



# INDIAN ACADEMY OF SCIENCES

Bengaluru 560 080

## 28 TWENTY EIGHTH MID-YEAR MEETING

30 June–1 July 2017  
@ Faculty Hall,  
Indian Institute of Science,  
Bengaluru 560 012

### SPECIAL LECTURE



**30 June 2017 (Friday)**  
**0930–1010**

**K Ullas Karanth**  
Wildlife Conservation Society, Bengaluru

**Conservation science at  
macro-ecological scales**

Gaining a deeper understanding of ecological patterns and processes at the macro-ecological scale – over large areas and across long time spans – is central to the effective practice of biological conservation and endangered species recovery. Although the practice of such, much-needed conservation science offers exciting opportunities in India, it also faces serious challenges. These challenges can be scientific, technical or logistical, and often, systemic social ones. Using examples from his three decades of ecological research on India's national animal – the tiger, the speaker will explore possible solutions for some of these challenges.

*Karanth has worked extensively on tiger and prey ecology, and has published several scientific papers and books. His areas of interest are carnivore ecology, modelling of wildlife populations, and conservation policy and advocacy. Elected Fellow of Indian Academy of Sciences in 2008. He was awarded the Sierra Club's International Earth Care Award in 2006, WWF's J. Paul Getty Award in 2007 and Bombay Natural History Society's Salim Ali Award for Lifetime Achievement in 2009. He is also recipient of the Rajyothsava Award of the Government of Karnataka in 2010 and the Padmashree in 2012.*

### PUBLIC LECTURE

Colonial India produced a phenomenal number of extraordinarily gifted intellectuals who made a deep impact on the making of modern India. But a strange paradox animates their after lives. While many of these intellectuals were *au fait* with changes across the subcontinent, not to speak of the world, post-independence histories and biographies have imprisoned them in their regions and languages. This lecture focuses on C Subramania Bharati (1882–1921), modern Tamil's most prominent literary figure, to demonstrate the wide-ranging influences that made him: his early life in *fin de siècle* Benares, the Swadeshi movement with its epicenter in Bengal, his friendship with Aurobindo, his wide and eclectic reading in the World literature, and so on. An intertwined strand of this talk is his engagement with Rabindranath Tagore, whom he admired deeply but never met. A strong theme that animated his all-too-brief life was the East's subjugation by the West and the role of science in it.

*A R Venkatachalapathy has taught at universities at Tirunelveli, Chennai and Chicago, and was the ICCR Chair Professor at the National University of Singapore. He has published widely on the social, cultural and intellectual history of colonial Tamil Nadu. An accomplished writer in Tamil, Venkatachalapathy has authored and edited over 20 books in Tamil.*

**30 June 2017 (Friday)**  
**1800–1900**

**A R Venkatachalapathy**  
Madras Institute of Developmental  
Studies, Chennai  
**C Subramania Bharati:**  
**Nationalism and creativity**



### SPECIAL LECTURE



**1 July 2017 (Saturday)**  
**0930–1010**

**Gagandeep Kang**  
THSTI, Faridabad  
**Vaccines and public health in India**

Wherever vaccines have been widely introduced there has been an extraordinarily positive impact on mortality and morbidity. However, there is much to be done in India to ensure the full introduction of available vaccines in the national immunization programme. There are many challenges in implementing new vaccines for a large birth cohort. A life course approach to vaccination, faster development, licensure and regulatory processes are issues that need to be addressed. We are beginning to take these steps, particularly for vaccines for outbreaks, with India playing a key role in cooperative and collaborative ventures. End-to-end engagement requires multiple partners as well as coordination mechanisms, and we are turning challenges in vaccines and public health into opportunities to protect our people against known and unknown preventable diseases.

*Gagandeep Kang works on enteric infections in children, particularly on transmission and immune responses, in order to design effective interventions. Her current studies include active hospital and community based surveillance and clinical trials of new and existing vaccines, with use of molecular based assays to study the diversity of pathogens and the immune response of children with viral and parasitic enteric infections. Elected Fellow of Indian Academy of Sciences in 2011.*

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## ALL ARE WELCOME

