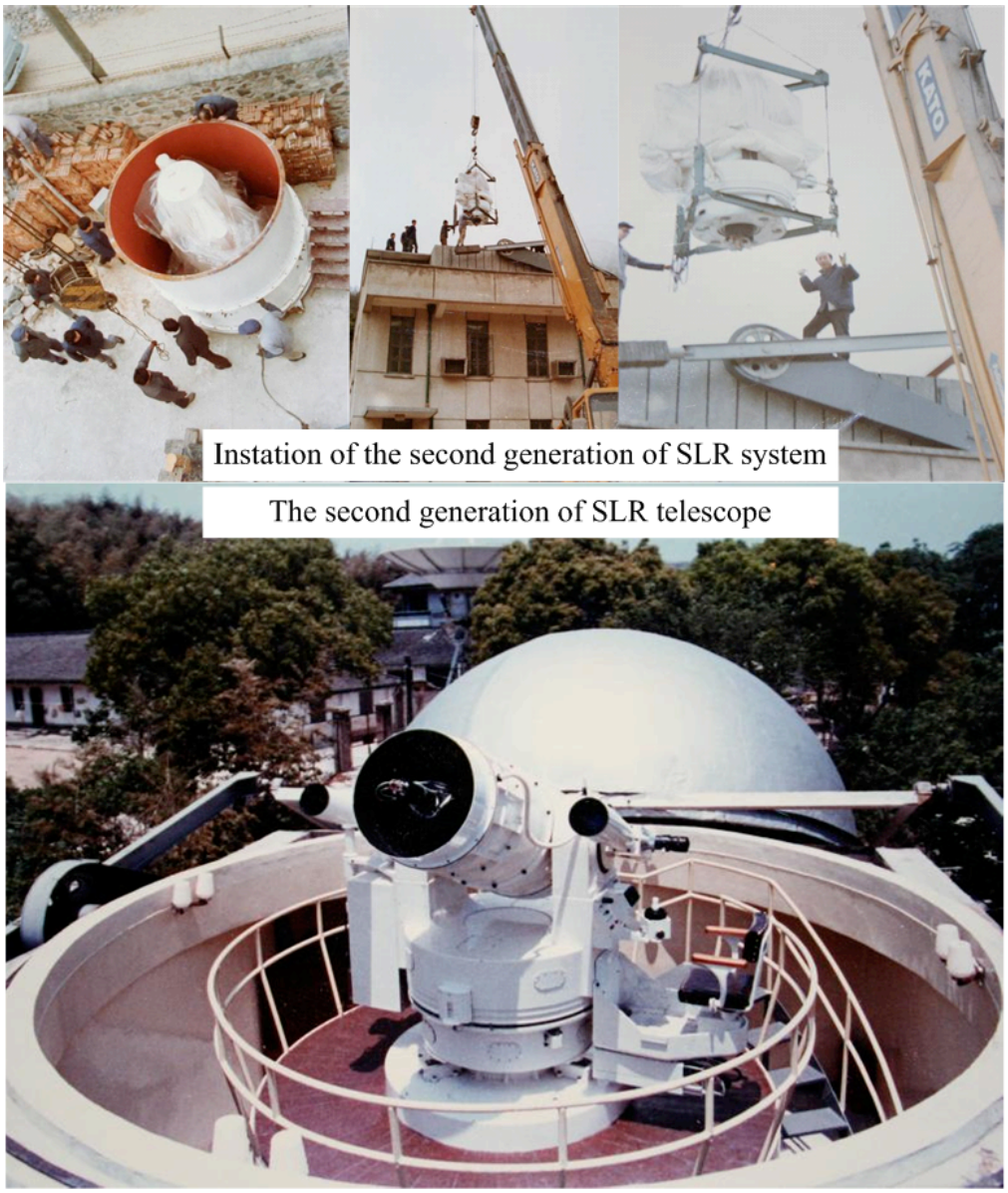
Chinese Network

1. 1971-1972: The first generation of SLR system in China with the aperture of 300mm receiving telescope and ruby laser system installed on the telescope had been established at the top of Seshan hill about 30km away from Shanghai City and could measure to satellites within the distance 2,000km with the measuring precision of 1-2m.

The first generation of SLR system in Shanghai SLR station

2. 1983: The second generation of SLR system with the aperture of 600mm receiving telescope and the laser system with Nd:YAG and locked mode had been built at the foot of Seshan hill and the LAGEOS satellite could be measured with precision of ~ 15cm.



The second generation of SLR system in Shanghai SLR station

3. 1989: The Chinese SLR network was formed, including Shanghai SLR site, Changchun SLR site, Wuhan SLR site, and Beijing SLR site and the coordinator of SLR network is Shanghai Astronomical Observatory. Up to now there are seven SLR sites in the Chinese SLR network.

The Chinese SLR network

4. 1994: Establishment of friendship between Shanghai SLR station and Graz SLR station and bilateral technical communion of SLR technology has been performed.

Photo of Yang and Georg

5. 1996: The 10th International Workshop on Laser Ranging was successfully held at Shanghai and Prof. Yang Fumin was selected to be the chairman of Workshop Committee.

Photo of 10th International Workshop on Laser Ranging in Shanghai

Photo of Yang and Mike

Photo of Yang and international friends

6. 2005: Shifting Shanghai SLR site from the foot to top of Sheshan hill to increase ability of laser measurement to satellites by improving infrastructure conditions of SLR station. The new site ID is changed from 7837 to 7821.

The new site of Shanghai SLR station

7. 2011: Prof. Yang Fumin, the initiator of Chinese SLR technology and founder of Shanghai SLR station, passed away on Feb.9, 2011 due to illness.

8. 2008: The laser measurement to space debris was successfully performed for the first time at Shanghai SLR station in July 2008 in China. Through further investigating the measuring techniques, the routine laser measurement to space debris with high success rate is realized.

9. Through developing 10kHz RGG, fast data processing software and applying the 10kHz laser system made by the Chinese institute, the laser measurements to ILRS satellites were firstly implemented at Shanghai SLR station in 2013 in China.

10. For taking advantage of high receiving ability of 1.56m astronomical telescope nearby Shanghai SLR station, the laser measurements to space targets with the dual-receiving telescopes have been performed in 2013 and laser returns are increased obviously and the experimental platform of laser measurement to space debris with large aperture telescope at Shanghai SLR station have been established to observe space debris with far distance and small size.

The measuring system based on the 60cm SLR system and 1.56m astronomical telescope with the distance of about 50m

11. Member of Shanghai SLR station

Photo of members of Shanghai SLR station