Speaker Biographies

Lt Col Anne Barrett

LtCol Anne H. Barrett was born in Paris, France and is a graduate of University of Paris and Pennsylvania State University. She was commissioned in 1990 and became a bioenvironmental engineer. Her company grade assignments included base level positions at George AFB, Kirtland AFB, and McConnell AFB as well as a special duty assignment at Armstrong Laboratory as the USAF nonionizing radiation safety consultant. As a field grade officer, she was a flight commander at McConnell AFB and Edwards AFB and also held a special duty position at Schriever AFB as the AFSPC (AF SPACECOM-Space Warfare Center) CBRNE remote sensing division chief. She also served as the Aerospace Medicine Squadron Commander at Edwards AFB. She is currently assigned to the Joint Non-Lethal Weapons Directorate (JNLWD) at MCB Quantico as the Human Effects Officer.

Mr. Joseph Cecconi

Joe Cecconi is a Senior Scientist managing the Directed Energy Research Program which includes the Less-Lethal and Pursuit Management Portfolios at NIJ. Currently, the programs main goal is to provide state and local law enforcement and correctional personnel with new devices that are inherently safer and to verify the characteristics of existing devices. Mr. Cecconi has been either a principal investigator or manager for research and development programs in the U.S. Department of Defense at the Army Research Labs, FBI at the Engineering Research Facility, and Drug Enforcement Administration at its Engineering Facility. At these locations, he developed complete systems from conception to fielding. His formal training is in Electronics Engineering, specializing in radio frequency (RF), optical, digital signal processing, and computer systems.

Mr. Michael Deitchman

Mr. Deitchman was appointed to the Senior Executive Service on 9 September 2001 and is currently the Deputy Chief of Naval Research, Naval Air Warfare and Weapons Science and Technology Department at the Office of Naval Research. He is currently responsible for the Navy's aircraft, air and surface weapons technology programs as well as Science and Technology Program Manager for the Sea Strike IPT Future Naval Capability, and Navy representative to the OSD Reliance Directed Energy Technology Focus Team and the National Science and Technology Council Aeronautics Subcommittee. Mr. Deitchman's career with the Navy spans 37 years, starting as an engineering student trainee from the University of Maryland Co-operative Education program in February 1971. After graduating in 1973 with a Bachelor of Science in Aerospace Engineering, Mr. Deitchman returned to the Naval Air Test Center as a senior flight test engineer. He has a masters of science degree in

systems management of Research, Development, Test & Evaluation from the University of Southern California, completed graduate study in aerospace engineering from Pennsylvania State University and is a graduate of the US Naval Test Pilot School. Mr. Deitchman has received many awards for achievement and performance, including the Department of Navy's Superior Civilian Service Award, November 2000. Mr. Deitchman was inducted into the University Of Maryland Aerospace Engineering Academy of Distinguished Alumni in November 2007.

Dr. Bernard "Butch" Deuto

Mr. Bernard G. Deuto's 39-year technical career has spanned the breadth and depth of optical physics, optical engineering and program management. He was on the NASA launch team for Apollo 8 thru 13. His high-energy laser experience includes wave optics analysis, optical resonator design, optical diagnostics and high power laser system development and testing. Currently Mr. Deuto is the Chief Engineer of the Air Force Research Laboratory's Directed Energy Directorate, which is a 900-person organization with a total annual budget of $340M. He has advocated the extension of AFRL/RD's influence and collaboration to other services and agencies. He has successfully attracted a number of funded efforts to AFRL/RD. He has continually emphasized the critical role that M&S can play in implementing and executing successful technical development strategies. His many years of High Energy Laser technical execution, technical direction and program management experience make him a uniquely qualified member of the high energy laser community.

Dr. Dan Devany

Dr. Devany has worked various DE efforts since 1997 while stationed at the Defense Threat Reduction Agency and working for the US Air Force and the Office of the Secretary of Defense. He is currently responsible to track the major DE efforts within DoD as well as provide assessments on the overall DoD program.

Dr. Lee Gutheinz

Lee Gutheinz is presently the Program Director for High Energy Laser/Electro Optical (HEL/EO) Systems for Directed Energy Systems (DES) and the Albuquerque Site Executive, overseeing the development and execution of programs generating revenues in excess of $65M per year. As Albuquerque Site Executive, he is responsible for overall infrastructure development for Boeing in Albuquerque. Mr. Gutheinz has 40 years experience in defense related research and development, including 9 years as a manager of directed energy, sensors, and military space projects and programs for the US Air Force. Mr. Gutheinz joined SVS, Inc., in January 1998 as General Manager for Space Systems Development and as manager of SVS' acquisition, tracking and pointing team. In June 2000, Boeing acquired SVS, Inc. and Mr. Gutheinz has continued to be a key contributor in program management, business strategy, and technical development.

Col Kirk Hymes

Colonel Hymes is currently assigned as the Director of the Joint Non-Lethal Weapons Directorate. He graduated from the United States Naval Academy in May 1983 and, following the Basic School, attended the Field Artillery Officer Basic Course at Fort Sill,

Oklahoma. Over the course of more than two decades in the U.S. Marine Corps, he has served in a wide variety of commands; as platoon commander, as director of an artillery training school, as operations officer, and as the Commanding Officer of 3d Battalion, 11th Marines during OEF and OIF. From July 2003 to July 2005, he was assigned to the Expeditionary Force Development Center at the Marine Corps Combat Development Center as the Integration Branch Head and Deputy Director for Operations. Colonel Hymes's personal awards include the Bronze Star with Combat "V", Meritorious Service Medal with four Gold Stars, the Navy Marine Corps Achievement Medal, and the Combat Action Ribbon. He is a native of Altoona, Pennsylvania, was born on 6 May 1961.

Dr. James Keagle

Dr. James M. Keagle is the Director of the Transforming National Security seminar series at the Center for Technology and National Security Policy at the National Defense University (effective September 2007). Prior to this position, Dr. Keagle was the National Defense University's Provost (effective 2004) and Vice President for Academic Affairs (effective 2000). He has also served as a professor of National Security Strategy at NDU. In that role Dr. Keagle worked as a research faculty member assisting with NDU's modeling and simulation and work with interagency education and training. Dr. Keagle completed a Master of Arts degree in political studies from the University of Pittsburgh and a second M.A. and a Ph.D. from Princeton University. He proudly notes his honorary Ph.D from the Military Technical Academy of Romania--the only United States citizen so honored. Dr. Keagle's political-military assignments have included posts with direct access and interaction to Cabinet-level government officials on national security related matters. He has been awarded the Defense Superior Service Award, the Legion of Merit, and the Purple Heart. Dr. Keagle has been married to his wife Kay since 1974, and they are the proud parents of three children.

Captain David Kiel

Captain David Kiel is currently serving as the PM for Surface Directed Energy Programs in NAVSEA. He has served on 3 ships: USS Lynde McCormack as the Communications Office and 1st LT; USS Jouett as the Gunnery Officer; USS Saipan as the Combat Systems Officer. Captain Kiel's significant shore assignments include Project lead for Unconvential EW projects at NSWC Dahlgren; Atlantic Fleet Weapons Officer at COMNAVSURLANT; and Associate PM for the Advance Integrated Electronic Warfare System at PEO TSC. He has earned a BA in Economics and Computer Science from the University of Colorado; an MS in Physics from the Naval Postgraduate School; and a Masters in National Security Strategy from the Industrial College of the Armed Forces (ICAF).

Mr. David Law

Mr. Law has worked for the Department of Defense for over 23 years. Mr. Law is currently the Technology Division Chief at the Joint Non-Lethal Weapons Directorate. He leads a group of 15 government and contractor scientists and engineers working to mature new non-lethal weapon technologies. Their goal is to rapidly develop these new advanced non-lethal weapons and move the U.S. Department of Defense beyond "Bean-Bags and Rubber Bullets" to meet operational capability-gaps between "Shouting and Shooting". These

Officers of Primary Responsibility (OPRs) lead more than 120 separate non-lethal technology development efforts each fiscal year and they manage more than 300 performing organizations. Mr. Law has been working in the Directed Energy community for some years now serving on the 2005/2006 DDR&E DEW Road-Map panel and the more recent Directed Energy Technology Focus Team. The JNLWP has since its inception in 1997 has funded several non-lethal directed energy weapons (NL DEWs), with of coarse the most notable being the Active Denial System. Other NL DEW systems and related DE technologies funded by the JNLWP are: the Pulsed Energy Projectile Program, RF Vehicle/Vessel Stopper Program, Non-Lethal Focused Acoustics, Compact Active Denial Technologies, Non-lethal Underwater Acoustics Programs, PHaSR/Thermal Laser Programs, and Non-Lethal Counter-Electronic Programs.

Ms. Susan LeVine

Susan LeVine is the Principal Deputy Director for Policy and Strategy in the Joint Non-Lethal Weapons Directorate (JNLWD). She help established the Defense Department's Joint Non-Lethal Weapons Program in the late 1990's and is a founding member of the JNLWD. Her responsibilities include overall management, planning and technical support to the Joint Non-Lethal Weapons Program, including principal oversight of the Active Denial System Program as well as interfacing with the Office of the Secretary of Defense on non-lethal weapons policy and strategic planning issues. Ms LeVine attended the University of South Carolina, receiving Bachelor and Masters degrees in Physics and is a recipient of the Navy Meritorious Civilian Service Award. Ms. LeVine has served as a government advisor to the Council on Foreign Relations Task Force studies on Non-Lethal Weapons, the Defense Science Board Task Force on Directed Energy Weapons and is a member of the Directed Energy Professional Society.

Mr. Shawn Miller

Shawn Miller is currently the Capture lead for Raytheon's Active Denial program. In this capacity, Shawn works with current and potential customers to define program plans, budget and pricing options as well as desired enhancements for Raytheon's family of Active Denial Capabilities. Shawn has been involved in the Raytheon's Directed Energy Weapons programs since 2001; serving as a systems engineer, IPT lead and program manager for both HPM and laser programs. Prior to his time with Raytheon, Shawn was an operations analyst for the Air Force, with expertise in analyzing operations in urban terrain and nonlethal weapons.

Mr. Albert Ogloza

Presently Mr. Albert Ogloza is the Navy Representative to the Joint Technology Office for High Energy Lasers. Over the past 20 years Mr. Ogloza has been a research Physicist at the Naval Air Weapons Center at China Lake, developing HEL and unique sensing technologies. He has extensive research and field experience with High Energy Laser Systems and related component technologies. Over the last few years Mr. Ogloza has managed programs in laser propagation in the littoral environment, development of tracking algorithms and their implementation for asymmetric targets, and optical materials, coatings, and metrology, developing unique materials and metrology systems for HEL applications. This work has

resulted in a new understanding of optical coatings and their limitations.

LtCol Charles Ormsby

Major Chuck Ormsby is Chief of the Directed Energy Requirements Branch, Directed Energy Division, Headquarters Air Combat Command, Langley Air Force Base Virginia. He was commissioned in 1992 through the Reserve Officer Training Corps at Rose-Hulman Institute of Technology. He earned a PhD in Electrical Engineering from the Air Force Institute of Technology in 2003. Prior to his assignment at Air Combat Command, Major Ormsby was the Chief of the High Power Microwave Applications Branch at the Air Force Research Laboratory. There he was responsible for development and testing of high power microwave and millimeter wave systems such as the Active Denial System, HPM Counter Electronics systems, and HPM engine stopper system.

Mr. Hays Parks

W. Hays Parks entered federal service in 1963 as a commissioned officer in the Marine Corps. His initial service was as a reconnaissance platoon leader. He served in the Republic of Viet Nam (1968-1969) as an infantry officer and senior prosecuting attorney for the First Marine Division. Mr. Parks was the Special Assistant to The Judge Advocate General of the Army for Law of War Matters from 1979 to 2003. His work included serving as the legal adviser for the 1986 air strike against terrorist-related targets in Libya. He has served as a United States representative in law of war negotiations in New York, Geneva, The Hague and Vienna. In that capacity, he was the U.S. negotiator for and a primary author of the Blinding Laser Protocol of the Conventional Weapons Convention in 1995. He joined the Office of General Counsel, Department of Defense, in August 2003.

Mr. Terry Pudas

Terry Pudas is a Senior Research Fellow at CTNSP. His work is primarily focused on transformation and related national security issues. Prior to joining the Center, he served as the Deputy Assistant Secretary of Defense (acting), Forces Transformation and Resources in the office of the Under Secretary of Defense for Policy. In September of 2001 he was appointed as the Deputy Director of the newly created Secretary of Defense Force Transformation Office. He served as the Acting Director from January 2005 to October 2006. His primary role was to serve as advocate, focal point, and catalyst for the Department of Defense transformation efforts. Terry Pudas retired from the Navy in September, 2001 with over 32 years of service after serving as the Deputy and Executive Assistant to the President of the Naval War College in Newport, Rhode Island. He is a 1969 graduate of the University of Washington. In addition to his Bachelor of Science degree he holds a Master of Arts degree in National Security and Strategic Studies from the Naval War College and a Master of Arts degree in Management from Webster University. He also holds a diploma with honors in German language studies from the Defense Language Institute.

Mr. Benjamin Riley

Mr. Riley is the Director of the USD(AT&L) sponsored Rapid Reaction Technology Office (RRTO) and Chairman Combating Terrorism Technology Task Force (CTTTF). In this

position he interacts and coordinates with both Department of Defense commands and organizations and other government departments on identifying technologies and technological trends to address combating and countering terrorism operations. Previously, Mr. Riley was Senior Research Associate in the Georgia Tech Research Institute of the Georgia Institute of Technology. He was assigned to the Office of Naval Research in Washington, DC. A Naval flight officer, Mr. Riley completed five tours in different Patrol Squadrons in P-3 aircrafts, conducting anti-submarine warfare and surveillance and reconnaissance operations. He completed three aviation commands and tours and served in a number of staff positions. Captain Riley retired from the U.S. Navy on September 1, 1997. He and his wife reside in Crownsville, Maryland.

Mr. Alan Shaffer

Mr. Shaffer serves as the Principal Deputy Director, Defense Research and Engineering. In this position, Mr. Shaffer is responsible for formulating, planning, and reviewing the DoD Research, Development, Test, and Evaluation (RDT&E) programs, plans, strategy, priorities, and execution of the DoD RDT&E budget. Prior to entering the federal government, Mr. Shaffer served a 24-year United States Air Force career with assignments in weather, intelligence, science and technology management, acquisition oversight, and programming. Upon retirement from the United States Air Force in 2000, Mr. Shaffer was appointed to the Senior Executive Service as the Director, Multi-disciplinary Systems, Office of the Deputy Under Secretary of Defense for Science and Technology. In 2001, he assumed the position as Director, Plans and Programs, Defense Research and Engineering. Mr. Shaffer continues to serve as the Director while serving as the Principal Deputy. As the Director for Plans and Programs, Mr. Shaffer is responsible for the oversight of the Department of Defense science and technology portfolio totaling over $10.5 billion. Mr. Shaffer earned a Bachelor of Science Degree in Mathematics from the University of Vermont in 1976. He earned a second Bachelor of Science in Meteorology from the University of Utah, a Master of Science in Meteorology from the Naval Postgraduate School, and a Master of Science in National Resource Strategy from the Industrial College of the Armed Forces. He has been awarded the Distinguished Executive Presidential Rank Award in 2007 and the Meritorious Executive Presidential Rank Award in 2004. Mr. Shaffer and his wife Jackie C.S. Shaffer have one son and reside in Fairfax, Virginia.

Dr. John Tatum

Dr. John Tatum is an electronic systems engineer with the Army Research Laboratory (ARL) in Adelphi, Md. He is a senior engineer in the Directed Energy and Power Generation Division where he directs and participates in Electromagnetic (EM) effects investigations on military systems and studies the feasibility and effectiveness of Radio Frequency Directed Energy Weapons of interest to the Army. John holds a Bachelor of Science in Electrical Engineering from the University of Maryland and has done graduate work in the areas of Radar and Communications. He is a fellow of the Directed Energy Professional Society (DEPS) and also serves on the Board of Science and Engineers Advisors. He is also chairman of the RF Effects Panel of the Defense Science and Technology Advisory Group's Technology Panel on DEW, as well as an Army member of OSD’s HPM Executive Steering Committee. Recently he has served as the principal Army member of Directed Energy Effectiveness panel for the Joint Munitions Effectiveness Group. John has published several

papers on RF effect/susceptibility assessment methodology, system effects investigations and effects data bases in both DoD and IEEE conferences.

Dr. Kenneth Watman

Dr. Kenneth Watman, a member of the Senior Executive Service, is Associate Director of Strategic Planning, Deputy Chief of Staff for Strategic Plans and Programs, Headquarters U.S. Air Force, Washington D.C. His primary duties include assisting the Director of Strategic Planning in performance of the Directorate mission of developing and evaluating future strategies, policies and objectives as required to improve the Air Force's contribution to national defense and manages a strategic planning process that is used to focus and implement Air Force strategies, policies, and objectives. He provides direction to Air Force programmers for implementation of the Air Force strategic vision through the annually updated Air Force Strategic Plan and Annual Planning and Programming Guidance. He also links strategy with analysis for on going four-year defense reviews and annual defense planning guidance through the office of the Secretary of Defense while coordinating and overseeing a mission are planning process that aggressively evaluates and incorporates future warfighting concepts.

Col Dave Wooden

Colonel Dave Wooden is Chief of the Directed Energy Division,
Directorate of Requirements, Headquarters Air Combat Command, Langley AFB, Virginia. Colonel Wooden was commissioned in 1984 through the Reserve Officers Training Corps at the University of Kentucky in Lexington. He completed Pilot Training at Willliams AFB in 1985 and F-4 RTU in 1986. Colonel Wooden has served in numerous operational tours and is a Command Pilot with over 3,000 hours of flying time in the F-4E/G, AT-38, and F-117A aircraft including 25 combat missions in Operation DESERT STORM. He is a graduate of the US Army's Command & General Staff College and Air War College. He has served as a Flight Safety Officer, Flight Examiner, FTU Instructor, Operations Officer, and Fighter Squadron Commander.

Mr. Eli Zimet

Dr. Elihu Zimet joined the Center for Technology and National Security Policy as a Distinguished Research Professor in January 2002 as an IPA from the Potomac Institute for Policy Studies. He retired in May 2007 and is now a private consultant. He is currently working on issues relating to the role of technology in military transformation. From 1991 to 2002, as a member of the Senior Executive Service (SES), he headed the Expeditionary Warfare Science and Technology Department at the Office of Naval Research (ONR). He directed research programs in missile and gun technologies, directed energy weapons, aircraft, avionics and propulsion, low observable and counter low observable technologies. Dr. Zimet's background in directed energy goes back to 1971 where he worked on the Navy gas dynamic laser for the Naval Ordnance Lab in Maryland.
Dr. Zimet holds a BS (ME) from the Polytechnic Institute of Brooklyn (1962) and a Ph.D. from Yale University (1969). He is currently a member of the Naval Studies Board.