

LCLU Annual Science Day 2024

King's College King's Parade, Cambridge Friday, 15 March

All Talks and presentations will take place at King's College, The Keynes Lecture Theatre with refreshments and lunch in the Chetwynd Room

Programme



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Venue: All Talks and presentations will take place at King's College, The Keynes Lecture Theatre with refreshments and lunch in the Chetwynd Room.

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Lecture Theatr	e with refreshments and lunch in the Chetwynd Room.	13:00 - 13:15	Janna K. Mueller (Department of History and Philosophy of Science) Imagining Inhabitability and Classifying the Cosmos: Early 19th
			Century Debates on Extraterrestrial Life
King's College,	The Keynes Lecture Theatre	13:15 - 13:30	Greg Cooke (Institute of Astronomy)
		13.13 - 13.30	· ·
9:00 - 10:00	Registration & coffee		Lethal surface ozone concentrations are possible on habitable zone
10:00	Welcome to Annual Science Day 2024		exoplanets
	by Dr Emily Mitchell	13:30 - 13:45	Fred Simmons (Faculty of Divinity)
			Fine-Tuning and the Philosophical Significance of Life in the Universe
10:05 - 10:35	Keynote speech by Dr Karina Nakashima	13:45 - 14:00	Edouard Barrier (Institute of Astronomy)
	Coacervate droplets: minimal, yet complex protocells		Convection in exoplanet atmospheres
10:30 - 11:00	Coffee break, Poster Presentations	14:00 – 14:30	Break: Coffee, poster presentations
11:00 – 12:00	Session I: On the search for life	14:30 – 15:30	Session III: Forming, Mining, and Impacting Worlds
11:00 - 11:15	Philipp Spillman (History and Philosophy of Science) What Does it	14:00 - 14:15	Nathan Magnan (DAMTP)
	Mean to Search for Earth-Like Life?		Planet formation by the streaming instability
11:15 - 11:30	Princess Buma-at (Zoology)	14:15 - 14:30	Laura Rogers (Institute of Astronomy)
	Putative algal microfossils from the Ediacaran Doushantuo		Using polluted white dwarfs to probe the bulk composition and
	Formation		geological history of exoplanetary material
11:30 - 11:45	Philip Vixseboxse (Earth Sciences)	14:30 - 14:45	Catriona McDonald (Institute of Astronomy)
11.30 - 11.43		21100 21110	Delivering prebiotic feedstocks with cometary impacts
	An exogenous enzymatic control on soft-tissue preservation in the	14:45 - 15:00	Ross Findlay (Earth Sciences)
	early animal fossil record	14.45 - 15.00	
11:45 - 12:00	Savvas Constantinou (Institute of Astronomy) Exoplanetary		Understanding Early Formed Asteroids: Correlating Petrography
	Atmospheric Retrievals with Transit Spectroscopy in the JWST Era		with Geochemistry
		15:30 - 16:00	Break: Coffee, poster presentations
12:00 - 13:00	Break: Photo and lunch at King's College, the Chetwynd Room		
		16:00 - 17:00	Session IV: From Spark to Species
		16:00 - 16:15	Arsham Nejad Kourki (History and Philosophy of Science)
			Transitions in Structural Complexity: a new approach to the history

13:00 - 14:00 Session II: Just like home?

of life on Earth

16:15 - 16:30	Ziwei Liu (Earth Sciences) Can Manganese (II) promote prebiotically plausible non-enzymatic RNA ligation reactions?
16:30 - 16:45	Lukas Rossmanith (Physics) Investigating the impact of Stellar Flaring on Nitroprusside formation
16:45 - 17:00	Euan Furness (Zoology) The Neoproterozoic carbon cycle and the origin of animals
17:00 - 17:30	Break: Coffee and posters
17:30 - 18:00	End of the Annual Science Day Keynote presentation Prof Nikku Madhusudhan on The Hycean Paradigm in the Search for Life Elsewhere
18:00 - 19:30	Closing remarks, prizes and reception

^{*}For any questions and enquiries, please contact LCLU Admin: admin@lclu.cam.ac.uk