

Friday, January 27, 2023

11:00am–11:45am

**Vishal Verma**

CAS Fellow 2021–22, Civil &amp; Environmental Engineering

*Health-relevant Properties of Ambient Particulate Matter — Targeted Studies in Air Polluted Cities across the World*

Worldwide, 4.2 million deaths were attributable to ambient PM<sub>2.5</sub> pollution in 2015, which represented 7.6% of total deaths from all causes. Through this project, Professor Verma and his lab developed a global cohort for the measurement of a comprehensive

suite of ambient PM<sub>2.5</sub> properties. They built a database on multiple properties of the ambient PM<sub>2.5</sub>, which they now plan to use in the follow-up epidemiological and toxicological studies to look at the association of each property with adverse health effects.

Noon–12:45pm

**Mark Hauber**

CAS Associate 2021–22, Evolution, Ecology &amp; Behavior

*Endocrine Bases of Egg Rejection in Hosts of Brood Parasites: A Trade-off With Parental Care?*

Hosts of brood parasitic birds raise genetically unrelated young in their nests. To avoid this cost of parasitism, many hosts reject foreign eggs from the nest. Professor Hauber will evaluate the life history and endocrine evidence for a physiological trade-off

between egg rejection and parental care in hosts of brood parasites.



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**Center for Advanced Study**

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