

All India Seminar on Sources of Planet Energy, Environmental & Disaster Science : Climate Justice and Equity

SPEEDS-2024

29-30 June, 2024

Organized by



The Institution of Engineers (India)

U.P. State Centre, Lucknow-226018

Under the Aegis of ENDB

in association with



**School of Management Sciences
Lucknow**



and



**Dr. A.P.J. Abdul Kalam
Technical University
Uttar Pradesh,
Lucknow**



**Council of Science &
Technology, U.P
Department of Sciences and
Technology, Govt. of U.P.**

Venue:

School of Management Sciences

Sultanpur Road, Lucknow-226501 (U.P.) INDIA

www.smslucknow.ac.in



U.P. State Centre, Lucknow

Engineers Bhavan River Bank Colony, Lucknow-226018

Mob : 7839572369; Website : ieiup.org.in

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U.P. State Centre, Lucknow



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School of Management Sciences,
Lucknow



Dr. A.P.J. Abdul Kalam Technical University
Uttar Pradesh, Lucknow



Council of Science & Technology, U.P.
Department of Science and Technology, Govt. of U.P.

*All India Seminar
on*

**Sources of Planet Energy, Environmental & Disaster Science :
Climate Justice and Equity
(SPEEDS-2024)
29th & 30th June, 2024**

Souvenir

Organized by
The Institution of Engineers (India) U.P. State Centre, Lucknow
in
association with
School of Management Sciences, Lucknow
and

**Dr. A.P.J. Abdul Kalam Technical University Uttar Pradesh, Lucknow
&
Council of Science & Technology, U.P
Department of Science and Technology, Govt. of U.P.**

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डॉ० ए०पी०जे० अब्दुल कलाम प्राविधिक विश्वविद्यालय, उत्तर प्रदेश, लखनऊ

Dr. A.P.J. Abdul Kalam Technical University, Uttar Pradesh, Lucknow (Formerly Uttar Pradesh Technical University)

Dr. A.P.J. Abdul Kalam Technical University (AKTU) (formerly UPTU) was established by the Government of Uttar Pradesh, vide Act Amendment No. 1156(2) LXXIX-V-1-15-1(Ka), 24-2015 dated Sept 9, 2015 Uttar Pradesh Adhiniyam Sankhya 23 of 2000. Under the University Act, 'Technical Education' includes programmes of education, research and training in Engineering, Technology, Architecture, Town Planning, Pharmacy, Applied Arts & Crafts and such other programmes and areas that the central Government may in consultation with All India Council for Technical Education (AICTE) by notification in Gazette declare. The University is affiliating in nature and its jurisdiction spans the entire state of U.P. in affiliating B.Tech., M.B.A., M.C.A., B.Arch., B. Pharma., B.H.M.C.T., M.Tech. and Ph.D. programmes in 764 colleges/institutions imparting graduate, postgraduate and doctoral level training in all government and private institutions located all over U.P. in engineering, technology, architecture, pharmacy, hotel management and catering technology as well as M.B.A. and M.C.A. programmes. AKTU envisions facilitating and nurturing the quality of technical education and research in its own premises as well as all affiliating institutions. The total number of affiliated colleges was 49 in the year 2000 which has now gone up to 756 and the University is still growing. AKTU was reconstituted as "Gautam Buddha Technical University, Lucknow" and "Mahamaya Technical University, Noida" on 1st May 2010 through amendment of U.P. Govt. vide act no. 05 of 2010, Subsequently U.P. Government again combined the Gautam Buddha Technical University and Mahamaya Technical University with effect from 1st Nov. 2013 vide amendment act 21st of 2013 and reconstituted A.K.T.U. Lucknow.



Dr. A.P.J. Abdul Kalam Technical University, Sec-11, Jankipuram Vistar, Lucknow, Uttar Pradesh India-226031,
Ph No.: 0522-2336805, web site: www.aktu.ac.in



Council of Science and Technology, U. P.

Department of Science and Technology, Govt. of U. P.

Following the recommendation of the Working Group provided the case for establishing the "Council of Science and Technology, U. P." and it was established on 1st May 1975 by the Government of Uttar Pradesh with the Department of Science and Environment for administrative support. The Council of Science and Technology, U. P. (CST, U. P.) was given an autonomous status as a registered body under Societies Registration Act, 1860. The Government of Uttar Pradesh in October, 1972 constituted a Working group on the Role and Development of Science and Technology in relation to the Fifth Five Year Plan of the State. This Working Group was charged with the task of examining inputs and infrastructure available and required for growth of Science and Technology and its application to the process of development for identifying problems and programs for research and development, and for preparing an integrated plan for action for development and application of Science and Technology in the State during the Fifth Plan period. The Concept of Research and Development as projected in the "Approach to the Science and Technology Plan" prepared by the National Committee on Science and Technology was found to be very wide ranging. To cover it, one of the main recommendation of the Working group was the need for establishing a State Council of Science and Technology with a Department of Science and Technology for Administrative support, which was bound to take up the recommendations of this Working Group to push forward all the schemes and activities which were included in the Fifth Plan.



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Anandiben Patel
Governor, Uttar Pradesh



Raj Bhavan
Lucknow - 226 027

19 June, 2024

Message

I am indeed happy to learn that the School of Management Sciences (SMS), Lucknow is organizing an All India Seminar on '**Sources of Planet Energy, Environmental & Disaster Science (SPEEDS-2024): Climate Justice and Equity**' on 29th and 30th June, 2024 in association with Dr. A.P.J. Abdul Kalam Technical University, Lucknow, The Institution of Engineers (I), UP State Centre, Lucknow and the Council of Science and Technology, Lucknow.

The focus on climate justice and equity is particularly timely and essential, as it will highlight the need for fair and sustainable solutions to global environmental challenges. I am confident that, SPEEDS-2024 will foster meaningful discussions, innovative ideas and actionable strategies that contribute to a more equitable and sustainable future.

I extend my best wishes to the organizers and participants for a successful seminar.

Anandiben Patel
(**Anandiben Patel**)

Yogi Adityanath



**CHIEF MINISTER
UTTAR PRADESH**

**Lok Bhawan,
Lucknow - 226001**

Date : 27 JUN 2024

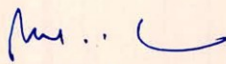
Message

I am happy to know that School of Management Sciences, Lucknow, in association with Dr. A.P.J. Abdul Kalam Technical University, Uttar Pradesh, Lucknow, The Institution of Engineers(I), U.P. State Centre, Lucknow and Council of Science & Technology, U.P., Lucknow, is organising an 'All India Seminar on Sources of Planet Energy, Environmental & Disaster Science (SPEEDS-2024): Climate Justice and Equity' on 29th & 30th June, 2024. A souvenir is also being published to mark the occasion.

Environment is the gift of nature. Any disorder and chaos in the environment has far reaching effects. Climate change has become a global environmental issue. In this scenario development of non-conventional energy resources is extremely important. Our country is rapidly adopting the latest technologies in renewable energy, to meet its energy demands. A low-emission, resource-efficient and environment friendly approach is essential for accomplishing the objectives of Climate Justice and Equity. In this perspective the Seminar assumes much significance.

I hope that the deliberations during the Seminar would be fruitful and the event would successfully achieve its objectives.

My best wishes for the entire endeavour.


(Yogi Adityanath)

प्रो० जय प्रकाश पाण्डेय
कुलपति
Prof. Jai Prakash Pandey
Vice Chancellor



डॉ० ए०पी०जे० अब्दुल कलाम प्राविधिक विश्वविद्यालय
उत्तर प्रदेश, लखनऊ
Dr. A.P.J. ABDUL KALAM TECHNICAL UNIVERSITY
Uttar Pradesh, Lucknow



Dated : 15.06.2024

MESSAGE

It is a matter of great honour and pleasure for me to write this message to be included in the souvenir being published on the occasion of all India Seminar on **"Sources of Planet Energy, Environmental & Disaster Science (SPEEDS-2024): Climate Justice and Equity"** on 29th and 30th June 2024 organized by School of Management Sciences, Lucknow

The theme of the seminar is quite appropriate to the present day situation where sustainability of life on earth has become the main agenda item for all researchers, policy makers, regulators, industries and of course the society all over the world. Unless the environment and ecology are protected and preserved, the catastrophes and natural disasters will be unavoidable. Alternative resources of energy, preferably, the renewable resources would have to be searched and technologies will have to be developed to exploit them for ensuring sustainable development.

The faculty and the students will certainly benefit from this seminar. The outcome of this seminar will hopefully, be setting the path forward for SMS School of Management Sciences to reinforce their efforts of building capability of research and innovation.

My best wishes for the Seminar.

(Prof. Jai Prakash Pandey)
Vice Chancellor



मदन मोहन मालवीय प्रौद्योगिकी विश्वविद्यालय
गोरखपुर-273010 (उ०प्र०), भारत



Madan Mohan Malaviya University of Technology

Gorakhpur-273010 (U.P.), India

(Formerly : Madan Mohan Malaviya Engineering College, Gorakhpur)
(Estd. 1962)

प्रो० जय प्रकाश सैनी
कुलपति
Prof. Jai Prakash Saini
Vice Chancellor

Message



I am delighted to know that the School of Management Sciences, Lucknow is organising an all-India seminar on "Sources of Planet Energy, Environmental and Disaster Science (SPEED-2024) in collaboration with its esteemed partners during 29-30th June, 2024 and is publishing the souvenir of the same.

I sincerely believe that the conference will help the society to overcome various environmental challenges and will ensure access to affordable, reliable, sustainable energy for everyone. It will also help us to find out urgent solutions for combatting climate change and preserving ecosystem to secure sustainable future for generation to come. The use of renewable source of energy present on planet earth will help us to control climate challenges and save the planet earth from various disasters.

I extend my best wishes for the success of the conference.

(Prof. Jai Prakash Saini)

Vice Chancellor

कुलपति सचिवालय/Vice Chancellor's Secretariat – दूरभाष/Telephone : 8765783658, ई-मेल /E-mail : patovc@mmmut.ac.in



प्रो. आलोक कुमार राय
कुलपति
Prof. Alok Kumar Rai
Vice-Chancellor

लखनऊ विश्वविद्यालय
लखनऊ-226007 (उ.प्र.) भारत
University of Lucknow
Lucknow-226007 (U.P.) India



MESSAGE

I am indeed happy to learn that the School of Management Sciences (SMS), Lucknow is organizing the All India Seminar on Sources of Planet Energy, Environmental & Disaster Science (SPEEDS-2024): Climate Justice and Equity, on 29th and 30th June." 2024 in association with Dr. A.P.J. Abdul Kalam Technical University, Uttar Pradesh, Lucknow, The Institution of Engineers (I), UP State Centre, Lucknow, India & Council of Science and Technology, U.P., Lucknow.

We are aware the preservation of earth and environment is highly essential for life. The development of Non-Conventional Energy Resources is extremely important in the current situation especially in India which is a developing country. Now at this time we need to create an awareness among the masses on how to overcome the fast depleting resources by utilizing other sources of Energy, in order to deal with Climate Justice and Equity towards deforestation, increasing temperature, rising sea levels and sinking ground water levels besides other natural calamities which may bring troubles in due courses of time. It is need of hour to give a deep thought on development at the cost of nature.

I extend my best wishes on the occasion.

Dated : 18.06.2024

(Prof. Alok Kumar Rai)



ख्वाजा मुईनुद्दीन चिश्ती भाषा विश्वविद्यालय, लखनऊ

Khwaja Moinuddin Chishti Language University, Lucknow

(Uttar Pradesh State Government University)

Prof. N.B. Singh
Vice Chancellor



MESSAGE

It gives me immense pleasure to note that the School of Management Sciences (SMS), Lucknow is organizing the “**All India Seminar on Sources of Planet Energy, Environmental & Disaster Science (SPEEDS-2024): Climate Justice and Equity**” on 29th and 30th June, 2024 in collaboration with Dr. A.P.J. Abdul Kalam Technical University, Uttar Pradesh, Lucknow, The Institution of Engineers (I), UP State Centre, Lucknow, India & Council of Science and Technology, U.P., Lucknow.

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Dr. D.K. Srivastava
Director



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cstup@nic.in



D. O. No. 320

Date 19-6-24

MESSAGE

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I extend my best wishes on the occasion.


(Dr. D.K. Srivastava)



डॉ० मनोरमा सिंह
वरिष्ठ क्षेत्रीय निदेशक
Dr. Manorama Singh
Senior Regional Director




MESSAGE

I am indeed happy to learn that the School of Management Sciences (SMS), Lucknow is organizing the All-India Seminar on Sources of Planet Energy, Environmental & Disaster Science (SPEEDS-2024): Climate Justice and Equity, on **29th and 30th June, 2024** in association with Dr. A.P.J. Abdul Kalam Technical University, Uttar Pradesh, Lucknow, The Institution of Engineers(I), UP State Centre, Lucknow, India & Council of Science and Technology, U.P., Lucknow.

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I extend my best wishes on the occasion.


(Manorama Singh)

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इन्दिरा गाँधी राष्ट्रीय मुक्त विश्वविद्यालय
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The Institution of Engineers (India)

AN ISO 9001:2015 CERTIFIED ORGANISATION
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8 GOKHALE ROAD, KOLKATA 700 020

A Century of Service to the Nation

Er. V.B. SINGH, FIE
Council Member &
Past National VICE PRESIDENT

Email: vbsingh51@gmail.com

MESSAGE



I am happy to learn that the Institution of Engineers (India), UP State Centre & School of Management Sciences, Lucknow are jointly organizing the All India Seminar on “Sources of Planet Energy, Environmental & Disaster Science (SPEEDS-2024): Climate Justice and Equity” on June 29-30, 2024 at School of Management Sciences, Lucknow.

It is notable that this is the 8th Seminar in the series and this time the Seminar will mainly focus on ‘Climate Justice and Equity’. The Climate Justice and Equity is very important topic to ponder over.

Hope the Seminar will provide a platform for all stake holders to exchange their views & experiences and deliberate in detail on a very relevant & important topic and come out with definitive recommendations to limit the damage to environment and save our mother earth.

I compliment Prof. (Dr.) Bharat Raj Singh for his untiring efforts to make this Seminar successful. I also thank Mr. Sharad Singh, CEO & Secretary, SMS for his whole hearted support for technical activities.

I extend my best wishes for the success of the Seminar.

(V. B. Singh) FIE

The Institution of Engineers (India)

UTTAR PRADESH STATE CENTRE, ENGINEERS BHAWAN, RIVER BANK COLONY, LUCKNOW-226018

दि इन्स्टीट्यूशन ऑफ इंजीनियर्स (इण्डिया)

उत्तर प्रदेश स्टेट सेन्टर, इंजीनियर्स भवन, रिवर बैंक कालोनी, लखनऊ-226018

ER. SATYA PRAKASH, FIE
CHAIRMAN



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: singhalsp21@gmail.com

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(Established 1920, Incorporated by Royal Charter 1935)

"A Century of Service to the Nation"



MESSAGE

I am extremely happy that The Institution of Engineers (India), UP State Centre, Lucknow in association with School of Management Science, Lucknow is organizing the **All India Seminar on "Sources of Planet Energy, Environmental & Disaster Science(SPEEDS-2024): Climate Justice and Equity" on June 29-30, 2024 at School of Management Sciences, 19th Km. Stone Kashimpur Biruha, Near Gosaiganj, Lucknow.**

We are aware the preservation of earth and environment is highly essential for life. The development of Non-Conventional Energy Resources is extremely important in the current situation especially in India which is a developing country. Now at this time we need to create an awareness among the masses on how to overcome the fast depleting resources by utilizing other sources of Energy, in order to deal with Climate Justice and Equity towards deforestation, increasing temperature, rising sea levels and sinking ground water levels besides other natural calamities which may bring troubles in due courses of time. It is need of hour to give a deep thought on development at the cost of nature.

I am confident that this seminar will benefit the society and will provide an excellent platform for young engineers.

I extend my best wishes to the participants and organizers for the success of the All India Seminar.

(Satya Prakash, FIE)
Chairman

The Institution of Engineers (India)

UTTAR PRADESH STATE CENTRE, ENGINEERS BHAWAN, RIVER BANK COLONY, LUCKNOW-226018

दि इन्स्टीट्यूशन ऑफ इंजीनियर्स (इण्डिया)

उत्तर प्रदेश स्टेट सेन्टर, इंजीनियर्स भवन, रिवर बैंक कालोनी, लखनऊ-226018

Er. VIJAYA PRATAP SINGH, FIE
Honorary Secretary



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Website : www.ieiup.org.in

(Established 1920, Incorporated by Royal Charter 1935)

"A Century of Service to the Nation"



MESSAGE

It is heartening to note that the Institution of Engineers (India), UP State Centre in association with School of Management Science, Lucknow is organizing the **All India Seminar on "Sources of Planet Energy, Environmental & Disaster Science(SPEEDS-2024): Climate Justice and Equity"** on **June 29-30, 2024 at School of Management Sciences, 19th Km. Stone Kashimpur Biruha, Near Gosaiganj, Lucknow.**

The theme and sub themes of the Seminar cover all the important issues, which would create awareness among the students, faculty members and all other stake holders after effective deliberations during different technical sessions. Hope the valuable recommendations of the Seminar would also be useful for the planners & the society for protecting the environment making the planet earth better place to live at.

I congratulate the organizers led by Dr B R Singh for their untiring efforts to make the Seminar successful.

I wish the Seminar a grand success.

(V P Singh, FIE)
Honorary Secretary

Dr. M.P. Singh
Executive Secretary
SMS Group of Institutions



Accredited 'A' Grade by NAAC
**SMS SCHOOL OF
MANAGEMENT
VARANASI SCIENCES**
An Autonomous College

Dated: 15th June, 2024

Message

I am extremely delighted to learn that School of Management Sciences Lucknow is organizing All India Seminar (9th in the series) on Sources of Planet Energy and Disaster Science: Climate Justice and Equity on 29th & 30th June, 2024. Since *Climate change* is a burning issue posing one of the most critical challenges to the future of man-kind, organizing SPEEDS has been a persistent endeavor of School of Management Sciences, Lucknow to address one of the challenging concerns of man today pertaining to the Climate Justice. Man's relationship with nature is a determining factor for prosperity and continuation of future generations. Unfortunately, man's greed and rampant misuse of natural resources is precipitating large scale destruction of natural resources which in turn dissipates our life support system on Earth.

SMS Lucknow has been instrumental, through this platform in igniting the minds of academia, corporate, intelligentsia and the student body, who will inherit the earth, to various challenges of environmental issues. The Seminar also attempts to dwell on the possible solutions which may help in alleviating the various ecological and environmental concerns.

I am sure that the two day's discourse on main theme and sub-themes of SPEEDS-2024 will be fruitful in responding to the objectives of All India Seminar on SPEEDS-2024 at SMS Lucknow.

I compliment the organizing team of SPEEDS 2024 for their cohesive endeavor and wish them a great success for the Seminar.

With best wishes.

Dr. M.P. Singh
Executive Secretary

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Sharad Singh
Secretary & CEO



SMS SCHOOL OF
LUCKNOW MANAGEMENT
SCIENCES

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Approved by : AICTE, Ministry of HRD, Govt. of India &
Affiliated to Dr. A.P.J.A.K. Technical University, U.P., Lucknow

Dated: 15th June, 2024

Message

It gives me great a pleasure to state that School of Management Sciences Lucknow is organizing an All India Seminar on Sources of Planet Energy, Environmental & Disaster Science: Climate Justice and Equity, (SPEEDS -2024) on 29th & 30th June, 2024. Historically and even currently it is the marginalized people of the world who face the wrath of nature most, being de-rooted from the bare essentials of the human existence, there is an urgent need to arrive at procedure for climate justice which will in turn lead to creation of social justice.

With such high soaring temperatures and grave outcomes of climate change looming large, it is indeed very apt at this stage that we at School of Management Sciences Lucknow are organizing this All India Seminar SPEEDS 2024 (9th in the series) on this topic.

Seminars are a platform for generation of new ideas through debate, dialogue and discussions. SMS Lucknow has used this platform of Seminar SPEEDS to create an awareness and community dialogue on environmental challenges. I am quite sure that this year also we will have some very interesting and innovative ideas being shared in SPEEDS 2024.

I wish the very best to the organizing team of SPEEDS 2024 for their successful conduction of the Seminar.

Sharad Singh
Secretary & CEO
SMS, Lucknow

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Prof. (Dr.) Ashish Bhatnagar
Director



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Message

It gives me immense pleasure to share my thoughts for this Souvenir, on the occasion of a seminar on Climate Justice and Equity. In an era where climate change poses unprecedented challenges, the theme of this seminar is both timely and crucial.

Climate change is not merely an environmental issue but a multifaceted crisis that encompasses economic, social, and ethical dimensions. It poses a threat to humanity, adversely affecting the world's most vulnerable populations. The concept of climate justice underscores the need for equitable solutions that consider the diverse impacts of climate change across different communities and nations. It calls for a fair distribution of the burdens and benefits of climate actions, ensuring that no group bears an undue share of the adverse effects.

Equity, in this context, means recognizing and rectifying the historical and ongoing injustices that have led to the current climate crisis. It requires a concerted effort from all sectors of society, including government, businesses, and civil society, to implement policies and practices that are inclusive and just. Education and awareness are crucial in this endeavor, as they empower individuals and communities to engage in meaningful action.

I extend my heartfelt gratitude to the organizing committee, distinguished speakers, and participants for their dedication to this cause. Your collective efforts are instrumental in advancing the discourse on climate justice and shaping a more equitable and sustainable future.

Let this seminar be a catalyst for change, driving us towards a world where justice and equity are at the core of our responses to climate change. Together, we can create a resilient and inclusive future for all.

With warm regards,

Dr. Ashish Bhatnagar
Director

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