

CHINA'S BOOSTER CAPABILITY

By Manuel Cereijo

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The Chinese have the space capabilities of the most advanced industrialized countries. They build and launch long-range missiles, put satellites in orbit, and, as of late 2000, plan a national strategy for manned space flight. China has been able to, according to intelligent sources, leap-frogged years of R&D by spying on the United States.

What are stolen secrets good for? Understanding their value helps in developing an appropriate response. The most obvious value is to apply what has been learned directly to one's own programs. From knowledge of a competitor's technology can flow accurate assessment of the capabilities it opens up and hence insight into the competitor's intentions.

Espionage is not a phantom menace or a paranoid fantasy. Following the collapse of the USSR in 1991, it was confirmed that, from the 1940s on, the Soviets stole U.S. nuclear and aerospace secrets, and made significant use of the material. Presently, Russia has in Cuba, among other bases in other countries, the Lourdes electronic espionage base. China operates from Cuba, in conjunction with the Cubans, the Bejucal electronic espionage base. This is a base built by Russia for the Cubans, and finished in 1997.

There is nothing backward about Chinese capabilities when it comes to missile and space technology. In terms of missile weapons, China developed an ICBM called the Dong-Feng 5 in the 70s. In power is equivalent to a U.S. Titan or Atlas missile. The two stage missile has a range of about 12,000 kms. And carries a single 3 megaton warhead. These missiles are being replaced with newer models with greater range and accuracy.

Still more advanced ICBMs are under development. Missiles are kept in tunnels and employ other so-called survivability enhancements so they can resist surprise attacks, nuclear or conventional. The Dong-Feng-5 is also the basis of the Chinese space launch family, the Chang-Zheng-2 (Long March) and its derivatives. China has converted an ICBM base at Taiyuan, southwest of Beijing, into a satellite launching center. China is only the third country in the world to operate recoverable satellites, which can bring photographic film and experimental specimens back to earth.

The first satellite to be launched on Earth in the 21st century was a test

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Hollinger
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Hoover Institution
Human Intelligence
HUMINT ICANN
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Igor Rodionov
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information warfare
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Tel In-Q-Tel
Interface Center
International Sikh
Youth Federation
Internet Corporation
for Assigned Names
and Numbers
Investigative Group
International IRA
Isaac Cohen Isaac
Levi Islamic Army
of Aden Islamic
Jihad Islamic Jihad
Israeli Defense
Forces Israeli
Division 5 Izz el-
Din al-Qassam
Brigades Jaish-e-
Mohammed Jiang
Zemin JIMAD John
Gannon John
Hopkins University
John Jay College
Joint Program
Office for
Biological Defense
Joint Service
Chemical Biological
Information
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Joint Strike Fighter
Joint Vaccine
Acquisition
Program Jose Cause
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Kuattab Kurdistan
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Larry Press
Lashkar-e-Taiba
Lassa fever
Lawrence
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Laboratory Lev
Telegin Li Hongzhi
Li Ka-Shing Li
Peng Liberation
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Congress Los
Alamos Nuclear
Weapons Lab Los
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Main Intelligence
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Marburg Marine
Corps Response

Asymmetric
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Babbar Khalsa
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Patrick Bill
Richardson
Biohazard
Biological
Integrated
Detection System
Biopreparat
Biosafety
Bioweaponer
Bioweapons Bluff
Arsenal Bonfire
Boron
Botulinum Brent
Scrowcroft
Brucellosis
Cadmium
Caribbean
Radiation Early
Warning Systems
Carnegie Moscow
Center Carnivore
CBIAC
(Chemical
Warfare/Chemical
Biological
Defense
(CW/CBD)
Information
Analysis Center)
CBIRF CCBS
CDC Cellular
Immunity Council
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Coordination
Center Center for
Civilian
Biodefense
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of the Shenzhou-2 unmanned spaceship on January 9, 2001. China expects to launch up to 10 space vehicles this year, nearly twice its annual rate of the 1990s. China will likely seek space technology "shortcuts" where they can be found, and to develop them domestically when needed.

Here lies the importance of the every day closer ties between Cuba and China, and the growing scientific and military Chinese presence in Cuba.

END

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Guaracabuya
Organo Oficial de la
Sociedad Económica de Amigos del País

Force Marine
general Charles
Wilhelm MASINT
Mass casualty
weapons
Measurement and
Signature
Intelligence Media
Most Mediasnap
Medical Chemical
and Biological
Defense
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MEMS Menwith
Hill Michael
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electromechanical
systems Mikhail
Kasvanov Mikhail
Kofesnik MINREX
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Molecular biology
Mosaic Group
Muons Mustafa
Laosi Myelin toxin
NASA X-43
National Center for
Infectious Disease
National Foreign
Intelligence
Program National
Intelligence Council
National
Photographic
Interpretation
Center National
Security Adviser
NCID NEST
netFraser Network
Security Solutions
NEFP Nicolai
Leonov Nikitor
Vasiliev Nikolai
Petrov Nikolai
Stolyrov Nikolai
Urakov NIPC NSS
NTT NTV Nuclear
Emergency Search
Team Obolensk
Oleg Ignatiev Open
Source Intelligence
Osama bin Laden
OSI OSINT OSS Inc
Oswaldo Sanchez
Cabrera Palestinian
Islamic Jihad
Pasechnik
Pathogenic agents
Pathogeneb
Countermeasures
program Patrick
Kelley Paul D.
Wolfowitz PC-SPPS
People's Mujahideen
Peptides PGIS
Pinkerton Global
Intelligence Services
PKK Plum Island
Program for
monitoring
Emerging Diseases
Program Manager
for Chemical
Demilitarization
PROMED Q fever
QIC Radiation
poisoning Radio
Electronic Station
Cuba Ramon Garcia
Rand Corp RASP
Rem Petrov
Revolutionary
Peoples' Liberation
Party-Front Richard
Clarke Richard
Falkenrath
Rickettsiae Robert
Castelli Robert
Phillip Hansen
Robert Steele