

Origins 2021 conference

Weds, Jan 27, 2021

Thu, Jan 28, 2021

9 00-05	Floris van der Tak / Inge Loes ten Kate: Welcome
05-10	Session 1: The origin of habitable planets and life
	<i>Chair: Inga Kamp</i>
10-15	Ewine van Dishoeck – Our origins in interstellar space
15-20	
20-25	
25-30	
30-35	
35-40	<i>Discussion (10 min)</i>
40-45	Alessandro Morbidelli – A discussion on the properties that make the Earth the habitable planet we know
45-50	
50-55	
55-00	
10 00-05	
05-10	<i>Discussion (10 min)</i>
10-15	<i>Coffee (10 min)</i>
15-20	
20-25	
25-30	Tim Lichtenberg - The earliest atmospheres of rocky planets from magma ocean outgassing
30-35	
35-40	
40-45	<i>Discussion (5 min)</i>
45-50	Eloi Camprubí-Casas – Metal sulphides as primitive energy coupling systems on the early Earth and beyond
50-55	
55-00	
11 00-05	<i>Discussion (10 min)</i>
05-10	Emmanuelle Javaux – The earliest traces of the three domains of life: evidence and challenges
10-15	
15-20	
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25-30	
30-35	<i>Discussion (10 min)</i>
35-40	Dennis Höning - A combination of land plants and marine organisms stabilises Earth's climate
40-45	
45-50	
50-55	<i>Discussion (10 min)</i>
55-00	<i>Lunch (25 min)</i>
12 00-05	
05-10	
10-15	
15-20	
20-25	Poster session 1
25-30	
30-35	
35-40	
13 00-05	

9 00-05	Floris van der Tak / Inge Loes ten Kate: Announcements
05-10	Session 3: Predicting the evolution of life
	<i>Chair: Marcel Visser</i>
10-15	Nobuto Takeuchi – Universal biology and the generalised central dogma
15-20	
20-25	
25-30	
30-35	
35-40	<i>Discussion (10 min)</i>
40-45	Thomas Blankers – Predicting genetic adaptation
45-50	
50-55	
55-00	<i>Discussion (10 min)</i>
10 00-05	<i>Coffee (10 min)</i>
05-10	
10-15	
15-20	Thijs Ettema – The archaeal origin of eukaryotes
20-25	
25-30	
30-35	
35-40	
40-45	<i>Discussion (10 min)</i>
45-50	Karen Bisschop – Predictability of phenotypic evolution: an experimental evolution approach
50-55	
55-00	
11 00-05	<i>Discussion (10 min)</i>
05-10	Erik van Nimwegen – Quantitative laws in genome evolution
10-15	
15-20	
20-25	
25-30	
30-35	<i>Discussion (10 min)</i>
35-40	<i>Lunch (30 min)</i>
40-45	
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55-00	
12 00-05	Poster session 2
05-10	
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13 00-05	

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Session 2: Life as an emergent phenomenon	
<i>Chair: Roeland Merks</i>	
40-45	
45-50	
50-55	Ricard Solé – The morphospace of replicators: constraints and universals
55-00	
14 00-05	
05-10	<i>Discussion (10 min)</i>
10-15	
15-20	Omer Markovitch – Synthetic chemical replicators are revealed to operate at a fidelity close to that of RNA-catalysed RNA polymerisation
20-25	
25-30	<i>Discussion (10 min)</i>
30-35	
35-40	
40-45	Enrico Sandro Colizzi – Sticking together or staying apart? Evolution of multicellularity and unicellularity from collective behaviour
45-50	
50-55	<i>Discussion (10 min)</i>
55-00	
15 00-05	
05-10	Renske Vroomans – Differentiated multicellularity: evolution and development
10-15	
15-20	
20-25	<i>Discussion (10 min)</i>
25-30	
30-35	<i>Tea (10 min)</i>
35-40	
40-45	Natalie Grefenstette – Detecting evolution in polymer populations
45-50	
50-55	<i>Discussion (5 min)</i>
55-00	
16 00-05	
05-10	Monique de Jager – All for one and one for all: Collective cooperation in self-organized mussel beds results in labyrinth-like patterns
10-15	
15-20	<i>Discussion (5 min)</i>
20-25	
25-30	
30-35	Marileen Dogterom – Building a synthetic cytoskeleton
35-40	
40-45	
45-50	<i>Discussion (10 min)</i>
50-55	
55-00	End of scientific programme
17 00-05	
05-10	
10-15	Speed dating (3 x 10 min)
15-20	
20-25	
25-30	
17 30	End

Session 4: Finding extraterrestrial life	
<i>Chair: Joyce Lebbink</i>	
40-45	
45-50	
50-55	Ignas Snellen – Exoplanets and the search for extraterrestrial life
55-00	
14 00-05	
05-10	<i>Discussion (10 min)</i>
10-15	
15-20	Aditya Chopra – Remote Sensing of Earth as an Inhabited Exoplanet
20-25	
25-30	<i>Discussion (5 min)</i>
30-35	
35-40	
40-45	Dirk Schulze-Makuch – Prospects of Alien Life on other Planetary Bodies
45-50	
50-55	
55-00	<i>Discussion (10 min)</i>
15 00-05	
05-10	
10-15	<i>Tea (10 min)</i>
15-20	
20-25	
25-30	
30-35	Paul Rainey – An ecological journey along the road from randomness
35-40	
40-45	
45-50	<i>Discussion (10 min)</i>
50-55	
55-00	
16 00-05	
05-10	Shraddha Shitut – Cell wall deficient bacteria: a versatile system to study the evolution of complexity
10-15	
15-20	<i>Discussion (10 min)</i>
20-25	
25-30	
30-35	
35-40	Nick Lane – How does chemistry come alive?
40-45	
45-50	
50-55	<i>Discussion (10 min)</i>
55-00	
55-00	End of scientific programme
17 00-05	
05-10	
10-15	
15-20	Virtual drinks / Informal discussions
20-25	
25-30	
17 30	End