

## **Seminar on US - China Cyber-Relations**

**Saturday, March 22, 2014 10 am - 5 pm** (hour for lunch)

**Cost: Free**

**Location: Emory University**

**Speaker: Dr. William Abbott Foster, PhD**

The Internet has deeply interconnected two extremely different countries--the US and China, but in many ways each country and its citizens are an enigma to the other. William Abbott Foster, PHD is an Adjunct Professor at Emory University Goizueta Business School, In 1996, the Office of the Secretary of Defense commissioned University of Arizona to evaluate the impact of the Internet.

In this seminar, Dr. Foster will report on the results of his 15 years of research into US-China cyber-relations and his recommendations to Administration. He strongly believes that it is essential to view the current US-China cyber relationship in the context of the interaction over the past 25 years of the technical, cultural, and bureaucratic dimensions of the Internet (telecom) in China.

### **What are the key events in the Internet in China that everyone should know?**

- The US National Science Foundation authorizes and funds Internet connection to Chinese Academy of Science in 1994 building on X.25 connection.
- Strong commitment beginning in early 1990s to the informatization of China with the goal of leapfrogging the West.
- State Council authorizes four government owned Interconnecting networks to the global Internet (1996).
- PLA banned from offering Internet service (1996)
- Ministry of Post and Telecommunications and Ministry of Electronic Industries merged. (1998)
- Premier Zhu Rhongzi perseveres in having a competition by Chinese telecom manufactures to supply the buildout of 4 national Voice over IP networks (1998).
- China Netcom creates paradigm shift by deploying DWDM nationally on fiber and drastically driving down the cost of bandwidth (1998).
- Taiwanese Ministry of Economic Affairs forces and funds implementation of Rosettanet inter-company automation based on XML by computer OEMs (2004).
- Chinese government promotes TD-SCDMA as China`s 3G standard (2006).
- Taiwanese OEM's move to Shanghai along with 1000s of suppliers (2006)

- China replaces Cisco routers at its Internet international gateways with Huawei equipment (2008)
- Huawei becomes the technology of choice for most African and Middle Eastern Countries (2009)
- Huawei's Multi-Mode technology allows telecom companies to support legacy and a variety of possible 3 and 4G protocols out of one box.
- World standardizes on LTE for 4G (2013). Huawei world's largest telecom company. Will Huawei's margins crash as multiple Chinese companies enter the standardized telcom sector (2014)?

### **Is there a cyberwar going on between the US and China?**

Though totally not covered by the US media, Dr. Foster will discuss whether there is a cyberwar going on between the US and China and how dangerous is it for the planet. It is critical that President Obama understand whether the Chinese people and their leadership are becoming more "militantly nationalistic" because of the Internet or are they becoming committed to planetary sustainability and "universal values" and what he can do to promote the latter?

### **The roots of Chinese cyber-espionage**

One of the negative of the Internet to US military planners is that it has allowed idealistic hackers--graduates of China's top engineering schools--to penetrate most of the US Defense industrial base. We will provide a detailed history of Chinese cyber-espionage against Lockheed (F-35) and Raytheon (Space Direct Energy Weapons) and a wide variety of other military and defense industrial targets. When President Obama and Xi met last year, the Administration was intent on getting China to admit it was a cyber-thief and agree to negotiations to stop espionage. Up to this point, the Chinese believe that they are certainly in their rights as a nation to take military technologies that they can use to put an end to American imperialism in the Pacific.

### **Can Social Media Provide us insights in to Chinese and US intentions in the Pacific?**

We will do use as a case study about whether social media can be used by the US to understand the Chinese people, the PLA, the Chinese Communist Party, and the elite leadership feel about Obama's pivot to the Pacific and how do they interpret why he did it? Do the Chinese recognize Obama's desperate gamble to save the Nuclear Non-proliferation treaty by reassuring Japan, South Korea, Taiwan, and the Philippines of US "extended deterrence"?

### **Recommendations to President Obama on areas for cooperation in informatics with China:**

- Global Financial Security?  
Can President Obama, President Xi, and President Putin implement world financial cybersecurity while all are engaged in cyberwar?

- US-China cooperation on Climate Change?  
How can US and China collaborate on global climate change and what scenarios can we computationally generate for a negative carbon society?
- US-China cooperation on global health?  
How can US and China collaborate on a global emerging disease surveillance system?

**Conclusion:**

A critical point in US-China relations (A final case study)  
Huawei Technologies, NSA, and the Future of the Internet

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Dr. Foster's resume and all his books and articles are available  
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