

OFFICE OF THE DIRECTOR OF NATIONAL INTELLIGENCE
WASHINGTON, DC

John Greenewald, Jr.
27305 W. Live Oak Rd.
Suite #1203
Castaic, CA 91384

May 17, 2020

Reference: ODNI Case DF-2016-00268

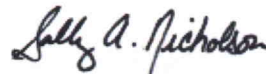
Mr. Greenewald:

This responds to your Freedom of Information Act ("FOIA") request dated 15 July 2016 (Enclosure 1) and received by the Information Management Office on 18 July 2016, in which you requested *"...a copy of all records...of all Wildlife Trafficking Symposium handouts released to attendees...."*

Your request has been processed in accordance with the FOIA, 5 U.S.C. § 552, as amended. A search has been conducted and records responsive to your request were located. The records are being released to you in full (Enclosure 2).

If you have any questions, please feel free to contact our Requester Service Center at dni-foia@dni.gov or (703) 275-3500.

Sincerely,



Sally A. Nicholson
Chief, Information Review &
Release Group
FOIA Public Liaison
Information Management Office

Enclosures

This document is made available through the declassification efforts
and research of John Greenewald, Jr., creator of:

The Black Vault



The Black Vault is the largest online Freedom of Information Act (FOIA)
document clearinghouse in the world. The research efforts here are
responsible for the declassification of hundreds of thousands of pages
released by the U.S. Government & Military.

Discover the Truth at: **<http://www.theblackvault.com>**

Enclosure 1

From: John Greenewald <john@greenewald.com>
Sent: Friday, July 15, 2016 11:26 PM
To: DNI-FOIA
Subject: FOIA REQUEST

JUL 18 2016

To whom it may concern,

This is a non-commercial request made under the provisions of the Freedom of Information Act 5 U.S.C. § 552. My FOIA requester status as a "representative of the news media." I am a freelance television producer often working on documentaries related to my FOIA requests, my work is commonly featured throughout major news organizations, and I freelance writer for news sites as well. Examples can be given, if needed.

I prefer electronic delivery of the requested material either via email to john@greenewald.com or via CD-ROM or DVD via postal mail. Please contact me should this FOIA request should incur a charge.

Please reference the following press release: <https://www.dni.gov/index.php/newsroom/featured-articles/223-featured-articles-2016/1396-intelligence-community-hosts-wildlife-trafficking-symposium>

I respectfully request a copy of records, electronic or otherwise, of all Wildlife Trafficking Symposium handouts released to attendees of the aforementioned symposium.

Thank you so much for your time, and I am very much looking forward to your response.

Sincerely,

John Greenewald, Jr.


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John Greenewald, Jr.

The Black Vault
<http://www.theblackvault.com>

Government Secrets
<http://www.governmentsecrets.com>

Phone: (805) 32-VAULT

Enclosure 2



Tuesday – June 28, 2016

0730-0830	Check-in and Poster Session – Alder Auditorium
0830-0835	Introductions Dr. Odean Serrano, Office of the Director of National Intelligence (ODNI)
0835-0845	Welcome Robert Cardillo, Director, National Geospatial-Intelligence Agency (NGA)
0845-0900	Opening Remarks The Honorable James R. Clapper, Director, National Intelligence (DNI)
0900-0910	Keynote Address Daniel M. Ashe, Director, U.S. Fish and Wildlife Service (USFWS)
0910-0920	Keynote Address Daniel L. Foote, Deputy Assistant Secretary Of State, Bureau Of International Narcotics And Law Enforcement Affairs
0920-0930	Keynote Address Karen Wardzinski, Chief, Law and Policy Division, Department of Justice (DOJ)
0930-0945	Networking Break
0945-1115	Panel 1 – Species Trafficking Case Studies Moderator: Dr. Mary Rowen, U.S. Agency for International Development (USAID) Wildlife Trafficking Overview – Crawford Allan, TRAFFIC Operation Crash – Rhino Horn Trafficking in the U.S. – Tim Santel, USFWS Office of Law Enforcement (OLE) Wildlife Trafficking Reporting – Rachael Bale, National Geographic
1115-1215	Lunch Break and Poster Session
1215-1345	Panel 2 – Convergence and Networks: Wildlife Crime and Related Transnational Crimes Moderator: David M. Luna, INL, Department of State (DOS) Converging Criminal Networks – Gretchen Peters, The Satao Project Mapping Illicit Financial Flows – Varun Vira, C4ADS Webs of Corruption and Criminality – Brooke Stearns Lawson, USAID Other Converging Illicit Trade Threats – Jeannie Cameron, JCIC International LTD
1345-1415	Networking Break and Poster Session
1415-1430	Keynote Address on Impact of High-level Corruption: Vanda Felbab-Brown, Senior Fellow, Brookings Institute
1430-1600	Panel 3 – Law Enforcement Overview Moderator: Paul Beiriger, USFWS OLE Phil Alegranti, USFWS OLE Stuart Cory, National Oceanic and Atmospheric Administration (NOAA) Shennie Patel, Department of Justice (DOJ)
1600-1615	Day One Summary – Dr. Odean Serrano, ODNI
1630-1800	No Host Social – Mike's American Grill, 6210 Backlick Rd, Springfield, VA

For additional information go to <https://wwhgd.org>



Day Two

Webinar: <https://cc.readytalk.com/r/adlvfwueh449&eom>

Audio: 1-866-586-3530 (U.S.)

339-368-5000 (International)



Wednesday – June 29, 2016

0730-0830	Check-in and Poster Session – Allder Auditorium
0830-0845	Day Two Welcome Dr. Odean Serrano, ODNI
0845-0855	Keynote Video Address (COP 2017) John E. Scanlon, Secretary General, the Convention on International Trade in Endangered Species of Wild Fauna and Flora (CITES)
0855-0910	Keynote Address: Outreach and Collaboration – Data and Partnerships Dr. Lee Schwartz, Geographer of the U.S., Department of State, Intelligence Research Bureau
0910-0925	Keynote Address: Geo Tools For Open Sharing; Whole of Societies in Action A.J. Clark, CEO of Thermopylae Sciences and Technology and Chair for Information Sharing within the Organization for Economic Cooperation and Development (OECD)
0925-1005	Panel 4, Part I – Data and Information Sharing: Human Geography and Web Presence Moderator: Steve Alness, NGA Human Geography and CWT – Victoria Palazzolo, NGA CWT Common Operating Picture – Chris Riopelle, NGA Sharing Information in a Secure Environment – Eric Cook, NGA Expeditionary Activities Division
1005-1020	Networking Break and Poster Session
1020-1130	Panel 4, Part II – Data and Information Sharing: Stakeholder Applications Moderator: Steve Alness, NGA Real-time Data Feeds – Lisa Dougan, Invisible Children CWT Capacity Building – Kelvin Alie, International Fund for Animal Welfare (IFAW) CWT Analysis Story Maps: tenBoma – Faye Cuevas, IFAW Collection Requirements – Data Convergence and Visualization – Kevin Howald, Harris Corp. The GDELT Project – Kalev Leetaru, George Washington University Center for Cyber & Homeland Security
1130-1230	Concluding Panel: The Way Ahead Moderator: Christine Dawson, Director, Office of Conservation and Water, DOS Terry Ford, National Intelligence Manager for Africa, ODNI David Hubbard, Special Agent in Charge, USFWS Karen Wardzinski, Chief, Environmental and Natural Resources Division, DOJ
1230-1245	Closing Remarks – Dr. Odean Serrano, ODNI
<p>For additional information go to https://wwhgd.org</p> 	

Presidential Task Force on Wildlife Trafficking Symposium Biographies

The Honorable James R. Clapper was sworn in as the fourth Director of National Intelligence (DNI) on August 9, 2010. As DNI, Mr. Clapper leads the United States Intelligence Community and serves as the principal intelligence advisor to the President. Mr. Clapper retired in 1995 after a distinguished career in the U.S. Armed Forces. His career began as a rifleman in the U.S. Marine Corps Reserve and culminated as a lieutenant general in the U.S. Air Force and Director of the Defense Intelligence Agency. His intelligence-related positions over his 32 years in uniform included Assistant Chief of Staff for Intelligence at U.S. Air Force Headquarters during Operations Desert Shield/Desert Storm and Director of Intelligence for three war-fighting commands: U.S. Forces Korea, Pacific Command, and Strategic Air Command. Of note, he also served two combat tours during the Southeast Asia conflict and flew 73 combat support missions in EC-47s over Laos and Cambodia. Directly following his retirement, Mr. Clapper worked in industry for six years as an executive in three successive companies with his business focus being the Intelligence Community. Mr. Clapper also served as a consultant and advisor to Congress and to the Departments of Defense and Energy and as a member of a wide variety of government panels, boards, commissions, and advisory groups. He was a member of the Downing Assessment Task Force that investigated the Khobar Towers bombing in 1996, and was vice chairman of a commission chaired by former Governor Jim Gilmore of Virginia on the subject of homeland security. Mr. Clapper returned to the government in September 2001 as the first civilian director of the National Imagery and Mapping Agency (NIMA). He served as Director for five years transforming it into the National Geospatial-Intelligence Agency (NGA) as it is today. Prior to becoming the Director of National Intelligence, Mr. Clapper served for over three years in two Administrations as the Under Secretary of Defense for Intelligence, where he served as the principal staff assistant and advisor to the Secretary and Deputy Secretary of Defense on intelligence, counterintelligence, and security matters for the Department. In this capacity, he was also dual-hatted as the Director of Defense Intelligence for DNI.

Mr. Clapper earned a bachelor's degree in government and politics from the University of Maryland, a master's degree in political science from St. Mary's University, San Antonio, Texas, and an honorary doctorate in strategic intelligence from the then Joint Military Intelligence College. His awards include three National Intelligence Distinguished Service Medals, two Defense Distinguished Service Medals, the Air Force Distinguished Service Medal, the Coast Guard's Distinguished Public Service Award, the Department of Defense Distinguished Civilian Service Award, and a host of other U.S. military and foreign government awards and decorations. He was named as one of the Top 100 Information Technology Executives by Federal Computer Week in 2001, and has been singled out by the NAACP in the form of its National Distinguished Service Award, and has been awarded the Presidentially-conferred National Security Medal.

Mr. Robert Cardillo is the sixth Director of the National Geospatial-Intelligence Agency (NGA). Mr. Cardillo leads and directs NGA under the authorities of the Secretary of Defense and Director of National Intelligence. He became NGA's director on Oct. 3, 2014. Prior to this assignment, Mr. Cardillo served as the first Deputy Director for Intelligence Integration, Office of the Director of National Intelligence, from 2010 to 2014. In addition, he served as the Deputy Director of the Defense Intelligence Agency (DIA) and the Deputy Director for Analysis, DIA, from 2006 to 2010. In the summer of 2009, Mr. Cardillo served as the Acting J2, a first for a civilian, in support of the Chairman of the Joint Chiefs of Staff. Before he moved to DIA, Mr. Cardillo led Analysis and Production as well as Source Operations and Management at NGA from 2002 to 2006. Mr. Cardillo's leadership assignments at NGA also included Congressional Affairs, Public Affairs, and Corporate Relations. Mr. Cardillo began his career with DIA in 1983 as an imagery analyst, and he was selected to the Senior Executive Service in 2000. Mr. Cardillo earned a Bachelor of Arts in Government from Cornell University in 1983 and a Master of Arts in National Security Studies from Georgetown University in 1988. Mr. Cardillo is the recipient of the Director of National Intelligence Distinguished Service Medal, the Presidential Rank of Distinguished Executive, the Presidential Rank of Meritorious Executive, and the Chairman of the Joint Chiefs of Staff Joint Meritorious Civilian Service Award.

Mr. Terry Ford was appointed by the Director of National Intelligence in February 2014 to the position of National Intelligence Manager for Africa where he leads an interagency team responsible for integrating collection, analysis and policy makers' support for Sub-Saharan Africa. Mr. Ford began his career as a U.S. Army intelligence officer and served 28 + years on active duty largely in tactical and operational units. He retired from the U.S. Army and transitioned to U.S. federal service, filling several important intelligence positions including the Deputy Chief of Staff for Intelligence (G2), Department of the Army as well as the first J2/Director of Intelligence and Knowledge Development Directorate, U.S. Africa Command. Prior to his current assignment Mr. Ford served as the Director of the Defense Intelligence Agency's Office of Partner Engagement.

Mr. Daniel M. Ashe is the 16th Director of the U.S. Fish and Wildlife Service. Ashe spent his childhood in Atlanta, Georgia, where his father began a 37-year career with the Service. Ashe joined the agency in 1995 and served in multiple career positions, including Deputy Director for Policy, before becoming Director in 2011. Ashe also led the National Wildlife Refuge System and served as Science Advisor to the Director. Prior to joining the Service, Ashe served on the staff of the former House Committee on Merchant Marine and Fisheries. In 13 years on Capitol Hill, Ashe served in several capacities, advising the Committee's Chairmen and Members on a wide range of environmental policy issues. Ashe holds a graduate degree in marine affairs from the University of Washington, and a bachelors degree in biology from Florida State University. He is an avid waterfowl hunter, angler and tennis player.

Mr. Dan Foote was appointed as Deputy Assistant Secretary in the Department of State's Bureau of International Narcotics and Law Enforcement (INL) in September 2015. He oversees INL program activities in Afghanistan and Pakistan, in addition to INL's Office of Anticrime Programs. Prior to his appointment, Mr. Foote was the Coordinating Director at Embassy Kabul, managing all U.S. civilian foreign assistance and law enforcement activities in Afghanistan. He served twice as Deputy Chief of Mission; in Santo Domingo, Dominican Republic and Port-au-Prince, Haiti. Previously, he headed INL's Colombia operations as INL Director at Embassy Bogotá, and led the U.S. Provincial Reconstruction Team in Maysan province, Iraq. Dan also served as Management Counselor in Buenos Aires, and as a member of the Regional Reconstruction Team in Erbil, Iraq. His other overseas postings include Luxembourg, London, and Guadalajara, Mexico. In Washington, he has worked in the State Department's Operations Center and in the Bureau of European and Eurasian Affairs. Mr. Foote holds a Bachelor of Arts degree in Economics from Columbia University, where he lettered in football and track and field. After graduation, he worked as a natural gas trader/broker in the New York City area for several years. Thereafter, he devoted two years as a Peace Corps volunteer in rural Bolivia, where he managed extensive development projects. After returning to the U.S., he taught high school Spanish and coached varsity football and track-and-field prior to joining the Department of State. A career member of the Senior Foreign Service, Dan is a native of Syracuse, New York, and attended high school in the Buffalo area.

Mr. David M. Luna is the Senior Director for National Security and Diplomacy, Office of Anti-Crime Programs, INL, U.S. Department of State. He helps coordinate diplomatic initiatives on national security and threat convergence including international organized crime, corruption, money laundering, terrorist financing, IPR enforcement, consumer counterfeits, cybersecurity/cybercrime, environmental crime (wildlife trafficking, illegal logging, illicit fisheries; climate change and national security), and smuggling/trafficking crimes that impact the US homeland, and destabilize global security and world order. He has worked with governments, international organizations, private sector, and NGOs throughout the world to strengthen the rule of law and criminal justice systems to improve the state of the world, secure an enduring peace, build tomorrow's growth markets and investment frontiers, and nurture an inclusive, sustainable, green future for communities by addressing global threats/navigating geo-security risks. He has participated in numerous global summits, multilateral and inter-governmental meetings and initiatives including involving the United Nations, NATO, World Bank, G7/G20, EU, OECD, APEC, ASEAN, OAS, Arab League, and other fora. Mr. Luna's former professional stints include the United States Congress and the following U.S. Government Executive agencies: Director, Transnational Threats and Illicit Networks (Anti-Crime Programs), INL; Director for Anticorruption and Governance Initiatives, INL; Special Advisor for the Rule of Law, INL/Secretary's Rule of Law Coordinator Office, U.S. Department of State; Assistant Counsel to the President, Office of the Counsel to the President, The White House; Special Assistant for Congressional and Intergovernmental Affairs, Office of the Secretary, U.S. Department of Labor; and Special Assistant to the Special Counsel, Committee on Banking, United States Senate. Mr. Luna is Chair of the OECD Task Force on Charting Illicit Trade; Co-Chair of G7 Roma-Lyon Group of Experts on Combating Illegal Wildlife Trafficking; co-Chair of the U.S.-China JLG Anticorruption Working Group; Member of Global Initiative against Transnational Organized Crime; and former Vice-Chair of the World Economic Forum's Global Agenda Council on Illicit Trade and Organized Crime, and current member of WEF Global Agenda Task Force on Human Trafficking. Mr. Luna is a graduate of the U.S. Army War College and received his B.A. from the University of Pennsylvania and his J.D. from The Columbus School of Law, The Catholic University of America.

Dr. Lee Schwartz is the Geographer of the United States, and is the Director of the Office of The Geographer and the Intelligence Research Bureau. He is responsible for providing guidance to all federal agencies on international boundaries and sovereignty claims. He also oversees the Humanitarian Information Unit – a U.S. government interagency organization focused on unclassified data coordination and dissemination for emergency preparedness, response, and mitigation. He was the State Department's 2005 winner of the Warren Christopher Award for Outstanding Achievement in Global Affairs and the Association of American Geographer's 2012 recipient of the Anderson Medal in Applied Geography. His fieldwork has focused on ethnic conflict, refugee flows, peacekeeping operations, and strategic warning. Dr. Schwartz earned his Ph.D. in geography from Columbia University.

Ms. Christine Dawson is currently the Director of the Office of Conservation and Water in the Bureau of Oceans and International Environmental and Scientific Affairs (OES) at the U.S. Department of State. She has held numerous positions in the State Department, including Acting Deputy Assistant Secretary of State for Environment, member of the Policy Planning Staff in the Office of the Secretary of State, and Senior Advisor to the Under Secretary for Economic Affairs. She was an adjunct professor at Georgetown University's Graduate School of Foreign Service, lecturing on international negotiations and international environmental policy, and served as the first Director of the Global Issues Program at The Aspen Institute. She also served as the senior foreign policy advisor to several U.S. Senators and worked for the UN Food and Agriculture Organization in Rome. She has been a member of the Council on Foreign Relations since 1994.

Ms. Karen Wardzinski is the Chief of the Law & Policy Section for the Department of Justice's Environment and Natural Resources Division (ENRD), a position she has held for almost 6 years. In this position Ms. Wardzinski advises the Assistant Attorney General for ENRD on legal and policy matters affecting all aspects of the Division's practice, and among other things supervises the Division's staff handling international legal and trade matters. Ms. Wardzinski is DOJ's staff lead on the Presidential Task Force to Combat Wildlife Trafficking. Prior to joining DOJ, she was a partner in private practice in the DC firm of Freedman, Levy, Kroll & Simonds where she handled a broad variety of environmental and civil enforcement issues under many of EPA's major statutes such as the Clean Water Act, the Clean Air Act, and the Comprehensive Environmental Response Compensation and Liability Act. She started her legal career with the U.S. Environmental Protection Agency's Office of General Counsel. She is a graduate of the University of Colorado School of Law in Boulder, Colorado.

Dr. Mary Rowen is the Senior Biodiversity Policy Advisor in USAID's Bureau for Economic Growth, Education and Environment, Office of Forestry and Biodiversity. Mary coordinates USAID's programs on combating wildlife trafficking and is the USAID technical lead on the President's Task Force on Combating Wildlife Trafficking. Her areas of expertise include wildlife ecology and management, dryland management, and transboundary/landscape scale conservation. Mary also leads USAID participation on US Delegations for the UN Convention to Combat Desertification, the Convention on Biological Diversity and IUCN. She received a Doctor of Forestry and Environmental Studies from Yale University's School of Forestry and Environmental Studies focusing on conservation of the endangered Grevy's zebra. She continued her focus on wildlife conservation for her post-doc fellowship at the Jacob Blaustein Institutes for Desert Research. Mary began at USAID in 1997 as an AAAS Fellow.

Mr. Paul Beiriger is the Special Agent in Charge of the Investigations Unit for the U.S. Fish and Wildlife Service, Office of Law Enforcement at headquarters. SAC Beiriger has worked for the USFWS his entire career beginning in early 1988 and has since worked in seven duty stations before recently coming to headquarters. As a field agent he worked numerous investigations involving industry and international trade including long term undercover cases involving caviar, reptiles and ginseng which all resulted in numerous successful prosecutions. As a supervisor he provided direct oversight of a large undercover commercial fishing investigation on the Great Lakes.

Mr. Steven G. Alness is the Deputy Director, Office of Future Experience in the Experience Directorate at the National Geospatial-Intelligence Agency. Mr. Alness is the currently leading content coordination for GEOINT Services and enhancing the customer user experience with a primary a focus on conveying the best available GEOINT in cooperation with NGA partners. Mr. Alness has been employed by the National Geospatial-Intelligence Agency (NGA) and its predecessor Agencies, National Imagery and Mapping Agency (NIMA) and Defense Mapping Agency (DMA) for 25 years. Mr. Alness has held a variety of production and management positions across the spectrum of geospatial activities, including GEOINT information sharing nationally and internationally, production, production management, system management and system administration. He has technical expertise in surveying, photogrammetry, precise point positioning, geospatial-intelligence analysis and system development.

Dr. Odean Serrano was designated by the DNI as the Intelligence Community Lead for Combating Wildlife Trafficking on assignment from NGA to the ODNI, NIM Africa. In this capacity she designs, organizes and leads Inter-agency engagement to leverage and share data and analysis among all CWT stakeholders spanning national and international governments, NGO's, academia, and industry in order to holistically harness expertise and enhance knowledge in support of national intelligence priorities. Prior to this assignment she led the Environmental Geography Community of Practice for the IC focusing on the influence of: Water, Climate, Food, Land Use, Hazards, and Ecosystems regarding human security issues. Prior to her 12 years NGA, she worked 12 years at NASA Headquarters leading environmental programs and at Kennedy Space Center as a Shuttle Operations Engineer. Serrano has a BS in Mathematics from the University of S. Florida; an MS in Environmental Science & Policy from Johns Hopkins University; and a PhD in Environmental Science & Policy from George Mason University.

Mr. A.J. Clark is the Chair for Information Sharing within the Organization for Economic Development's (OECD) Task Force on Countering Illicit Trade (TF-CIT) and CEO of Thermopylae Sciences and Technology (TST). TST is an award-winning technology company that has routinely been Google's annual premiere partner in the US and Internationally for geospatial technologies. Mr. Clark has over 20 years of business management and technology experience. He has worked in leadership roles with Fortune 500 Companies, Public Sector Organizations, and supported Non-Government Organizations. Additionally, his career has included time in the Middle East, Central Asia, Latin America, and Europe. He is active philanthropically and internationally via US Delegations to intergovernmental forums that focus on achieving better policies through leveraging information.

Dr. Vanda Felbab-Brown is a senior fellow in Foreign Policy at the Brookings Institution and co-director of the Brookings projects on Improving Global Drug Policy: Comparative Perspectives and UNGASS 2016 and Reconstituting Local Orders. Dr. Felbab-Brown is an expert on illicit economies and organized crime and international and internal conflicts and their management, including counterinsurgency and statebuilding. Her research focuses particularly on South Asia, Burma, the Andean region, Mexico, and Somalia, and she has conducted fieldwork in some of the most dangerous parts of the world. Dr. Felbab-Brown has an extensive publication list of books, policy reports, academic articles, and opinion pieces, including *The Extinction Market: Wildlife Trafficking and How to Combat It* (forthcoming 2016); *Narco Noir: Mexico's Cartels, Cops, and Corruption* (forthcoming 2017); *Aspiration and Ambivalence: Strategies and Realities of Counterinsurgency and State-building in Afghanistan* (2013); and *Shooting Up: Counterinsurgency and the War on Drugs* (2010). Dr. Felbab-Brown is a frequent consultant for national, multilateral, and non-governmental organizations and a frequent commentator in U.S. and international media. She also regularly provides expert testimony to the US Congress. Prior to joining the Brookings Institution, Dr. Felbab-Brown was an Assistant Professor at the Georgetown University School for Foreign Service. She received her PhD in political science from MIT and her BA from Harvard University.

Mr. John Scanlon has had a unique range of experience with environment and sustainable development policy, law, institutions and governance at the international, national, sub-national and local level.

His work experience has been gained in the private sector, in government, with the United Nations and with international organizations, as a leader, manager, professional adviser and legal practitioner, as well as through senior voluntary positions with the non government sector.

John joined the Convention on International Trade in Endangered Species of Wild Fauna and Flora (CITES) as Secretary-General in May, 2010.

His previous international appointments include:

- Principal Advisor to the Executive Director of UNEP (Nairobi, Kenya) and Team Leader, Strategic Implementation Team;
- Strategic Advisor, the World Commission on Dams (Cape Town, South Africa);
- Head, IUCN Environmental Law Programme and Director, IUCN Environmental Law Centre (Bonn, Germany),
- Legal advisor on projects in Botswana, Guyana, the Russian Federation, and Viet Nam.

His Australian appointments include:

- Chief Executive, Department of Environment, Heritage and Aboriginal Affairs (Adelaide, Australia) and Commissioner, Murray-Darling Basin Commission;
- Deputy Director General, Department of Infrastructure, Planning and Natural Resources (Sydney, Australia);
- Chief of Staff, Minister for Environment and Natural Resources (Adelaide, Australia) and Acting Policy Advisor, Australian Federal Minister for the Environment (Canberra, Australia);
- Partner in Charge of Environmental Law, Ward and Partners, Lawyers (Adelaide, Australia).

John served as President of the National Environmental Law Association of Australia (SA Division) for three terms, was the founding chair of the Environmental Law Community Advisory Service (SA) in 1992 (now called the Environmental Defender's Office), and is a member of the IUCN World Commission on Environmental Law (since 1995) and the World Commission on Protected Areas. John was admitted to legal practice in 1984, holds a Bachelor of Laws (1983), Master of Laws (Environmental) (1995), and is an accredited mediator (1996).

John has been awarded: the Member of the Order of Australia (AM) for service to environmental law nationally and internationally (2011); the Center for International Environmental Law (CIEL) International Environmental Law Award (2013); and the Baobab Award for Innovation (UNEP 2014). In 2015 John was made an Honorary ZSL Conservation Fellow (Zoological Society of London) and awarded the Doctor Honoris Causa by the Ilia State University, Georgia.

Why we must all embrace space technology in managing wildlife

Message from the Cabinet Secretary, Ministry of Environment and Natural Resources

Kenya is greatly honoured to co-host the Conference on Space Technology and Applications for Wildlife Management and Protecting Biodiversity, with the United Nations Environment Programme (UNEP), in Nairobi.

This conference is being held at a time when the application of space technology on wildlife management is greatly needed to address the challenges of elephant and rhino poaching as well as the fragmentation of wildlife range across the globe.

Efforts to curb poaching of elephants and rhinos could not have been won in Kenya without the use of space technology. Kenya has used space technology to understand the movement patterns, home range and space use by elephants, rhinos and other wildlife.

For example, deployments of satellite-linked Geographic Positioning System (GPS) collars have enabled researchers to accurately map elephant and other wildlife movement patterns, home range and migratory corridors. The information generated has guided the deployment of security personnel within the known wildlife range.

Mobile phone applications indicating specific locations of wildlife, especially in areas prone to human-wildlife conflicts, have provided managers with space technology based tools that alert them when wildlife is close to human settlements or farms. This has ensured timely management of intervention.

Monitoring of vehicles suspected of ferrying illegal wildlife products is key to arrests and conviction of suspects. Gadgets transmitting GPS locations of suspects and suspected vehicles are currently available. The intelligence units of Kenya Wildlife Service and Kenya Forest Service are using such space technology tools to enhance their intelligence gathering and investigating capabilities to ensure arrests and conviction of suspects.

The Government of Kenya will continue to support use of such space technology to secure our wildlife resources for posterity. I call upon other governments and the international community to support initiatives using space technology to enhance wildlife management in all the continents.

Current management of wildlife requires thorough understanding of wildlife habitats and associated



Prof Judi Wakhungu, EGH

threats. The aim is to map out the wildlife habitats and establish the locations of threats against the suitable wildlife habitats for appropriate corrective measures.

The main threats to wildlife habitats include increased demand for land for crop farming, increase of settlements and urban centres, uncontrolled bush fires, harvesting of timber for construction and charcoal burning.

At landscape level, the understanding of wildlife habitats and their threats can only be achieved through the use of space technology. As such, the information generated identifies habitats that require maintenance using selected habitat management techniques. It is paramount that a healthy habitat is key to ensuring health populations of wildlife.

Space technology in wildlife management cannot be applied without human resources with capacity to use it as well as accompanying software and hardware. Developing countries have limitations in these respects.

I call upon governments in developing countries to invest in capacity building on the use of space technology within their respective Ministries and lead agencies mandated to manage wildlife. I also call upon our development partners to focus their capacity building support towards training personnel on the use of space technology in wildlife management as well as provision of the required hardware and software.

Conference offers unique chance to build synergies in space policy implementation

Message from the Cabinet Secretary for Defence

The Government of Kenya recognises the potential role of the Space industry to deliver on a wide spectrum of the country's socio-economic needs, including job creation and poverty alleviation; environment and resource management; urban planning and rural development; food security and health, among others.

Space technology supports applications in security, telecommunications, navigation, positioning, astronomy and Earth observation.

Kenya is a member of the United Nations Committee on Peaceful Uses of Outer Space, and supports the implementation of the African Space Policy. Kenya continues to participate in various initiatives in space science and technology.

The Ministry of Defence has been mandated to implement the Kenya Space Policy and develop the strategic vision for the local space sector. However, the implementation will be through the Kenya Space Agency, an autonomous agency, with a board that includes representation of other stakeholders in the space sector. The main goal of the Kenya Space Policy is to promote and enhance social and economic development through the utilisation of space technology in order to uplift the standard of living for all citizens.

The policy objectives are:

- To enhance coordination of space related activities by establishing linkages among government agencies and institutions, industry and researchers.
- To establish a viable space programme that promotes a vibrant indigenous space industry that responds to the needs of the country.
- To institute sustainable capacity building and outreach programmes.
- To develop infrastructure for access to space and provision of space derived services.



Amb Raychelle Omamo, SC, EGH

- To enhance national security and defence through space technology.
- To promote national and international cooperation through mutually beneficial collaborations, partnerships and linkages.
- To promote research and development in space science and technology.

Capacity development in academia, industry and government is critical to sustain a national space programme in tandem with the latest inventions and developments. Hosting this conference accords Kenya the honour of congregating global space actors and industry players, and the opportunity of learning from different experiences.

Tourism being one of the leading foreign exchange earners for Kenya, the management and protection of wildlife and biodiversity is important for the Government, especially in this age of technological advancement.

This conference thus offers a unique opportunity for partnerships and collaborations for government, academia, industry actors and other agencies to build synergies in applications utilising space technology for sustainable development.

ABOUT THE CONFERENCE

Finding ways to enhance use of space technologies in sustaining life on land

The United Nations/Kenya Conference on Space Technology Applications for Wildlife Management and Protecting Biodiversity is co-organised by the United Nations Office for Outer Space Affairs (UNOOSA) and the Government of Kenya through the Ministry of Environment and Natural Resources (MENR).

The focus of the conference is to review existing, planned space based technologies and applications for wildlife management, and protecting biodiversity in support of meeting the relevant targets set out for Sustainable Development Goal 15: "Life on Land - to protect, restore and promote sustainable use of terrestrial

ecosystems, sustainably manage forests, combat desertification, halt and reverse land degradation, and halt biodiversity loss".

The conference brings together stakeholders involved in biodiversity and wildlife management. They include representatives of space industry, governmental and non-governmental

organisations and expert communities, as well as the relevant space applications and geo-spatial experts. Users of such applications, among them park rangers and wildlife managers, will also participate to share their needs and experiences, as the experts present existing and planned space technologies and applications.

A number of topics will be considered in dedicated sessions under the following themes:

- Wildlife Management and Protecting Biodiversity: Issues and Space Technology Solutions
- Biodiversity Assessment
- Ecosystem and Wildlife Habitat

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United Nations/Kenya Conference on Space Technology and Applications for Wildlife Management and Protecting Biodiversity



Date: 27-30 June 2016 Venue: Nairobi, Kenya

ABOUT THE CONFERENCE

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Management

- The Benefits of Space Solutions for National Reports to International and Regional Legal Agreements
- Wildlife Monitoring and Tracking, Including Through Collaborative Platform and Social Networks
- Addressing Wildlife Crime
- Legal and Regulatory Aspects
- Capacity Building
- The Benefits of Space Solutions for Awareness Raising and Outreach
- International Experiences and Cooperation Opportunities
- Observations and Recommendations and the Way Forward

The pressures resulting from climate change, ecosystems loss and wildlife crime are threatening biodiversity and wildlife globally.

In response, space-based technologies have been applied to develop a wide range of applications, initiatives and projects to monitor, assess and manage biodiversity and ecosystems towards sustainable environmental development. They include earth observation satellites and their geospatial data, satellite-communications and global navigation satellite systems.

In addition, addressing the legal and regulatory aspects, including governance and policy challenges, will support the application of space-based technologies in sustaining life on land.

Use of space technology to monitor, protect biodiversity a new thematic priority for UNOOSA

Message from UNOOSA Director

More than 250 actors from around the world involved in biodiversity and wildlife management are gathering in Nairobi this week to consider how space technology can be used to protect the planet's wildlife and biodiversity.

The United Nations/Kenya Conference on Space Technology and Applications for Wildlife Management and Protecting Biodiversity opens today and runs until 30 June.

The conference is an initiative of the United Nations Office for Outer Space Affairs (UNOOSA), which has organised it in conjunction with the Government of the Republic of Kenya.

Pressures from climate change, ecosystem loss and wildlife crime are threatening biodiversity and wildlife around the globe. In response to this, a wide range of applications, initiatives and projects have been developed, all of which use space-based technologies – such as imagery collected by Earth Observation satellites and satellite-derived geospatial data, satellite-communications and global navigation satellite systems – to monitor, assess and manage biodiversity



Simonetta Di Pippo

and ecosystems in support of sustainable environmental development.

The conference has brought together actors from around the world involved in biodiversity and wildlife management, including representatives of space industry, governmental and non-governmental organisations, technology experts, national park authorities and rangers, and wildlife managers, to share their experiences and requirements, build cooperation and develop recommendations.

The programme consists of keynote and expert talks, panel discussions and poster presentations. The results of this conference will feed into UNOOSA's preparatory process

for UNISPACE+50, a special segment of the Committee on the Peaceful Uses of Outer Space, to mark the 50th anniversary (in 2018) of the first United Nations Conference on the Exploration and Peaceful Uses of Outer Space.

The conference is co-hosted by the United Nations Environment Programme (UNEP) and co-sponsored by the United Nations Office on Drugs and Crime (UNODC) and the European Space Agency (ESA).

Biodiversity monitoring and protection is a new thematic priority for UNOOSA's Programme on Space Applications. I am pleased we have brought together other UN entities, as well as governmental and non-governmental partners to promote such an important and impactful use of space technology.



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Space expertise will enable us save the last great species and places on earth

Message from the Kenya Wildlife Service Director General

Kenya Wildlife Service (KWS) is proud to be associated with this conference, whose focus is on the use of space based solutions for wildlife management and protecting biodiversity. As Kenya's lead agency in wildlife conservation, KWS stands to benefit from the deliberations of the delegates from diverse backgrounds attending the conference.

We hope to share ideas on our experience in the use of space technology and learn from our peers, who could be ahead of us in the use of this technology. There is no gainsaying that technology is key to addressing many of the challenges facing humankind and by extension wildlife as we strive to protect our precious national heritage.

I note that the focus of the conference is to review existing and planned space based



Mr Kitili Mbatia

technologies and applications for wildlife management and protecting biodiversity in support of meeting the relevant targets set out for Sustainable Development Goal 15. This is an excellent focus, since we shall, as it were, be evaluating our successes and failures in the use of space technology, with a view to drawing lessons learnt

for future endeavours in conserving wildlife.

KWS is therefore greatly honoured to participate in this conference. We hope that practical solutions will emerge from its deliberations for us to apply towards realising our mission to sustainably conserve, manage and enhance Kenya's wildlife and its habitats, and provide a wide range

of public uses in collaboration with stakeholders, for prosperity.

KWS manages approximately 8 per cent of the total land mass in Kenya, that consists of 23 national parks, 31 national reserves and 6 national sanctuaries, 4 marine national parks and 6 marine national reserves. In addition, the Service has 154 field stations for management of wildlife

outside protected areas, which account for about 60 per cent of the total wildlife population in the country.

With such a big jurisdiction to cover and manage the wildlife within it, space technology will stand us in good stead to realise our vision to save the last great species and places on earth for humanity.



Endangered wildlife species: The Elephant (left) and Northern White Rhinos (right).