rajvilas Palace	Rs. 2,000-3,500 + Taxes	0151-2525901-03

IMPORTANT

- 1. For Abstract email at: **Ozoneday2022.bikaner@gmail.com**
- 2. Contact person at Bikaner:

Dr. R.K. Sawal, Principal Scientist, NRC on Camel, Bikaner E-mail: rksawal01@gmail.com; Mobile:. 9828261373)

Dr. N. D. Yadav, Head, CAZRI Regional Research Station, Bikaner E-mail: narendra_yadava@yahoo.co.in; Mobile:9460223790

Prof. IP Singh, Dean, College of Agriculture, SKRAU, Bikaner coa@raubikaner.org; Mobile: 9414954653

Dr. Kailash Swami, Assoc. Prof. Dept of Zoology, Dungar College, Bikaner E-mail: kkswami1140@gmail.com;

Dr. Sushil Kumar Kharia, College of Agriculture, SKRAU, Bikaner

Mobile: 7976178504; 9540815115

Dr. Sandeep Kumar Mobile: 70652 50610

- 3. ABRFAward: Contact person: Dr. A.K. Verma Mobile: 8299707543
- 4. General Enquiry: Contact Persons

Mr. Gian Chand - Mobile: 9811238475, 9811238995

Mr. Rakesh K. Roy - Mobile: 9971383650

APPLICATIONS ARE INVITED FOR NESA ANNUAL AWARDS 2022

Last Date 30th September, 2022



1. NESA FELLOWSHIP OF THE YEAR AWARD

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2. NESA EMINENT SCIENTIST OF THE YEAR AWARD

AGE: 40 years and above

The recipients shall get Citation, Certificate, Memento, Medal and Conference Registration along with Kit will be provided in the event.

3. NESA SCIENTIST OF THE YEAR AWARD

AGE: 32 years and above.

The recipients shall get Citation, Certificate, Memento, Medal and Conference Registration along with Kit will be provided in the event.

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AGE: 32 years and above

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6. NESA DISTINGUISHED SCIENTIST OF THE YEAR AWARD

AGE: 35 years and above

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WHO CAN APPLY

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AGE: Up to 30

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AGE: Up to 35

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