



June 2021

Front matter Vol. 12 No. 2

Space and Defense

Follow this and additional works at: <https://digitalcommons.unomaha.edu/spaceanddefense>

 Part of the Asian Studies Commons, Aviation and Space Education Commons, Defense and Security Studies Commons, Eastern European Studies Commons, International Relations Commons, Leadership Studies Commons, Near and Middle Eastern Studies Commons, Nuclear Engineering Commons, Science and Technology Studies Commons, and the Space Vehicles Commons

Please take our feedback survey at: https://unomaha.az1.qualtrics.com/jfe/form/SV_8cchtFmpDyGfBLE

Recommended Citation

Space and Defense (2021) "Front matter Vol. 12 No. 2," *Space and Defense*: Vol. 12: No. 3, Article 1.
Available at: <https://digitalcommons.unomaha.edu/spaceanddefense/vol12/iss3/1>

This Article is brought to you for free and open access by
DigitalCommons@UNO. It has been accepted for
inclusion in Space and Defense by an authorized editor of
DigitalCommons@UNO. For more information, please
contact unodigitalcommons@unomaha.edu.

SPACE AND DEFENSE

INNOVATIONS IN DETERRENCE
AND NATIONAL SECURITY



UNITED STATES

AIR FORCE ACADEMY

UNIVERSITY OF
Nebraska
Omaha



SPACE AND DEFENSE

INNOVATIONS IN DETERRENCE AND NATIONAL SECURITY

FROM

THE UNITED STATES AIR FORCE ACADEMY EISENHOWER

CENTER FOR SPACE AND DEFENSE STUDIES

AND

THE UNIVERSITY OF NEBRASKA AT OMAHA

COLLEGE OF ARTS AND SCIENCES

Editorial Board

Publisher and Chair of Editorial Board

Col. Kris Bauman
Director, Eisenhower Center for Space and Defense Studies

Editors-in-Chief

Dr. Damon Coletta
U.S. Air Force Academy

Dr. Michelle Black
University of Nebraska at Omaha

Assistant Editors

C1C Rhiannon Townsend
U.S. Air Force Academy

Ms. Yen Huynh
University of Nebraska at Omaha

Associate Editors

Mr. Deron Jackson
U.S. Air Force Academy

Dr. Peter Hays
George Washington University

Dr. Schuyler Foerster
U.S. Air Force Academy

Ms. Elsbeth Magilton
University of Nebraska at Lincoln

Ms. Jonty Kasku-Jackson
National Security Space Institute

Dr. Lana Obradovic
University of Nebraska at Omaha

Space and Defense should be acknowledged whenever material is quoted from or based on its content. The opinions, conclusions, and recommendations expressed or implied within are those of the contributors and, unless otherwise specified, do not reflect official views of the U.S. Government or the U.S. Air Force Academy. This cover has been designed using resources from freepik.com. Space and Defense is available at the University of Nebraska Omaha Digital Commons, <https://digitalcommons.unomaha.edu/spaceanddefense> and indexed by ©EBSCOhost and

United States Library of Congress, ISSN 2380-131X.

Space and Defense - Summer 2021

Special Thanks to our Current and Past Reviewers

Andrew Aldrin <i>United Launch Alliance</i>	Molly Macauley <i>Resources for the Future</i>	Benjamin Shearn <i>George Mason University</i>
James Armor <i>ATK</i>	Torey McMurdo <i>Yale U./ U.S. Naval War College</i>	Rouven Steeves <i>U.S. Air Force Academy</i>
Steven Beard <i>Univ. of California San Diego</i>	Clay Moltz <i>Naval Postgraduate School</i>	Dimitrios Stroikos <i>London School of Economics, United Kingdom</i>
William Barry <i>NASA</i>	Scott Pace <i>George Washington University</i>	Brent Talbot <i>U.S. Air Force Academy</i>
Daniel Blinder <i>UNSAM-CONICET, Argentina</i>	Xavier Pasco <i>Foundation for Strategic Research, France</i>	Susan Trepczynski <i>United States Air Force</i>
Robert Callahan <i>NORAD-NORTHCOM</i>	Elliot Pulham (In Memoriam) <i>Space Foundation</i>	Scott Trimboli <i>University of Colorado, Colorado Springs</i>
James Cameron <i>Fundação Getúlio Vargas, Brazil</i>	Wolfgang Rathbeger <i>European Space Policy Institute, Austria</i>	James Vedda <i>Aerospace Corporation</i>
Robert Carriedo <i>U.S. Air Force Academy</i>	Dean Cheng <i>Heritage Foundation</i>	Rick Walker <i>Digital Consulting Services</i>
Jason Healey <i>Atlantic Council</i>	Christopher Culver <i>U.S. Air Force Academy</i>	Annalisa Weigel <i>Massachusetts Institute of Technology</i>
Stephen Herzog <i>Yale University</i>	Frans von der Dunk <i>University of Nebraska</i>	David Whalen <i>University of North Dakota</i>
Theresa Hitchens <i>United Nations, Switzerland</i>	Christopher Dunlap <i>Naval Postgraduate School</i>	George Whitesides <i>NASA Headquarters</i>
Wade Huntley <i>Independent Researcher, U.S.A</i>	Paul Eckart <i>Boeing</i>	Ray Williamson <i>Secure Word Foundation</i>
Lauren Ice <i>Johns Hopkins Applied Physics Lab</i>	Andrew Erickson <i>Naval War College</i>	
Ram Jakhu <i>McGill University, Canada</i>	James Fielder <i>Colorado State University</i>	
Dana Johnson <i>Department of State, USA</i>	Joanne Gabrynowicz <i>University of Mississippi</i>	
Jaclyn Kerr <i>Lawrence Livermore, CGSR</i>	Andrew Reddie <i>University of California, Berkeley</i>	
Roger Launius <i>National Air and Space Museum</i>	John Riley <i>U.S. Air Force Academy</i>	
Charlotte Lee <i>Berkeley City College</i>	Chiara Ruffa <i>Swedish Defence University, Sweden</i>	
John Logsdon <i>George Washington University</i>	Victoria Samson <i>Secure World Foundation</i>	
Laura Delgado Lopez <i>Secure World Foundation</i>	Jaganath Sankaran <i>Los Alamos National Laboratory</i>	
Adam Lowther <i>SANDS, Kirtland AFB</i>	Matthew Schaefer <i>University of Nebraska</i>	
Agnieszka Lukaszczyk <i>Secure World Foundation, Belgium</i>		