



# **AQUAINT: Data and Scenarios**

Richard M. Tong

**12-Month Workshop, Arlington, VA**  
*3 December 2002*



## Overall Objective



- Acquire and/or develop resources that can be used to extend the range of Q/A problems addressed by AQUAINT
- Dimensions of the extension
  - Fixed-domains
  - Intel problems and/or analogs
  - Multiple genre, media and languages
  - Knowledge based



## WMD Nonproliferation/Terrorism



- Initial focus has been Weapons of Mass Destruction (WMD) and issues related to nonproliferation and terrorism
- Acquired a rich, unclassified data resource from the Center for Nonproliferation Studies (CNS) at the Monterey Institute of International Studies (MIIS)
- Held a one-day Workshop at CNS to learn about the CNS analytic methodology and to review two case studies



## CNS Data & Auxiliary Resources



- Available on the NIST/AQUAINT website (password protected):  
<http://www-nlpir.nist.gov/projects/aquaint/>
- General Use Agreement defines terms and conditions under which AQUAINT Program can use the CNS data
- Special conditions attached to the use of the WMD Terrorism Database



## CNS Datasets



- Nuclear Abstracts
- Missile Abstracts
- China Nonproliferation Profile
- NIS Nonproliferation Profile
- CBW Terrorism News Digest
- NIS Nuclear Trafficking Chronology
- North Korea Country Profile
  
- WMD Terrorism Database



## CNS Auxiliary Resources



- WMD Terminology Hierarchy
- WMD Verity Topicset
  
- Chinese-English WMD Glossary
- Russian-English WMD Glossary



# Nuclear Abstracts



Doc. Code : 20477  
Bibliography: LEXIS-NEXIS Academic Universe, 24 June 1981,  
<<http://web.lexis-nexis.com>>  
Headline : Iraq Asserts Arabs Must Acquire Atom Arms as a  
Balance to Israel  
Orig. Source: Associated Press, New York Times, 24 June 1981  
Date : 24 June 1981

## ABSTRACT:

In a recorded speech broadcast on Iraqi radio on 24 June 1981, President Saddam Hussein of Iraq declared, "Regardless of Iraq's intentions and capabilities at present and in the future, any country in the world that seeks peace and security, respects people and does not wish those people to fall under the hegemony or the oppression of external foreign forces should assist the Arabs in one way or another to obtain the nuclear bomb in order to confront Israel's existing bombs. This will realize and achieve peace regardless of Arab aims and capabilities." He said, "no power can stop Iraq from acquiring technological and scientific know-how to serve its national objectives."



# China Nonproliferation Profile



Nuclear Exports and Assistance to Europe and North America - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Home Search Favorites History Print Mail News RSS

Address http://styx/db/china/neurpos.htm Go

**CNS** **China Profiles Database** [Glossaries](#) [Search](#)  
BEIJING [Map](#)

[AC/NP Diplomacy](#) [Nuclear Policy](#) [Nuclear NP](#) [Missile NP](#) [Other A/C Issues](#) [Reference Materials](#)

### China's Nuclear Exports and Assistance to Europe and North America

Although China's primary nuclear trade has been with the developing world, it has also exported some nuclear material, primarily uranium ore, to industrialized Western countries.

*For more in-depth information on open-source reports of Chinese exports and assistance, please consult the CNS Nuclear Abstracts database.*

#### CHINA'S NUCLEAR EXPORTS AND ASSISTANCE TO EUROPE

COUNTRY	REPORTED AREA OF CHINESE NUCLEAR ASSISTANCE
FINLAND	<ul style="list-style-type: none"><li>Natural Uranium (1987)</li></ul>
FRANCE	<ul style="list-style-type: none"><li>Natural Uranium (1986)</li></ul>
(WEST) GERMANY	<ul style="list-style-type: none"><li>Natural Uranium (1986-87)</li></ul>

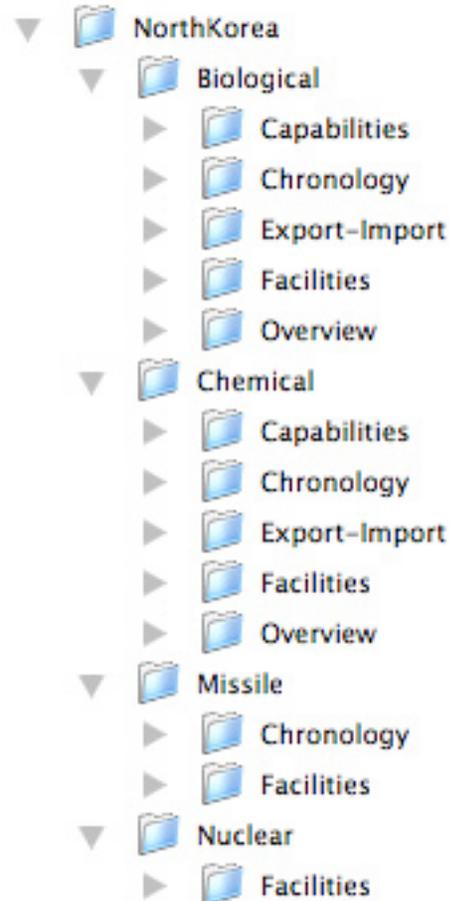
#### CHINA'S NUCLEAR EXPORTS AND ASSISTANCE TO NORTH AMERICA

COUNTRY	REPORTED AREA OF CHINESE NUCLEAR ASSISTANCE
UNITED STATES	<ul style="list-style-type: none"><li>Low-Enriched Uranium (LEU)</li></ul>

Local intranet



# North Korea Country Profile



- Each country profile will follow this structure
- We have the initial North Korea profile, with additional Missile and Nuclear documents to come



# North Korea Chemical Chronology



## North Korea Chemical Chronology: 2001-2002

### 1 January 2001

The South Korean newspaper *Sindong-a* reports that Unit 32, the most secretive element within the DPRK Nuclear and Chemical Defense Bureau, oversees chemical weapons research and production. It is further estimated that chemical warheads for the Nodong-1 are also researched and developed by Unit 32.

—Ch'oe Yong Chae, “US Strategy Pressuring DPRK on Biological, Chemical Weapon,” *Sindong-a* (Seoul) in Korean, 1 January 2001, pp. 300-313, translated in FBIS: KPP20011220000016.

### 18 October 2001

The DPRK claims that Japan, under the pretense of building defenses against chemical warfare, is in fact “making preparations for biological and chemical warfare.”

—“Dangerous Forces of Aggression Attempting to Ignite Fuse of Biochemical War,” Korean Central Broadcasting Station (P'yongyang ), in Korean, 18 Oct 2001, transcribed in FBIS Document KPP20011018000112.



## CNS/AQUAINT WMD Workshop



- Held at CNS on November 12, 2002
- 14 participants from AQUAINT
- Softcopy of workshop materials available at:  
[http://www.tgncorp.com/downloads/cnsWS\\_Materials.zip](http://www.tgncorp.com/downloads/cnsWS_Materials.zip)
- Videotape(s) of the workshop presentations will be available soon



## CNS Case Studies



- “Who was Larry Hall and what was he doing?”
  - A short term task involving a team of analysts
- “What is the status of North Korea’s nuclear and missile programs?”
  - A long term task led by a single senior analyst



# Larry Ford Case Study



## **'Dr. Death' And His Accomplice** (Program Air Date: November 3, 2002)

Dr. Larry Ford was, by most accounts, a mild-mannered gynecologist in Irvine, California, a respected physician with an interest in AIDS research. But after he hired a hitman to try to kill his business partner, and then committed suicide once police were closing in on him, Dr. Ford's double life was revealed.

As soon as the sensational story hit the local news in Southern California, police began receiving warnings that Dr. Ford had guns and C-4 plastic explosives buried in his yard, and he kept dangerous biowarfare germs in his home.

Sure enough, police found the guns, ammunition and explosives when they dug up the yard, and they found cholera, botulinum, salmonella and typhoid in vials in his refrigerator.

[...]

© MMII, CBS Worldwide Inc., All Rights Reserved.



## Larry Ford Sub-Questions



- What biological agents were recovered from Ford's home and storage locker and why is this significant?
- What research was Biofem undertaking?
- What are Biofem's business status and connections?
- How was Ford linked to South Africa's CBW program?
- Was Ford involved in the militia movement?
- Did Ford do anything to cause harm to several ill women?
- What were Ford's links to US military and intelligence agencies?
- Ford claimed he was working on an anti-balding agent called silatrane or salitrane that is mentioned in South African hearings as being a possible toxic agent. What is silatrane?



## DPRK Case Study



A long-term, broadly-based project that addressed several methodological questions regarding:

- Consumers
- Nature of the research question
- Division of labor
- Sources
- Research strategy
- Data problems
- Synthesis of the final analysis



## DPRK Research Sub-Questions



- When did the nuclear (missile) program begin?
- When was the political decision made to implement the program?
- [...]
- What were the motivations behind this decision? (both external and internal)
- Have these motivations changed over time? Why?
- What resources (economic, human, financial, technical, supply sources) were available for the program?
- Was there any foreign assistance? What kind? Technical? Human resources? Financial?
- [...]



## Next 6 Months



- Explore the CNS data and develop a plan for exploiting it
  - Basis for a Fixed-Domain Evaluation Pilot
  - Augment with third-party data
- Continue search for interesting data & resources
  - High-volume  access for AQUAINT
- Continue work on scenario development
  - Focus on fixed-domains
  - Tasks that require understanding of the Q/A process
  - Problems of interest to IC users



# Questions?

