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EDUCATION

University of Chicago

- Ph.D. in Political Science, 2009
- M.A. in Political Science, 2003
- B.S. in Biological Chemistry, 2000

ADDITIONAL TRAINING

- Center for Computational Analysis of Social and Organizational Systems, Summer Institute, 2009
- University of California Institute on Global Conflict and Cooperation, Public Policy and Biological Threats Program, 2007
- Arizona State University, Institute on Qualitative Research Methods, 2006
- Santa Fe Institute, Complex Systems Summer School, 2003
- University of Chicago, Human Rights Program Delegation to South Africa, 2002

RESEARCH

Dissertation: A Casualty of Kinetic Warfare?

Military Neglect and the Rise of Civilian Biodefense

Committee: Charles Glaser (chair), James Evans, John Mearsheimer, and John Padgett

The United States military is responsible for protecting its forces from biological weapons. However, the Department of Defense has neglected biodefense – most of the funding for which now comes from civilian organizations. Why did the Department of Defense fail to support biodefense yet eagerly create and procure other science and technology? Conversely, why did civilian organizations like the Department of Health and Human Services support research related to biological weapons?

I argue that organizational frames explain military neglect and the rise of civilian biodefense. Organizational frames are shared ideas that define and limit the tasks an organization will do. Because the military's frame of reference is defined by kinetic warfare involving projectile weapons and explosives, it neglects non-kinetic capabilities like biodefense. In contrast, the Department of Health and Human Services has a different organizational frame and thus is more amenable to supporting biodefense. I test this theory against realism and bureaucratic politics using case studies and content analysis. I find that the history of research, development, acquisition, and doctrine for biodefense supports the ideational theory of organizational frames, which has important implications for security studies and national security policy.

PUBLICATIONS AND WORK UNDER REVIEW

“WHO Governs? Limited Global Governance by the World Health Organization during the SARS Outbreak.” *Social Alternatives*, forthcoming.

Review of *The Empire of Civilization*, by Brett Bowden. *Australian Journal of International Affairs*, forthcoming.

Work under review:

“A Casualty of Kinetic Warfare: Military Research, Development, and Acquisition for Biodefense.”

PRESENTATIONS

“Risky Prospects: Transnational Conflict and Cooperation during Disease Outbreaks.” Presented at the American Political Science Association Annual Meeting, 2009

“SARS Revisited: Limited Global Governance of Infectious Disease.” Presented at the Griffith Asia Institute Research Seminar, Griffith University, 2009

“Military and Civilian Biodefense in the United States: A Historical Perspective.” Presented at the National Centre for Biosecurity Symposium, University of Sydney, 2009

“Military Biodefense – A Casualty of Kinetic Warfare?” Presented at the Center for International Security and Cooperation Research Seminar, Stanford University, 2008. Previous version presented at the International Studies Association Annual Convention, 2008

“Cultural Neglect? Explaining the Limits of Military Biodefense.” Presented at the Program on International Security Policy, University of Chicago, 2006

“Assessing the Threat of Biological Weapons to the U.S. Military.” Presented at the National Defense Research Institute, RAND Corporation, 2005

“BioShield or Pandora’s Box? The Impact of Defense Politics on Biotechnology.” Presented at the Program on International Politics, Economics, and Security, University of Chicago, 2004

“Technology Trajectories – Modeling the Effects of Social and Technical Diversity on Technological Development.” Presented at the Agent 2004 Conference on Social Dynamics, Argonne National Laboratory, 2004

FELLOWSHIPS

Pre-Doctoral Fellowship, Center for International Security and Cooperation, Stanford University. 2007-08

Trustees Fellowship, Department of Political Science, University of Chicago. 2001-06

TEACHING EXPERIENCE

University of Chicago. Teaching Assistant, Department of Political Science

- Taught section and graded with Melissa Harris-Lacewell for “American Government,” 2006
- Taught section and graded with Charles Lipson for “Intro to International Relations,” 2003
- Taught and graded a reading course with Alexander Wendt on “Global Health,” 2003

PROFESSIONAL EXPERIENCE

Griffith University. Research Fellow, Griffith Asia Institute, 2008 –

- Also serving as an Associate Investigator at the Centre of Excellence in Policing and Security

RAND Corporation. Summer Associate, National Security Research Division, 2005

- Assessed the threat of biological weapons to the U.S. military
- Examined analytical training within the Intelligence Community

Argonne National Laboratory. Aide, Decision and Information Sciences Division, 2004

- Built an agent-based model and simulation of technological development

University of Chicago. Policy Advisor, Preuss Laboratory, 2004

- Prepared parts of a Gates Foundation Grand Challenge grant application, providing a strategy for addressing social concerns about a new genetically modified crop technology

Defense Intelligence Agency. Summer Intern, Advanced Technology / Technology Transfer Division, 2002

- Analyzed emerging technologies and technology transfers in the Middle East and Asia

ZymoGenetics, Inc. Research Intern, Protein Expression Technologies Group, 1999

- Designed a transfection procedure 6X more effective than methods previously used

OTHER CREDENTIALS

- TS/SCI Clearance, 2002
- Private Pilot’s License, 1996

REFERENCES

Lynn Eden, Senior Research Scholar, Center for International Security and Cooperation, Stanford University. lynneden@stanford.edu

Charles Glaser, Professor, Department of Political Science, George Washington University. cglaser@gwu.edu

John Mearsheimer, Professor, Department of Political Science, University of Chicago. j-mearsheimer@uchicago.edu