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Director of National Intelligence Centers of Academic Excellence

Spring Colloquium on National Security Studies

Emerging Threats to One Health: Implications to U.S. National Security

April 12, 2011
University of Missouri
Reynolds Alumni Center

Program Schedule

8:00 a.m. – 9:00 a.m.
  Registration

9:00 a.m. – 9:05 a.m.
  Housekeeping and Remarks
  Annette Sobel, MD, MS, *MU Assistant to the Provost for Strategic Opportunities*

9:05 a.m. – 9:15 a.m.
  Welcoming Remarks
  Provost Brian Foster, *MU*

9:15 a.m. – 9:30 a.m.
  Welcoming Remarks and Program Overview
  Lenora Gant, Ph.D., *Deputy Assistant DNI, Intelligence Community Human Capital Director, ODNI IC Policy and Strategic Mission Outreach, Office of the Director of National Intelligence (ODNI)*

9:30 a.m. – 9:45 a.m.
  Introduction to the Intelligence Community
  Alan Trask, *Senior Program Manager, Intelligence Community Centers of Academic Excellence, Office of the Director of National Intelligence (ODNI)*

9:45 a.m. – 11:00 a.m.
  PANEL DISCUSSION
  One Health: Addressing the Challenges of Global Health and Food Security
  This panel will provide an expert-centered overview of operational, policy, and critical decision-making threats, opportunities, and strengths that shape the effectiveness of health and food protection and security locally, nationally, and transnationally. Perspectives will address proactive, trans-operational, commercializable, and innovative R&D approaches to these objectives.

  Panel Chair – Gary Simpson, MD, Ph.D., MPH, *Special Consultant, National Center for Genome Resources, Santa Fe, New Mexico*

  Stephen Barnes, MD, *Associate Professor & Chief Director, Surgical Critical Care Fellowship, Division of Acute Care Surgery, MU School of Medicine*

  David R. Franz, DVM, Ph.D., *Vice President & Chief Biological Scientist, Midwest Research Institute; Senior Advisor to the Office of the Assistant to the Secretary of Defense for Nuclear, Chemical and Biological Defense Programs*

  Tracey S. McNamara, DVM, *Diplomate, A.C.V.P., Professor of Pathology at Western University of Health Sciences College of Veterinary Medicine in Pomona, CA.*

  Barry Pittman, DVM, MPH, DACVPM, *Area Emergency Coordinator for USDA APHIS Veterinary Services*

  James M. Wilson V., MD, *Executive Director, Praecipio International*

11:00 a.m. – 11:15 a.m. **Break**

11:15 a.m. – 12:30 p.m.
PANEL DISCUSSION
The Knowledge Management Tsunami: Making Sense of Complex Intelligence and National Security Issues
Experts will address the challenge of information overload, sensing, and sense-making in support of the national security analytic process. Perspectives will emphasize the technology and information needs of an end user requiring a robust, timely, and knowledge-fused landscape.

Panel Chair – Ms. Suzanne Magee, *CEO/President, TechGuard Security LLC*

Barbara Bowyer, MS, *Director, Office of GEOINT Research Center, National Geospatial-Intelligence Agency*
Glen Cameron, Ph.D., *Co-Director and Scientific Advisor, MU Health Communication Research Center and Maxine Wilson Gregory Chair in Journalism Research*
Helen Cui, Ph.D., *Los Alamos National Laboratory*
Melissa H., DrPH, *Global health analyst for the US Intelligence Community, USG*
Mark L., MD, *Medical officer and an intelligence analyst, USG*
Chi-Ren Shyu, Ph.D., *Director, MU Informatics Institute and Shumaker Endowed Professorship of Computer Science*

12:30 p.m. – 12:45 p.m. **Break and move to Great Room**

12:45 p.m. – 1:45 p.m.
Global Trends in News Content and Distribution
Jim Spencer, *CEO Newsy*

Global technology trends are driving massive change in news and information consumption and distribution. This year there will be more mobile smartphones and tablets shipped to consumers than desktop and laptop computers. Last year Facebook surpassed search juggernaut Google as the most visited web site in the US. Jim Spencer, president and founder of Newsy, the leader in mobile video news, discusses the trends and their implications for news. Newsy provides many opportunities for MU Journalism students to work at the cutting edge of global news of significance.

1:45 p.m. – 2:00 p.m. **Break and move to Meeting Room**

2:00 p.m. – 3:15 p.m.
PANEL DISCUSSION
National Security Entrepreneurship: Partnerships with the Private Sector
Some of the most innovative approaches to solving national security challenges involve academia, and the private sector teaming with the U.S. government. This discussion will address the enormous scale of opportunities that pose multi-dimensional challenges for security and protection of U.S. interests now and into the future. Some successful partnerships and highly entrepreneurial solutions will be highlighted.

Panel Chair - Mr. Joseph Driskill, *Executive Director, Leonard Wood Institute*

Lieutenant Colonel (Ret., MDANG) Lisa M. Kirk Brown, DrPH, *Doctor, Public Health and Lieutenant Colonel (Retired) from Air National Guard*

Brian Dabson, *Vice President and COO of the Rural Policy Research Institute (RUPRI), Director of the RUPRI Rural Futures Lab, Chair of the Board of Directors of the RUPRI Center for Rural Entrepreneurship and Research Professor, MU Harry S Truman School of Public Affairs*

Chistopher Fender, *Director of the Office of Technology Management and Industry Relations, University of Missouri, Columbia*

Paul H. Fennewald, *Director of the Office of Homeland Security, Missouri*

Suzanne Magee, *CEO/President, TechGuard Security LLC*

Rob Monsees, *Executive Director, NanoTechnology Enterprise Consortium (NTEC)*

3:15 p.m. – 3:30 p.m. **Break**

3:30 p.m. – 4:15 p.m.
PANEL DISCUSSION
The 21st Century Intelligence Community Enterprise: Challenges and Opportunities
The structure, function, and dynamics of today's Intelligence Community will be described with an emphasis on human capital and career opportunities. A number of examples of trans-disciplinary career possibilities that span the disciplines of health and food security will be presented.

Panel Chair - James Kilpatrick, Ph.D., *Associate, Booz/Allen/Hamilton, McClean, VA*

Lieutenant Colonel (Ret., MDANG) Lisa M. Kirk Brown, DrPH, *Doctor, Public Health and Lieutenant Colonel (Retired) from Air National Guard*

Special Agent David Cudmore, *FBI, Kansas City Field Office*

Melissa H., DrPH, *Global health analyst for the US Intelligence Community, USG*

Mark L., MD, *Medical officer and an intelligence analyst, USG*

Dan T., MD, *Psychiatric Analyst*

Katherine M. Wever, *eGEOINT Office, National Geospatial-Intelligence Agency*

4:15 p.m. – 4:30 p.m.
Synthesis and Closing Remarks
Lenora Gant, Ph.D. and Annette Sobel, MD, MS

4:30 p.m. – 6:30 p.m.
Social Networking and Visit Career Opportunity Exhibits

6:30 p.m.
Adjourn

Presenters Biographies

Stephen Barnes, MD earned his medical degree from the University of Alabama-Birmingham and completed his general surgery residency at the University of Kentucky. He then completed fellowships in trauma surgery and surgical critical care at the University of Kentucky and advanced laparoscopy and gastrointestinal surgery at the University of Cincinnati. Dr. Barnes is an Associate Professor and Chief of the Division of Acute Care Surgery.

Barbara Bowyer, a native of Bluffton, Ohio, joined the National Geospatial-Intelligence Agency (NGA) civilian workforce in May 2006 after completion of 30 years of naval service. In February 2010, she was selected as the Director of the Office of the Geospatial-Intelligence (GEOINT) Research Center, the position she currently holds.

Prior to joining NGA, Ms. Bowyer enjoyed a very successful career as a naval officer. Tours of duty found her traveling around the globe where she served in a variety of demanding operational and support tours. She experienced life first hand while stationed overseas in two assignments—the first was a two-year tour in Naples, Italy, while the second sent her to Kamiseya, Japan for two years. She was also among the first cadre of women to be assigned to U.S. Navy combatants following repeal of the combat exclusion law in 1994. Chief among her many achievements was her selection as the Commander, Joint Intelligence Center Pacific, where she led a 1000+ person workforce comprised of active duty and reserve military personnel, federal civilians, and contractors in the provision of intelligence support to deployed forces.

Ms. Bowyer earned her bachelor's degree in history and economics from Ohio Northern University and a Master of Science degree in computer systems management from the Naval Postgraduate School. She is currently pursuing a Doctorate in Management from Webster University.

Lieutenant Colonel (Ret., MDANG) Lisa M. Kirk Brown, DrPH is a Doctor of Public Health and Lieutenant Colonel (Retired) from Air National Guard with over 20 years of leadership experience in preventive medicine, environmental epidemiology and national security. She is currently the owner of two consulting companies: Kirk-Brown Consulting, an environmental and occupational health consulting company serving the defense department, academic institutions and military communities, and Pink to Camouflage, a non-profit focused on advocating for the needs of women veterans. Previously, Lisa was a Program Manager for Biometrics at the Johns Hopkins University Applied Physics Laboratory. Lisa has held numerous military and civilian positions within the Defense Department, Academia, and Medical Organizations including Bio-threat Issues Manager for the National Security Agency and principal subject matter expert for all Chemical, Biological, and Radiological weapons of

mass destruction matters under the Director of Intelligence for the State of Maryland. In 2004, Lisa was appointed by Maryland Governor Robert Ehrlich as the Director of Emergency Preparedness and Response for the Maryland Department of Health and Mental Hygiene after serving as Special Assistant to the Deputy Under Secretary of Defense (Installations and Environment). Lisa completed a Doctorate in Public Health at the Uniformed Services University of the Health Sciences in 2004 where she researched using blood and urine exposure biomarkers as surveillance tools for assessing exposure to environmental contaminants during deployment. Related to her research, she has written a strategic plan for the use of exposure biomarkers in the Department of Defense. Lisa is a 1990 graduate of the US Air Force Academy, where she earned a Bachelor of Science in Civil Engineering with minors in French and Physical Education. She has received numerous military decorations and was a National Finalist for the White House Fellows Program in 2003.

Glen T. Cameron, Ph.D. is a Principal Investigator, Dr. Glen T. Cameron, The Maxine Wilson Gregory Chair in Journalism Research and co-founder of the Health Communication Research Center in the Missouri School of Journalism. A recent bibliometric analysis named Cameron the most published scholar in public relations over the past twenty years and Cameron's Contingency Theory offers a fresh and vigorous approach to conflict management in public settings. Cameron has extensive experience and proficiency in survey research, experimental design, content analysis and qualitative techniques such as focus groups and in-depth interviewing. He serves as Scientific Advisor to the European CDC's Communication Branch. Cameron is co-principal investigator for an RO1 and a member of the Scientific Leadership Committee within the Centers of Excellence in Cancer Communication Research, bringing his expertise on media and strategic communication to address public health challenges in black communities.

Special Agent (SA) David Cudmore serves as an investigator on the FBI Kansas City Division Office-Joint Terrorism Task Force (JTTF). SA Cudmore has extensive knowledge and experience in the FBI's response involving weapons of mass destruction (WMD) and related threats. SA Cudmore has made numerous national and international level presentations on this topic and has testified at congressional hearings on WMD related issues. Since 9/12/01, SA Cudmore's primary responsibility on the JTTF is terrorism prevention through liaison, outreach and relationship building with the private and government sectors. SA Cudmore has a degree in Microbiology from the University of Nebraska and served 6 years on active duty in the United States Army as a Nuclear Biological Chemical Officer. SA Cudmore has instructed on all levels of hazardous material response to include Awareness, Operational, Technician, Specialist and Incident Command levels.

Helen Cui holds a PhD in pharmacology and experimental therapeutics. She has also received a medical degree and was a faculty member in Zhejiang University Medical School. She joined Los Alamos National Laboratory in 2000 and is currently a senior scientist focusing on advancing lifescience research and technology development for global health security. Her research included molecular mechanisms of mammalian cell differentiation and proliferation resulting from pharmacological and toxicological efforts of growth factors, toxins and heavy metals, at molecular, cellular and animal model levels. Her current research is focusing on experimental and computational approaches for pathogen identification and characterization, virulence analysis, infectious disease progression, and data/model interoperation for disease spread modeling. She leads multidisciplinary research teams studying: public health impacts of potential biothreat situations; high performance computational analysis of microbial genomic data for pathogen functional determinant identification; machine learning techniques for rapid and accurate pathogen characterization; correlation between genotypic features and phenotypic presentations; and development of a single portal automated data retrieval and analytic system. She is supporting the Department of Energy Biological Weapons Convention related activities, US interagency technology advancement for biothreat nonproliferation and arms control workgroup, and advancing science and technology for an integrated global biosurveillance.

Brian Dabson is Vice President and COO of the Rural Policy Research Institute (RUPRI); Director of the RUPRI Rural Futures Lab; Chair of the Board of Directors of the RUPRI Center for Rural Entrepreneurship Research Professor, MU Harry S Truman School of Public Affairs

His current interests are the economic drivers that will shape the future of rural America, the strategic necessity of regional collaboration, the vital importance of social inclusion and entrepreneurship, and the need to change the narrative about rural America.

Before joining RUPRI in 2004, he was for 12 years President of CFED – the Corporation for Enterprise Development – in Washington DC. Prior to that he held various senior positions in Britain in the public and private sectors in the fields of planning, economic and community development.

Joseph L. (Joe) Driskill is Executive Director of the Leonard Wood Institute (LWI), a Missouri-based non-profit organization that works to help regional businesses and universities provide technology assistance to the U.S. Army at Fort Leonard Wood, Missouri through applied research and development projects. Before assuming his leadership role at LWI, Driskill was Executive Director of the Missouri Technology Corporation, Director of the Missouri Department of Economic Development and was elected to six terms in the Missouri House of Representatives where he was Chairman of the House Commerce Committee and

an active sponsor of legislation related to economic development, technology investment, workforce issues, telecommunications and other public utilities, and the Missouri National Guard. Driskill holds a Master's Degree in public administration and a Bachelor's Degree in political science from the University of Missouri-Columbia.

Christopher M. Fender, Director of the Office of Technology Management and Industry Relations at the University of Missouri, Columbia, is responsible for stimulating the development and commercialization of advanced technology and transforming University of Missouri intellectual property into successful business enterprise. Chris directs the MU Technology Management program, which consists of twelve full-time and five part-time staff.

Previous to this position, Chris served as Interim Director and as Sr. Licensing and Business Development Associate. His industrial research and experience includes previous service with Monsanto Company, Asgrow Company and Servi-Tech, Inc.

While at the University of Missouri-Columbia, Chris earned an M.S. degree in Agronomy and a B.S. degree in Plant Sciences; worked as a GRA in soybean breeding; a GTA in Plant Sciences and Undergraduate TA in the College of Agriculture, Food and Natural Resources.

On behalf of MU, Chris interacts with faculty, community, business and state government leaders to promote University of Missouri intellectual property. As a U.S. Patent co-inventor, Chris understands the value of intellectual property and the invention to commercialization process.

Paul H. Fennewald is a Homeland Security Coordinator at the Missouri Office of Homeland Security.

In November, 2005, Paul Fennewald was appointed Missouri's "Homeland Security Coordinator" and Director of the Missouri Office of Homeland Security. He was retained in this position when the current Administration came into power in January, 2010. He also assumed responsibility as the State Administrative Agent (SAA) in 2010 for Missouri's Homeland Security program. Under Paul, all Missouri's Homeland Security related initiatives, grants, training, and exercises are consolidated within the Office of Homeland Security, to better support state and local jurisdictions.

Paul H. Fennewald retired from active duty as a Special Agent and "Bomb Technician" with the FBI in January, 2004, after spending 23 years with that agency. He spent most of his FBI career working terrorism related investigations, as well as responding to a number of major terrorist attacks, including the bombing of the USS Cole, the Nairobi, Kenya USS Embassy bombing, and the 9/11/2001 World Trade Center attack. He also was involved in the bomb related response planning and training for numerous special events, including the 1996 Summer Olympics in Atlanta, and the 2002 Winter Olympics

in Salt Lake City. Paul also has prior military experience, as well as spending 8 years in the private sector working in the technical services field.

Provost Brian Foster joined the University of Missouri as the Chief Academic Officer in August of 2005. Prior to that, he served as Provost at the University of New Mexico in Albuquerque. His previous academic appointments include Dean of Arts and Sciences at the University of Nebraska at Lincoln and Graduate Dean at Arizona State University, where he also served as Professor and Chair of the Department of Anthropology.

The first in his family to pursue a college education, Dr. Foster began his studies at Northern Illinois University where he earned his degree in History. He went on to earn his Ph.D. in Anthropology from the University of Michigan. His studies and research focused on the social anthropology of Southeast Asian cultures, primarily Thailand. He is fluent in Thai and German.

Foster has served as President of the Western Association of Graduate Schools, member of the Board of Directors of the Council of Graduate Schools, Chair of the GRE Board, member of the TOEFL Policy Council, and a member of the Executive Committees of two NASULGC Councils: the Council of Research and Graduate Education and the Council on Academic Affairs. He was Chair of the Executive Committee of the Council on Academic Affairs, NASULGC, and currently serves as an ad hoc member of that committee.

Provost Foster works closely with constituents both on and off campus focusing on MU's contributions to the economic development of Missouri and access to higher education for all Missourians.

David R. Franz, DVM, Ph.D. is Vice President & Chief Biological Scientist, Midwest Research Institute; Senior Advisor to the Office of the Assistant to the Secretary of Defense for Nuclear, Chemical and Biological Defense Programs

Dr. Franz served in the U.S. Army Medical Research and Materiel Command for 23 of 27 years on active duty and retired as Colonel. He served as Commander of the U.S. Army Medical Research Institute of Infectious Diseases (USAMRIID) and as Deputy Commander of the Medical Research and Materiel Command. Prior to joining the Command, he served as Group Veterinarian for the 10th Special Forces Group (Airborne).

Dr. Franz was the Chief Inspector on three United Nations Special Commission biological warfare inspection missions to Iraq and served as technical advisor on long-term monitoring. He also served as a member of the first two US-UK teams that visited Russia in support of the Trilateral Joint Statement on Biological Weapons and as a member of the Trilateral Experts' Committee for biological weapons negotiations.

Dr. Franz was Technical Editor for the Textbook of Military Medicine on Medical

Aspects of Chemical and Biological Warfare released in 1997. Current standing committee appointments include the Defense Intelligence Agency Red Team Bio-Chem 2020, the National Academy of Sciences Committee on International Security and Arms Control and the Department of Health and Human Services National Science Advisory Board for Biosecurity. He serves on the Boards of the Federation of American Scientists and the Kansas Bioscience Authority.

Dr. Franz holds an adjunct appointment as Professor for the Department of Diagnostic Medicine and Pathobiology at the College of Veterinary Medicine, Kansas State University. The current focus of his activities relates to the role of international engagement in the life sciences as a component of national security policy.

Dr. Franz holds a D.V.M. from Kansas State University and a Ph.D. in Physiology from Baylor College of Medicine.

Lenora Peters Gant, Ph.D. is a member of the Senior Intelligence/Executive Service at the Office of the Director of National Intelligence (ODNI). She was recently appointed as the Deputy Assistant Director of National Intelligence, Human Capital for the Intelligence Community (IC). Dr. Gant also serves as the Director of the ODNI IC Policy and Strategic Mission Outreach; her portfolio includes the Office of the Centers of Academic Excellence (CAE), the Office of Recruitment and Staffing, the Wounded Warrior Program, and the Work Life Program. As the Director of the CAE Program Office, she oversees a multi-million dollar grant for 17 agencies and elements executed at 30 accredited U.S. universities and colleges across the country. She designed the CAE Program while on a two-year academic sabbatical at Trinity University, Washington, DC as a visiting professor and scholar-in-residence. She establishes policy guidance and execution strategies aligned with objectives outlined in the U.S. National Intelligence Strategy (NIS).

Dr. Gant performed duty assignments in Japan, Oxfordshire, England, NATO in Brussels Belgium, and Italy. Dr. Gant lectured at the Business Institute at the University of Wisconsin-Madison.

Dr. Gant's academic credentials include a B.S., School of Business and Industry, Florida Agricultural and Mechanical University; M.A., George Peabody College of Vanderbilt University; and Ph.D. from Virginia Polytechnic Institute and State University.

Melissa H., MD is a global health analyst for the US Intelligence Community. Prior to her current job, she served as an Emergency Manager for a large metropolitan health system, where she was responsible for planning for and responding to large-scale health events, including infectious disease outbreaks and bioterrorism. She also served as a clinical project manager at the National Institutes of Health, and held various public health positions within state and

local health departments. Melissa is a registered nurse, and her educational background includes a graduate degree in public health and undergraduate degrees in nursing and human development.

James Kilpatrick, Ph.D. has extensive experience in planning and executing the Regional Intelligence Community (IC) Colloquium initiative for the Office of the Director of National Intelligence (ODNI) IC Centers of Academic Excellence (IC CAE). Dr. Kilpatrick has over 30 years of experience teaching at the university level, including service as CIA's Officer in Residence at the University of Miami during 2005-2007. Dr. Kilpatrick's academic credentials include a Ph.D. from the University of Michigan and experience teaching at Georgetown University, Johns Hopkins School of Advanced International Science, and George Washington University.

Dr. Kilpatrick is an Associate at Booz Allen Hamilton. He joined the Firm following a distinguished 31-year intelligence career in the CIA as a senior analyst and manager. In addition to his work for the ODNI IC Centers of Academic Excellence, Dr. Kilpatrick has been a leader in developing Booz Allen's new Intelligence Tradecraft Program.

Mark L., MD joined the Agency in 2001 and has served as both a medical officer and an intelligence analyst. Prior to joining the Agency, he was a US Army pathologist at Ft. Bragg, and served as the regional armed forces forensic medical examiner. He is a military flight surgeon and served with the 1st Cavalry Division and 82nd Airborne Division during combat contingency operations in Central America and humanitarian operations in Haiti and Southeast Asia.

Suzanne Magee, a native of St. Louis, Missouri, is co-founder, CEO and President of TechGuard Security, an Information Technology products and services company mission-focused on US Critical Infrastructure Security and National Cyberdefense. Founded in February 2000, TechGuard is a women-owned, small, business, providing trusted security services, research and development, and training programs to defense and intelligence communities, federal and state governments and commercial clients. Suzanne has won many honors including the National Association of Women Business Owners (NAWBO) Public Policy Advocate of the Year Award; Distinguished Woman Business Owner; Missouri Regional Top 50 Company; SBA Small Business Team of the Year for the Eastern Missouri Region; St. Louis Economic Council Entrepreneurial Company of the year; and Maryland IT Incubator Company of the Year, and Winning Women Entrepreneur Award.

Tracey S. McNamara, DVM is a Diplomate, A.C.V.P., Professor of Pathology at Western University of Health Sciences College of Veterinary Medicine in Pomona, CA.

She graduated from the New York State Collegeof Veterinary Medicine at

Cornell University. She served as senior zoo pathologist at the Bronx Zoo from 1987-2003 and held the Schiff Family Distinguished Scientist in Wild Animal Pathology endowed chair. Dr. McNamara specializes in the recognition and understanding of the diseases of captive and free-ranging wildlife and is best known for her work on West Nile virus. Her role in the discovery of the West Nile virus is described in the September 2000 GAO report "West Nile Virus – Lessons for Public Health Emergency Preparedness","Germs" by Judith Miller and "Secret Agents" by Madeline Drexler. In The Scientist (March 4, 2002), she is credited as having "served a central role as a unifying force, molding and sometimes forcing interrelationships between local and federal government agencies and private enterprises, enabling progress toward the common goal of monitoring a newly emerging disease in the United States."

Dr McNamara has served as a consultant to the National Biosurveillance Advisory Subcommittee and will be actively involved in the development of the Nation's biosurveillance strategy through 2012. Most recently, she was asked to serve as lead on a project with Russian colleagues on the "Human-Animal Interface" by the Nuclear Threat Initiative's Global Health and Biosecurity program in Washington DC.

Rob Monsees currently serves as Executive Director of the NanoTechnology Enterprise Consortium (NTEC), a consortium of small, medium, and large member companies and research institutions working together to apply nanotechnology for the creation of innovative products for commercial and military use, including the defense, biomedical, energy and agriculture sectors. Previously, he served as Executive Director of the Missouri Technology Corporation (MTC). Under his leadership, the state of Missouri invested over $40 million in new technology based economic development projects over a period of two and a half years.

Monsees spent much of his career advising policy makers on the state and federal levels including Governor Matt Blunt, Senate President Pro Tem Peter Kinder, Congressman Kenny Hulshof and U.S. Senator Kit Bond on life science, economic development, defense and agriculture issues.

Barry N. Pittman, DVM, MPH, DACVPM is currently serving as an Area Emergency Coordinator for USDA APHIS Veterinary Services in Kansas & Missouri in which he does liaison work with local, state and other federal agencies involved in Emergency Management. His interest and involvement in the one health concept carried over from his military career as he has stayed deeply involved since 2003 in many facets of the marriage of human and animal health at the state and federal level.

He is a graduate of Weber State University (Utah) (BS in Zoology), Kansas State University & KSU College of Veterinary Medicine (BS in Animal Science &

Industry, Agriculture & DVM), and University of Texas (MPH). He spent 29 years in the military and retired in 2003. He worked in the Emergency Programs Division of the North Carolina Department of Agriculture & Consumer Services for almost two years and served as the Director for one and a half years. He is a member of the American Veterinary Medical Association, Rotary Club International, and is a Diplomate, American College of Veterinary Preventive Medicine. He is the Missions Deacon and teaches adult Sunday School classes at Countryside Christian Church, and has enjoyed over 25 years of marriage with his wife, LTC (U.S. Army retired) Mary, an elementary school teacher for Special Education. They have three children; Katie, 30, Claire, 21, and Zachary, 16.

Chi-Ren Shyu, Ph.D., Director, Informatics Institute, Paul K. and Diane Shumaker Endowed Professor of Computer Science, University of Missouri

Dr. Chi-Ren Shyu received his Ph.D. degree in Electrical and Computer Engineering from Purdue University. Upon completing one year of post-doctoral training at Purdue, he joined the Computer Engineering and Computer Science Department at the University of Missouri-Columbia (MU) in 2000. In addition to holding the Engineering's Shumaker Endowed Professorship for Informatics, he is currently the Director of the MU Informatics Institute, Professor of Computer Science Department, and Clinical Adjunct Faculty of School of Medicine, School of Nursing, and College of Education. As the founding director of the Center for Computational Biology and Medicine, Dr. Shyu initiated a variety of research projects in such areas as biomedical informatics, geospatial informatics, data mining, and computer vision. His research group is known to build speedy search engines for large-scale satellite image databases, biomedical media databases, and visual knowledge bases. Project sponsors for his research include the National Science Foundation (NSF), the National Geospatial-Intelligence Agency (NGA), the National institutes of Health (NIH), the National Institute of Justice (NIJ), U.S. Department of Education, and other organizations, both for-profit and non-profit. During his tenure at MU, Dr. Shyu received several awards include seven Departmental Teaching Awards, College of Engineering Faculty Teaching Excellence Award, College of Engineering Faculty Research Award, and NSF CAREER Award.

Gary Simpson, MD, Ph.D., MPH was trained in internal medicine at the Peter Bent Brigham Hospital and in infectious diseases at the Radcliffe Infirmary (Oxford), and the Stanford University Medical Center. He has graduate degrees from the Rush Medical College, the University of Illinois, Balliol College (Oxford), and the Harvard School of Public Health. He has more than 30 years experience in academic medicine, infectious diseases, and public health, and ,until 2007, was the Medical Director, Infectious Diseases, New Mexico Department of Health. Most recently, he has been College Master, and Professor of Medicine at the Paul L. Foster School of Medicine, Texas Tech University Health Sciences at El Paso.

Annette L. Sobel, MD, MS, MU Assistant to the Provost for Strategic Opportunities, is a Fellow of the Aerospace Medicine Association, a U.S. Navy trained hyberbaric medicine advisor, and Fellow of the American Academy of Family Physicians. Prior to coming to Missouri Dr. Sobel served as a Major General in the Arizona National Guard. Her varied career has included serving as Director of the New Mexico Department of Homeland Security, being selected as an Army Astronaut Candidate in 1989, and serving as a NASA Flight Surgeon at NASA Dryden Test Flight Facility during Operation Desert Storm. Dr. Sobel's career has focused on global health and security, disaster medicine, and counter-terrorism. She is a member of the World Federation of Scientists Permanent Monitoring Panel on Mitigation of Acts of Terrorism, and a recipient of the Anti-Defamation League's Distinguished Public Service Award and a NATO recognition of lifetime contribution to understanding the WMD threat environment.

Jim Spencer, president and founder of Newsy, has helped lead several successful Internet start-up and established online companies. Jim was VP of Content and Answers at Ask Jeeves (Ask.com <http://Ask.com/>) where he was responsible for all search queries and helped lead the company to a top 15 website and through a successful initial public offering. Prior to Ask Jeeves, Jim was the GM of News and Information Programming at AOL (News, Sports, Health, Research and International) leading the content, business and partnership operations for one of AOL's major business units. He also served as director of strategic partnerships at NBC for MSNBC.com <http://MSNBC.com/> , leading the direction of the MSNBC.com <http://MSNBC.com/> website and the coordination of the newsrooms of NBC News in New York and MSNBC's newsroom on Microsoft's campus in Redmond, WA. Jim began his online career as GM of New Media at Multimedia, Inc. Prior to graduate school, Jim represented and distributed motion pictures including Academy Award-winning movies, foreign films and U.S. independent cinema. Jim earned his M.A. in journalism at the University of Missouri-Columbia and his B.F.A. from New York University's Film School.

Dan T., MD joined the US Government in 2002 as a Psychiatric Analyst. Prior to 2002, he held a full-time faculty position at George Washington University Hospital in Washington, DC. He remains on the clinical faculty there and is a fellow with the American Psychiatric Association.

H. Alan Trask is a Senior Program Manager for the Intelligence Community Centers for Academic Excellence in National Security Studies (IC CAE) Program. His duties include serving as liaison to university/college principal investigators and program managers and as a contracting officer technical representative (COTR), providing guidance and oversight to contractors that support IC CAE operations.

Mr. Trask's experience includes having served at the Defense Intelligence

Agency (DIA) as Chief, General Intelligence Training System (GITS) Division; Program Manager for the Joint Intelligence Virtual University (JIVU); Senior Program Manager for the Workforce Issues Team on the Director of Central Intelligence's Community Management Staff (DCI/CMS); Executive Secretariat for the IC Training and Education Board; and as an Air Force (AF) officer. Mr. Trask holds an M.S. in Education from Eastern Illinois University and a B.S. in Education in Spanish from Truman State University.

Katherine M. Wever, NGA's Director of the Management Office for Enabling GEOINT (eGEOINT), is responsible for building and operating an information service called GEOINT Online which will enable GEOINT access—integrated access to all NGA content, services, expertise, and support. Ms. Wever previously served as the Deputy Director of the Management Office for eGEOINT; as the Division Chief of Content Management and Services in the Information Management Office for Enterprise Operations; and as the Executive Officer for the Enterprise Information Management Office Director. Upon graduation from the University of Illinois in 1985 with a degree in forestry, Ms. Wever joined the Defense Mapping Agency as a cartographer. In March 2005, Ms. Wever was chosen as one of NGA's honorees for Outstanding Women of NGA.

James M. Wilson V, MD is the Founder and Executive Vice President of AscelBio and Executive Director of Praecipio International. AscelBio, a for-profit corporation, provides consulting services to its clients for infectious disease risk assessments. Praecipio International is a nonprofit corporation dedicated to enhance and improve international public health and security against biological threats. Prior to his current position he was a Founder and the Chief Technical Officer / Chief Scientist of the Veratect Corporation in Seattle, Washington; Founder and Principal Investigator of Project Argus, Chief of the Argus Research Operations Center; and Division Head of Integrated Biodefense at the Imaging Science and Information Systems Center, Georgetown University. He was the concept, development, and operationalization lead for the new professional discipline of operational biosurveillance and lead architect and the founding member of the Biosurveillance Indication and Warning Analysis Community (BIWAC). Dr. Wilson received a Bachelor of Science in Applied Biology at the Georgia Institute of Technology, his medical doctorate from the University of Cincinnati College of Medicine, and trained as a pediatrician at Georgetown University Medical Center.

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