



Koneru Lakshmaiah Education Foundation

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Department of PHYSICS

DATE: 27/03/2024

Report on the one-day International (online) Guest Lecture organised by the Dept. of Physics, KLEF in association with the Indian Aerosol Science and Technology Association (IASTA), Mumbai on 27.03.2024 (2:00 – 4:00 pm IST)

Information communicated on 22/03/2024 to get registrations from the participants and the same was shared over different countries.

The Department of Physics (DST-FIST sponsored) is planned to conduct an International (Virtual) Guest Lecture in association with the Indian Aerosol Science & Technology Association (IASTA), Mumbai on 27 March 2024. The resource persons from internationally renowned universities have shown interest and given consent to join and deliver the lectures.

Title: Exploring Atmospheric Science: Understanding Earth's Air and Climate

Date & Time: 27 March 2024, 2:00 – 4:00 pm IST

Resource persons:

1. **Prof Kasturi Devi Kanniah**, with title : Estimating atmospheric particles using remote sensing data and machine learning algorithms.
2. **Dr Dimitris Kaskaoutis** with title: Light absorption and radiative effects of carbonaceous aerosols under different atmospheric conditions and dominant sources.

Meeting Link: <https://kluniversity.webex.com/kluniversity/j.php?MTID=m6666d5a222f721b92d11ff5d32624695>

Wednesday, March 27, 2024 2:00 PM | 5 hours | (UTC+05:30) Chennai, Kolkata, Mumbai, New Delhi

Registration Link: <https://forms.gle/fCEpTLhyZXLfFqKQ6>

No Registration fee to participate in the event and e-certificates will be provided to all the registered participants.

Convenor: Dr. K. Raghavendra Kumar, Associate Professor, Department of Physics, KLEF.
Email: rkanike@kluniversity.in

Co-Convenor: Dr. N.S.M.P. Latha Devi, Associate Professor, Department of Physics, KLEF.
Email: lathadevi@kluniversity.in

Chair: Dr. K. Swapna, Associate Professor & Head, Department of Physics, KLEF. Email: swapnakon@kluniversity.in

Poster designed for communication with international guest lecture details and circular released from the Registrar's Office



INTERNATIONAL GUEST LECTURE

Department of Physics, KLEF in collaboration with Indian Aerosol Science & Technology Association (IASTA), Mumbai organizes an insightful event on

Exploring Atmospheric Science: Understanding Earth's Air and Climate

Resource Persons

Dr. Dimitris Kaskaoutis, University of Western Macedonia, Greece, Athens

Prof. Kasturi Devi Kanniah, University of Technology Malaysia, Johor Bahru, Malaysia

Date: 27th March 2024

Time: 2:00 – 4:00 PM IST

Platform: Cisco WebEx

Convener: Dr. K. Raghavendra Kumar, Associate Professor, Department of Physics, KLEF

Co-Convenor: Dr. N.S.M.P. Latha Devi, Associate Professor, Department of Physics, KLEF

Chairperson: Dr. K. Swapna, Associate Professor & Head, Department of Physics, KLEF

Registration Link: <https://forms.gle/fCEpTLhyZXLfFqKQ6>

***Free Registration & E-certificates will be provided to all the registered participants.

Ref: KLEF/RO/Physics/Intl.Guest Lecture/2023-24

Date: 22-03-2024

Orders of the Hon'ble Vice-Chancellor dt. 22-03-2024

CIRCULAR

Sub: Conduction of an Online International Guest Lecture-Dept of Physics, KLEF – Communication - Reg.

Ref: Letter received from HoD-Physics

This is to inform you that the Department of Physics will be conducting an International Guest Lecture (Virtual mode), in association with the Indian Aerosol Science & Technology Association (IASTA), Mumbai on 27 March 2024.

The Resource Persons are from Internationally renowned Universities and have given consent to join and deliver the lectures.

Title: Exploring Atmospheric Science: Understanding Earth's Air and Climate

Date & Time: 27 March 2024, 2:00 – 4:00 pm

Resource persons:

1. Dr. Dimitris Kaskaoutis, University of Western Macedonia, Greece, Athens
2. Prof. Kasturi Devi Kanniah, University of Technology Malaysia, Johor Bahru, Malaysia

Registration Link: <https://forms.gle/fCEpTLhyZXLfFqKQ6>

Key Highlights of lecture

The international guest lecture on the title “Exploring Atmospheric Science: Understanding Earth’s Air and climate” was held on 27/03/2024 from 2:00 to 4:00 pm IST in the virtual mode (WebEx). The lecture aimed to provide insights into advanced learning in Atmospheric Science through remote sensing techniques and Machine Learning methods and its understanding towards the climate change. The event was attended by participants from various institutions and countries (more than 110 participants), making it a truly international gathering.

The guest speaker, Prof Kasturi Devi Kanniah, University of Technology Malaysia (UTM), Malaysia, delivered an engaging presentation on Remote Sensing estimation of particulate matter from Machine Learning models over Malaysia. This is an insightful and excellent presentation where the presenter showcased spatiotemporal heterogeneity in aerosols over Malaysia and comparison of aerosol loading concentrations from three models ML models.

Another resource person Dr Dimitris Kaskaoutis, University of Macedonia, Greece, Athens covered the significance of carbonaceous aerosols and their radiative impacts, providing a comprehensive understanding of the subject and clear distinction of black and brown carbon and other several aerosol species impact on radiation budget.

The lecture provided valuable knowledge and perspectives that will benefit participants in their academic and professional pursuits. The event facilitated networking and collaboration opportunities among participants and the speaker. Participants had the opportunity to interact with the speaker during the Q&A session, gaining further insights and clarifications.

The international guest lecture was a resounding success, thanks to the expertise and insights shared by the guest speaker. It served as a platform for knowledge exchange and collaboration, further enriching the academic community.

The one-day international (online) guest lecture was organised and completed successfully on 27/03/2024 between 3:00 and 5:00 pm (IST).

Special thanks to the Management and all functionaries of KLEF. Thanks to Director-FED, Principal-College of Sciences, Coordinator of FED, HoD (Dept of Physics), and Physics faculty on successful completion of international guest lecture.

Conveners

Dr. K. Raghavendra Kumar (Emp ID: 6127), 9391392189, rkanike@kluniversity.in

Dr. NSMP Lathadevi (Emp ID: 2016), 9491052121, lathadevi@kluniversity.in

Chair Person

Dr. K. Swapna, Assoc Prof & HoD, (Emp ID: 1919), swapnakon@kluniversity.in

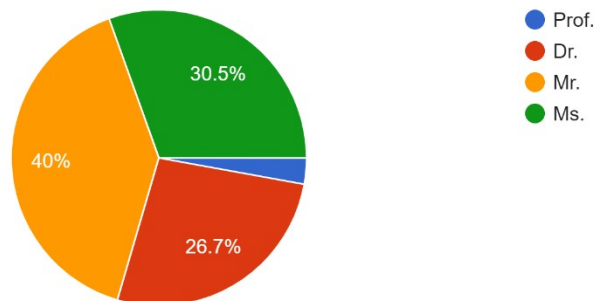
E-Certificates were issued to participants who registered through the above link and attended the workshop. A Sample certificate is attached here.



Registration and feedback forms and responses from the participants with statistics

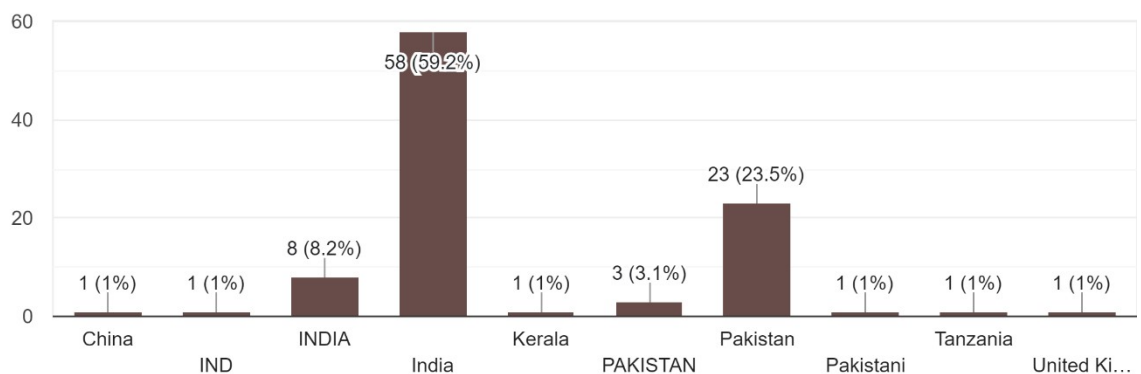
Salutation

105 responses



Country

98 responses



Snapshots taken during the workshop are attached below.

01:26:36 Meeting Info

Participants (47)

Viewing Dimitris Kaskaoutis's applications

100%

LIGHT ABSORPTION AND RADIATIVE EFFECTS OF CARBONACEOUS AEROSOLS UNDER DIFFERENT ATMOSPHERIC CONDITIONS AND DOMINANT SOURCES

D.G. KASKAOUTIS
 Assistant Professor
 Department of Chemical Engineering,
 University of Western Macedonia,
 Kozani 50100, Greece
<https://www.molab.eng.uwm.gr/>

Participants (47): KANIKE RAGHAVENDRA KUMAR Me, PELATI ALTHAF Host • kluniversity.in, Dimitris Kaskaoutis Presenter • Unverified, Department of physics Cohost, 1919 Dr. K.Swapna, 3435 Dr.A.Venkateswara Rao, 5715 Dr.S.Shanmugan, Annareddy Ramanujula Reddy Unverified, ARIGELA NAGENDRABABU gmail.com

Unmute Stop video Share

Type here to search 36°C 15:05 27-Mar-24

01:44:04 Meeting Info

Participants (43)

Viewing Dimitris Kaskaoutis's applications

100%

BC CONCENTRATION AND SOURCES IN IOANNINA

Hourly variation and diurnal cycles of $BC_{PM_{10}}$ and $BC_{PM_{2.5}}$ in Ioannina during the winter and summer campaigns. High-resolution (1-min) AQS measurements.

- Clear dominance of $BC_{PM_{10}}$ throughout the day in winter, (BB% above 90% during nighttime). Traffic effect is limited during morning, with a secondary small increase during early evening.
- Predominance of $BC_{PM_{2.5}}$ in summer throughout the day. Nearly constant contribution of non- $BC_{PM_{2.5}}$ (15-18%). Increase of $BC_{PM_{2.5}}$ during morning rush hour and late evening/night due to traffic in summer.

Participants (43): KANIKE RAGHAVENDRA KUMAR Me, PELATI ALTHAF Host • kluniversity.in, Dimitris Kaskaoutis Presenter • Unverified, Department of physics Cohost, 1919 Dr. K.Swapna, 3435 Dr.A.Venkateswara Rao, 5715 Dr.S.Shanmugan, Annareddy Ramanujula Reddy Unverified, ARIGELA NAGENDRABABU gmail.com

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02:08:10 Meeting Info

Participants (40)

Viewing Dimitris Kaskaoutis's applications

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RADIATIVE FORCING OF WATER- AND METHANOL-SOLUBLE BRC

- The solar radiation absorbed by EC, WS, BIC and MeS, BIC shows a large increase in $BRF_{UV,BIC}$ and $BRF_{UV,EC}$ at UV and near-visible wavelengths.
- At 365 nm, $BRF_{UV,BIC}$ was estimated 39.2% and 24.6% for $BRF_{MeS,BIC}$.
- The mean winter $BRF_{UV,BIC}$ of short wavelengths (300-400 nm) was 48.5%, rising to 60.2% for $BRF_{MeS,BIC}$.
- In summer, mean $BRF_{UV,BIC}$ (4.1%) and $BRF_{MeS,BIC}$ (1.6%) in 300-400 nm.

The large BIC contributions in the UV, apart from the RF effect, may even modulate photochemistry.

Participants (40): KANIKE RAGHAVENDRA KUMAR Me, PELATI ALTHAF Host • kluniversity.in, Dimitris Kaskaoutis Presenter • Unverified, Department of physics Cohost, 3435 Dr.A.Venkateswara Rao, 5715 Dr.S.Shanmugan, Annareddy Ramanujula Reddy Unverified, ARIGELA NAGENDRABABU gmail.com, Ayesha Unverified

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