

Divecha Centre for Climate Change, IISc.
Dr. H Paramesh Education Trust
IAP Environmental Child Health Chapter

Thursday 30th October 2025 Time: 4.00 PM – 5.00 PM (IST)

Auditorium DCCC IISc. - 3.30 PM to 4.00 PM High Tea

Timings	Agenda	Faculty
4:00 PM– 4:05 PM	Welcome Speech	Prof. S.K Satheesh / Prof. J Srinivasan
4.05 PM – 4.10 PM	Introduction of the subject and the speaker	Prof. Dr. H Paramesh
4:10 PM– 4:50 PM	"Impact of Climate Change on Ocular Health"	Dr. Nagesha C.K Senior consultant Department of Vitreo- Retina Narayana Nethralaya-1, RajajiNagar, Bengaluru
4:50 PM –5:00 PM	Q & A / Remarks by Moderator Vote of thanks Group picture of participants	Prof. J Srinivasan

Prof. Dr. H Paramesh
Organiser
Visiting Physician Scientist DCCC IISc.
Founder Life Patron Allergy Immunology Chapter Karnataka



Divecha Centre for Climate Change
Indian Institute of Science
BANGALORE - 560012
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DCCC Seminar

Title: "Impact of Climate Change on Ocular Health"

Speaker: Dr. Nagesha C. K

Senior Consultant

Department of Vitreo-Retina

Narayana Nethralaya-1, Rajajinagar, Bengaluru

Date: 30th October 2025 (Thursday)

Time: 4:00 PM to 5:00 PM

Venue: DCCC Auditorium, 2nd Floor, D314.

Coffee/Tea: 3.30 PM to 4:00 PM

Speaker Bio:

C K. NAGESHA, MBBS, MS, FVRS, FMRF, Senior Consultant, Department of Vitreo-Retina Narayana Nethralaya-1, RajajiNagr, Bengaluru.

MBBS: Vijayanagara institute of medical sciences. Rajiv Gandhi University of health sciences. MS

Ophthalmology: Silchar Medical college, Srimanta Sankaradeva University of health sciences,

Fellowship in Vitreo Retina: SANKARA NETHRALAYA, Chennai.

Former Medical officer: Dept of Vitreo-Retina: Aravind Eye Hospital, Pondicherry.

RESEARCH ACTIVITIES:

Pubmed indexed publications. 60+ publication pubmed 20+ Non-pubmed. Co-investigator in multicentric clinical trials at Narayana Nethralaya.

Academic accomplishments

Performed Live surgeries at 'Retina summit' 2024, 'His master voice' conference in 2025.

Book chapters: Diabetic retinopathy. Textbook of retina for postgraduate, Chapter: lab diagnostics in endophthalmitis.

AREA OF INTEREST: Cavitory disc anomalies, macular buckle surgeries and secondary IOL surgeries.

Spheres of life interested in : Kathak (Indian classical dance, Lucknow Gharana), Poetry, Painting.

Received many awards for his work at local, national level.

Abstract:-

The ocular surface, comprising the conjunctiva, cornea, and tear film, is in direct contact with the environment, making it prone to their adverse effects. Environmental pollutants like particulate matter, harmful gases, and factors such as wind velocity and humidity have a direct impact on the causation of dry eye disease (DED) and allergic conjunctivitis (AC), affecting the quality of vision and potentially leading to blindness.

On the other hand, geography-specific and season-specific eye diseases result in endemic and epidemic waves, seriously affecting the younger age group and impacting their schooling and academics as cited by research from Indian council of medical research (ICMR). In the extremes, Droughts and famines and the consequent imbalance in food security have large-scale community eye health hazards.

The much-talked-about effects of UV radiation, the impact of ozone depletion, and their long-term effects on degenerative diseases of the eye (such as pterygium, stem cell loss, and eyelid cancers) causing vision loss and some irreversible damage (like age-related macular degeneration, ARMD) are under scrutiny in an evidence-based approach.

Ocular diseases like epidemic keratoconjunctivitis and endemic viral retinitis and the influence of climatic changes on these seasonal variations are highlighted, and measures offering ample opportunities for prevention are discussed. Other less-known disease entities like high-altitude ocular diseases and snow blindness, along with factors linked to global warming, are briefly covered in the talk.

The presentation touches upon these parameters and current knowledge on preventive strategies, including the use of protective wear, scientific evidence Vs industry-driven UV radiation preventive glasses, and ergonomic measures. The discussion concludes by highlighting gaps in current knowledge and the need for broader research in this field, posing important questions to the scientific community.

// ALL ARE WELCOME //