



Sustainability Fair 2.0

4th INTERNATIONAL SUSTAINABILITY
CONFERENCE ON HEALTH, SAFETY, FIRE AND
ENVIRONMENTAL ADVANCES

(HSFEA 2023)

OCTOBER 30-31, 2023

"Promoting Global Well-Being"



Sustainability Cluster, School of Advanced Engineering, UPES Bidholi, Dehradun, Uttarakhand - 248007

























Technical Report

SUSTAINABILITY FAIR 2.0 (HSFEA – 2023)

Organized by

Sustainability Cluster
School of Advanced Engineering (SoAE)
UPES Dehradun

October 30-31, 2023

Theme: Promoting Global Well-Being

Chair

Prof. Manish Kumar

Convenor

Prof. Bikrama Prasad Yaday

Organizing Secretary

Organizing Secretary

Dr. Abhishek Nandan

Dr. Mahesh Kumar Tiwari

Table of Contents

Page No.
4
4
5
9
11
12
20
26
27

Executive Summary

Sustainability Cluster, School of Advanced Engineering (SoAE), UPES Dehradun hosted the 4th International Sustainability Conference on Health, Safety, Fire, and Environmental Advances (HSFEA-2023) under the umbrella of Sustainability Fair 2.0 during October 30-31, 2023, under the theme "Promoting Global Well-being". The aim of Sustainability Fair 2.0: HSFEA-2023 was to provide a dynamic interdisciplinary platform for researchers, professionals, policymakers, and industry experts to collaborate, share insights, and explore advancements fostering global well-being. A series of activities were planned for this event such as mega alumni connect, industry conclave, oral and poster paper presentations, panel discussions, plenary talks, exhibitions, model display, as well as award ceremony. The conference was sponsored by Makeen Energy, EID Parry's, Core EHS Solutions, AAAG India, Encore Insoltech, Springer Nature Group, American Chemical Society International, and Atomic Energy Regulatory Board (AERB). The Sustainability Fair 2.0 encouraged the participants to take a sustainability pledge to make eco-friendly choices and live a more sustainable life.

Objective of the event

- 1. Providing a platform for experts, researchers, and practitioners to share their knowledge, research findings, and innovative ideas, products & services with a wider audience.
- Bring together, professionals, industry leaders, and like-minded individuals from various sectors & backgrounds to foster collaboration, partnership, joint projects and business opportunities.
- 3. Providing a platform for discussing and addressing specific challenges or issues within a particular industry or field.
- 4. Facilitate engagement with regulatory bodies and policymakers to address industry-specific regulatory challenges and explore opportunities for improvement.
- 5. Sharing of case studies and success stories that highlight effective strategies and lessons learned in the field of Health, Safety, Fire, Environment, and Sustainability.

Highlights of Sustainability Fair 2.0

The key highlights of Sustainability Fair 2.0: HSFEA-2023 are as follows:

- Mega Alumni Connect A pre-conference cluster alumni connect was scheduled on Oct 29, 2023, in coordination with the Team Alumni Relation with the theme of Reunite, Reconnect, Retreat & Rejuvenate (4R). About 42 alumni from 22 different premiere industries participated in the pre-conference mega alumni meet.
- 2. Academia and Industry Conclave: Over 600 delegates from diverse stakeholders and representatives from reputed industries attended the conference to provide industry insights, foster networking and exchange thoughts and ideas with the participants within the field of HSFEA.
- 3. **Panel Discussions:** Four-panel sessions were conducted during the conference with a focus on fostering collaborative solutions and addressing key issues related to health, safety, fire, environment, and sustainability at the workplace. The panellists included renowned personalities such as Devendra Gill (Executive Director Safety, Delhi Metro), J. K. Anand (Chairman and Director, ASK-EHS Engineering Consultant Pvt. Ltd.), Manoj Baratwal (Former Executive Director and Head Academy ONGC, Dehradun), Sreedhar Ramamurthi (Managing Trustee Environics Trust), Somnath Fulari (Director, Makeen Energy Pvt. Ltd.), Suresh Raju Penmatsa (Vice President – Corporate EHS, Mankind Pharma Ltd.), Col. Anand Kumar Singh (Chief Executive Officer Safety Skill Development Foundation), Pankaj Singh (Business Leader-Safety, Adani group), Manish Kumar (Vice President and Corporate Head HSE, DLF Ltd.), Jayasanckar Rajamanickam (VP and Head EHS, EID Parry India Ltd.), Dr. Sanjay Gandhi (Assistant VP and Head, EHSF Gujarat Fluorochemicals Ltd.), Dr. R.K. Sharma (Head – Sustainability, India Glycols Ltd.), Prof. Sudalai Subramani (Asst. Prof. at Pondicherry University), Raji Ahmed Farooqi (HoD HSE, RPG Group), Dr. Har Amrit Singh Sandhu (ASCE President, North Region), Himanshu Dubey (Deputy Manager, Coal India Limited), Dr. Ashok More (Head of Department, DY Patil College of Engineering), Dr. Alka Pisal (Director at Dynamic Structural Solutions LLP), Dr. Amit Srivastava (Professor, Graphic Era University), and Simran Mohanani (Software Quality Analyst, Bentley Systems).

- 4. Individual & Organizational Award: Over 45 awards were given to industry professionals and organizations in recognition of their significant contributions in the field of HSFEA. The awardees (Individual & organization) were from various organizations such as Adani, Reliance, Delhi Metro Rail Corporation, Steel Authority of India Limited, Mitsubishi Elevator India Private Limited, Vedanta, Deloitte, L&T, EIL, Sparrow Risk Management, Mankind Pharma, Maruti Suzuki India Ltd, ERM, Gujrat Fluoro Chemicals Ltd, Eureka Forbes Limited, GlaxoSmithKline, Jubilant Generics Limited, Nayara Energy Limited, Makeen Energy, ASK EHS Engineering & Consultants Pvt. Ltd, DLF Limited, EID Parry (India) Ltd, Encore Insoltech, Prowaste Concepts, Trident Group, Neanic Solutions Pvt Ltd etc.
- 5. **Keynote and Plenary Talks**: The conference delegates were enriched with the plenary talks of Prof. Ashok Pandey (Distinguished Scientist at the Centre for Innovation and Translational Research, CSIR-Indian Institute of Toxicology Research, Lucknow, India), Dr. Kalay Vairavamoorthy (Executive Director, International Water Association).
- 6. Oral and Poster Paper Presentations: We received over 283 research articles for oral and poster presentations from prestigious institutions including IISc, IITs, NITs and central universities. A total of 16 best oral presentations and 13 best poster presentation awards were given to the participants.
- 7. **Exhibitions and Model Display: 33 exhibitors** from NGOs, start-ups, and industries showcased their best practices and innovations during HSFEA 2023. In addition, over 70 models developed by students from various nearby schools and colleges were put on display during the conference. The best **9 models** (from the various schools/colleges) were awarded during this event.
- 8. **Pre-conference Activities:** As a part of pre-conference activities, the conference committee has visited various nearby schools conducting student activities for over 1500 students, and orphanages where they met 150 orphans. Additionally, social awareness campaigns were organized by the students of UPES to promote health and hygiene among 500 students. A prelude to Sustainability Fair 2.0, ATMOSFAIR 2023 was successfully conducted as a celebration of environmental awareness and sustainability in the month of September.



Pre-conference activities in campus



Pre-conference activities of orphanage visit



Pre-conference activities of school awareness

Minute-to-minute program of Sustainability Fair 2.0

Sustainability Fair 2.0 (HSFEA 2023) Organized by Sustainability Cluster, School of Advanced Engineering, UPES, Dehradun Minute to Minute Program 29th to 31st October 2023 4R Night (29th Oct 2023) Venue Agenda 07:30 PM - 10:30 PM Reunite, Reconnect, Retreat, Rejuvenate Day 1 (30th Oct 2023) Time Agenda Venue 08:30 AM onwards Registration Inauguration of the Sustainability Fair 2.0 09.30AM - 10:30 AM 10:30 AM - 11:00 AM High Tea Panel Discussion 1: India's Potential Leadership in Health, Safety, 11:00 AM - 12:00 PM Environment and Sustainability: Exploring Opportunities and Overcoming Paper presentation Panel Discussion OS 1: Occupational and 2: Fostering a Safety Block 1 board room Poster Environ. Health Safety Culture at the Core 12:00 PM - 01:00 PM (Block 01) presentation, Vivekanand OS 2: Safety Net-Zero, Venue: Venue: MAC auditorium MAC OS 3: Risk Trust board room Exhibition and display 01:00 PM - 02:00 PM Panel Discussion 3: Industry 4.0 and the Transforming Landscape of Health, Safety, Fire, Erwironment and Sustainability Venue: MAC Parallel Paper & Poster Presentation OS 4: Fire Block 1 board room Vivekanand OS 5: Waste management auditorium OS 6: Biosecurity Trust board room Poster 02:00 PM - 03:00 PM SS 1: Quantum Technology and presentation, Room 1204 Venue: MAC SS 5: Environmental Sustainability K2305 and Legal Framework 03:00 PM - 05:00 PM Award Ceremony MAC 05:00 PM - 05:30 PM Tea 07:30 PM - 10:30 PM **Networking Dinner**

Day 2 (31st Oct 2023)						
Time			Agenda	Venue		
		el)	Parallel Paper & Po	ster Presentatio	n	
		Mod	SS 3: Transportation safety	Poster presentation, Venue: MAC	Block 1 board room	
09:30 AM - 11:15 AM		RISE and Model display (MAC)	SS 2: Food security		Vivekanand auditorium	
		RIS	OS 7: Waste and Energy	P res	Trust board room	
			SS 4: Energy and Environment	٥	Room 1204	
11:15 AM - 11:30 AM	_		High Tea			
	01)		Plenary Session	n		
11:30 AM – 12.15PM	Exhibition and display (Block 01)	Panel disc Developmen				
	ay (Plenary Ta	MAC			
12.15-01:30 PM	spl	Plenary Ta				
	ibi	Plenary Ta	alk 3: Prof. Kala Vairavamoorthy			
01:00 PM - 02:30 PM	and		Lunch			
	on	Paper & Poster Presentation				
	chibiti		Environment (Environ: sub theme mental management and monitoring)	e co	Block 1 board room	
02:30 PM - 04:30 PM	05		Environment (Environ: Sub theme Wastewater Treatment)	Poster presentation, Venue: MAC	Trust board room	
			OS 10: Biotechnology	Po presei Venu	Vivekanand auditorium	
	OS 11: ESG and legal				Room 1204	
04:30 PM - 05:30 PM		Valedictory			Vivekananda Auditorium	
05:00 PM - 05:30 PM		Tea				

Day-wise Conference Activities

Mega Alumni Meet - 29th October 2023

The conference kickstarted with a special event – **MEGAALUMNI CONNECT** with a theme of **Reunite**, **Reconnect**, **Retreat**, **Rejuvenate**. Forty-two alumni of the sustainability cluster from all over the country gathered to make this event memorable. The gathering witnessed a night of nostalgia, reconnections, and celebrations of the old, cherished memories and re-ignite the precious connections.

The evening concluded with the felicitation of the alumni by the career services and the Sustainability Fair Committee. It was decided to continue this event as the annual meet under the umbrella of the Sustainability Fair.



Mega Alumni Connect

DAY 1- Sustainability Fair 2.0: 30th October 2023

The second edition of the Sustainability Fair is based on the theme 'Promoting Global Well-Being'. Last year, we had the first edition inaugurated by the governor Uttarakhand on the theme of Sustainable Urban Environment (ISSUE).

This year, we have received 283 abstracts from over 92 institutions, including IITs, NITs and 5 countries: **Mexico**, **Saudi Arabia**, **Bangladesh**, **the UK & the USA**. This year, we have partnered with Q-1 journals to publish selected papers. Selected articles will be published in a special issue of **Environmental Science and Pollution Research (ESPR)** and **Biomass Conversion and Biorefinery** journals, as well as in Springer proceedings. The parallel oral and poster presentations were conducted for several themes including risk, safety, biosecurity, environment, waste management, biotechnology, green building, waste and energy, along with special sessions on food security, energy and environment, transportation safety, sustainability and legal framework.

The session began with the inaugural talks by **Padma Bhushan**, Dr. Anil Joshi ji & Prof. Shane Allen Snyder, **CEO of IWA & ED, NTU Singapore**.

"It is not enough to have theoretical or abstract notions of sustainability; rather, one should focus on how sustainability is defined and applied in real-world contexts" – Padma Bhushan Dr. Anil Joshi.

Prof. Shane Allen Snyder focussed on the waste plastic upcycling of high-value materials. Prof. Ram Sharma, VC, UPES, emphasised on the critical challenges in the field of health safety, fire, environment, and sustainability.

Prof. Manish Kumar, **Head of the Sustainability Cluster**, conveyed that the University plans to make it an annual event; thus, participants should stay tuned for its third edition in 2024. The panel discussion on "**India's Potential Leadership in Health, Safety, Environment, and Sustainability: Exploring Opportunities and Overcoming Challenges**" followed the inaugural session with the esteemed panellists: Devendra Gill (Executive Director Safety, Delhi Metro), J. K. Anand (Chairman and Director, ASK-EHS Engineering Consultant Pvt. Ltd.), Manoj Baratwal (Former Executive Director and Head Academy ONGC, Dehradun), Sreedhar Ramamurthi (Managing Trustee Environics Trust), and Somnath Fulari (Director, Makeen Energy Pvt. Ltd.), where Prof. Manish Kumar moderated the panel discussion.

The second panel discussion on "Fostering a Safety Culture at the Core and Pioneering a Net-Zero Accident Vision" was moderated by Devendra Gill (Executive Director Safety, Delhi Metro) and the panellists included Suresh Raju Penmatsa (Vice President – Corporate EHS, Mankind Pharma Ltd.), Col. Anand Kumar Singh (Chief Executive Officer Safety Skill Development Foundation), Pankaj Singh (Business Leader-Safety, Adani group), Manish Kumar (Vice President and Corporate Head HSE, DLF Ltd.), and Jayasanckar Rajamanickam (VP and Head EHS, EID Parry India Ltd.). The third panel discussion on "Industry 4.0 and the Transforming Landscape of Health, Safety, Fire, Environment and Sustainability" included the panellists Dr. Sanjay Gandhi (Assistant VP and Head, EHSF Gujarat Fluorochemicals Ltd.), Dr. RK Sharma (Head – Sustainability, India Glycols Ltd.), Prof. Sudalai Subramani (Asst. Prof. at Pondicherry University), Raji Ahmed Farooqi (HoD HSE, RPG Group) and was moderated by Jayasanckar Rajamanickam (VP and Head EHS, EID Parry India Ltd.).

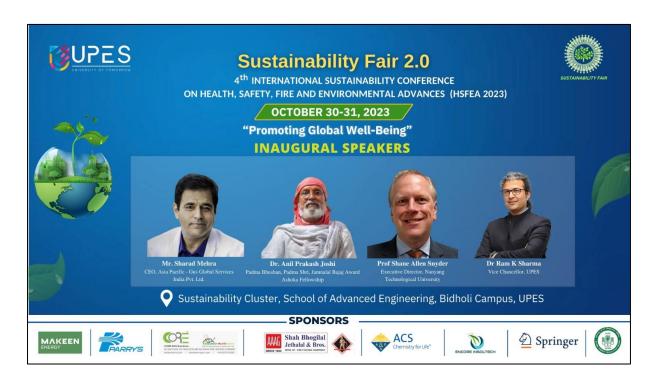
After several parallel oral and poster sessions, and panel discussions, we started distributing the happiness of acknowledgment and hard-earned recognitions in an event packed award ceremony for both individual efforts and institutional achievements. We received several nominations based on which individual and organizational awards were given. Among them, a few of the award recipient organizations were Adani groups, Reliance Retails, Makeen Energy, Prowaste Concepts, Mitsubishi, Mankind Pharma, Eureka Forbes, HESCO, UPCB among the others. The night concluded with the networking dinner, but not before witnessing fine dining, entertainment, and meaningful conversations. The lifetime achievement award was given to Dr. R. K. Sharma, who heads the sustainability division of India Glycols Ltd. for his immense contribution to the field of environment, occupational health, and safety.

List of individuals and organizations selected for various award categories

	Individual awards					
S.No.	Name Name of t Organisati		Award Name	Sector		
1	Mr. Sushant Gill	Deloitte	Young Safety Professional of the Year Award	Consultancy Services		
2	Mr. Karthikeyan S	Engineer India Limited - EIL	Young Safety Professional of the Year Award	Engineering, Procurement and Construction		
3	Ms. Anjali Parashar	Sparrow Risk Management Pvt. Ltd.	Young Safety Professional of the Year Award-Female	Consultancy Services		

4	Mr. Mandeep Walia	Larsen & Toubro - Water & Effluent Treatment IC	Young Safety Professional of the Year Award	Construction
5	Mr. Parth Mehta	Adani Enterprises Ltd	Young Sustainability Professional Award- Male	Infrastructure Conglomerate
6	Ms. Droni Pancholi	Mankind Pharma	Young Sustainability Professional Award- Female	Pharmaceutical
7	Mr. Rahul Kumar Meena	Women's Engineering College	Youngest Innovator Award	Construction
8	Mr. Jaskaran Singh	Maruti Suzuki India Limited	Best Young Innovative Practitioner Award	Manufacturing
9	Ms. Srishty Thareja	ERM	Best Young Innovative Practitioner Award	Consultancy Services
10	Dr. Sanjay P Gandhi	Gujarat Fluorochemical Limited	Environmental Excellence Award	Chemical
11	Mr.Anurag Pathak	Eureka Forbes Limited	Environmental Excellence Award	Manufacturing
12	Mr.Ashutosh Mishra	GlaxoSmithKline	Safety Leadership Award	Health Care
13	Mr.Yogesh Kumar	Jubilant Generics Limited	Safety Leadership Award	Pharmaceutical
14	Mr.Manish Kumar	DLF Limited	Safety Leadership Award	Real Estate
15	Mr. Jitendra Kumar Anand	ASK EHS Engineering & Consultants Pvt. Ltd.	Safety Leadership Award	Consultancy Services
16	Mr. Apoorv Agarwal	Nayara Energy Limited	Safety Leadership Award	Energy
17	Mr. Navneet Singh Chauhan	Makeen Energy	Safety Leadership Award	Oil and Gas (LPG)
18	Chandranshu Sharma	Reliance Retail Ltd	Safety Leadership Award	Retail
19	Mr. Amit Kumar	Mitsubishi Elevator India Private Limited	Safety Excellence Award	Industrial Machinery
20	Mr. Pankaj Singh	Adani Cements	Safety Professional of the Year Award	Cement
21	Mr. Kumar Gaurav	Reliance Retail Ltd	Safety Professional of the Year Award	Retail
22	Mr. Jayasanckar Rajamanickam	EID Parry (India) Ltd	Safety Professional of the Year Award	Process

Organizational awards						
S.No.	Name of the organisation		Name of Award	Sector		
1	Mitsubishi Elevator India Private Limited	Best Innovative Practices Award		Industrial Machinery		
2	Steel Authority of India Limited (SAIL) -Bokora Plant	Best	Innovative Practices Award	Metal Processing		
3	Prowaste Concepts	Best	Innovative Practices Award	Environmental Consultancy services		
4	Jubilant Generics Limited	S	afety Excellence Award	Pharmaceutical		
5	Makeen Energy India Pvt Ltd	S	afety Excellence Award	Oil & Gas (LPG)		
6	Trident Group	S	afety Excellence Award	Textile and Paper		
7	Steel Authority of India Limited (SAIL)-Burnpur Plant	S	afety Excellence Award	Metal Processing		
8	Adani Cements	S	afety Excellence Award	Cement Business		
9	Reliance Retail Limited	Susta	inability Excellence Award	Retail		
10	Himalayan Environmental Studies and Conservation Organisation (HESCO)	Susta	inability Excellence Award	Public		
11	Eureka Forbes Limited	Envir	onmental Excellence Award	Manufacturing		
12	Gujarat Fluorochemical Limited	Envir	onmental Excellence Award	Chemical		
13	Uttarakhand Pollution Control Board	Environmental Excellence Award		Public		
14	Vikaki Enterprises	Promising Startup of the Year Award		Training & Development		
15	Neanic Solutions Pvt Ltd	Pro	mising Startup of the Year Award	Technology Advancement		
16	Encore Insoltech	Promising Startup of the Year Award		Environmental Consultancy services		
17	Fire & Security Association of India	В	est Safety Communicator Award	Training & Education		
18	ASK EHS Engineering & Consultants Pvt. Ltd.	Best Safety Communicator Award		Consultancy services		
19	Uttarakhand State Council for Science & Technology	Excellence Award in Science & Technology		Public		
20	Delhi Metro Rail Corporation (DMRC)	Safety Culture Transformation Award		Urban Transportation		
21	Mankind Pharma	Susta	inability Excellence Award	Pharmaceutical		
22	Adani Enterprises Limited	Susta	inability Excellence Award	Business		
23	Reliance Retail	Susta	inability Excellence Award	Business		
	Lifetin	ne Acl	nievement Award	ı		
	Name		Organ	ization		
	Dr. R.K. Sharma		India Gly	ycols Ltd.		



Inaugural Speakers



Glimpses of Inaugural Session



Glimpses of Panel Discussions



Award Ceremony

Exhibits by Industries, NGOs, and Academia

A total of around 33 exhibitors participated in the Sustainability Fair 2.0 – 4th International Sustainability Conference on Health, Safety, Fire & Environmental Advances on both the days (30th October and on 31st October 2023). The exhibitors were from industries, academia and NGOs and Cooperative societies. They all showcased and sold their product to participants, students and faculties of different schools, and delegates from all over the country. The exhibition space offered the exhibitors an opportunity to showcase their products, services, and innovations to a global audience of industry professionals, experts, and decision-makers. The list of exhibitors includes Indian Hemp Store, Eco Karma, Himalayan Women Self Reliant Cooperative Society, Fire Safety Consulting, Makeen Energy, Fyoli Haat, Uttarakhand Gram Vikas Samiti, among the others.



Exhibitors and Poster Presentations



Cultural activities during Sustainability Fair 2.0

DAY 2- Sustainability Fair 2.0: 31st October 2023

Day 2 started with the panel discussion on "Sustainable and Climate Resilient Infrastructure Development" by the panellists involving both academia and industry fostering a dialogue for a safer and greener future. The panel of experts, including Dr. Saswati Datta as the moderator and esteemed panel members, Dr. Har Amrit Singh Sandhu (ASCE President, North Region), Himanshu Dubey (Deputy Manager, Coal India Limited), Dr. Ashok More (Head of Department, DY Patil College of Engineering), Dr. Alka Pisal (Director at Dynamic Structural Solutions LLP), Dr. Amit Srivastava (Professor, Graphic Era University), and Simran Mohanani (Software Quality Analyst, Bentley Systems) shared invaluable insights on the critical topic of sustainable and climate-resilient infrastructure development. The panel emphasized the paramount importance of sustainable and climate-resilient infrastructure. They discussed how these developments are not only essential for mitigating climate change impacts but also for ensuring long-term infrastructure viability and the well-being of our communities. The experts candidly discussed the myriad challenges faced by professionals, researchers, and policymakers in the field. These challenges encompassed the integration of sustainability into traditional construction methods, funding issues, regulatory hurdles, and more. Acknowledging these challenges is the first step towards finding solutions.

ASCE UPES was formally launched after the panel discussion. Paper and poster presentation continued on the last day in coherence with the keynote session for each theme. The plenary talk from Dr. Ashok Pandey followed this. He provided in-depth insights into waste remediation. Dr. Kalanithy Vairavamoorthy from International Water Association (IWA) delivered a talk on nature-based solutions which can help in providing resilient water-based sustainable solutions. These strategies included the adoption of innovative technologies, the formulation of effective policies, and fostering multi-stakeholder collaboration.

Valedictory function:

Dr S. S. Sandhu, Chief Secretary, Uttarakhand Govt, graced the valedictory session and shared the government's view on sustainable practices. In his talk, he highlighted the importance of not linking the disasters with development every time because disasters even take place in pristine environment where they are no development. He took questions from the audience including school students as well. One of the students asked about the development of metro rail in Dehradun and the Chief Secretary replied that the local geology is not conducive. The

excitement galore ended with the certificates and awards distribution to the winners of model competitions along with best oral and poster presentations in various themes of the event.

List of best oral presentation awards in various session themes

Theme	Name	Affiliation
Risk	Ishan Singh,	CSIR-National Environmental
	Asirvatham Ramesh Kumar	Engineering Research Institute, Nehru
		Marg, Nagpur
Safety	Dr. Rajiv Chauhan, Shubham	Punjab Technical University, Jalandhar
	Kumar, Lakshay Chhapola,	
	Hargunbir Singh	
Green Building	Swarn Veer Singh Jaral and	Lovely Professional University, Punjab
	Manpreet Singh	
Fire	Charu Mehta, A. Aravind Kumar,	Fire Research Division, CSIR-Central
	Mahesh Kumar Tiwari, Rakesh	Building Research Institute, Roorkee,
	Kumar, Mohammad Ahmad Shoeb	India.
Occupational Health and	Durga Prasad Panday, Vivek	UPES
Environmental Safety	Agarwal, Manish Kumar	
Biosecurity	Vivek Kumar Jaiswala,	Indian Institute of Technology (BHU),
	Ram Sharan Singha	Varanasi
Waste Management	Atul Srivastava Pawan Kumar Jha	Centre of Environmental Science,
		University of Allahabad, Uttar Pradesh
Waste and Energy	Riya Aneja, Anuj Chauhan, Tanya	Doon University
	Chauhan	
Special Session on Food	Shivani Rauthan, Ajay Singh	Uttaranchal University
Security		
Special Session on	Jayati Singh	UPES Dehradun
Transportation Safety		
Special Session on	Anushika Singh Sengar	UPES School of Law
Sustainability and Legal		
Framework		
Special Session on Energy	Noubi Junior Hyacinth	UPES
and Environment		
Biotechnology	Nishant Kumar Singh	Amity University
Environmental	Yogesh Kumar Vishwakarma	IIT (BHU), Varanasi
management and		
monitoring		
Wastewater Treatment	Ramesh Kumar	Indira Gandhi National Tribal
		University, Amarkantak

ESG and Legal	Arpita Ghosh	Indian Institute of Management Sirmaur	l
Framework			

List of best poster presentation awards in various session themes

Theme	Name	Affiliation
Risk	S. J. Mane	D Y Patil College of Engineering
Safety	Aditya Acharya, Simar Katyal	UPES
Bio-Civil	Shilpi Gupta	UPES
Fire	Parth Saole, Amulya Jeevanasai	UPES
Occupational Health and Environmental Safety	Srajal Tiwari	Chandigarh University
Biosecurity	Smriti Bhardwaj	UPES
Biotechnology	Manoj Kumar and Anjali Panwar	UPES
Waste Management and Energy	Shiwangi Kesarwani	IIT-BHU
Special Session on Food Security	Pooja Chand	UPES-SOHST
Special Session on Transportation Safety	Nishant Mukund Pawar	NIT Calicut
Special Session on Energy and Environment	Pugazh Venthan	UPES
Environment	Ashok B More	D Y Patil College of Engineering, Pune
ESG and Legal Framework	Nandini Maheswari	UPES



Glimpses of Valedictory Session

Rise Event Model Display (Schools and Colleges)

The RISE (Research Innovation and Sustainability Exhibition) event held on 31 st October 2023 under Sustainability Fair 2.0 brought together students from various schools and Colleges, showcasing their exceptional models, prototype and working model around the theme of environment, sustainability, and climate change. With the total of around 120 participants from school and 300 participants from different colleges, institutions, and universities, the event was a resounding success, demonstrating the enthusiasm and dedication of young mind towards addressing crucial global changes. The events witness's participation from schools like St. Josephs Academy, Doon International School River Side Campus, Doon Laureals School, Pine View School, Vaidh Tod Bright and Chaitya Techno Crates.

In the **school category**, a total of **25 models** were displayed by **120 students**. These young talents exhibited their creative and innovative solutions to address environmental and sustainability issues. The first prize among senior category was given to St. Joseph Academy for their model title "Sustainable Thermal Power Plant". This model showcases the groundbreaking approach to sustainable energy generation, emphasizing the need for clean and renewable power.

The second prize was bagged by Doon International School for their model titled "Smart Bridge". Their model focused on using advance technology to create a more sustainable and resilient bridge infrastructure and Third Prize also given to DIS river side campus. In Junior Category first prize was given to Sree Chaitanya School, Clean water sanitation, second prize given Pine View on Eco City and Third Prize given to Vaidh Bright Tod on Sustainable Development Goals for Eco Town, their models illustrated how communities can work towards achieving the Sustainable Development Goals, promoting a more equitable and sustainable future.

In the College category, there were total **80 models** were displayed by around **300 students**. The first won by UPES student for their model Floating ball green hydrogen generator using saline water electrolyzer and powered by solar-piezoelectric panel and second prize won by Graphic Era University for the model Biomass Briquette-The Future Fuel and third prize won by DBIT Shree Dev Bhoomi Institute of Education and Science Technology (SDBIT) for their model on Sustainable Waste Management Approach.



RISE Event Flyer

Details of Students who won Awards/ Prizes:

School Junior Category

1. Clean Water Sanitation (1st Prize)

Advika Sharma, Anjali Upadhya, Dolly, Daksh, Pragun (Sri Chaitanya International Techno School, Dehradun)

2. Ecocity (2nd Prize)

Akriti, Om, Himani, Manvi (Pine View School)

3. Sustainable Development Goals for Ecotown (3rd Prize)

Paridhi Nautiyal, Aryan Negi, Vyomna Pandey, Aayush Negi, Manvi Sharma (Vaid Bright Tots School)

School Senior Category

1. Sustainable Thermal Power Plant (1st Prize)

Devansh Tripathi, Arnav Pandey (St. Joseph Academy)

2. Smart Bridge (2nd Prize)

Lakshya Avi Singh, Paritosh Dev Dang, Amogh Bahukhandi, Bhawna Bhall (Doon International School River Side Campus)

3. Sustainability Poster (3rd Prize)

Avishi Bhalothia, Vijay Jaiswal, Meher Pandher, Arun (Doon International School Riverside Campus)

College Model Presentations

1. Floating ball green hydrogen generator using saline water electrolyzer and powered by solar-piezoelectric panel (1st Prize)

Swagata Sarma, Disha Gosh, Aryan Jamwal, Devang Saini, Gourav Choudhary (UPES SOE)

2. Biomass Briquette-The Future Fuel (2nd Prize)

Deepanshi Yadav, Shantanu Upadhaya (Graphic Era Deemed To be University)

3. Sustainable Waste Management Approach (3rd Prize)

Manoj Kumar, Sudip Kumar, Sandesh Shah, Sarika Jha (Shree Dev Bhoomi Institute of Education and Science Technology (SDBIT))



Model Presentations

Conclusion

Sustainability Fair 2.0 ended with the concluding speech of Dr. B. P. Yadav, convenor of the event. Dr. Yadav offered sincere gratitude to Prof. Ram Sharma (VC, UPES), Mr. Manish Madaan (Registrar, UPES), Prof. D.K. Avasthi (Dean R&D, UPES) and Prof. Manish Kumar (Chair, Sustainability Fair 2.0) for their gracious presence during the fair and for their constant guidance and support during the organization of the conference. He extended his vote of thanks to all the participants and delegates who were a part of the event. In the end, he thanked the organizing committee and the volunteers without whom the event would not have reached significant heights.

Event	Academia and Industry Conclave	Exhibitors	Mega Alumni Connect	Model presenters	Total participation
Footfall	600	33	42	School: 120 College: 300	1,095

Media coverage

Garhwal Post The Pioneer

EHRADUN, 1 Nov: The 4th ational Sustainability ence on Health, Safety and Environment (HSFEA-2023 es (PES So

concluded at UPES school or Advanced Engineering. Centred around the theme Promoting Global Well-being", the two-day event served as a dynamic interdisciplinary platform that brought together archers, professionals, symakers, and industry tts to collaborate and share

The summit kicked off with The summit locked off with a Mega Alumni Connect, a pre-conference where UPES alumni from 22 different industries gathered to reconnect. Further, Sustainability Fair 2.0 hosted plenary talks and panel discussions with industry stalwars to enrich the audience with to enrich the audience with the properties. enrich the audience with aluable insights. The plenary alks were graced by the presence



personalities such as Somnath Fulari, Director, Makeen Energy Pvt. Ltd, Devendra Gill, Executive Director Safety, Delhi Metro, and SP Garg, Former Executive Director, GAll. India Pvt. Ltd. Anatt fever this Apart from this, the even-featured an array of activities, including an industry conclave, oral and poster paper

industrialists, alumni, and academia in the field of HSFEA. With over 1000 delegates in attendance from reputed corporates like Reliance, Adani, Tata Steel etc., Sustainability Fair 2.0: HSFEA-2023 was a remarkable success, uniting experts and enthusiasts in the pursuit of global well-being.

As a prelude to the evi conducted student activities for over 1,500 students at nearby schools. Additionally, UPES recently concluded ATMOSFAIR 2023, an event to celebrate environmental awareness and sustainability.

UPES Sustainability Fair 2.0 advocates Global Well-Being International sustainability conference concludes at UPES

he two-day 4th Interna-The two-day standility Con-tional Sustainability Conerence on Health, Safety, Fire and Environmental Advances (HSFEA-2023) concluded at UPES School of Advanced Engineering. Office bearers of UPES said that the event focused on promoting global well-being became an interdisciplinary platform bring-ing together researchers ing together researchers, professionals, policymakers and industry experts to col-laborate and share insights. Notably, the State's chief secretary SS Sandhu attended the event as the chief guest. Besides, scientist at the Cen tre for Innovation and Trans ational Research.

CSIR-Indian Institute of Toxicology Research, Lucknow Ashok Pandey and professor for Water Science and Technology, Tecnologico de Mon-terrey, Mexico Jürgen Mahlknecht attended the



panel discussion organised as part of Sustainability Fair 2.0. Over 1,000 delegates, including representatives of the corporate giants like Reliance, Adani Group and Tata Steel among others, participated in the fair. The UPES office bearers further informed that

as a prelude to the event, the institute's students organised social awareness can giene while the conference committee conducted stu-dent activities for over 1,500 students studying in nearby

यूपीईएस में सस्टेनेबिलिटी फेयर 2.0 कॉन्फ्रेंस आयोजित



गलोबल वैल-बींग पर दिया गया जोर

शाह टाइम्स संवाददाता

देहरादून। यूपीईएस स्कूल ऑफ एडवांस्ड इंबीनियरिंग को और से स्वास्थ्य, सुरक्षा, आग और पर्यावरण कें क्षेत्र में प्रगति पर आधारित चौथी इंटरनेशनल सस्टेनेबिलिटी कॉन्फ्रॉस . आयोजित की गई है। इस दौरान ग्लोबल वैल-बींग पर जोर दिया गया। इस यो दिवसीय सम्मेलन में विभिन्न क्षेत्रों से जुड़े शांधकर्ताओं, पंशोवरों, नीति-निर्माताओं और उद्योग क्षेत्र के विशेषज्ञों ने भाग लिया और आपस में विचारों को साझा किया। इस मौके पर मुख्य सचिव उत्तराखंड डॉ. सुखबीर सिंह संधू ने बतौर मुख्य अतिथि शिर.

सम्मेलन की शुरुआत मैगा यमनी कनेक्ट के साथ हुई जिसमें

यूपीईएस के पूर्व छात्रों ने हिस्सा लिया, जो कि 22 अलग-अलग उद्योग क्षेत्रों से जुड़े हैं। सस्टेनेबिलिटी फेयर 2.0 में कई पैनल चर्चाओं का आयोजन किया गया था जिसमें विधिन्न उद्योग क्षेत्रों से जुड़े दिग्गजों ने उपस्थित लोगों के साथ अपने विचारों को साझा किया। इस मौके पर सेंटर फॉर इनोवेशन एंड ट्रांसलेशनल रिसर्च. सीएसआईआर-इंडियन इंस्टीट्यूट ऑफ टॉक्सीकोलॉबी रिसर्च, लखनऊ के बाने माने वैज्ञानिक अशोक पांडेय, प्रोफेसर एंड चेचर कॉर वॉटर साइंस रैक्नोलॉजी रैक्नोलॉजिको ही मोंटेरी मेक्सिको प्रोफो, जुरगन माहलकनेख्त भी उपस्थित थे। सोमनाथ फलारी डायरेक्टर माकाँन एनजीं, देवेन्द्र गिल एग्जीक्बुटिव डावरेक्टर सेफ्टी दिल्ली मैट्रो व एसपी गर्ग पूर्व एग्जीक्युटिव डायरेक्टर गेल इंडिया भी शामिल रहे। **Shah Times**

Dainik Bhaskar

वक्ताओं की ओर से ग्लोबल वेल बीइंग पर दिया गया जोर

• यूपीईएस के सस्टेनेबिलिटी फेयर 2.0 का किया गया आयोजन

देहरादून। यूपीईएस स्कूल ऑफ एडवांस्ड इंजीनियरिंग की ओर से स्वास्थ्य, सुरक्षा, आग और पर्यावरण के क्षेत्र में प्रगति पर आधारित चौथी इंटरनेशनल सस्टेनेबिलिटी कॉन्फ्रेंस की गई है। सस्टेनीविंग्विटी कॉन्फ्रेंस को गई है। इस दौरान ग्लोबल बैल-बींग पर कोर दिया गया। इस दो दिस्सीय सम्मेलन में विस्मन क्षेत्रों से नुढ़े शोधकतांओं, पेशेवरों, नीति-निर्माताओं और उद्योग क्षेत्र के विशेषकों ने माग दिया और आपस में विकास के सात्रा किया। इस में विकास के सात्रा किया। इस मीक पर मुख्य सचिव डॉ सुखांतर सिंह संधू मुख्य अतिथि के तौर पर



मुख्य सचिव डॉ सुखबीर सिंह संघू को सम्मानित करते यूपीईएस के पदाधिकारी।

उपस्थित थे। सम्मेलन की शरुआत उपास्यत थे। सम्मलन का शुरुआत मैगा एल्युमनी कनेक्ट के साथ हुई कसमें यूपीईएस के पूर्व छात्रों ने हिस्सा लिया, जो कि 22 अलग-अलग उद्योग क्षेत्रों से जुड़े हैं। सस्टेनोबिलटी फेयर 2.0 में कई पैनल चर्चाओं का आयोजन किया पनल चर्चाओं को आयोजन किया गया था जिसमें विभिन्न उद्योग क्षेत्रों से जुड़े दिग्गजों ने उपस्थित लोगों के साथ अपने विचारों को साझा

किया। इस मौके पर, सेंटर फॉर इनोवेशन एंड ट्रांसलेशनल रिसर्च, सीएसआईआर-इंडियन इंस्टीट्यूट ऑफ टॉक्सीकोलॉजी रिसर्च, लखनक के जाने माने वैज्ञानिक अशोक पांडेय, प्रोफेसर एंड चेयर फॉर वॉटर साइंस एंड टैक्नोलॉजी, टैक्नोलॉजिको डी मोंटेरी, मेक्सिको प्रोफे. जुरगन माहलक्नेख्त भी उपस्थित थे। पैनल चर्चा में

कार्यस्थल पर स्वास्थ्य, सुरक्षा, आग और पर्यावरण के क्षेत्र से आग आर पयावरण क क्षेत्र स संबंधित प्रमुख मुद्दों पर परस्पर सहयोगात्मक सॉल्यूशंस के बारे में विचार-विमशं किया गया। इसमें सोमनाथ फुलारी, डायरेक्टर, मार्कीन एनजीं प्रा. लिमि.,देवेन्द्र गिल, एरजीक्युटिव डायरेक्टर सेफ्टी, दिल्ली मैट्रो, तथा एसपी गर्ग, पूर्व एरजीक्युटिव डायरेक्टर, गेल इंडिया प्रा. लिमि. भी शामिल थे। सम्मेलन में अन्य कई गतिविधियां जैसे इंडस्ट्री कॉन्क्लेव, ओरल एंड पोस्टर पेपर प्रस्तुतियां, प्रदर्शीनयां, मॉडल डिस्प्ले तथा प्रदश्तनवा, माइल ।इस्प्ल तथा पुरस्कार वितरण समारोह का भा आयोजन किया गया जिसमें स्वास्थ्य, सुरक्षा, आग और पर्यावरण से संबद्ध उद्योग, उद्योगपतियों, पूर्व छात्रों, और शिक्षक विरादरी के योगदान को भी

अडानी, टाटा स्टील समेत कई अन्य जानी-मानी कंपनियों के अन्य जाना-माना कंपानया क 1000 से अधिक प्रतिनिधियों ने हिस्सा लिया। सस्टेनेबिलिटी फेयर 2.0 स्वास्थ्य, सुरक्षा, आग और पर्यांवरण इस लिहान से काफी सफल आयोजन साबित हुआ कि इसमें भाग लेने वाले विशेषज्ञों और अन्य प्रतिभागियों ने ग्लोबल वैल-बींग के बारे में चर्चा की। यूपीईएस के छात्रों ने स्वास्थ्य एवं स्वच्छत को बढ़ावा देने के उद्देश्य से सामाजिक जागरूकता अभियानों का भी आयोजन किया। कॉन्फ्रेंस कमेटी ने आसपास के स्कूलों में 1500 से अधिक छात्रों के लिए कई छात्र गतिविधियों का आयोजन किया। इसके अलावा, यूपीईएस ने हाल में ऑटोमसफेयरः 2023 का भी सफलतापूर्वक आयोजन किया।

Rashtriya Sahara

यूपीईएस: सस्टेनेबिलिटी फेयर 2.0 में ग्लोबल वेलबीइंग पर जोर

विभिन्न उद्योग क्षेत्रों से जुड़े यूपीईएस के पूर्व छात्रों ने भाग लिया

देहरादून (एसएनबी)। यूपीईएस में स्कूल आफ एडवांस्ड इंजीनियरिंग द्वारा स्वास्थ्य, सुरक्षा, आग और पर्यावरण के क्षेत्र में प्रगति पर आधारित चौथी इंटरनेशनल सस्टेनेबिलिटी इटरनशनल सस्टनाबालटा कान्क्रेंस सम्पन्न हो गई। कान्क्रेंस में मुख्य रूप से ग्लोबल वेलबीइंग पर जोर दिया गया। इस मौके पर मुख्य प्रचिव डा. एसएस संधू बतौर मुख्य

सम्मेलन की शुरुआत मेगा सम्मलन का शुरुआत माग एल्युमनी कनेक्ट के साथ हुई। इसमें विभिन्न उद्योग क्षेत्रों से जुड़े यूपीइएस के पूर्व छात्रों ने भाग लिखा। यो दिवसीय सम्मेलन में विभिन्न क्षेत्रों से जुड़े शोषकर्ताओं, पेशेवरों, नीति-निर्माताओं व उद्योग क्षेत्र के विशेषां ने अपने अनुभवों व विवारों को साझा किया। इसमें सेंटर फार इनोवेशन एण्ड टांसलेशनल रिसर्च, सीएसआईआर-इंडियन इंस्टीट्यूट आफ टाक्सीकोलाजी रिसर्च (लखनऊ) के वैज्ञानिक अशोक पांडेय, प्रोफेसर एंड चेयर फार

वाटर साइंस एण्ड टेक्नोलॉजी डी मोंटेरी (मेक्सिको) प्रो. जुरगन नकेरन आदि शामिल थे। पैनल चर्चा में कार्यस्थल पर प्रमुख मुद्दों पर परस्पर सहयोगात्मक समाधान पर विचार-विमर्श किया गया। इसमें माकीन



एनर्जी के डायरेक्टर सोमनाथ फुलारी, एग्जीक्युटिव डायरेक्टर सेम्टी (दिल्ली मेट्रो) देवेद्र गिल, पूर्व एग्जीक्युटिव डायरेक्टर गेल एसरी गर्ग ने अनुभवों को साझा किया। इसके अलावा इंडस्ट्री कान्त्रलेव, औरल एंड पोस्टर पेम्प्रपुरित्या, प्रदाशिता, पाईल डिस्प्ले व पुरस्कार वितरण समारोह का भी आयोजन किया गया। इसमें रिलायंस अडानी टाटा स्टील समेत कई अन्य कंपनियों के 1000 से अधिक प्रतिनिधियों ने हिस्सा लिया। इससे पूर्व यूपीईएस के छात्रों ने स्वास्थ्य एवं स्वच्छता को बढ़ावा देने के लिए सामाजिक जागरूकता अभियान का आयोजन किया। कान्फ्रेंस कमेटी ने आसपास के स्कूलों में 1500 से अधिक छात्रों के लिए कई गतिविधियों का आयोजन किया।

Punjab Kesari

यूपीईएस के सस्टेनेबिलिटी फेयर 2.0 में ग्लोबल वेल बीइंग पर जोर दिया

देहरादन, २ नवम्बर (स.ह.) : युपीईएस स्कुल ऑफ एडवांस्ड इंजी-नियरिंग द्वारा स्वास्थ्य, सुरक्षा, आग और पर्यावरण के क्षेत्र में प्रगति पर आधारित चौथी इंटरनेशनल सस्टेने-बिलिटी कॉन्फ्रेंस संपन्न की गई है।

इस दौरान "ग्लोबल वैल-बींग" पर जोर दिया गया। इस दो दिवसीय सम्मेलन में विभिन्न क्षेत्रों से जुड़े शोधकर्ताओं, पेशेवरों, नीति-नि-र्माताओं और उद्योग क्षेत्र के विशेषज्ञों ने भाग लिया और आपस में विचारों को साझा किया। इस मौके पर, डॉ सुखबीर सिंह संधू, मुख्य सचिव, उत्तराखंड, मुख्य अतिथि के तौर पर उपस्थित थे। सम्मेलन की शुरुआत मैगा एल्यमनी कनेक्ट के साथ हुई जिसमें यूपीईएस के पूर्व छात्रों ने हिस्सा लिया, जो कि 22 अलग-अलग उद्योग क्षेत्रों से जुड़े हैं। सस्टेनेबिलिटी फेयर 2.0 में कई पैनल चर्चाओं का



आयोजन किया गया था जिसमें विभिन्न उद्योग क्षेत्रों से जुड़े दिग्गजों ने उपस्थित लोगों के साथ अपने विचारों को माझा किया। इस मौके पर सेंटर फॉर इनोवेशन एंड ट्रांसलेशनल रिसर्च सीएसआईआर-इंडियन इंस्टीट्यूट ऑफ टॉक्सीकोलॉजी रिसर्च लखनक के जाने माने वैज्ञानिक अशोक पांडेय, प्रोफेसर एंड चेयर फॉर वॉटर साइंस एंड टैक्नोलॉजी, टैक्नोलॉजिको डी मोंटेरी, मेक्सिको प्रोफे. जुरगन माहलक्नेख़्त भी उपस्थित थे। पैनल चर्चा में

कार्यस्थल पर के क्षेत्र से संबंधित प्रमख महों पर परस्पर सहयोगात्मक सॉल्युशंस के बारे में विचार-विमर्श किया गया। इसमें सोमनाथ फलारी डायरेक्टर, माकीन एनर्जी प्रा. लिमि. देवेन्द्र गिल, एग्जीक्युटिव डायरेक्टर सेफ्टी, दिल्ली मैट्रो, तथा एस.पी. गर्ग, पूर्व एग्जीक्युटिव डायरेक्टर, गेल डॅडिया प्रा. लिमि. भी शामिल थे।

सम्मेलन में अन्य कई गतिविधियां जैसे इंडस्टी कॉन्क्लेव, ओरल एंड पोस्टर पेपर प्रस्तुतियां, प्रदर्शनियां, मॉडल डिस्प्ले तथा परस्कार वितरण समारोह का भी आयोजन किया गया जिसमें एचएमएफ इईए संबद्ध उद्योग, उद्योगपतियों, पूर्व छात्रों, और शिक्षक बिरादरी के योगदान को भी सराहा गया। इसमें रिलायंस, अडानी, टाटा स्टील समेत कई अन्य जानी-मानी कंपनियों के 1000 से अधिक प्रतिनिधियों ने हिस्सा लिया। सस्टेनेबिलिटी फेयर 2.0 इस लिहाज से काफी सफल आयोजन साबित हुआ कि इसमें भाग लेने वाले विशेषजों और अन्य प्रतिभागियों ने ग्लोबल वैल-बींग के बारे में चर्चा की। सम्मेलन से पहले, यूपीईएस के छात्रों ने स्वास्थ्य एवं स्वच्छता को बढावा देने के उद्देश्य से सामाजिक जागरूकता अभियानों का भी आयोजन किया। कॉन्फ्रेंस कमेटी ने आसपास के स्कूलों में 1500 से अधिक छात्रों के लिए कई छात्र गतिविधियों का आयोजन किया। इसके अलावा, युपीईएस ने हाल में का भी सफलतापर्वक आयोजन किया जिसमें पर्यावरण संबंधी जागरूकता तथा सम्टेनेबिलिटी को बढावा दिया गया।