

**e - Calendar**  
for  
**Academic Session**  
**2023 - 24**

**IQRA PUBLIC SCHOOL**  
**CBSE affiliation No. 2130369**

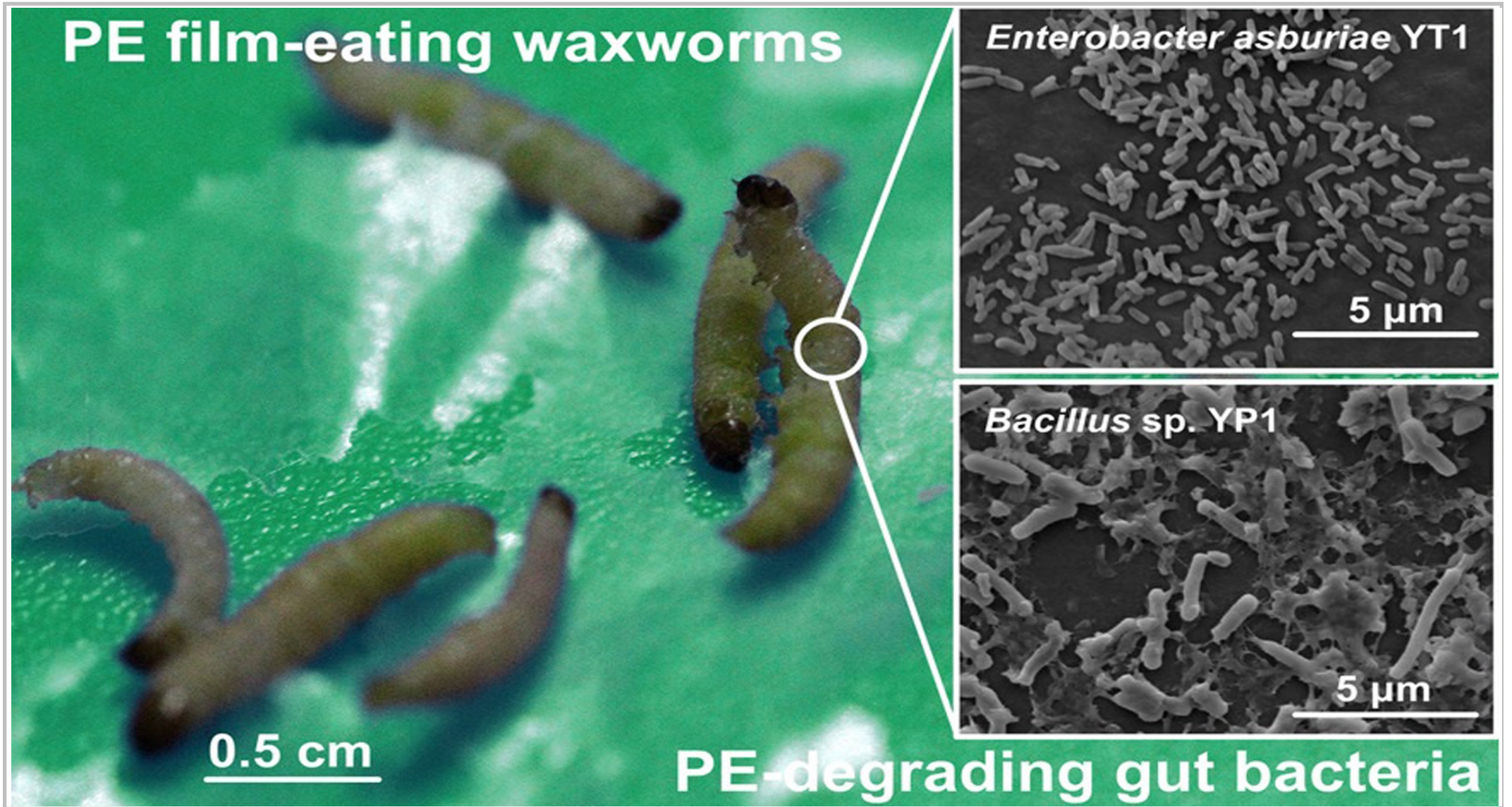
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### Caterpillar spit breaks down plastic

Molecular biologist and amateur beekeeper Federica Bertocchini was tending to her beehives, plucking wax worms from the honeycombs, when she made an unexpected discovery. The caterpillars, which she had put into a plastic bag, were eating through the material. Upon closer examination, she found that the larvae weren't just chewing holes, but their saliva was actually breaking down the bag's polyethylene molecules. Wax worm saliva might one day combat plastics at large-scale waste management plants or lead to the invention of at-home recycling kits.

April 2023

رمضان المبارک - شوال المکرم ۱۴۴۴ھ

Sun	Mon	Tue	Wed	Thu	Fri	Sat
30 ۹	4th Mahavir Jayanti	7th Good Friday	14th Ambedkar Jayanti	21st Jumatul Wida	22nd - 23rd Eid-UI-Fitr	1 ۹ رمضان
2 ۱۰	3 ۱۱	4 ۱۲	5 ۱۳	6 ۱۴	7 ۱۵	8 ۱۶
9 ۱۷	10 ۱۸	11 ۱۹	12 ۲۰	13 ۲۱	14 ۲۲	15 ۲۳
16 ۲۴	17 ۲۵	18 ۲۶	19 ۲۷	20 ۲۸	21 ۲۹	22 ۱ شوال
23 ۲	24 ۳	25 ۴	26 ۵	27 ۶	28 ۷	29 ۸

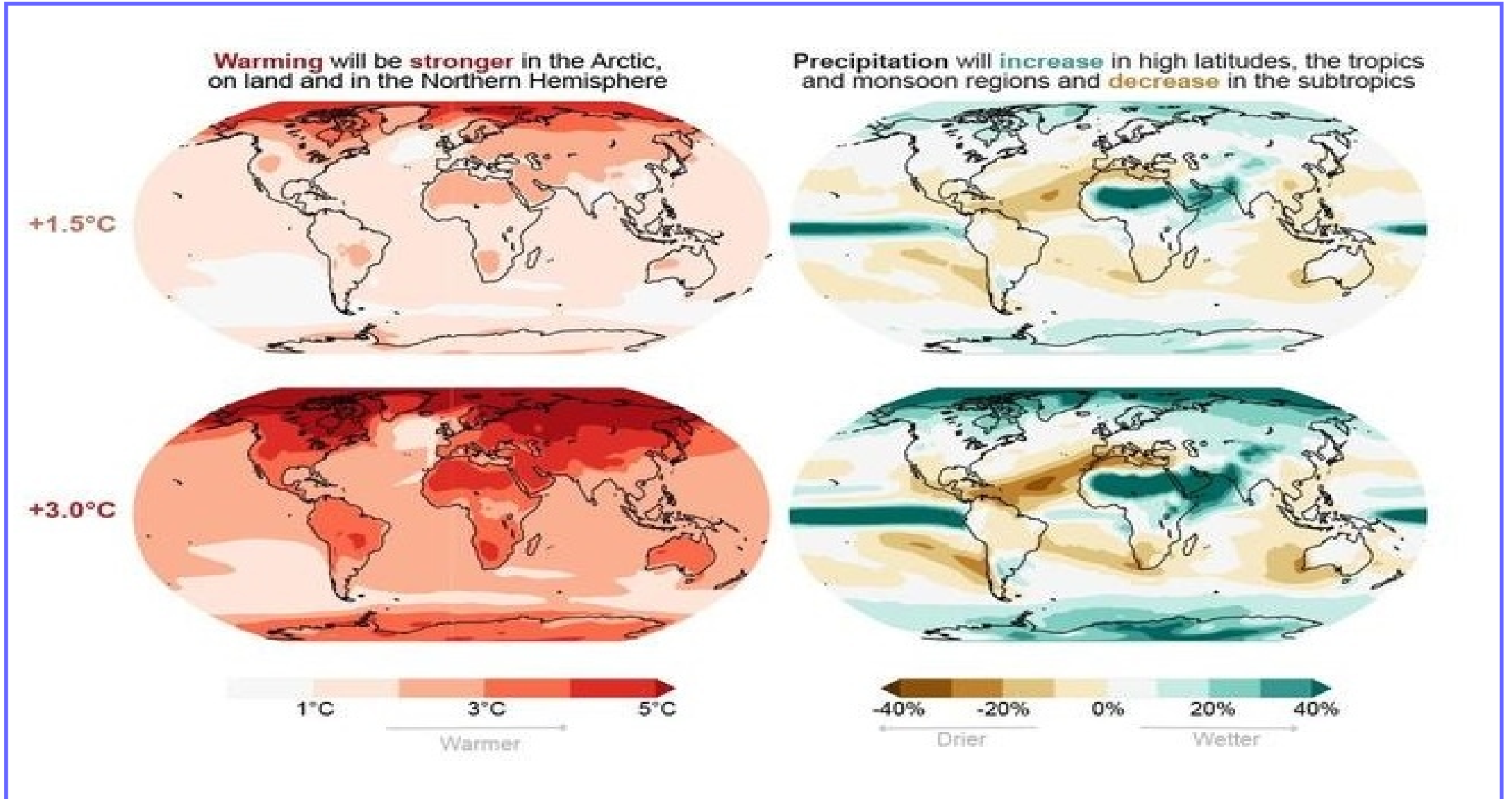




## Spectacular new fish species

A colorful reef fish from the Maldives is the first new-to-science species described by a Maldivian scientist. The fish, *Cirrhilabrus finifenmaa*, was named after the local word for “rose.” Subtle physical differences and DNA analyses confirmed the rose-veiled fairy wrasse is a separate species from the already-known rosy-scales fairy wrasse (*Cirrhilabrus rubrisquamis*)

May 2023		شوال المكرم - ذوالقعدة ١٤٤٤ هـ					
Sun	Mon	Tue	Wed	Thu	Fri	Sat	
	1 ١٠ شوال	2 ١١	3 ١٢	4 ١٣	5 ١٤	6 ١٥	
7 ١٦	8 ١٧	9 ١٨	10 ١٩	11 ٢٠	12 ٢١	13 ٢٢	
14 ٢٣	15 ٢٤	16 ٢٥	17 ٢٦	18 ٢٧	19 ٢٨	20 ٢٩	
21 ٣٠	22 ذوالقعدة	23 ٢	24 ٣	25 ٤	26 ٥	27 ٦	
28 ٧	29 ٨	30 ٩	31 ١٠	5th Budh Purnima			



## Perseverance rover explores the Martian landscape

NASA's newest Mars rover continued its hunt for signs of ancient life this year in Jezero crater a 28-mile-wide impact basin that was likely once filled with water. The rover spotted a few surprising features as it trekked across the crater's floor, such as thin purple coatings on some rocks that are reminiscent of a kind of rock varnish formed on Earth by microbes.

June 2023		ذوالقعدة - ذوالحججه ١٤٤٤ هـ				
Sun	Mon	Tue	Wed	Thu	Fri	Sat
1st June to 2nd July Summer Vacation	29th - 30th Eid-UI-Azha			1 ذوالقعدة ١١	2 ١٢	3 ١٣
4 ١٤	5 ١٥	6 ١٦	7 ١٧	8 ١٨	9 ١٩	10 ٢٠
11 ٢١	12 ٢٢	13 ٢٣	14 ٢٤	15 ٢٥	16 ٢٦	17 ٢٧
18 ٢٨	19 ٢٩	20 ذوالحججه ١	21 ٢	22 ٣	23 ٤	24 ٥
25 ٦	26 ٧	27 ٨	28 ٩	29 ١٠	30 ١١	



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## UN report reveals climate change's toll on our health

According to a landmark report released by the UN's Intergovernmental Panel on Climate Change. By 2100, three-quarters of all humans on Earth could regularly suffer extreme heat stress. People also face increased lung damage from air pollution and more vector-borne diseases from blood-feeding bugs, such as mosquitos and ticks

July 2023		ذوالحججه - محرم الحرام ١٤٤٥-١٤٤٤ هـ				
Sun	Mon	Tue	Wed	Thu	Fri	Sat
30 ١١	31 ١٢	3rd July School Reopens	29th Moharram			1 ١٢ ذوالحججه
2 ١٣	3 ١٤	4 ١٥	5 ١٦	6 ١٧	7 ١٨	8 ١٩
9 ٢٠	10 ٢١	11 ٢٢	12 ٢٣	13 ٢٤	14 ٢٥	15 ٢٦
16 ٢٧	17 ٢٨	18 ٢٩	19 ٣٠	20 ١ محرم	21 ٢	22 ٣
23 ٤	24 ٥	25 ٦	26 ٧	27 ٨	28 ٩	29 ١٠

“The best way to predict the future is to create it”.  
Abraham Lincoln





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## Quantum computer creates new phase of matter with two time dimensions

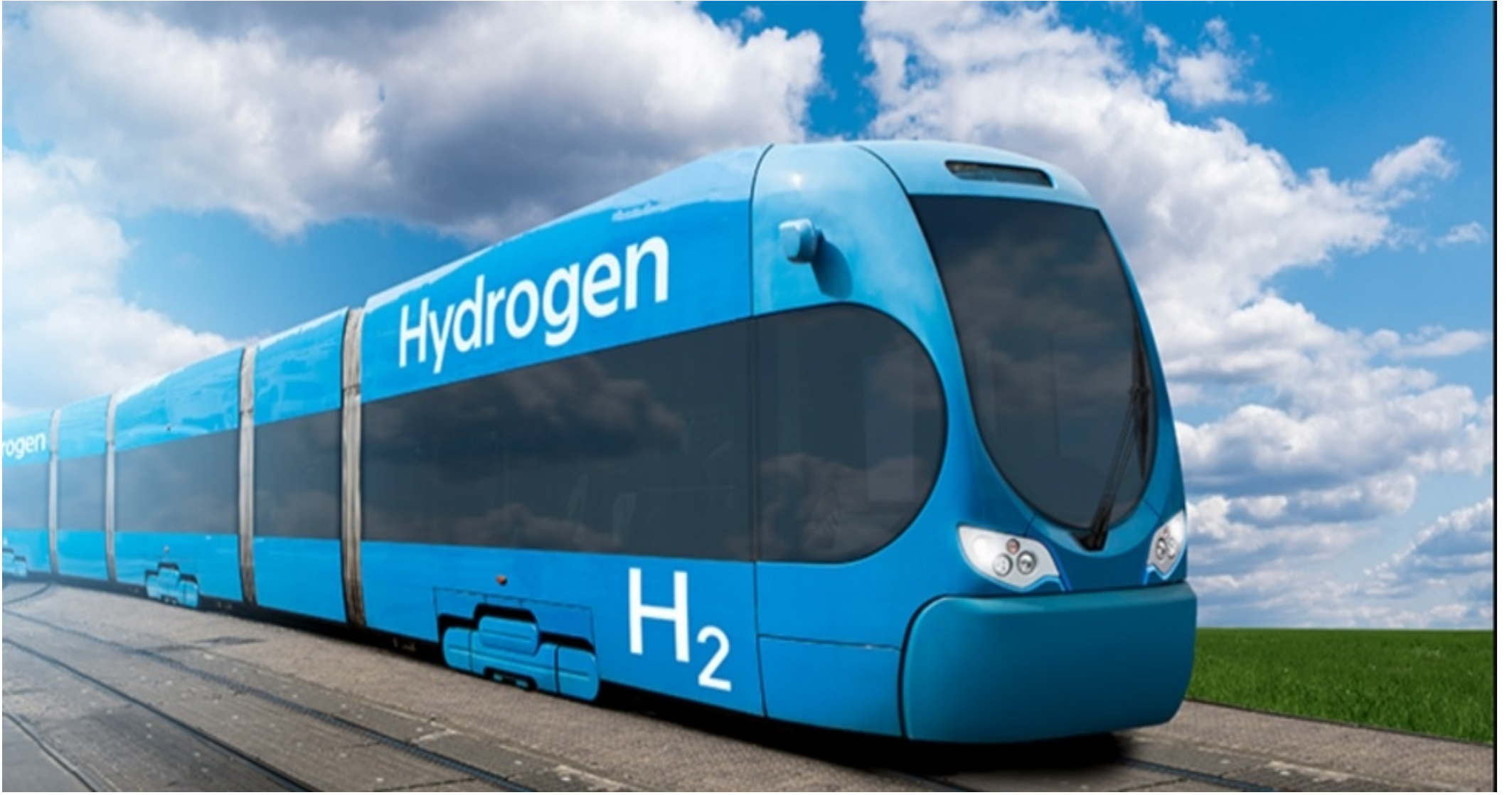
This year, researchers in New York realised their quantum computer had produced a completely new phase of matter. Not satisfied with their new state of matter, the physicists also observed that the phase exhibited two time dimensions despite there still being only a singular flow of time. The phase was produced by shining on atoms, lasers pulsed in a Fibonacci sequence. The mind-bending physics and geometry was the experimental culmination of five years of work.

August 2023		محرم الحرام - صفر المظفر ١٤٤٥ هـ				
Sun	Mon	Tue	Wed	Thu	Fri	Sat
		1 ١٣ محرم	2 ١٤	3 ١٥	4 ١٦	5 ١٧
6 ١٨	7 ١٩	8 ٢٠	9 ٢١	10 ٢٢	11 ٢٣	12 ٢٤
13 ٢٥	14 ٢٦	15 ٢٧	16 ٢٨	17 ٢٩	18 ١ صفر	19 ٢
20 ٣	21 ٤	22 ٥	23 ٦	24 ٧	25 ٨	26 ٩
27 ١٠	28 ١١	29 ١٢	30 ١٣	31 ١٤	15th Independence Day	30th Raksha Bandhan

“Education imparted by heart can bring revolution in the society”.  
Maulana Abul Kalam Azad



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## Hydrogen-powered trains

Germany introduced a fleet of zero-emission trains powered solely by hydrogen in northern Lower Saxony. By combining hydrogen and oxygen, the trains can run while only emitting steam and water. The trains are projected to eliminate 4,000 tons of carbon dioxide that would otherwise be released into the atmosphere each year

September 2023		صفرالمظفر - ربيع الاول ١٤٤٥ هـ				
Sun	Mon	Tue	Wed	Thu	Fri	Sat
7th Janmashtami	27th Miladun Nabi				1 ١٥ صفر	2 ١٦
3 ١٤	4 ١٨	5 ١٩	6 ٢٠	7 ٢١	8 ٢٢	9 ٢٣
10 ٢٢	11 ٢٥	12 ٢٦	13 ٢٧	14 ٢٨	15 ٢٩	16 ١ ربيع الاول
17 ٢	18 ٣	19 ٤	20 ٥	21 ٦	22 ٧	23 ٨
24 ٩	25 ١٠	26 ١١	27 ١٢	28 ١٣	29 ١٤	30 ١٥

“A man should be upright, righteous and honest even while opposing his opponent”.  
Sir Syed Ahmad Khan





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## Massive Milky Way black hole

At the center of the Milky Way is a giant black hole, and for the first time ever, astronomers were able to see. With the power of eight linked radio dishes from around the world, the Event Horizon Telescope took a picture of the shadow of the supermassive black hole known as Sagittarius A\*. Hundreds of scientists from 80 institutions around the globe worked together to collect, process, and piece together fragments of data to make the picture. Now scientists have a snapshot of the real deal, which spans 27 million mil

October 2023		ربيع الاول - ربيع الآخر ١٤٤٥ هـ				
Sun	Mon	Tue	Wed	Thu	Fri	Sat
1 ١٦ ربيع الاول	2 ١٧	3 ١٨	4 ١٩	5 ٢٠	6 ٢١	7 ٢٢
8 ٢٣	9 ٢٤	10 ٢٥	11 ٢٦	12 ٢٧	13 ٢٨	14 ٢٩
15 ٣٠	16 ١ ربيع الآخر	17 ٢	18 ٣	19 ٤	20 ٥	21 ٦
22 ٧	23 ٨	24 ٩	25 ١٠	26 ١١	27 ١٢	28 ١٣
29 ١٤	30 ١٥	31 ١٦	2nd Gandhi Jayanti	24th Dussehra		

“Knowledge speaks, but wisdom listens”.  
Jimi Hendrix





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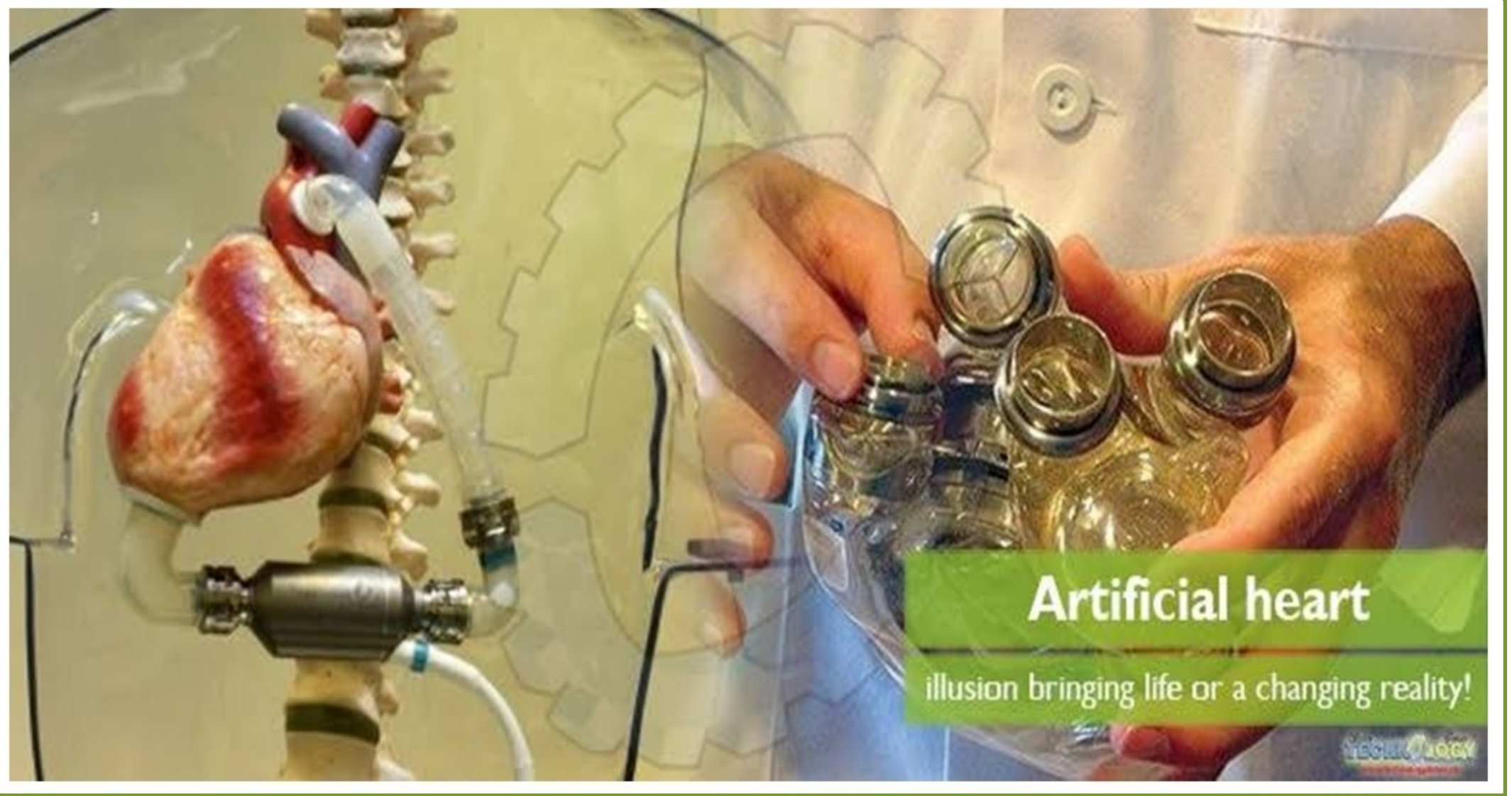
## Ancient source of oxygen for early life unearthed

Scientists have discovered an ancient source of oxygen that could have fueled the rise of early life on Earth. Powerful earthquakes struck the planet roughly 3.8 billion years ago, cracking it like an egg. The combination of near-boiling water and seismic activity could have generated the oxygen needed for some of Earth's earliest lifeforms.

November 2023		ربيع الآخر - جمادى الاولى ١٤٤٥ هـ				
Sun	Mon	Tue	Wed	Thu	Fri	Sat
			1 ربيع الآخر ١٤	2 ١٨	3 ١٩	4 ٢٠
5 ٢١	6 ٢٢	7 ٢٣	8 ٢٤	9 ٢٥	10 ٢٦	11 ٢٧
12 ٢٨	13 ٢٩	14 ٣٠	15 ١ جمادى الاولى	16 ٢	17 ٣	18 ٤
19 ٥	20 ٦	21 ٧	22 ٨	23 ٩	24 ١٠	25 ١١
26 ١٢	27 ١٣	28 ١٤	29 ١٥	30 ١٦	12th Diwali	27th Guru Nanak Jayanti

“Education is not the learning of facts, but the training of the mind to think”.  
Albert Einstein





## Artificial titanium heart

Scientists have been trying to build an artificial heart for over 50 years now. An Australian research team has created BiVACOR, a titanium heart that utilises spinning disc technology. It doesn't work exactly like a human heart but tries to surpass evolution with a better mechanism to pump blood around the human body. It has a circular pump suspended between magnets in an artificial heart made of titanium.

December 2023		جمادى الاولى - جمادى الآخرة ١٤٤٥ هـ					
Sun	Mon	Tue	Wed	Thu	Fri	Sat	
31 ١٨	25th Christmas Day				1 ١٤ جمادى الاولى	2 ١٨	
3 ١٩	4 ٢٠	5 ٢١	6 ٢٢	7 ٢٣	8 ٢٤	9 ٢٥	
10 ٢٦	11 ٢٧	12 ٢٨	13 ٢٩	14 ١ جمادى الآخرة	15 ٢	16 ٣	
17 ٤	18 ٥	19 ٦	20 ٧	21 ٨	22 ٩	23 ١٠	
24 ١١	25 ١٢	26 ١٣	27 ١٤	28 ١٥	29 ١٦	30 ١٧	





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## Smog sucking tower

Union Minister for Environment, Forest and Climate Change Bhupender Yadav virtually inaugurated the first functional smog tower in India at **Anand Vihar in Delhi**. The purpose of Smog towers or smog free towers are structures designed as large-scale air purifiers **to reduce air pollution particles (smog)**, the prototype for which was built in 2017 by Dutch artist Daan Roosegaarde, in Beijing.

January 2024		جمادى الآخرة - رجب المرجب ١٤٤٥ هـ				
Sun	Mon	Tue	Wed	Thu	Fri	Sat
1st to 6th Winter Vacation	1 ١٩ جمادى الآخرة	2 ٢٠	3 ٢١	4 ٢٢	5 ٢٣	6 ٢٤
7 ٢٥	8 ٢٦	9 ٢٧	10 ٢٨	11 ٢٩	12 ٣٠	13 رجب ١
14 ٢	15 ٣	16 ٤	17 ٥	18 ٦	19 ٧	20 ٨
21 ٩	22 ١٠	23 ١١	24 ١٢	25 ١٣	26 ١٤	27 ١٥
28 ١٦	29 ١٧	30 ١٨	31 ١٩	26th Republic Day		

**“I never lose, I either win or learn”.**  
**Nelson Mandela**





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## Solar-Powered Roads

These solar panels can be used to pave roads, driveways, sidewalks, and more. The solar wafers, protected under thick layers of shatter-proof Gorilla Glass, can generate electricity from any surface. Additionally, Solar Roadways panels can be programmed to show specific markings on the road or melt snow to ensure easy walking or driving over them during winters.

February 2024

رجب المرجب - شعبان المعظم ١٤٤٥ هـ

Sun	Mon	Tue	Wed	Thu	Fri	Sat
				1 رجب ٢٠	2 ٢١	3 ٢٢
4 ٢٣	5 ٢٤	6 ٢٥	7 ٢٦	8 ٢٧	9 ٢٨	10 ٢٩
11 شعبان ١	12 ٢	13 ٣	14 ٤	15 ٥	16 ٦	17 ٧
18 ٨	19 ٩	20 ١٠	21 ١١	22 ١٢	23 ١٣	24 ١٤
25 ١٥	26 ١٦	27 ١٧	28 ١٨	29 ١٩	25th Shab-e-Barat	

“A winner is a dreamer who never gives up”.  
Nelson Mandela





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## Anti-Pollutant Tyres

Every time a vehicle brakes, accelerates, or turns a corner, tiny microplastic particles of tire dust is released into the air or washed down drains into waterways. These particles are the second most prevalent microplastic pollutant in the ocean. British start-up the Tyre Collective is attempting to reduce this.

March 2024		شعبان المعظم - رمضان المبارك ١٤٤٥ هـ				
Sun	Mon	Tue	Wed	Thu	Fri	Sat
31 ٢١	8th Mahashivratri	25th Holi	29th Good Friday		1 ٢٠ شعبان	2 ٢١
3 ٢٢	4 ٢٣	5 ٢٤	6 ٢٥	7 ٢٦	8 ٢٧	9 ٢٨
10 ٢٩	11 ١ رمضان	12 ٢	13 ٣	14 ٤	15 ٥	16 ٦
17 ٧	18 ٨	19 ٩	20 ١٠	21 ١١	22 ١٢	23 ١٣
24 ١٤	25 ١٥	26 ١٦	27 ١٧	28 ١٨	29 ١٩	30 ٢٠

“The more I learn, the less I realize I know”.  
Socrates