

# PASCC

## Research in Progress

FY17-18

### **DANGEROUS OR DISRUPTIVE TECHNOLOGIES TO STRATEGIC NUCLEAR STABILITY: POTENTIAL WAYS TO CONTROL THROUGH EXISTING OR NEW ARMS CONTROL FRAMEWORKS AND INTERNATIONAL REGULATORY REGIMES**

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#### **ABSTRACT:**

FAS proposes to provide an initial analysis from an arms control perspective of emerging dangerous/disruptive technologies that have significant potential for substantial effects on strategic nuclear stability over the mid-term to long-term. FAS will perform applied research that will develop a list of primary disruptive and threatening emerging technologies; examine the adequacy of existing international regulatory/control mechanisms that address/limit their use/trade/transfer; and suggest new international regulatory/control regimes to capture the emerging threats. This research will benefit the public because it will seek ways to reduce the risks of strategic nuclear instability due to the emergence and deployment of these potentially dangerous or disruptive technologies. The researchers will use the methodology of extensive literature review, numerous discussions with experts, research travel to a couple of major universities, and a key workshop in Washington, DC, to further discuss ideas with experts near the final phase of the project. The study will focus on the three major nuclear powers, the United States, Russia, and China, because of the public's interest in achieving and maintaining strategic nuclear stability among these powers.

*Research in Progress* describes ongoing PASCC research. For more information please contact [INSS@usafa.edu](mailto:INSS@usafa.edu).