



Special Activities and New Initiatives

## Monthly Report of September 2023

# Doon University, Dehradun

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## Dept. of Physics, School of Physical Sciences

- **Acceptance of Research Paper**

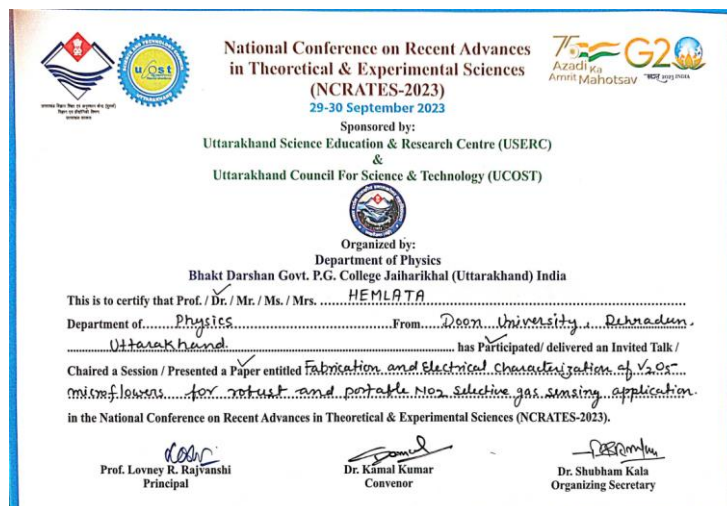
Title: Enhanced Photocatalytic Activity and Thermal Conductivity of Boron Nitride Quantum Dots decorated TiO<sub>2</sub> nanograss composite (Journal of Materials Science, I.F. 4.5)

Authors: Jyoti Rawat, **Himani Sharma**, Charu Dwivedi

- **Dr Indira** (guest faculty) presented her work as “Invited talk” entitled study of fractal pattern in polymer electrolyte due to electroless deposition in the conference, NCRATES-2023, Govt. PG College, Jeharikhhal.



- **Dr Hemlata** (guest faculty) received the best poster presentation for her work entitled “Fabrication and electrical characterization of V<sub>2</sub>O<sub>5</sub> microflowers for robust and portable NO<sub>2</sub> selective gas sensing application” in the conference, NCRATES-2023, Govt PG College, Jeharikhhal.



- Ms. Saumya Dimri (MSc student) along with Dr. Indira presented their research work entitled correlation analysis between the concentration of PM<sub>2.5</sub> with respect to the atmospheric parameter of (Anand Vihar) Delhi 2020-21 in the conference, NCRATES-2023, Govt PG College, Jeharikhhal.

- Ms Himadri Tripathi (MSc student) participated in the workshop on Advanced nanomaterials with fabrication and characterization in diverse areas, organized by centre for nanotechnology, IIT Roorkee.



- Ms Sakshi Pujari (MSc student) participated in the workshop on Advanced nanomaterials with fabrication and characterization in diverse areas, organized by centre for nanotechnology, IIT Roorkee.



- Three MSc students completed the NPTEL course in the following areas and duration
  - Sakshi Pujari - Concepts in Magnetism and Superconductivity (8 weeks)
  - Himadri Tripathi - Structural analysis of Nanomaterials (4 weeks)
  - Anshuman Dhobal - Structural analysis of Nanomaterials (4 weeks)
- Dr. Khushboo Singh joined as Assistant Professor in the Department of Physics in the month of September.

### School of Design

**Odd Semester- Tree plantation Drive (September 13, 2023)**  
 Near the Library building at Doon University  
 School of Design has started a tree plantation drive from 2017 to now. Every semester school of design's students plant trees. Tree plantation drive is not only contributing to a greener environment but also providing valuable learning experiences for students in the design department.



### **Earth Art Activity (September 15, 2023)**

First year (batch 2023-27) did earth art activity at doon university ground. The Earth art involves creating artwork using natural materials found in the environment. This form of art often emphasizes the connection between humans and the natural world.



## **School of Biological Sciences**

### **Participation in “Krishna Puraan” event on Krishna Janmashtami:**

B.Sc. students from the SoBS namely Mr. Devashish Bhatt (5<sup>th</sup> sem), Mr. Yash Kashyap (3<sup>rd</sup> sem), Saurabh K. Batohey (3<sup>rd</sup> sem), and Meenakshi Mangain (3<sup>rd</sup> sem) participated in the “Krishna Puraan” event on Krishna Janmashtami, 6<sup>th</sup> Sept., 2023 at Auditorium Hall, Nityanand Building, Doon University. Some photos of the event are given below.



### **Cleanliness Drive:**

Ms. Molly Bhatt, 3<sup>rd</sup> semester student of B.Sc. Biological Science, participated in the Cleanliness drive at Doon University and its vicinity on 21st and 23rd Sept., 2023.

### **Participation in Ozone Day Celebration:**

A workshop on “**Air Quality: Pollution and Mitigation Strategies**” was organized by Uttarakhand Pollution Control Board in association with Doon University on World Ozone Day, **16<sup>th</sup> Sept. 2023** at Senate Hall, Doon University, Dehradun. The workshop was attended by the faculties and the students of the School of Biological Sciences (SoBS) and School of Environment and Natural Resources (SENR).

अमर हिन्दुस्तान

हरिद्वार/रुड़की

## दून विवि में कार्यशाला का आयोजन

**अमर हिन्दुस्तान**  
देहरादून। स्कूल ऑफ एनवायरनमेंट एंड नेचुरल रिसोर्स एसईएनआर, दून विश्वविद्यालय ने उत्तराखण्ड प्रदूषण नियंत्रण बोर्ड यूकेपीसीबी के सहयोग से अंतर्राष्ट्रीय ओजोन दिवस के अवसर पर शानम रणनीति विकसित करने के लिए वायु गुणवत्ता पर शनिवार को कार्यशाला का आयोजन किया। मुख्य पर्यावरण अभियंता यूकेपीसीबी चंदन सिंह देहरादून द्वारा शुरुआत में स्वागत नोट दिया। उन्होंने पर्यावरण की सुरक्षा में ओजोन के महत्व और इसके नुकसान में योगदान देने वाले प्रमुख कारकों के बारे में बात की। पर्यावरण विज्ञान स्कूल की प्रमुख डॉ. कुसुम अरुणाचलम ने ओजोन दिवस समारोह के महत्व पर प्रकाश डाला। वह शिक्षा जगत और अन्य सरकारी निकायों के बीच सहयोग पर भी जोर देती हैं। दून विश्वविद्यालय की कुलपति प्रोफेसर सुरेखा डंगवाल ने जलवायु परिवर्तन, जैव विविधता हानि और पर्यावरण प्रदूषण के गंभीर परिणामों से मानवता की रक्षा के लिए विशेष रूप से पर्यावरण संबंधी



मुद्दों पर जागरूकता कार्यशाला के महत्व के बारे में बात की। पटनायक ने सरकारी स्तर पर अपनी पूर्ण व्यस्तता के कारण यूकेपीसीबी के अध्यक्ष का शुभकामना संदेश दिया। मुख्य तकनीकी सत्र एरोज नैनीताल के वायुमंडलीय प्रभाग के प्रमुख डॉ. मनीष नाजा द्वारा दिया गया। यूकेपीसीबी के अधिकारी डॉ अंकुर केशल ने मॉनिटरिंग प्रोटोकॉल पर व्याख्यान दिया और मॉनिटरिंग प्रोटोकॉल के वांछित लक्ष्य को प्राप्त करने में वैश्विक दुनिया की सामूहिक भूमिका पर प्रकाश डाला। कार्यक्रम का समापन कार्यशाला के संयोजक डॉ. विजय श्रीधर के धन्यवाद प्रस्ताव के साथ हुआ। कार्यक्रम में डॉ. अर्चना शर्मा, डॉ. अचलेश डेवेरी, डॉ. हिमानी शर्मा, डॉ. पोपेन और अन्य संकाय सदस्य, सरकार के अधिकारी, जैविक विज्ञान, पर्यावरण विज्ञान के छात्र, प्रयोगशाला कर्मचारी और अनुसंधान विद्वान उपस्थित थे।



**E-INVITATION**  
**WORLD OZONE DAY**  
**WORKSHOP ON AIR QUALITY: POLLUTION AND MITIGATION STRATEGIES**  
Organized by **Uttarakhand Pollution Control Board** in association with **Doon University Dehradun**  
**SATURDAY, SEPTEMBER 16, 2023**  
**10:00 A.M. - 01:30 PM**  
@  
**SENATE HALL, DOON UNIVERSITY, DEHRADUN - 248001 UTTARAKHAND**  
R.S.V.P.  
**S K Pattnaik, IFS**  
Member Secretary, UKPCB

### Expert talk by Dr. Sanket J. Joshi (Sultanate of Oman, Oman):

School of Biological Sciences (SoBS) and School of Environment and Natural Resources (SENR), Doon University organized an expert talk on “**Environment friendly applications in Petroleum industry: From Lab to Field**” by **Dr. Sanket J. Joshi**, Deputy Director, Oil and Gas Research Center, Sultanate of Oman on **19<sup>th</sup> Sept., 2023** at 11.30 am. Dr. Achlesh Daverey, Coordinator, School of Biological Sciences coordinated the talk at Senate Hall, Doon University. Prof. Kusum Arunachalam briefed about the various departments, faculties and infrastructures available in the university. The talk was attended by the faculties and the students of both the schools.



### Invited Lectures/Resource Person:

- Dr. A. Daverey** delivered an invited talk on “**Engineered biochar-based Proton Exchange Membrane for Microbial Fuel Cell: Development, Characterization, and Applications**” at

International Conference on Clean Energy Materials & Technologies (ICCEMT-2023) organized by UPES, Dehradun, **India**. 20-22 Sept **2023**.

2. **Dr. A. Daverey** delivered an invited talk [*virtual*] on “Valorization of Pine Needles as Biochar for Development of Proton Exchange Membrane for Microbial Fuel Cell” at 3rd International Conference on Pollution Prevention and Clean Technologies” organized by Institute of Technology and Business in České Budějovice, **Czech Republic**. 13-15 Sept **2023**.

#### **Student’s Achievement:**

**Mr. Ayush Negi**, first year student of B.Sc. Biological Sciences has been nominated by **Cycling Association of Uttarakhand** to participate in the trials of the Asian MTB Cycling Championship to be held in Kerala from 4/10/2023 to 5/10/2023.

#### **Journal Publications:**

1. S. Bangia, R. Bangia, **A. Daverey\*** (2023). Pharmaceutically active compounds in aqueous environment: Recent developments in their fate, occurrence, and elimination for efficient water purification. *Environmental Monitoring and Assessment*. (Accepted on Sept 8, 2023). (**IF: 3.0**).
2. G. Jena, K. Dutta, **A. Daverey\*** (2023). Surfactants in water and wastewater (greywater): Environmental toxicity and treatment options. *Chemosphere*. (**IF: 8.8**). Accepted on 4<sup>th</sup> September 2023.
3. **V. Shah**, P. Dani, **A. Daverey\*** (2023). Phytoremediation of heavy metal contaminated soil using *Bidens pilosa*: Effect of varying concentrations of sophorolipids. *Applied Biochemistry & Biotechnology* (In Press) (**IF: 3.0**). Published online on: 21 September 2023

#### **Workshop on “Effective Utilization of Library Resources”** **Central Library, Doon University**

The Central Library organized an informative workshop on September 22, 2023, with a primary focus on the Effective Utilization of Library Resources for its first-year students. This workshop emerged in response to persistent requests from students for unimpeded access to the university library's resources, available around the clock and from any location. Dr. Ashish Kumar, the University Librarian, along with his team, provided a comprehensive demonstration of the diverse services and resources offered by the library, with a notable emphasis on the e-Library. This initiative resonated deeply with the students, who exhibited a keen interest in harnessing the wealth of digital knowledge.

During the workshop, the librarian explained the inner workings of the library, encompassing both its physical collection and electronic archives. His presentation also illuminated the innovative methods and procedures implemented by the library to offer steadfast support to the student community. The session, characterized by its interactivity, afforded students the opportunity to satisfy their curiosity and resolve any lingering doubts concerning the university library's facilities and services.

The workshop left students thoroughly satisfied and appreciative of the efforts invested in their academic growth. In gratitude, Shiva Sood, representing the student body, extended heartfelt thanks to Dr. Ashish Kumar and the diligent library staff for their unwavering dedication and the time they

devoted to making the event a resounding success. During the session, the Library team comprised of Dr. Udita Negi, Dr. Rama Bora and Dr. Rajneesh Kumar were actively involved in facilitating hands-on practice.



**Department of Chemistry,**  
**School of Physical Sciences (SoPS), Doon University**

[1] Dr. Arun Kumar (Fellow, Royal Society of Chemistry, Cambridge, United Kingdom) joined Department of Chemistry, Doon University as an Associate Professor on September 01, 2023.

[2] Dr. Shivani Verma joined Department of Chemistry, Doon University as an Assistant Professor on September 04, 2023.

[3] Dr. Arun Kumar visited United Kingdom (U.K.) during 09<sup>th</sup> September 2023 to 18<sup>th</sup> September 2023 and attended the following scientific meetings:

[3.1] September 12: UK-India Symposium on Chemical Sciences, University of York.



**Dr. Arun Kumar (2<sup>nd</sup> at left-hand side) and other Indian and UK delegates in University of York**

[3.2] September 14 : UK India Symposium on Chemical Sciences, University of Bristol

[3.3] Attended iRISE Discussion Forum Meeting in the capacity of observer on the topic “How to tackle the issue of Anti-Microbial Resistance”

[3.4] Attended meeting with CEO Ms. Helen Pain at Head Office of Royal Society of Chemistry (RSC) in Cambridge, United Kingdom (UK)



Dr. Arun Kumar (2<sup>nd</sup> from right-hand side) in RSC Head Office in Cambridge, United Kingdom

[4] Article entitled “*Organoselenium ligands for heterogeneous and nanocatalytic systems: development and applications*” published by the Department of Chemistry in Dalton Transactions (an international journal of high repute) in the year 2021, has been placed in September 2023 among top 10% of highly cited articles from the Royal Society of Chemistry (RSC), Cambridge, UK.

Link: [Your Royal Society of Chemistry publication is among the most cited in 2022 \(rsc.org\)](https://www.rsc.org/journals-books-databases/journal-list/dalton-transactions)



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Organoselenium ligands for heterogeneous and nanocatalytic systems: development and applications

#### **Journal**

*Dalton Transactions*