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Two new ministers join UAE Cabinet

ORDER OF THE UNION FOR GARGASH, NUSSEIBAH

DUBAI

Gulf News Report

In a minor reshuffle yesterday, two new ministers were inducted into the Cabinet by His Highness Shaikh Mohammad Bin Rashid Al Maktoum, Vice-President and Prime Minister of the UAE and Ruler of Dubai.

Shaikh Shakhboub Bin Nahyan Bin Mubarak Al Nahyan and Khalifa Shahin Al Marar, have been appointed as Ministers of State in the Ministry of Foreign Affairs and International Cooperation.

Shaikh Mohammad Bin Rashid and His Highness Shaikh Mohammad Bin Zayed Al Nahyan, Crown Prince of Abu Dhabi and Deputy Supreme Commander of the UAE Armed Forces presided over the swearing-in of the two ministers.

Shaikh Shakhboub Bin Nahyan was the former UAE ambassador to Saudi Arabia, while Khalifa Shahin Al Marar, was former assistant minister of political affairs.

Dr Anwar Gargash, who has occupied the second most senior foreign affairs position since 2008, will serve as a diplomatic adviser to the President and Zaki Anwar Nusseibeh will be the cultural adviser to the President.

Shaikh Mohammad Bin Rashid said on Twitter that Dr Gargash had been "one of the most important pioneers of Emirati political work ... who had been able to bring about major transformations in our foreign political work and international political and



Shaikh Mohammad Bin Rashid and Shaikh Mohammad Bin Zayed honouring Dr. Gargash with the Order of the Union in recognition of his outstanding efforts in serving the nation.

“The prospects for our journey over the next 50 years are exceptionally promising and we look forward to many more national accomplishments supported by the hard work, diligence and commitment of our people.”

Shaikh Mohammad Bin Rashid

regional relations". Shaikh Mohammad said the UAE constantly introduces new policies and strategies to ensure its success in local, regional arenas as well as on the global stage.

Diplomatic academy renamed after Gargash

Shaikh Mohammad Bin Rashid and Shaikh Mohammad Bin Zayed honoured Dr. Gargash and Nusseibah with

the Order of the Union in recognition of their outstanding efforts in serving the nation.

In recognition of Dr Anwar Gargash's dedication to serving the UAE, and his pioneering diplomatic efforts regionally and internationally, the Emirates Diplomatic Academy has been renamed as Anwar Gargash Diplomatic Academy.

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EMIRATES MARS MISSION

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Spacecraft will soon transition to its Science phase to begin its core mission of studying the atmosphere of the Red Planet | P6-7

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Following this achievement, which is unparalleled in the Arab and Islamic world, we will share the expertise and knowledge we have gained from different phases of this ambitious project with people and institutions in the region and the world. This is our commitment."

Shaikh Hamdan Bin Mohammad Bin Rashid Al Maktoum | Crown Prince of Dubai



The Hope Probe's success is the result of the strategic importance the nation's leaders place on space exploration and space science. The leadership's continuous support ensured that the project team was able to overcome the challenges brought in the wake of the pandemic."

Shaikh Maktoum Bin Mohammad Bin Rashid Al Maktoum | Deputy Ruler of Dubai



Omran Sharaf and Sarah Al Amiri share details of the Hope Probe's mission during a press conference at MBRSC in Dubai yesterday.

HOPE PROBE TO SEND FIRST IMAGE OF MARS IN A WEEK

Daily contact for the next three to four weeks as engineers calibrate instruments over two-month transitional phase

DUBAI
BY ANGEL TESORERO
Senior Reporter

Having passed its Mars Orbital Insertion (MOI) test with flying colours, Hope Probe will soon transition to its Science phase to begin its core mission of studying the Martian atmosphere, the Emirates Mars Mission (EMM) team said yesterday.

Addressing media at the Mohammad Bin Rashid Space Centre (MBRSC), Omran Sharaf, EMM project director, said the orbiter is in good health. "All subsystems are working fine," he said.

Sharaf revealed that the Hope Probe is expected to send its first image of Mars in a week.

'Everything went as planned'

"Everything went as planned," said Sarah Al Amiri, Minister of State for Advanced Technology and Chairman of the UAE Space Agency, who also addressed the media yesterday.

Al Amiri said the success has added a new methodology in space design and technology. "We have tested different scenarios and modified designs of previous missions to achieve success and we're grateful everything went as planned," she said.

Crucial moments leading up to MOI

Recalling the most critical phase of Hope Probe's journey, Sharaf said the MOI commenced at 7.30pm UAE time. The orbiter worked autonomously and fired its six Delta V thrusters to rapidly reduce its speed from 121,000km/h to

18,000km/h. The deceleration burn took 27 minutes and by 7.57pm, the probe was safely captured by Mars orbit. At 8:08pm, the ground control station at Al Khawaneej received the first transmission from Hope Probe and Sharaf declared to the UAE and the world the success of the mission.

Probe will be tested for two months

Emirati engineers at the ground control station at MBRSC will now spend two months testing the orbiter and its scientific instruments before it transitions to its science orbit.

During this phase, all instruments will be calibrated to ensure accuracy of data collected. Daily contact will be established for the next three to four weeks to enable a quick turnaround of command sequence uploads and telemetry receipt.

No plans for rover or lander

When asked if there is a plan to expand the current Mars programme, Al Amiri said there is no plan yet to send a rover or a lander to Mars. "Let's focus first on the core mission of Hope Probe and let us start its scientific phase," she said.

The rebooting of the probe's systems can take 45 days, while radio signals will take 22 minutes to travel from Hope to Earth and back. The probe's high-resolution imager and two spectrometers will collect 1,000GB of data, which will be shared for free with over 200 institutions. The first set of data will be released in September and every three months thereafter, Omran Ahmad Al Hammadi, science data centre lead, told *Gulf News* earlier.

WHAT COMES NEXT

- Hope Probe's transition from capture to science orbit will happen for two months.
- MBRSC ground control will conduct three Transition to Science manoeuvres to move the probe to its Science orbit.
- The transition will be completed by April.
- The probe will complete one orbit of Mars every 55 hours and will capture a full planetary sample every nine days.
- The first set of data that will be released by September.

45 days
time to reboot Hope Probe's systems



The step is historical and pioneering for the UAE to enter the field of outer space exploration. The step constitutes the hope aimed to reinstate the glories and the discoveries by the Arab and Islamic nations in the realms of sciences, arts, and innovation."

Abdul Fattah Al Sisi | Egypt's President



This success is the outcome of an investment in knowledge and an academic and scientific renaissance, which was reinforced and supported by the government over many decades. This unique space mission has placed Arabs on the map of global excellence."

Ahmad Aboul Gheit | Secretary-General of the Arab League



The Hope probe is a continuation of that legacy that seeks to remind the world that for the UAE, nothing is impossible to achieve when it sets its mind on it."

Sherif Beshara | Group CEO, Mohamed & Obaid Almula group

Meet the young engineers behind the Hope Probe's success

SCAN ME

Landmarks in Arab cities light up in red

Messages pour in congratulating historic achievement of UAE's space programme

CAIRO
BY KHITAM AL AMIR
Chief News Editor
RAMADAN AL SHERBINI
AND YASMENA AL MULLA
Correspondents

The Arab world has expressed overwhelming jubilation as the UAE made history on Tuesday with its Hope Probe entering the Mars orbit.

In a gesture of celebration, the Cairo Tower, a Nile-side landmark, on Tuesday night lit up in red displaying the phrase "the Hope Probe" in Arabic.

Egyptian media, meanwhile, gave massive coverage of the historic event in its news bulletins and prime time TV shows.

Scientific renaissance

Egyptian President Abdul Fattah Al Sisi congratulated the UAE on the successful Mars mission, describing it as an unprecedented step. "I followed with pride the arrival of Hope Probe at Mars, which is an unprecedented step in the scientific research field, promising a scientific renaissance in the Arab region," Al Sisi said on Twitter.

Meanwhile, the Emir of Kuwait, Shaikh Nawaf Al Ahmad Al Sabah, congratulated the UAE leadership on the successful Hope Probe mission. He pointed out how the Hope Probe mission serves as a pride for all Arab countries, as it celebrates the success of its brotherly neighbour.

The iconic Kuwait Towers lit up in red on Tuesday night in celebration of the UAE's successful mission to Mars. Congratulations also poured in from other Arab

countries. Chairman of the Saudi Space Commission, Prince Sultan Bin Salman Bin Abdul Aziz, congratulated Shaikh Mohammad Bin Rashid, Vice-President, the Prime Minister and Ruler of Dubai, as well as officials at the UAE Space Agency and the Mohammad Bin Rashid Space Centre and the Emirati people on the orbiter's arrival.

Zayed's vision

"This ambition was not born today. In 1986 when I met Shaikh Zayed, may Allah have mercy on him, he talked about space and mentioned the minutest details," Prince Sultan said. "He had a great ambition on the basis of which generations, ambitions and initiatives were built, contributing to the fulfilment of this dream."

Meanwhile, Shaikh Hamad Bin Isa Al Khalifa, King of Bahrain, congratulated the UAE on Hope Probe's successful mission.

A number of buildings lit up in red in Bahrain on Tuesday evening. Other landmarks in Saudi Arabia, Jordan, Iraq and Kuwait displayed a similar gesture.

Jordan also lit up its Amman landmarks in red to celebrate the UAE's 'Hope Probe' Mars Mission. The Roman Theatre, Abdoun Bridge, the Royal Hotel, Wakalat Street and the advertising screens of the Greater Amman Municipality shone in red.

In Lebanon, President Michel Aoun tweeted: "Congratulations on this historic achievement of the Emirati Hope Probe's entry into the Martian orbit," he tweeted.

Meet dedicated team of Emirati engineers who ensured Hope Probe's success

All under 35 years old, the Emirates Mars Mission's engineers, scientists, data analysts and programmers have made history by making the UAE the first Arab country and only the fifth in the world to reach the Red Planet

When the Hope Probe was launched last July, it did not only carry the hopes of the UAE people, but also the aspirations of millions of Arabs and Muslims."



Shaikh Ahmad Bin Mohammad
Chairman, Dubai Media Council

This historic moment is a source of pride for all Emiratis and Arabs. The Hope Probe speaks of the UAE's contribution to enriching science and knowledge."



Shaikh Mansour Bin Zayed
Deputy Prime Minister

We extend our gratitude to the Hope Probe team for their role in this great achievement ... you have proved your worth for the leadership's trust."



Shaikh Abdullah Bin Zayed
Minister for Foreign Affairs



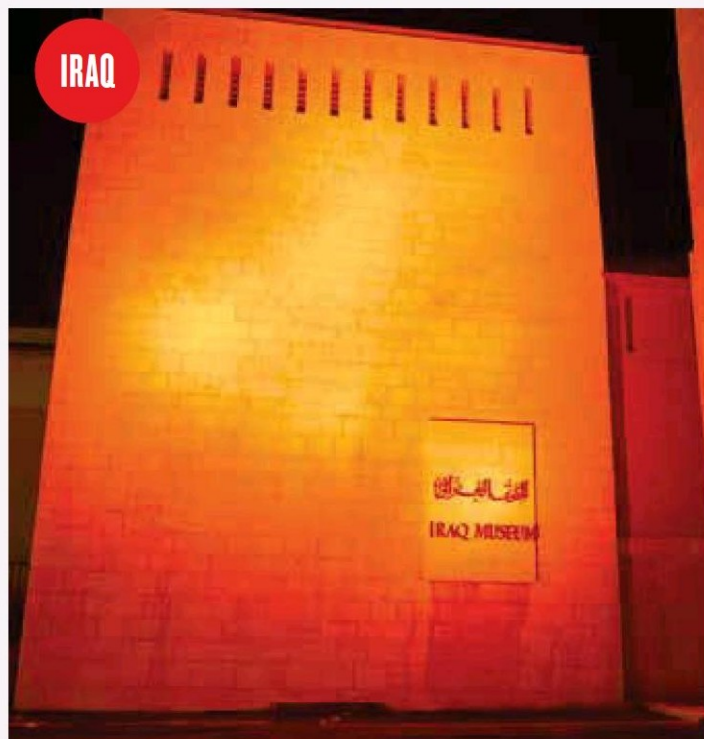
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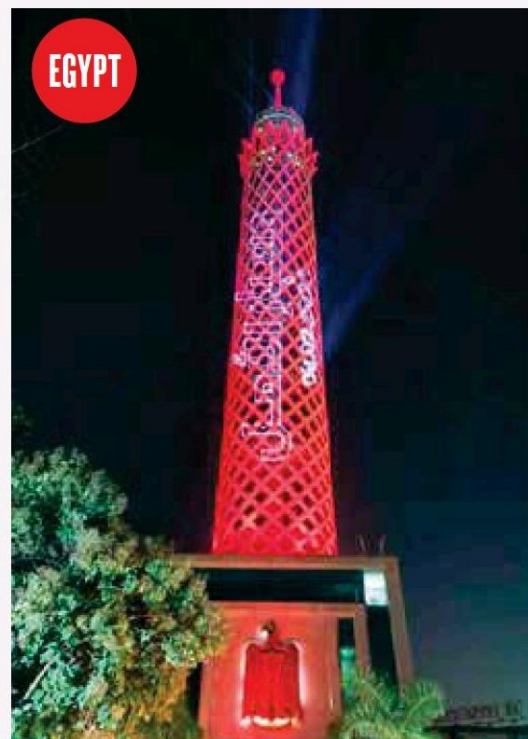
JORDAN



KUWAIT



IRAQ



EGYPT

DUBAI
BY ANGEL TESORERO
Senior Reporter

It was a moment of triumph for the young Emirati engineers, scientists, data analysts and programmers when Hope Probe successfully entered Mars orbit on Tuesday. Here's a look at some members of the team who are all under 35 years old.

Alli Juma Al Suwaidi

The FlatSat engineer is responsible for spacecraft integration and testing. A FlatSat is a large motherboard where modules were installed, similar to a real satellite. Al Suwaidi led the assembly, integration and testing of the FlatSat bench test models for Hope Probe. He joined MBRSC in January 2017 and has a Master's in Aerospace Engineering and Engineering Management from the US.

Omar Abdul Rahman Hussain

The lead mission design and navigation engineer has been working with MBRSC since the launch of KhalifaSat. He is a computer engineer and led Hope Probe's Monte Carlo Simulation, a highly precise computer-based quantitative risk analyses.

Maryam Yousuf

Hope Probe's science data analyst has a degree in biomedical engineering from Khalifa University in Abu Dhabi. One of her tasks is to study the diurnal (daily) data and investigate the atmosphere of Mars, which has never been done before.

Omran Ahmad Al Hammadi

The science data centre lead joined MBRSC in 2011 as a software engineer. He worked on the DubaiSat-2 mission and, in 2015, joined the Emirates Mars Mission. He is responsible for

mission data processing, management and dissemination.

Hessa Al Matroushi

The deputy project manager — science joined MBRSC in 2013 and has worked on Hope Probe's Emirates Mars Ultraviolet Spectrometer. She has a Master's in Engineering System Management.

Suhail Butti Al Dhafri

The deputy project manager — Hope spacecraft joined MBRSC in 2006 and has worked on DubaiSat-1, DubaiSat-2 and KhalifaSat. His teams are responsible for Hope's technical design and development.

Zakareyya Hussain Al Shamsi

The deputy project manager for mission operations is responsible for spacecraft operations after Hope Probe was launched last year. He also heads the MBRSC Space Avionics Section.



■ Clockwise: Alli Juma Al Suwaidi, Omar Abdul Rahman Hussain, Maryam Yousuf, Omran Ahmad Al Hammadi, Suhail Butti Al Dhafri, Zakareyya Hussain Al Shamsi and Hessa Al Matroushi.