

Monterey Institute of International Studies

Center for Nonproliferation Studies

CNS Open-Source Information Collection
Dr. John W.R. Lepingwell

The Monterey Institute of International Studies

- Private educational institution
- Graduate education to Masters degree
- International emphasis, stress on language training
- 800 students, many foreign students
- Degree programs in:
 - International Policy Studies
 - International Environmental Policy
 - Business Administration (MBA)
 - Translation and Interpretation

The Center for Nonproliferation Studies

- Founded 1989 by Dr. William Potter
 - Expertise in Soviet/Russian Studies
 - Expertise in Nonproliferation Issues
 - Post-1991: Combining both areas to emphasize nonproliferation issues in the former Soviet Union
- Training and Research Center
- 40 Staff members, 50 Graduate Assistants

CNS Mission

The mission of the Center for Nonproliferation Studies is to combat the spread of weapons of mass destruction by training the next generation of nonproliferation specialists and disseminating timely information and analysis

CNS Staff

- 40+ Full-Time Professional Staff (13 Ph.D.s)
- Over 50 Graduate Assistants
- Offices in Washington and Almaty

Fluent in Many Languages

- | | |
|------------|--------------|
| • Arabic | • Korean |
| • Chinese | • Punjabi |
| • Czech | • Portuguese |
| • Farsi | • Russian |
| • French | • Spanish |
| • German | • Swedish |
| • Hebrew | • Turkish |
| • Hindi | • Uzbek |
| • Italian | |
| • Japanese | |

CNS: Diverse Backgrounds

- Government:
 - ACDA, DOE, OTA, Senate Staff, Canadian Foreign Ministry
- Military:
 - Air Force, Navy, Army, Turkish Navy
- Academia:
 - Political Science, Microbiology

What Does CNS Do?

- Training, Databases, Research: A Virtuous Circle
- Training
 - Student coursework is augmented by research work on the databases
- Databases
 - Enhanced by diverse student talents and language abilities
- Research
 - Based upon the rich data-collection system used for the databases

Training the Next Generation of Nonproliferation Experts

- Certificate in Nonproliferation Studies
 - Part of the International Policy Studies program
- Building a network of nonproliferation specialists in the NIS
 - Visiting Fellows Program/Core Group Meetings
 - MEPHI (MIFI) Training Program
 - Assistance to NGOs in the NIS
- Building networks in East Asia
 - Visiting Fellows Program
 - Track 1.5 diplomacy

CNS Research Programs

- International Nuclear and Missile Proliferation
- NIS Nonproliferation Project
- East Asia Nonproliferation Project
- Chemical and Biological Weapons Nonproliferation
- International Organizations and Nonproliferation
- Journal: *The Nonproliferation Review*
- NO classified or secret research

Recent Publications and Conferences

- *The Nonproliferation Review*
 - Published three times per year
- *Nuclear Successor States of the Former Soviet Union (Annual)*
- Washington Intensive Nonproliferation Seminars (WINS)
- Stanford/LLNL/MIIS Conference on Comparative MPCA
- Website publications and information: <http://cns.miis.edu>

CNS and Policy Issues

An independent voice on nonproliferation issues

- Not an advocacy organization: emphasis is on research and training
- Work with US Government and other governments on many issues
- US Government does not dictate CNS views or actions

Why Databases?

- First database created in 1986 to exploit low-cost information technology, untapped open sources of information
- Both technology and sources have grown tremendously over last decade
- Open sources provide some "early warning" indicators
- Inform CNS analyses and provide information to other researchers and policymakers

CNS Database Resources

- Information Collections Branch
 - 2 staff members, 15 students
 - Monitors global information sources
- CRES Library
 - 1 staff member, 12 students
 - Monitors former Soviet Union media
- Database Staff
 - 12 full-time staff in projects
- Information Technology Staff
 - 4 full-time staff

Open Source Data

- CNS has a comprehensive open source collection system
 - Global, multilingual coverage
 - >300 Sources Systematically Searched
 - Trade and Popular Media
 - Rich Gray Literature Sources
 - Extensive coverage of NIS via CRES Library
- CNS uses only unclassified data
 - No limitations on distribution/use of databases

Open Sources and CNS

- Monitor Nonproliferation Regimes Through Open Sources
 - Provide information for policy research, analysis
 - Inform debate on nonproliferation issues
 - Early warning of proliferation threats
 - Supplement governmental information and views

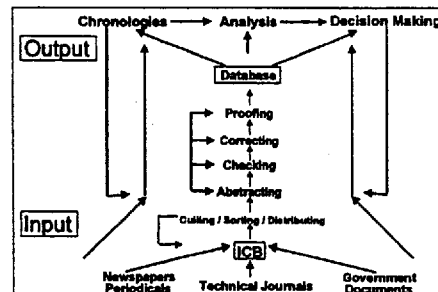
Representative Sources

- | | |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> □ ON-LINE SERVICES: <ul style="list-style-type: none"> • FBIS • Reuter • UPI • Lexis-Nexis • Inquisit Agent • Interfax □ NUCLEAR, TRADE PUBLICATIONS: <ul style="list-style-type: none"> • Bulletin of Atomic Scientists • Export Control News • Nuclear Fuel • Plutonium | <ul style="list-style-type: none"> □ AEROSPACE, ARMS CONTROL, DEFENSE: <ul style="list-style-type: none"> • Aerospace Daily • Arms Sales Monitor • Int'l Defense Review • Pakistan Affairs • Cruise Missile Digest □ GOVT. & INTERNATIONAL ORGANIZATIONS: <ul style="list-style-type: none"> • IAEA Info. Circular • UNIDIR Reports • GAO Reports • Congressional Testimony |
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Who, What, Where, When, and Why in Nonproliferation

- Technology Transfer
- Illicit Transactions
- Indigenous Developments
- Country-to-Country Relationships
- National Attitudes and Policies
- Status of Treaties & International Agreements

CNS Information Life Cycle



CNS Databases

- Monitoring Proliferation Threats:
 - Nuclear Material & Technology
 - Ballistic & Cruise Missiles
- NIS Nonproliferation Databases
 - NIS Nuclear Profiles
 - NIS Import/Export Database
 - NIS Nuclear Trafficking Database
- China Nonproliferation Profile Database

Monitoring Proliferation Threats

Broad Coverage/Transaction-Oriented

- | | |
|---------------------------------|----------------------------------------------|
| □ Nuclear Abstracts | □ Missile Abstracts |
| □ Started 1986 | □ Started 1990 |
| □ Nuclear Material & Technology | □ International Missile Trade and Production |
| • Technology Transfer | • WMD Delivery Systems |
| • Indigenous Developments | • Ballistic Missiles |
| | • Cruise Missiles/RPVs |

CNS Abstracting Process

- Extract Information on Nonproliferation
- Concise Format, High Information Density
- Abstract Databases
 - Reports minimally filtered--allows the analyst to judge the report's veracity
- 25,000 Abstracts in the Nuclear and Missile Databases
- Access Information by Searching Database by Word or Date (Boolean)

MPT Abstract Databases

- Nuclear Abstracts
 - Information on *who* is transferring *what*
 - Allows quick, comprehensive search of nuclear transaction information
- Missile Abstracts
 - Allows comparison of nuclear and missile transaction patterns
 - Wide range of coverage

Compound Abstracts

Bibliography: Executive News Service, 1/15/95
 Headline: France Wins \$2.83 B In Nuclear Contract With China
 Orig. Source: Reuter, 1/15/95, by Mark O'Neill

NOTE: Reuter reports that the reactors will be 900 MW. Our Nuclear News describes the reactors as 1000 MW, three-loop PWRs. Chinese State Media says that the construction on the Lingao extension of the Daya Bay plant caused the possibility of France's nuclear deal with China. The deal will bring the Chinese nuclear generation [2]. Construction would begin prior to 1996 and the plants are expected to begin operating in 2002 and 2003 [3].

Supporting Sources:

[1] Ann MacLachlan, *NuclearWeek*, 7/18/95, pp. 1-3-10, "China Strikes Deal With France For Two New PWRs At Lingao Site."

[2] David Buchan, *Financial Times*, 1/12/95, p. 3, "France To Seek China N-Deal."

[3] *Nuclear News*, 2/95, p. 17, "France Has Won Contracts From China."

NIS Nonproliferation Databases

- NIS Nuclear Profiles
- NIS Nuclear Trafficking
- NIS Import/Export Database

NIS Nuclear Profiles

An Electronic Reference Book

- Comprehensive overview of the NIS nuclear infrastructure and policies
- Facilities emphasis, strong MPC&A orientation
- Full-text sections featuring original documents
- Analyses and overviews by CNS staff
- In HTML for easy navigation and searching
- Extensive full-text section with original documents
- Over 1,600 HTML pages, more than 40 MB
- Updated monthly

NIS Databases

- Nuclear Trafficking Database
 - Abstracts of reports of illicit trafficking in radioactive materials in/from the NIS
 - Soon to be in HTML with additional summary tables and analysis
- NIS Import/Export Database
 - Abstracts of NIS Nuclear Imports/Exports
 - Subset of the Nuclear Exports Database

China Nonproliferation Database

- Comprehensive Coverage of China's Nonproliferation Policy
 - Nuclear, Missile, Chemical, Conventional Arms, and Export Controls
 - Overviews, Analyses, Quick-Reference Tables
 - Full-text Source Material from China and Other States
 - HTML Database—Flexible and Searchable
 - Incorporates Chinese text

Database Uses

- Export Control
 - Patterns in reported exports
 - Allegations of illegal exports/imports
- Proliferation Indicators
 - Imports/Exports/Statements
 - Development of delivery vehicles
- Quick Reference (Profiles)
 - What does a facility do?
 - Is a country party to a treaty?
 - Where is fissile material located?

Proliferation Databases

Subscribers include:

- | | |
|--------------|------------------|
| □ IAEA | □ UNSCOM |
| □ OSD/Policy | □ Australian MOD |
| □ JSOC | □ CSIS |
| □ DOE | □ Japan (CISTEC) |
| □ ACDA | □ Swedish MOD |
| □ NIWA | □ UK MOD, FCO |
| □ LLNL | □ BND |
| □ LANL | □ VNIITF |
| | □ IPPE |

Database Details

- Webserver or CD-ROM Versions
 - Can also load files on intranet
- Subscription Rates Depend On:
 - number of databases
 - update frequency (CD-ROM)
 - number of users
- Wide Compatibility (Search 97)

Database Enhancements for 1999

- Verity Search Engine
- NIS Databases in HTML and Cross-Linked
- New NIS Profiles Export Section
 - Analyses of export transactions with countries of concern
- New NIS Missile Facilities Sections

Summary

- Wide range of databases in nuclear and missile proliferation
- Both unfiltered abstract databases and filtered, structured country profiles
- Technology upgrade program underway
- Experience in developing new databases

EuroIntel '99 PROCEEDINGS E1-European Intelligence Forum "Creating a Virtual Intelligence Community in the European Region: Open - Link Page

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