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w members (from left) Tang Shengjie, Tang Hongbo and Jiang Xinlin take part in a simulation training for the Shenz

Shenzhou XVII crew confident

Mission scheduled to launch from Jiuquan site in Gobi Desert on Thursday

By ZHAO LEI zhaolei@chinadailu.com.cn

The crew members of the Shenzhou XVII space mission have spo-ken of their intense training, preparedness and confidence ahead of Thursday's scheduled launch from the Jiuquan Satellite Launch Center in northwestern China's Gobi Desert

the Jiuquan Satellite Launch Center in northwestern China's Gob Desert. Speaking to the media on Wednesday, Senior Colonel Tang Hongbo, commander of the Shen-bou XVII mission, told reporters that as his team will be only the second crew to stay inside the Tiangong space station after it was completed at the end of last year, they are tasked with conducting a large number of scientific experiments and technological tests. "Hard training on the ground is the only way for the success of our mission in space. To prepare for our tasks, we have spared no efforts to study theories, practical procedures and maneuvers, and improve our skills.

"We've focused on science and technology tasks in fields such as space-based materials research, fun-damental physics in a microgravity environment, and life science and

biotechnology," he said. The crew members have spent a lot of time and energy familiarizing

The Shenzhou XVII mission's three crew members

Tang Hongbo
Senior Colonel Tang Hongbo, 47, a
nathe of Hunan province, joined a
People's Liberation Army Air Force
flight school in September 1995 and
was assigned to a fighter jet regiment
after graduation.
He became a first-grade pilot at the
combat unit and was gradually promoted to the post of group commasside.

mander. In May 2010, Tang was selected as a member of the second group of astronauts for the PLA Astronaut Divi astronauts for the PLA Astronauts ision and six years later he was a reserve for the two-member crew the Shenzhou XI mission. He made his first journey into space in June 2021 on the three-month Shenzhou XII mission,

becoming one of the first inhabitants of China's Tiangong space station. In November 2021, he was given

the honorary title "Heroic Astronaut and awarded the Third-grade Space Service Medal. Tang, a first-grade astronaut, is the nder of the She mission comman XVII spaceflight.

Tang Shengjle
Lieutenant Colonel Tang Shengile
33, a nather of Gansu province; Joined
the PLA Air Force in September 2008.
He was a first-grade pilot and
squadron commander at an Air Force
fighter jet brigade before being selected as one of the PLA Astronaut Division's third group of astronauts in
September 2020.

He is now a fourth-grade astronaut.

Jiang X inlin
Lieutenant Colonel Jiang Xinlin, 35, a native of Henan province, enlisted in the PLA Ground Force as a cadet in September 2006.

After graduation, he was selected by the PLA Air Force for fighter jet

training.

Before joining the PLA Astronaut
Division in September 2020 as one Betore Johning the PLA Astronaut Division in September 2020 as one of the third generation of Chinese astro-nauts, he was a first-grade pilot and deputy group commander of an Air Force fighter jet brigade. Jiang is now a fourth-grade astro-

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themselves with space station management, spacewalk and healthcare skills, especially procedures involved in emergency response and handling malfunctions, according to the mission commander. "It is in consideration of the fact that there are always risks and hazards in space, which requires astronauts to be able to take measures in a rapid, accurate manner," Tang explained.

The senior colonel added that during the bast two vears since he

ring the past two years since he returned from the three-month Shertzhou XII mission, he has raced against the clock to learn new knowl-

edge and hone his skills to be ready for his next flight.

"As mission commander, I am responsible for making this flight successful. I have the confidence, determination and ability to work with my two colleagues to complete our mission," he noted.

Lieutenant Colonel Jiang Xinlin, who will fly with Tang, told reporters that he and his tearmnates have been exposed to a professional training system with experienced trainers and well-designed facilities.

and well-designed facilities.
"The training is safe and efficient and has turned me from a fighter jet aviator into an astronaut," he said.

In this coming mission, each of us has our own assignments, and we will also share each other's work because as a team, we have the same goal—the mission's success." Lieutenant Colonel Tang Shengjie, another crew member, said he comes from the northwestern province of Gansu, home to the ancient legend of faires flying in the heavens, and he's always wished to fly high.

I will get used to the weightless environment in space, follow instructions from the mission commander, and use my best skills to

mander, and use my best skills to work with my colleagues to fulfill my duties," he said.

12th crewed mission to focus on space debris

By ZHAO LEI By ZHAO LEI at Jiuquan Satellite Launch Center zhaolei@chinadailu.com.cn

China will launch its 12th manned spaceflight, the Shenzhou XVII, on Thursday morning to transport a three-member crew to the Tiangong space station, accord-ing to the China Manned Space

Agency.

The spacecraft — with mission commander Senior Colonel Tang commander Senior Colonel Tang Hongbo, Lieutenant Colonel Tang Shengjie and Lieutenant Colonel Jiang Xinlin on board — is sched-uled to be lifted by a Long March 2F carrier rocket at 11:14 am from the Jiuquan Satellite Launch Center in

Jiuquan Satellite Launch Center in movement China Goli Desert, said Lin Niglang deputy director of the space agency, at a news conference on Wednesday. "After the spacecraft enters its prest orbital position, it will activate the rapid rendezous-docking mode and take about six and a halfbours to approach and connect with the front

said.

The Tiangong space station, orbiting about 400 kilometers above Earth, has three major components — the Tianhe core module and the Wentian and Mengtian science has modules it, is currently ence lab modules. It is currently connected with visiting Shenzhou XVI crew ship and the Tianzhou 6 cargo ship, and is one of the largest and most sophisticated space sta-tions ever placed in orbit.

The Shenzhou XVII team will

take over Tiangong from the Shen zhou XVI crew, comprising mission commander Major General Jing Haipeng, Colonel Zhu Yangzhu and ssor Gui Haichao, who arrived at the space station on May 30. The two teams will be stationed together for about four days for hand ork, after which the Shenzhou

XVI crew will fly back to Earth.
The Shenzhou XVII astronauts are scheduled to stay inside Tian gong for around six months and return to Earth around April. Their tasks will include carrying out sci tasks will include carrying out sci-entific experiments and technolog-ical demonstrations, conducting spacewalks to install equipment and maintain the massive orbital and maintain the massive orbital outpost, checking the space sta-tion's operational performance and obtaining relevant data, and helping to review the support capabilities of ground facilities, Lin said. and maintain the mas

In addition to these routine tasks In addition to these routine tasks, there will be a new assignment for the Shenzhou XVII crew members — they will perform experimental repairing operations during spacewalks, the official said.

"As the amount of space debris keeps rising, it is inevitable for any long-awarking space station to be bit

long-working space station to be hit by small or micro debris. We have found that the solar arrays on Tian-gong have been slightly damaged

by debris," he said. Lin said that such scenario was taken into account when plans for the Tiangong project were made, and the space station is still in good

condition.
"However, to ensure Tiangong's long-term operation and to verify our technical capabilities, we have arranged the Shenzhou XVII crew to make experimental repairing operations during their extravehic-ular activities, which will be very challenging," he added.

If such experimental maneuvers are successful, they will mark a signif-icant advance in China's capability to make and support spacewalk, Lin

Tang, the Shenzhou XVII mission commander, is one of the nation's second-generation astronauts. He

Our projects are meant to enrich human knowledge about the universe expand the range of human presence and activities, and push forward the sustainable development of civilizations."

Lin Xiqiang, deputy director of the space agency

is set to become the first Chinese astronaut making two spacelights astronaut making two spacelights atthin the shortest interval. Tang's first space Journey was on the three-month-long Sherzbou XII mission, which concluded two years and one month ago. He will also be the first astronaut to return to Tangong. Tang Shengjie and Jiang are from China's third generation of astronauts and the Sherzbou XVII mission will be their first Journey to the Earth's ortik. With an average age of 38, the three-member team will be they youngest Chinese crew in space. Speaking about the next steps in the Tangong program, Lin said is set to become the first Chinese

the Tiangong program, Lin said that China will deploy a large space telescope in the near future to fly alongside the space station, and it also plans to launch more science modules to connect with the sta-

China is open to international cooperation and communication in regard with the space station, ran-ging from joint flights to payload velopment, Lin said.

evelopment, Lin said. "We would like to invite all countries and regions dedicated to the peaceful use of outer space to work peaceful use of outer space to work with us in the Thangong program," he said, adding that China will also invite foreign astronauts to take part in its manned tlunar expeditions. The country's manned space program has always been of a peaceful nature and China has never sought

gram has always been of a peacethin nature and China has never sought respace hegemony, according to Lin. He said the country's manned space program is an important part of mankind's exploration and use of outer space, and is totally intended for peaceful purposes. "Our projects are meant to enrich human knowledge about the universe, expand the range of human presence and activities, and push forward the sustainable development of civilizations, be said.

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Lin made the remarks when responding to a question on China's plans as the United States-led International Space Station is expected to retire around 2030.

Since the Chinese program's establishment in 1992, it has grown based on predetermined strategies and plans, and has gradually led to the completion of the Tiangong space station, the official said.

"Over this course, we have never pursued 'space hegemony' and have rather consistently upheld the peaceful use of outer space," Lin

When China's first astronaut When China's first astronaut Yang Liwei reached orbit, he greet-ed people around the world and wrote in his work log that "the Chi-nese people have now entered outer space for the peace and advance-ment of mankind", Lin said. "Yang also held a United Nations flag, making China the first country to carry a UN flag in its first manned mission," he added.

Astronaut selection includes HK, Macao candidates

By ZHAO LEI

at Jiuquan Satellite Launch Center

More than 20 candidates have been shortlisted for the final round of selection for the nation's fourth generation of astronauts, including sev-eral from the Hong Kong and Macao

eral from the Hong Kong and Macao special administrative regions, according to a space official. Lin Xiqiang, deputy director of the China Manned Space Agency, said at a news conference on Wednesday at the Juquan Satellite Latunch Center, that the candidates include members of

the military, researchers and engineers and they will compete for up to 14 places at the Astronaut Center of China

The final selection process is scheduled to be finished before the end of this year, he added. China started selecting the coun-

China started selecting the coun-try's fourth generation of astronauts in October last year. Experts will pick 12 to 14 candi-dates for the new generation of astro-nauts. Among them, seven to eight will be pilots, three to four will be spaceflight engineers and two will be

science payload specialists.

The spacecraft pilots will be cho-sen from aviators now serving in the Chinese armed forces. The spaceflight engineers will be selected from researchers and technicians in aero-space or related industries. The sci-ence payload specialists will be chosen from scientists working on space science and technology, according to Lin's agency. The selection of the fourth genera-tion is the first time that people from Hong Kong and Macao bave had an opportunity to Join the country's researchers and technicians in aero

astronaut group

astronaut group.

"Several from Hong Kong and
Macao have entered the final round
for the posts of science payload specialists, and if some of them could
pass that round, they will be sent to
the Astronaut Center of China at the beginning of 2024 to start their train

beginning of 20024 to start their train-ing." Lin said.
Generally speaking, an astronaut will be cleared for his or her first space-flight after about two and-a-half years of training, but that is subject to mis-sion plans and developments, accord-ing to the official.



Crew members of Shenzhou XVII - mission commander Senior Colonel Tang Hongbo (center), Lieutenant Colonel Jiang Xinlin (left) and Lieutenant Colonel Tang Shengjie — meet with the media at Jiuquan Satellite Launch Center on Wednesday. ZHU