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# Shenzhou XVI crew members share space stories

By JIANG CHENGLONG

The Shenzhou XVI crew members shared their space stories with the public on Friday for the first time since their return from space last October, after the historic five-month mission involving China's first civilian astronaut.

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The three crew members, Major General Jing Haipeng, the mission's commander, Colonel Zhu Yangzhu and Professor Gui Haichao, arrived at China's Tlangong space station last May, in the nation's 11th manned spaceflight and the fifth crewed mission to the space station. Jing and spacellight engineer Zhu are members of the People's Liberation Army Astronaut Division, while Gui, who served as the mission's payload specialist, is a doctoral superisor at the Beljing-based Behlang University's Department of Spacecraft and Launch Vehicle Technology.

'I felt particularly happy to fly with the diverse crew members, which for the first time included a



Jing Haipeng (center), Zhu Yangzhu ) — make their first official public pace City on Friday since they returne INGXIN / CHINA DAILY

pilot, an engineer, and a payload specialist," Jing, 57, said at the news conference held in Beijing. The Shenzhou XVI mission marked Jing's fourth journey into space, making him China's most experienced astronaut.

"In previous missions, astronauts had to multitask, piloting the space-craft, conducting experiments, maintaining equipment, and even performing medical tasks such as conducting our own ultrasounds," he said.

"However, this time, as the commander and pilot, I mainly focused mander and pilot, I mainly focused on the spacecraft's navigation and the space station's operations," said Jing, adding that the primary responsibilities of his companions were assembling and maintaining the space station's equipment and managing payloads. Jing also revealed that, unlike his

managing pytoods. Jing also revealed that, unlike his previous space missions, he actually gained weight by the end of this one. We strictly followed our exercise and dietary plans, which is why our physical and mental conditions were exceptionally good, he said. At the news conference, Chen Dong, the head of the PLA Astronaut Division, said that after medical quarantine and recuperative care, the three astronauts are in good physical and mental health, with their weight stable and similar to preflight levels, and their muscle strength, endurance and cardiorespiratory of these basically restored to the preflight state.

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### **Space**: Strength of team seen as critical to success

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They will undergo a final health assessment before returning to normal training and work routines, he said.

unes, he said.
Flight engineer Zhu said the greatest challenge was to ensure "zero mistakes in daily operations" during the five-month mis-

"I was mainly responsible for the maintenance and repair of the space station platform, ensuring that it is safe, stable, efficient, and maintains long-term operations," he said, noting that unexpected situations which are difficult to predict on Earth can arise in space. "This requires us to learn to solve problems promptly and effectively," Zhu said. "We must be extremely familiar with the complex systems of the space station and possess specialized knowledge." "The most important aspect, in fact, was the strength of our team. For every critical operation, we repeatedly confirmed and remind-"I was mainly responsible for the

ed each other to ensure infallibility," he said.

Payload specialist Gui became China's first civilian astronaut to fly in space. As a researcher, he expressed great joy in conducting

expressed great Joy in conducting scientific research in space. "We closely collaborated with ground researchers to complete more than 70 space experiments and technical research projects, obtaining a wealth of experimental data and bringing back many valu-able samples."

data and bringing back many valuable samples."

Gai said he was so proud, as a civilian, to enter China's own space station and contribute to research projects.

Commander Jing also expressed his long-lasting passion for his career. "The pursuit of dreams knows no end. In fact, the success of each mission heralds the start of the next."

"Chinese astronauts have been advancing steadily, step by step, and will explore with greater courage and wisdom to realize even bigger dreams," he said.

## LIFE

he significance of stars in Chinese cul-ture dates back thou-sands of years. From est known star catalogs I by astronomers Gan the earliest known star catalogs compiled by astronomers Gan De and Shi Shen in the 44th century BC, to the modern-day Shenzhou XVI space flight, the mysteries of the heavens have held a particular fascination for the people of China, and that enduring celestial appeal has been reaffirmed by the recent Astronomy Photographer of the Year 15 competition, held by London's Royal Observatory Greenwich.

Greenwich.
The 15th staging of the competition attracted more than 4,000 images from photographers in 64 countries. Chinese entrants performed well, with An Jiu's Grand Cosmic Fireworks winning the Skyscapes category, and Liang Weitang's image, *The Eyes Galaxies*, finishing as runner-up in the Galaxies class.

But it was in the Young Photographer category that China's photographic stars shone the brightest, providing the winner, runner-up, and two of the three highly commended entries.

runner-up, and two of the three highly commended entries.

"Every year in the competition, we're going from strength to strength, and we learn a bit more, with the next year pushing our knowledge even further," asys Ed Bloomer, public astronomy manager at the Royal Observatory.

"We have increasing numbers of entrants, and also an increasing number of entries, as each person can enter up to 10 photos, and in 2023, China had the seperation of the property of the separation of tion Centaurus, which is 100 light-years across and known as the Running Chicken Nebula, which was the title of their

One thing that may surprise people who see their contribu-tion in the exhibition of prize winners on display at the observ-atory in southeast London and and in southeast London and online is that the entry by two teenagers in China is recorded as having been taken thousands of kilometers away in Chile. ters away in Chile.

### Gold standard picture

Gold standard picture
"Loss of astro photographers
at this level like to travel a lot, gos
to certain places to get the step
thotos, and if they can't do that,
as was the case during the pandemic, they may be using robotic
scopes in another country, which
is what these two did," Bloomer
explains, pointing out that artistip judgment is still needed to
come up with such a striking
image.

come up with such a striking image.
"You still have to collect the data and process it to make aesthetic choices. The Running Chicken Nebula had a lovely balance of colors, and a lot of the fine detail is very clear. Their image lets an extroorer see image lets an astronomer see what's going on, and it's also very beautiful in its composition. So there wasn't much debate, we put it through to the shortlist very quickly.

very quickly.

"Choosing winners takes a long time, and we make sure we have a variety of judges, from all kinds of backgrounds, so we get a broad range of opinions and look very carefully.

"We are your carefully.

"We are very careful when shortlisting. We discuss and dis-

shortlisting. We discuss and dis-agree, and we have to convince one another of a picture's merits, so it can take a long time. But this was a gold standard picture. "If it was taken by someone much older and more experi-enced, it would still be a fantastic image. The fact it's someone younger is deeply impressive, so it scored highly across the board."

board."

Bloomer says the variety of subjects chosen for entries, and the multiplicity of ways they could be presented, made for fascinating viewing for the judges. "Something like the Orion nebula is very popular for beginner photographers because it's













n Jiu's Grand Cosmic Fireworks is the Skyscapes category winner. 2: Roses Blooming in the Dark, by Mo Yanhao, is highly commended. The Running Chicken Nebula. by Xu Runwei and Wang Binyu, is the Young Photographer category winner. 4: Sun Haohan's Moon at spiriall'is also highly commended. 5: Liang Weitang's The Eyes Galaxies is the runner-up in the Galaxies category 6: Blue Spirit Drifting in Clouds by II Haocheng and Xu Runwei, is the runner-up in the Young Photographer category. PHOTOS PROVINGED TO CHINA DALLY

bright, it's colorful, and there's a lot going on, and then your choice of equipment and filter mean you can get all sorts of dif-ferent looks from the same kit,"

retent roots from the same La-he says.

"As well as pictures of perma-nent features, there are lots of things that are transient or sea-sonal, like the glimpse of a com-et passing, an eclipse, or planetary conjunction — we're very fortunate that there is so much material. Winner in 2022 was the trail of a comet that was destroyed by its close passage to the sun, so that was the only year that those images could be captured.

"One of the things about the entries from China, which did so well, was how different they all were. Something like the Pleiades constellation is easy to point out when people are doing naked-eye stargazing, but the image and detail of its cloud structures that were captured in the image Blue Spirit Drifting in the Clouds is amazing."

#### Fascination with space

An Jiu says she had long been fascinated by the heavens but only began to photograph them

and the control of th

phy:

Her winning actophologic
Her winning entry was one of
nine she submitted for the competition.

"It was taken in the Himalaya
Mountains in Tibet autonomous
region, at about 5,000 meters,
with the altitude and lack of light
pollution letting me capture distant blenomena." tant phenomena." Astrophotography, she

Astrophotography, she says, "makes us realize even more that the Earth has no borders, only land and oceans. What I enjoy most about it is the ability to transcend time and freeze moments."

The Royal Observatory Green-wich was founded in 1675 and is home to the Prime Meridian, as swell as baine propertied as part

well as being recognized as part of the wider Maritime Green-wich World Heritage Site by UNESCO. NESCO. Its historic buildings are fre

Its historic buildings are frequently used as a location for major movie productions, and, each year, the stee welcomes around 2.5 million visitors, as well as hosting Chinese New Year celebrations. And last fall, the Royal Observatory hosted two live events celebrating the history of Chinese stronomy.

Bloomer says the observatory "wants to make sure, year after year, that we're home to the best competition," and the levels of entrant interest were a cause for optimism.

optimism.

"It's heartening to see young people enter, then move into the main competition. That's why we have a young category, to ensure that there is a pipeline of people and that they feel welcome," he says.

"The astronomy photography

The astronomy photography community is a pretty suppor-tive one. People are genuinely interested in what one another do, so there's a generous spirit of communication and coopera-tion. The sharing of ideas seems to be part of the activity at this

This year's competition is launched in January. In the meantime, last year's winning entries can be viewed in person at Greenwich and also online

"On the website you can see last year's winners as well as those from years gone by, and there are lots of other resources, there are lots of other resources, but we really want people to come to the gallery and see the pictures," says Bloomer. "Even on the screen, they look amazing, but when you see them shown on light boxes, they make the gallery a beautiful place to walk through."

Details of activities at the Royal Museums Greenwich, including the exhibition and Chinese astronomy events, can be found at <a href="https://www.rmg.co.uk/">https://www.rmg.co.uk/</a>.

Contact the writer at