

2nd Technology Forum **on Student Micro/nano-satellites**

22 - 24 MAR 2019

HARBIN INSTITUTE OF TECHNOLOGY
HARBIN, CHINA



哈爾濱工業大學
HARBIN INSTITUTE OF TECHNOLOGY



LILACWORKS

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Under the traction of technology progress and market demand, various types of micro/nano-satellite systems have been widely developed all over the world. Colleges and universities act as an important driving force of micro/nano satellite technology in the past years. Furthermore, satellite projects play a significant role in scientific research and student cultivation of colleges and universities.

To sum up fruitful achievement, promote extensive communication and make progress together, Harbin Institute of Technology is scheduled to host a technology forum on student micro/nano-satellites on 22-24, Mar, 2019. The forum committee sincerely invites you to be present in the forum.

Topics

- Design, AIT, launch and operation technology of micro/nano-satellites;
- Lessons learnt and achievements during the development and operation of micro/nano-satellites.
- New applications and developing trends of micro/nano-satellites;
- Research and development on deep space exploration of micro/nano-satellites;
- Engineering management and student education involved in micro/nano-satellite developments, etc.

Contact Information

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- Conference E-mail hit_lilacsat@163.com

Report Collection

An oral report, poster or model display is supposed to be given by every representative to the conference. An abstract (less than 500 words) should be sent to the conference E-mail before 5th, January, 2019. Every oral report is provided within 20 minutes, including 15 minutes for report and 5 minutes for questions and discussion.

Remarks

- Domestic representatives to the conference should own travel and accommodation expenses. Excellent **international students** can apply for **travel support fund** (refer to Attachment 1).
- Representatives to the conference need to send the registration form (refer to Attachment 2) to the conference E-mail before 5th, January, 2019.

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About HIT

Harbin Institute of Technology (HIT) was founded in 1920. It is a research university in China which is a member of China's elite and a member of the C9 League. HIT has three campuses, spanning the country from north to south: the Harbin campus in Heilongjiang Province, the Weihai campus in Shandong Province and the Shenzhen campus in Guangdong Province.

After nearly 100 years, HIT has developed into a large nationally renowned multi-disciplinary university with science, engineering and research as its core. HIT has served in Chinese space programs since 1950s.

HIT is famous for its original style of schooling: 'Being strict in qualifications for graduates; making every endeavor in educating students.'



About Harbin

Harbin is the capital and largest city of Heilongjiang province in the northeastern region of the People's Republic of China. Harbin is the eighth most populous Chinese city and the most populous city in Northeast China. According to the 2010 census, the built-up area had 5,282,093 inhabitants, while the total population of the city was up to 10,635,971. Harbin serves as a key political, economic, scientific, cultural, and communication hub in Northeast China, as well as an important industrial base of the nation.

Having the most bitterly cold winters among major Chinese cities, Harbin is heralded as the Ice City for its well-known winter tourism and recreations. Harbin is notable for its beautiful ice sculpture festival in winter. Besides being well known for its historical Russian legacy, the city serves as an important gateway in Sino-Russian trade today, containing a sizable population of Russian diaspora. The city has been voted "China Top Tourist City" by China National Tourism Administration in 2004. On 22 June 2010, Harbin was appointed a "City of Music" by the UN.



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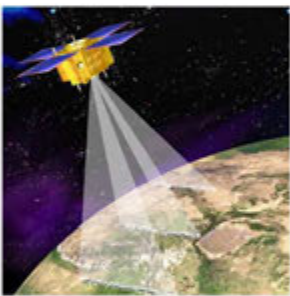


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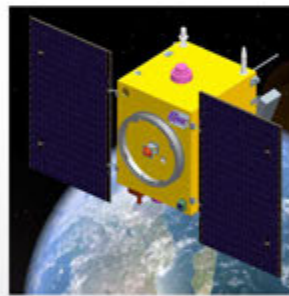
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Satellite Projects of HIT



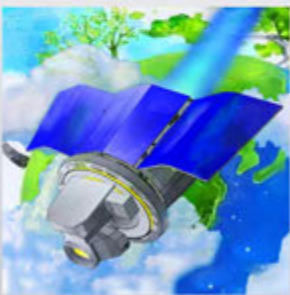
SY-1

- Mass: 204 kg
- Payload: 3-linear tridimensional mapping camera
- Launch Date: 18 Apr. 2004
- First satellite developed by a Chinese university



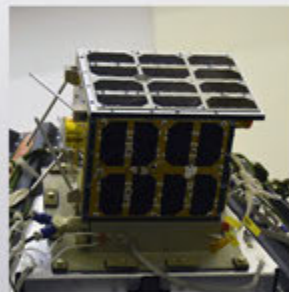
SY-3

- Mass: 248 kg
- Monitoring of space weather
- Testbed for new payloads and equipments
- Launch Date: 5 Nov. 2008



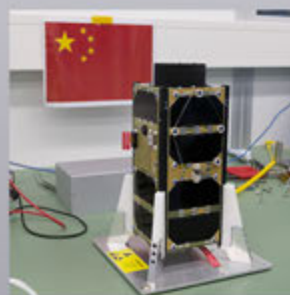
KZ-1/2

- Mass: 450 kg
- Payload: high resolution panchromatic camera
- Launch Date: 25 Sep. 2013/
21 Nov. 2014
- Quick-reaction
- Chinese satellite resolution record breaker



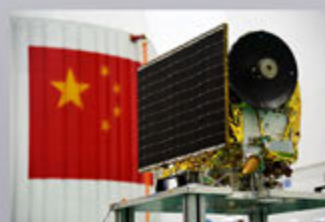
LilacSat-2

- Mass: 12.5 kg
- Payloads: IR Camera, FPGA s/w test platform, amateur repeater, broad-band RX
- Launch Date: 20 Sep. 2015
- First Chinese satellite project led by students



LilacSat-1

- Mass: 2 kg
- Payloads: INMS, amateur repeater, CMOS camera
- Launch Date: 26 May. 2017
- Part of QB50



Longjiang-2

- Mass: 47 kg
- Payloads: Low frequency radio astronomy, Saudi optical camera, UV Communication test module, Screen CMOS camera
- Launch Date: 21 May. 2018
- First MicroSat independently maneuvering to lunar orbit



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