NATIONAL STRATEGIC RESEARCH INSTITUTE
at the University of Nebraska

STRATEGIC DETERRENCE & NUCLEAR PROGRAMS

NSRI, with research faculty at the University of Nebraska, supports the top national priority of strategic deterrence and risk reduction through a range of research areas and capabilities.

Academic Wargaming Center

- Academic-focused exploration of wargaming as a learning tool
- Participants can test theories about complex, real world problems
- Enables creativity with no predefined, "textbook"solutions
- Failure is allowed (and encouraged) to gain insights
- Provides an experiential leadership and group dynamics labratory

Arms Control and Nonpoliferation

- Treaty monitoring technology R&D
- Arms control policy research
- Nonpoliferation threat analysis
- Nuclear nonpoliferation detection R&D
- Treaty break-away potential
- Relevant net assessments to support future diplomatic efforts

Weapons Policy

- Foreign threat analysis
- Deterrence, asurrance requirements
- Conceptual weapon design
- Strategic materials production

Consequence Management

- Precision nuclear forensics
- Nuclear detection technologies
- Hazard modeling
- Disaster mitigation research
- Rodiological decontamination and medical countermeasures

Enterprise Support Technologies

- NC3 technology R&D
- NC3 concepts and architecture
- High-performance non-nuclear materials research
- Non-nuclear component advanced manufacturing research
- Nuclear security, certification research

Conflict Deterrence Escalation Dynamics

- Tabletop exercises
- Nuclear conflict wargames
- Escalation dynamics model development
- Decision support tools
- Nuclear deterrence education
- Operational, tactical planning support

Electromagnetic Spectrum Operations (EMSO)

- Operational risk analysis
- Spectrum management research
- Electromagnetic environment characterization and analysis
- Assessment of EMSO on deterrence

nsri.nebraska.edu/nuclear