

Bharati Vidyapeeth's
Dr. Patangrao Kadam Mahavidyalaya, Sangli
Department of Physics
A Summary Report of the Activity

1) Title of Programme:		One-Day workshop on "Role of Lightning in Formation of ground level ozone"		
2) Name of Organizing Department/Unit:		Physics		
3) Name of the Coordinator(s)/ Convener(s)/ Organizer(s) of the Programme:		Dr. Dada P. Nade (Convener) Mr. N. N. Natke (Coordinator)		
4) Date(s) of the Programme:		6 th February 2022		
5) Venue/Mode:		Online		
6) Target Group:		B.Sc. III students, Research Students		
7) Number of Participants:		Male	Female	Total
A separate list with signatures be maintained in the department/Unit)	Teaching	03	00	03
	Non-Teaching	--	--	--
	Students	15	21	36
8) Name(s) and details of Resource Person(s), if any:		Dr. S. D. Pawar Scientist F, IITM, Pune		


HEAD,
Department of Physics
Dr. Patangrao Kadam Mahavidyalaya
SANGLI 416 416




(Dr. D. G. Kanase)
PRINCIPAL,
Dr. Patangrao Kadam Mahavidyalaya,
Sangli - 416416 (Sangliwadi)

A report on One-Day workshop on “Role of Lightning in Formation of ground level ozone”

A One-Day workshop on “Role of Lightning in Formation of ground level ozone” that took place on 6th February 2022 in the Department of Physics. The lecture was presented by Dr. S. D. Pawar, Scientist F, IITM, Pune.

Objective of the workshop:

The primary objective of this workshop was to discuss each and every aspect of role of lightning in formation of ground level ozone.

Key Points and Topics Covered in the workshop:

- Nitrogen Oxide Emission:
- Ozone Accumulation:
- Ground-Level Ozone Formation:
- Nitrogen Oxide in Upper Troposphere:
- Sunlight and Photochemical Reaction:

Dr. Dada P. Nade introduced the resource person and theme of the guest lecture. Dr. S. D. Pawar, Scientist F, IITM, Pune was the resource person. He highlighted detailed knowledge on Role of Lightning in Formation of ground level ozone. Dr. D. G. Kanase, Principal, Bharati Vidyapeeth’s Dr. Patangrao Kadam Mahavidyalaya, Sangli was the chairman of the workshop. Mr. Y. C. Dhulgand was also present for the workshop. Mr. N. N. Natke gave vote of thanks of this workshop.

Date: 06/02/2022


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Photographs of the Event :

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Lightning and Ozone

Lightning is not involved directly in Ozone formation in troposphere.

Lightning is a key source of NO in the free troposphere and NO is the most important electric-discharge-produced molecule, primarily because it facilitates chemical reactions in the troposphere and stratosphere that determine the concentrations of ozone (O_3).

In the middle and upper troposphere NO_x has a longer lifetime and have a larger impact on tropospheric chemistry than emissions from the surface.

Prin. Dr. D. G. Kanase

Power

Dr. Dada P. Nade

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Educating people about of lighting

- Advise the people to restrict their movement outside during thunderstorm periods.
- Advise them to stay inside houses, huts as far as possible and keep the flooring and walls of the houses dry.
- People may be advised not to stand erect in open area during lightning period. They may be asked either to crouch or lay down on the ground.
- Install lightning arrestors in tall building and isolated houses.
- Not to stand below/near trees.

SUGGESTED POSTURE NEAR TREE IF SURPRISED BY LIGHTNING AROUND

Power

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