



# CENTER FOR THE STUDY OF NATIONAL RECONNAISSANCE

# UNCLASSIFIED INDEX FOR NATIONAL RECONNAISSANCE JOURNAL OF THE DISCIPLINE AND PRACTICE



# TABLE OF CONTENTS

FOREWORD	. ii
AUTHOR INDEX	5
TITLE INDEX	7
SUBJECT INDEX	9
APPENDIX-LIST OF UNCLASSIFIED JOURNAL ISSUES	18

# **FOREWORD**

This is an index of articles published in unclassified editions of *National Reconnaissance Journal of the Discipline and Practice. National Reconnaissance* is a scholarly journal the Center for the Study of National Reconnaissance (CSNR) publishes on an occasional basis, both in print and digital formats. As individual articles become available, the CSNR issues advanced, pre-print versions.

The CSNR publishes the *Journal* for the information, education, and use of the broader national security community, especially those government and contractor personnel who are involved with national reconnaissance. The objective is to promote dialogue among these professionals and to identify lessons by facilitating a synthesis of the technical, operational, and policy components that define and shape the enterprise of national reconnaissance.

The knowledge that is accumulating in the collection of *Journal* articles is a valuable resource not only for the NRO workforce, but also for the other members of the Intelligence Community, as well as for the users of NRO products and resources.

The CSNR prepared this index as a resource for readers to find articles of interest. This index includes all *Journal* articles, to include those published in bound, printed issues, those published as pre-prints and re-prints, and those posted digitally on-line in advance of printed versions and consolidated issues.

The index is organized into three sections: author index, title index, and subject index. We listed all entries alphabetically in each section.

Robert A. McDonald, Ph.D. Director, Center for the Study of National Reconnaissance

# **AUTHOR INDEX**

- Araki, S. and Treat, S. (2012). "Hexagon-"No Single Failure Shall Abort the Mission"-Managing System Integration for the NRO's Wide-Area Search Satellite from the Lockheed Missile and Space Company's Perspective." National Reconnaissance Journal of the Discipline and Practice, 2012-U1, 85-102.
- Baclawski, J.A. and Nath T.B. (2018). "The Civil Applications Committee's Role in National Reconnaissance." National Reconnaissance Journal of the Discipline and Practice, Advanced Pre-print, 6 pp. apx. [Originally published in 2002 in CSNR Bulletin, Combined 2002 Issue].
- Berkowitz, B. (2015). "Lessons Learned Organizational Culture, and the Future of the National Reconnaissance Office." Digital Pre-print, 18 pp. apx.
- Berkowitz, B. (2012). "The Soviet Target-Highlights in the Intelligence Value of Gambit and Hexagon, 1963-1984." *National Reconnaissance Journal of the Discipline and Practice*, 2012-U1, 103-120.
- Cornette, W.M. (2009). Book Review on "The Jasons: The Secret History of Science's Postwar Elite." by Ann K. Finkbeiner. *National Reconnaissance Journal of the Discipline and Practice*, 2009-U, 81-84.
- Fitzgerald, D.D. (2005). Commentary on: Kohler's "Recapturing What Made the NRO Great: Updated Observations on "The Decline of the NRO." National Reconnaissance Journal of the Discipline and Practice, 2005-U1, 59-65.
- Fitzgerald, D. D. (2005). Commentary on: "The Decline of the National Reconnaissance Office": The NRO Leadership Replies." *National Reconnaissance Journal of the Discipline and Practice*, 2005-U1, 45–49.
- Fitzgerald, D. D. (2009). Commentary on: "The Implications of Losing Focus: The Need for the NRO to Change Its Business Practices." *National Reconnaissance Journal of the Discipline and Practice*, 2009-U, 85-92.
- Fitzgerald, D.D. (2005). "Risk Management and National Reconnaissance From the Cold War Up to the Global War on Terrorism." *National Reconnaissance Journal of the Discipline and Practice*, 2005-U1, 9-18.
- Helman, J.J. (2018). "General James 'Jimmy' Doolittle: A Leader in the Evolution of National Reconnaissance." National Reconnaissance Journal of the Discipline and Practice, Advanced Pre-print, 4 pp. apx. [Originally published in 2001 in CSNR Bulletin, Summer-Fall 2001, No. 2001-2].
- Kohler, R. (2005). "One Officer's Perspective: The Decline of the National Reconnaissance Office." National Reconnaissance Journal of the Discipline and Practice, 2005-U1, 35-44.
- Kohler, R. (2005). "Recapturing What Made the NRO Great: Updated Observations on "The Decline of the NRO." National Reconnaissance Journal of the Discipline and Practice, 2005-U1, 51-57.
- McDonald, R.A. (2015). "I Can See it From Afar; I Can Hear it From Afar—Intelligence from Space." *National Reconnaissance Journal of the Discipline and Practice*, Advanced Pre-print, August 2015, 30 pp.
- McDonald, R.A. and Widlake, P.D. (2012). "Looking Closer and Looking Broader: Gambit and Hexagon—The Peak of Film-Return Space Reconnaissance After Corona." *National Reconnaissance Journal of the Discipline and Practice*, Pre-print, January 2012, 1-36.

- McDonald, R.A. and Widlake, P.D. (2012). "Looking Closer and Looking Broader: Gambit and Hexagon—The Peak of Film-Return Space Reconnaissance After Corona." *National Reconnaissance Journal of the Discipline and Practice*, 2012-U1, 39-74.
- Moreno, S.K. (2009). "Reflections of M. Sam Araki–Success Through Systems Engineering and Leading Lockheed Missiles and Space." National Reconnaissance Journal of the Discipline and Practice, 2009-U, 55-68.
- Moreno, S.K. (2015). "Reflections of Roger C. Marsh–Building Westfields." Accessible via the CSNR pages on the NRO.gov website, 24 pp. apx.
- Moreno, S.K. (2015). "Westfields—Separating Facts from Flamboyant Headlines: The Story of the NRO's Consolidation into One Building (1988-1996)." Digital Pre-print, 48 pp. apx.
- Nath, T.B., Sieh, K., and Jones, C. (2018). "Pioneer 2000-Recognizing Personal Contributions." National Reconnaissance Journal of the Discipline and Practice, Advanced Pre-print, 5 pp. [Originally published in 2001 in CSNR Bulletin, Winter-Spring, No. 2001-11.]
- Ragusa, P. (2012). "Gambit-3: Engineering an Innovative High-Resolution Reconnaissance Satellite-Program Management from the Lockheed Missile and Space Company's Perspective." National Reconnaissance Journal of the Discipline and Practice, 2012-U1, 75-84.
- Schultz, S.D. (2018). "An Emerging Role for National Reconnaissance in National Security: Getting Beyond the Fallacy of the 'Satellites Versus Humint' Debate." *National Reconnaissance Journal of the Discipline and Practice*, 2018 Pre-print (forthcoming).
- Schultz, S.D. (2009). "From Camp Incarceration to U.S. National Reconnaissance: The Case of Two Americans of Japanese Ancestry-NRO Pioneer Sam Araki and Former DDNRO Dr. F. Robert Naka." National Reconnaissance Journal of the Discipline and Practice, 2009-U, 27-53.
- Schultz, S.D. (2012). "Why Gambit and Hexagon? U.S. National Security and the Geopolitical Setting, 1957-1960." National Reconnaissance Journal of the Discipline and Practice, 2012-U1, 1-38.
- Stukes, J. (2009). "Protecting Sources and Methods versus the Public's Right to Know: Setting the Terms for a More Constructive Discussion." *National Reconnaissance Journal of the Discipline and Practice*, 2009-U, 7-26.
- Temple, L.P. (2018). "The Second Great Divide." Digital Pre-print, 46 pp. apx.
- Widlake, P.D., Kiser, G., and Harris, E. (2007). "Extending Technological Capabilities to Address U.S. National Security Challenges: The 2007 National Reconnaissance Pioneers, Mr. Sun Yet Wong and Dr. Paul Kaminski". National Reconnaissance Journal of the Discipline and Practice, Pre-print, 2007–U1, 1-9.
- Widlake, P.D. (2005). "National Reconnaissance Leadership for the 21st Century: Lessons from the NRO's Heritage." National Reconnaissance Journal of the Discipline and Practice, 2005-U1, 19-34.
- Widlake, P.D. (2009). "Reflections of F. Robert Naka-Building Reconnaissance Systems and Running the National Reconnaissance Office." National Reconnaissance Journal of the Discipline and Practice, 2009-U, 69-79.
- Widlake, P.D. (2015). "Solving Problems on the 'Edge of What was Possible': Conceiving Solutions to the Most Difficult Intelligence Problems—The 2011 Pioneers of National Reconnaissance." Accessible via the CSNR pages on the NRO.gov website, 34 pp. apx.

Widlake, P.D. (2018). "Where did the Alphabetic Program Offices Go? A Lesson in Organizational Change." *National Reconnaissance Journal of the Discipline and Practice*, 2018 Pre-print (forthcoming).

# TITLE INDEX

- "An Emerging Role for National Reconnaissance in National Security: Getting Beyond the Fallacy of the 'Satellites Versus Humint' Debate," Schultz, S.D. (2018). National Reconnaissance Journal of the Discipline and Practice, 2018 Pre-print (forthcoming).
- Book Review on "The Jasons: The Secret History of Science's Postwar Elite," by Ann K. Finkbeiner. Cornette, W.M. (2009). *National Reconnaissance Journal of the Discipline and Practice*, 2009-U, 81-84.
- "The Civil Applications Committee's Role in National Reconnaissance," Baclawski, J.A. and Nath T.B.(2002). *National Reconnaissance Journal of the Discipline and Practice*, Advanced Pre-print, 6 pp. apx. [Originally published in 2002 in CSNR Bulletin, Combined 2002 Issue].
- Commentary on: "Kohler's 'Recapturing What Made the NRO Great: Updated Observations on The Decline of the NRO," Fitzgerald, D.D. (2005). National Reconnaissance Journal of the Discipline and Practice, 2005-U1, 59-65.
- Commentary on: "The Decline of the National Reconnaissance Office: The NRO Leadership Replies," Fitzgerald, D.D. (2005). National Reconnaissance Journal of the Discipline and Practice, 2005–U1, 45–49.
- Commentary on: "The Implications of Losing Focus: The Need for the NRO to Change Its Business Practices," Fitzgerald, D. D. (2009). *National Reconnaissance Journal of the Discipline and Practice*, 2009-U, 85-92.
- "Extending Technological Capabilities to Address U.S. National Security Challenges: The 2007 National Reconnaissance Pioneers, Mr. Sun Yet Wong and Dr. Paul Kaminski," Widlake, P., Kiser, G., and Harris, E. (2007). *National Reconnaissance Journal of the Discipline and Practice*, Pre-print, 2007–U1, 1-9.
- "From Camp Incarceration to U.S. National Reconnaissance: The Case of Two Americans of Japanese Ancestry-NRO Pioneer Sam Araki and Former DDNRO Dr. F. Robert Naka," Schultz, S.D. (2009). National Reconnaissance Journal of the Discipline and Practice, 2009-U, 27-53.
- "Gambit-3: Engineering an Innovative High-Resolution Reconnaissance Satellite-Program Management from the Lockheed Missile and Space Company's Perspective," Ragusa, P. (2012). National Reconnaissance Journal of the Discipline and Practice, 2012-U1, 75-84.
- "General James 'Jimmy' Doolittle: A Leader in the Evolution of National Reconnaissance," Helman, J.J. (2018). National Reconnaissance Journal of the Discipline and Practice, Advanced Pre-print, 4 pp. apx.
- "Hexagon-"No Single Failure Shall Abort the Mission"- Managing System Integration for the NRO's Wide-Area Search Satellite from the Lockheed Missile and Space Company's Perspective," Araki, S. and Treat, S. (2012). National Reconnaissance Journal of the Discipline and Practice, 2012-U1, 85-102.
- "I Can See it From Afar; I Can Hear it From Afar-Intelligence from Space," McDonald, R.A. (2015). National Reconnaissance Journal of the Discipline and Practice, Advanced Preprint, August 2015, 1-30.

- "Lessons Learned Organizational Culture, and the Future of the National Reconnaissance Office," Berkowitz, B. (2015). Digital Pre-print, 18 pp. apx.
- "Looking Closer and Looking Broader: Gambit and Hexagon—The Peak of Film-Return Space Reconnaissance After Corona," McDonald, R.A. and Widlake, P.D. (2012). National Reconnaissance Journal of the Discipline and Practice, Pre-print, January 2012, 36 pp.
- "Looking Closer and Looking Broader: Gambit and Hexagon-The Peak of Film-Return Space Reconnaissance After Corona," McDonald, R.A. and Widlake, P.D. (2012). National Reconnaissance Journal of the Discipline and Practice, 2012-U1, 39-74.
- "National Reconnaissance Leadership for the 21st Century: Lessons from the NRO's Heritage," Widlake, P.D. (2005). *National Reconnaissance Journal of the Discipline and Practice*, 2005-U1, 19-34.
- "One Officer's Perspective: The Decline of the National Reconnaissance Office," Kohler, R. (2005). *National Reconnaissance Journal of the Discipline and Practice*, 2005-U1, 35-44.
- "Pioneer 2000-Recognizing Personal Contributions," Nath, T.B., Sieh, K., and Jones, C. (2018). National Reconnaissance Journal of the Discipline and Practice, Advanced Preprint, 5 pp. apx.
- "Protecting Sources and Methods versus the Public's Right to Know: Setting the Terms for a More Constructive Discussion," Stukes, J. (2009). *National Reconnaissance Journal of the Discipline and Practice*, 2009-U, 7-26.
- "Recapturing What Made the NRO Great: Updated Observations on "The Decline of the NRO," Kohler, R. (2005). *National Reconnaissance Journal of the Discipline and Practice*, 2005-U1, 51-57.
- "Reflections of F. Robert Naka-Building Reconnaissance Systems and Running the National Reconnaissance Office, "Widlake, P.D. (2009). National Reconnaissance Journal of the Discipline and Practice, 2009-U, 69-79.
- "Reflections of M. Sam Araki–Success Through Systems Engineering and Leading Lockheed Missiles and Space," Moreno, S.K. (2009). National Reconnaissance Journal of the Discipline and Practice, 2009-U, 55-68.
- "Reflections of Roger C. Marsh–Building Westfields," Moreno, S.K. (2015). Accessible via the CSNR pages on the NRO.gov website, 24 pp. apx.
- "Risk Management and National Reconnaissance From the Cold War Up to the Global War on Terrorism," Fitzgerald, D.D. (2005). *National Reconnaissance Journal of the Discipline and Practice*, 2005-U1, 9-18.
- "The Second Great Divide," Temple, L.P. (2015). Digital Pre-print, 46 pp. apx.
- "Solving Problems on the 'Edge of What was Possible': Conceiving Solutions to the Most Difficult Intelligence Problems—The 2011 Pioneers of National Reconnaissance," Widlake, P.D. (2015). Digital Pre-print, 34 pp. apx.
- "The Soviet Target-Highlights in the Intelligence Value of Gambit and Hexagon, 1963-1984," Berkowitz, B. (2012). *National Reconnaissance Journal of the Discipline and Practice*, 2012-U1, 103-120.
- "Westfields-Separating Facts from Flamboyant Headlines: The Story of the NRO's Consolidation into One Building (1988-1996)," Moreno, S.K. (2015). Digital Pre-print, 48 pp. apx.

- "Where did the Alphabetic Program Offices Go? A Lesson in Organizational Change," Widlake, P.D. (2018). *National Reconnaissance Journal of the Discipline and Practice*, 2018 Pre-print (forthcoming).
- "Why Gambit and Hexagon? U.S. National Security and the Geopolitical Setting, 1957-1960," Schultz, S.D. (2012). *National Reconnaissance Journal of the Discipline and Practice*, 2012- U1, 1-38.

# SUBJECT INDEX

#### AGENA SPACECRAFT

"Reflections of M. Sam Araki–Success Through Systems Engineering and Leading Lockheed Missiles and Space," Moreno, S.K. (2009). National Reconnaissance Journal of the Discipline and Practice, 2009-U, 55-68.

# APPLE, INC.

Commentary on: "The Implications of Losing Focus: The Need for the NRO to Change Its Business Practices," Fitzgerald, D. D. (2009). *National Reconnaissance Journal of the Discipline and Practice*, 2009-U, 85-92.

#### **BATTLESHIPS**

Commentary on: "The Implications of Losing Focus: The Need for the NRO to Change Its Business Practices," Fitzgerald, D. D. (2009). National Reconnaissance Journal of the Discipline and Practice, 2009-U, 85-92.

## CHINA

Commentary on: "The Implications of Losing Focus: The Need for the NRO to Change Its Business Practices," Fitzgerald, D. D. (2009). *National Reconnaissance Journal of the Discipline and Practice*, 2009-U, 85-92.

# CIVIL APPLICATIONS

"The Civil Applications Committee's Role in National Reconnaissance," Baclawski, J.A. and Nath T.B. (2002). *National Reconnaissance Journal of the Discipline and Practice*, Advanced per-print, 6 pp. [Originally published in 2002 in Center for the Study of Reconnaissance Bulletin, No. 2002, Combined.]

#### CLASSIFICATION

"Protecting Sources and Methods versus the Public's Right to Know: Setting the Terms for a More Constructive Discussion," Stukes, J. (2009). *National Reconnaissance Journal* of the Discipline and Practice, 2009-U, 7-26.

#### COLD WAR

- Commentary on: "The Implications of Losing Focus: The Need for the NRO to Change Its Business Practices," Fitzgerald, D. D. (2009). National Reconnaissance Journal of the Discipline and Practice, 2009-U, 85-92.
- "General James 'Jimmy' Doolittle: A Leader in the Evolution of National Reconnaissance," Helman, J.J. (2018). National Reconnaissance Journal of the Discipline and Practice, Advanced pre-print, 4 pp. [Originally published in 2001 in Center for the Study of National Reconnaissance Bulletin, No. 2001-2, Summer-Fall.]

#### CORONA FILM-RETURN IMAGING SATELLITE

"Reflections of M. Sam Araki–Success Through Systems Engineering and Leading Lockheed Missiles and Space," Moreno, S.K. (2009). *National Reconnaissance Journal of the Discipline and Practice*, 2009-U, 55-68.

#### DECLASSIFICATION

"Protecting Sources and Methods versus the Public's Right to Know: Setting the Terms for a More Constructive Discussion," Stukes, J. (2009). *National Reconnaissance Journal of the Discipline and Practice*, 2009-U, 7-26.

#### DEFENSE INTELLIGENCE AGENCY (DIA)

Commentary on: "The Implications of Losing Focus: The Need for the NRO to Change Its Business Practices," Fitzgerald, D. D. (2009). National Reconnaissance Journal of the Discipline and Practice, 2009-U, 85-92.

#### DEPUTY DIRECTOR OF NATIONAL RECONNAISSANCE OFFICE (DDNRO)

- "From Camp Incarceration to U.S. National Reconnaissance: The Case of Two Americans of Japanese Ancestry-NRO Pioneer Sam Araki and Former DDNRO Dr. F. Robert Naka," Schultz, S.D. (2009). National Reconnaissance Journal of the Discipline and Practice, 2009-U, 27-53.
- "Reflections of F. Robert Naka-Building Reconnaissance Systems and Running the National Reconnaissance Office, "Widlake, P.D. (2009). National Reconnaissance Journal of the Discipline and Practice, 2009-U, 69-79.

#### FREEDOM OF INFORMATION ACT (FOIA)

"Protecting Sources and Methods versus the Public's Right to Know: Setting the Terms for a More Constructive Discussion," Stukes, J. (2009). National Reconnaissance Journal of the Discipline and Practice, 2009-U, 7-26.

#### **FUNDING**

Commentary on: Kohler's "Recapturing What Made the NRO Great: Updated Observations on "The Decline of the NRO," Fitzgerald, D.D. (2005). National Reconnaissance Journal of the Discipline and Practice, 2005-U1, 59-65

#### GAMBIT FILM-RETURN IMAGING SATELLITE

- Commentary on: Kohler's "Recapturing What Made the NRO Great: Updated Observations on "The Decline of the NRO," Fitzgerald, D.D. (2005). National Reconnaissance Journal of the Discipline and Practice, 2005-U1, 59-65
- Commentary on: "The Decline of the National Reconnaissance Office: The NRO Leadership Replies, " Fitzgerald, D. D. (2005). *National Reconnaissance Journal of the Discipline and Practice*, 2005–U1, 45–49.
- "Gambit-3: Engineering an Innovative High-Resolution Reconnaissance Satellite-Program Management from the Lockheed Missile and Space Company's Perspective," Ragusa, P. (2012). National Reconnaissance Journal of the Discipline and Practice, 2012-U1, 75-84.
- "Looking Closer and Looking Broader: Gambit and Hexagon—The Peak of Film-Return Space Reconnaissance After Corona," McDonald, R.A. and Widlake, P.D. (2012). National Reconnaissance Journal of the Discipline and Practice, Pre-print, January 2012, 1-36.

- "Looking Closer and Looking Broader: Gambit and Hexagon–The Peak of Film-Return Space Reconnaissance After Corona," McDonald, R.A. and Widlake, P.D. (2012). National Reconnaissance Journal of the Discipline and Practice, 2012-U1, 39-74.
- "One Officer's Perspective: The Decline of the National Reconnaissance Office," Kohler, R. (2005). National Reconnaissance Journal of the Discipline and Practice, 2005-U1, 35-44
- "Recapturing What Made the NRO Great: Updated Observations on "The Decline of the NRO," Kohler, R. (2005). National Reconnaissance Journal of the Discipline and Practice, 2005-U1, 51-57.
- "The Soviet Target-Highlights in the Intelligence Value of Gambit and Hexagon, 1963-1984," Berkowitz, B. (2012). *National Reconnaissance Journal of the Discipline and Practice*, 2012-U1, 103-120.
- "Why Gambit and Hexagon? U.S. National Security and the Geopolitical Setting, 1957-1960," Schultz, S.D. (2012). National Reconnaissance Journal of the Discipline and Practice, 2012-U1, 1-38.

#### GENERAL MOTORS

Commentary on: "The Implications of Losing Focus: The Need for the NRO to Change Its Business Practices," Fitzgerald, D. D. (2009). *National Reconnaissance Journal of the Discipline and Practice*, 2009-U, 85-92.

#### Geospatial Intelligence (GEOINT)

- "The Civil Applications Committee's Role in National Reconnaissance," Baclawski, J.A. and Nath T.B.(2002). *National Reconnaissance Journal of the Discipline and Practice*, Advanced Pre-print, 6 pp. apx.
- Commentary on: Kohler's "Recapturing What Made the NRO Great: Updated Observations on "The Decline of the NRO," Fitzgerald, D.D. (2005). National Reconnaissance Journal of the Discipline and Practice, 2005-U1, 59-65
- Commentary on: "The Decline of the National Reconnaissance Office: The NRO Leadership Replies," Fitzgerald, D. D. (2005). *National Reconnaissance Journal of the Discipline and Practice*, 2005–U1, 45–49.
- "Hexagon-"No Single Failure Shall Abort the Mission"- Managing System Integration for the NRO's Wide-Area Search Satellite from the Lockheed Missile and Space Company's Perspective," Araki, S. and Treat, S. (2012). National Reconnaissance Journal of the Discipline and Practice, 2012-U1, 85-102.
- "I Can See it From Afar; I Can Hear it From Afar-Intelligence from Space," McDonald, R.A. (2015). *National Reconnaissance Journal of the Discipline and Practice*, Advanced Preprint, August 2015, 1-30.
- "Looking Closer and Looking Broader: Gambit and Hexagon-The Peak of Film-Return Space Reconnaissance After Corona," McDonald, R.A. and Widlake, P.D. (2012). National Reconnaissance Journal of the Discipline and Practice, Pre-print, January 2012, 1-36.
- "One Officer's Perspective: The Decline of the National Reconnaissance Office," Kohler, R. (2005). National Reconnaissance Journal of the Discipline and Practice, 2005-U1, 35-44
- "Recapturing What Made the NRO Great: Updated Observations on "The Decline of the NRO,"" Kohler, R. (200). National Reconnaissance Journal of the Discipline and Practice, 2005-U1, 51-57.

"Reflections of M. Sam Araki–Success Through Systems Engineering and Leading Lockheed Missiles and Space," Moreno, S.K. (2009). *National Reconnaissance Journal of the Discipline and Practice*, 2009-U, 55-68.

#### HEXAGON FILM-RETURN IMAGING SATELLITE

- Commentary on: Kohler's "Recapturing What Made the NRO Great: Updated Observations on "The Decline of the NRO," Fitzgerald, D.D. (2005). National Reconnaissance Journal of the Discipline and Practice, 2005-U1, 59-65
- Commentary on: "The Decline of the National Reconnaissance Office: The NRO Leadership Replies," Fitzgerald, D. D. (2005). National Reconnaissance Journal of the Discipline and Practice, 2005–U1, 45–49.
- "Hexagon-"No Single Failure Shall Abort the Mission"- Managing System Integration for the NRO's Wide-Area Search Satellite from the Lockheed Missile and Space Company's Perspective," Araki, S. and Treat, S. (2012). National Reconnaissance Journal of the Discipline and Practice, 2012-U1, 85-102.
- "Looking Closer and Looking Broader: Gambit and Hexagon—The Peak of Film-Return Space Reconnaissance After Corona," McDonald, R.A. and Widlake, P.D. (2012). National Reconnaissance Journal of the Discipline and Practice, Pre-print, January 2012, 1-36.
- "Looking Closer and Looking Broader: Gambit and Hexagon—The Peak of Film-Return Space Reconnaissance After Corona," McDonald, R.A. and Widlake, P.D. (2012). National Reconnaissance Journal of the Discipline and Practice, 2012-U1, 39-74.
- "One Officer's Perspective: The Decline of the National Reconnaissance Office," Kohler, R. (2005). *National Reconnaissance Journal of the Discipline and Practice*, 2005-U1, 35-44.
- "Recapturing What Made the NRO Great: Updated Observations on "The Decline of the NRO," Kohler, R. (2005). National Reconnaissance Journal of the Discipline and Practice, 2005-U1, 51-57.
- "The Soviet Target-Highlights in the Intelligence Value of Gambit and Hexagon, 1963-1984," Berkowitz, B. (2012). National Reconnaissance Journal of the Discipline and Practice, 2012-U1, 103-120.
- "Why Gambit and Hexagon? U.S. National Security and the Geopolitical Setting, 1957-1960," Schultz, S.D. (2012). *National Reconnaissance Journal of the Discipline and Practice*, 2012- U1, 1-38.

#### IBM

Commentary on: "The Implications of Losing Focus: The Need for the NRO to Change Its Business Practices," Fitzgerald, D. D. (2009). *National Reconnaissance Journal of the Discipline and Practice*, 2009-U, 85-92.

IMAGERY INTELLIGENCE (IMINT) [SEE GEOSPATIAL INTELLIGENCE (GEOINT)]

## INSPECTOR GENERAL

"Protecting Sources and Methods versus the Public's Right to Know: Setting the Terms for a More Constructive Discussion," Stukes, J. (2009). National Reconnaissance Journal of the Discipline and Practice, 2009-U, 7-26.

#### JAPANESE-AMERICANS IN NATIONAL RECONNAISSANCE

- "From Camp Incarceration to U.S. National Reconnaissance: The Case of Two Americans of Japanese Ancestry-NRO Pioneer Sam Araki and Former DDNRO Dr. F. Robert Naka," Schultz, S.D. (2009). National Reconnaissance Journal of the Discipline and Practice, 2009-U, 27-53.
- "Reflections of F. Robert Naka-Building Reconnaissance Systems and Running the National Reconnaissance Office, "Widlake, P.D. (2009). National Reconnaissance Journal of the Discipline and Practice, 2009-U, 69-79.
- "Reflections of M. Sam Araki–Success Through Systems Engineering and Leading Lockheed Missiles and Space," Moreno, S.K. (2009). National Reconnaissance Journal of the Discipline and Practice, 2009-U, 55-68.

#### **IRAN**

Commentary on: "The Implications of Losing Focus: The Need for the NRO to Change Its Business Practices," Fitzgerald, D. D. (2009). *National Reconnaissance Journal of the Discipline and Practice*, 2009-U, 85-92.

#### Snosal

Book Review on "The Jasons: The Secret History of Science's Postwar Elite," by Ann K. Finkbeiner. Cornette, W.M. (2009). *National Reconnaissance Journal of the Discipline and Practice*, 2009-U, 81-84.

#### KODAK, INC.

Commentary on: "The Implications of Losing Focus: The Need for the NRO to Change Its Business Practices," Fitzgerald, D. D. (2009). *National Reconnaissance Journal of the Discipline and Practice*, 2009-U, 85-92.

#### KUWAIT

Commentary on: "The Implications of Losing Focus: The Need for the NRO to Change Its Business Practices," Fitzgerald, D. D. (2009). *National Reconnaissance Journal of the Discipline and Practice*, 2009-U, 85-92.

# LESSONS LEARNED

- "From Camp Incarceration to U.S. National Reconnaissance: The Case of Two Americans of Japanese Ancestry-NRO Pioneer Sam Araki and Former DDNRO Dr. F. Robert Naka," Schultz, S.D. (2009). National Reconnaissance Journal of the Discipline and Practice, 2009-U, 27-53.
- "National Reconnaissance Leadership for the 21st Century: Lessons from the NRO's Heritage," Widlake, P.D. (2005). *National Reconnaissance Journal of the Discipline and Practice*, 2005-U1, 19-34.
- "Reflections of M. Sam Araki–Success Through Systems Engineering and Leading Lockheed Missiles and Space," Moreno, S.K. (2009). National Reconnaissance Journal of the Discipline and Practice, 2009-U, 55-68.
- "Risk Management and National Reconnaissance From the Cold War Up to the Global War on Terrorism," Fitzgerald, D.D. (2005). *National Reconnaissance Journal of the Discipline and Practice*, 2005-U1, 9-18.
- "Where did the Alphabetic Program Offices Go? A Lesson in Organizational Change," Widlake, P.D. (2018). National Reconnaissance Journal of the Discipline and Practice, 2018 Pre-print (forthcoming).

#### LOCKHEED

- "Hexagon-"No Single Failure Shall Abort the Mission"- Managing System Integration for the NRO's Wide-Area Search Satellite from the Lockheed Missile and Space Company's Perspective," Araki, S. and Treat, S. (2012). National Reconnaissance Journal of the Discipline and Practice, 2012-U1, 85-102.
- "Reflections of M. Sam Araki–Success Through Systems Engineering and Leading Lockheed Missiles and Space," Moreno, S.K. (2009). National Reconnaissance Journal of the Discipline and Practice, 2009-U, 55-68.

#### MICROSOFT, INC.

Commentary on: "The Implications of Losing Focus: The Need for the NRO to Change Its Business Practices," Fitzgerald, D. D. (2009). National Reconnaissance Journal of the Discipline and Practice, 2009-U, 85-92.

# NATIONAL GEOSPATIAL-INTELLIGENCE AGENCY (NGA)

Commentary on: "The Implications of Losing Focus: The Need for the NRO to Change Its Business Practices," Fitzgerald, D. D. (2009). National Reconnaissance Journal of the Discipline and Practice, 2009-U, 85-92.

#### NATIONAL RECONNAISSANCE OFFICE (NRO)

- Commentary on: Kohler's "Recapturing What Made the NRO Great: Updated Observations on "'The Decline of the NRO," Fitzgerald, D.D. (2005). National Reconnaissance Journal of the Discipline and Practice, 2005-U1, 59-65
- Commentary on: "The Decline of the National Reconnaissance Office: The NRO Leadership Replies, " Fitzgerald, D. D. (2005). *National Reconnaissance Journal of the Discipline and Practice*, 2005–U1, 45–49.
- Commentary on: "The Implications of Losing Focus: The Need for the NRO to Change Its Business Practices," Fitzgerald, D. D. (2009). *National Reconnaissance Journal of the Discipline and Practice*, 2009-U, 85-92.
- "I Can See it From Afar; I Can Hear it From Afar-Intelligence from Space," McDonald, R.A. (2015). *National Reconnaissance Journal of the Discipline and Practice*, Advanced Preprint, August 2015, 1-30.
- "One Officer's Perspective: The Decline of the National Reconnaissance Office," Kohler, R. (2005). National Reconnaissance Journal of the Discipline and Practice, 2005-U1, 35-44
- "Recapturing What Made the NRO Great: Updated Observations on "The Decline of the NRO," Kohler, R. (2005). National Reconnaissance Journal of the Discipline and Practice, 2005-U1, 51-57.
- "Westfields—Separating Facts from Flamboyant Headlines: The Story of the NRO's Consolidation into One Building (1988-1996)," Moreno, S.K. (2015). Accessible via the CSNR pages on the NRO.gov website, 48 pp. apx.
- "Where did the Alphabetic Program Offices Go? A Lesson in Organizational Change," Widlake, P.D. (2018). *National Reconnaissance Journal of the Discipline and Practice*, 2018 Pre-print (forthcoming).

# NATIONAL SECURITY AGENCY (NSA)

Commentary on: "The Implications of Losing Focus: The Need for the NRO to Change Its Business Practices," Fitzgerald, D. D. (2009). *National Reconnaissance Journal of the Discipline and Practice*, 2009-U, 85-92.

#### NORTH KOREA

Commentary on: "The Implications of Losing Focus: The Need for the NRO to Change Its Business Practices," Fitzgerald, D. D. (2009). *National Reconnaissance Journal of the Discipline and Practice*, 2009-U, 85-92.

#### **NUCLEAR WEAPONS**

Book Review on "The Jasons: The Secret History of Science's Postwar Elite," by Ann K. Finkbeiner. Cornette, W.M. (2009). *National Reconnaissance Journal of the Discipline and Practice*, 2009-U, 81-84.

#### **OBAMA ADMINISTRATION**

"Protecting Sources and Methods versus the Public's Right to Know: Setting the Terms for a More Constructive Discussion," Stukes, J. (2009). *National Reconnaissance Journal* of the Discipline and Practice, 2009-U, 7-26.

#### PEARL HARBOR

- Commentary on: "The Implications of Losing Focus: The Need for the NRO to Change Its Business Practices," Fitzgerald, D. D. (2009). *National Reconnaissance Journal of the Discipline and Practice*, 2009-U, 85-92.
- "Reflections of F. Robert Naka-Building Reconnaissance Systems and Running the National Reconnaissance Office, "Widlake, P.D. (2009). National Reconnaissance Journal of the Discipline and Practice, 2009-U, 69-79.

# PHOTORECONNAISSANCE SATELLITE [SEE GEOSPATIAL INTELLIGENCE (GEOINT)]

# **PHYSICS**

Book Review on "The Jasons: The Secret History of Science's Postwar Elite," by Ann K. Finkbeiner. Cornette, W.M. (2009). *National Reconnaissance Journal of the Discipline and Practice*, 2009-U, 81-84.

#### PIONEERS OF NATIONAL RECONNAISSANCE

- "Extending Technological Capabilities to Address U.S. National Security Challenges: The 2007 National Reconnaissance Pioneers, Mr. Sun Yet Wong and Dr. Paul Kaminski," Widlake, P., Kiser, G., and Harris, E. (2007). National Reconnaissance Journal of the Discipline and Practice, Pre-print, 2007–U1, 1-9.
- "From Camp Incarceration to U.S. National Reconnaissance: The Case of Two Americans of Japanese Ancestry-NRO Pioneer Sam Araki and Former DDNRO Dr. F. Robert Naka," Schultz, S.D. (2009). National Reconnaissance Journal of the Discipline and Practice, 2009-U, 27-53.
- "National Reconnaissance Leadership for the 21st Century: Lessons from the NRO's Heritage," Widlake, P.D. (2005). *National Reconnaissance Journal of the Discipline and Practice*, 2005-U1, 19-34.

- "Pioneer 2000 Recognizing Personal Contributions," Nath, T.B., Sieh, K., and Jones, C. (2018). *National Reconnaissance Journal of the Discipline and Practice*, Advanced Preprint, 5 pp. apx.
- "Reflections of M. Sam Araki–Success Through Systems Engineering and Leading Lockheed Missiles and Space," Moreno, S.K. (2009). National Reconnaissance Journal of the Discipline and Practice, 2009-U, 55-68.
- "Solving Problems on the 'Edge of What was Possible': Conceiving Solutions to the Most Difficult Intelligence Problems—The 2011 Pioneers of National Reconnaissance," Widlake, P.D. (2015). Accessible via the CSNR pages on the NRO.gov website, 34 pp. apx.

#### PROGRAM OFFICES

"Reflections of F. Robert Naka-Building Reconnaissance Systems and Running the National Reconnaissance Office," Widlake, P.D. (2009). *National Reconnaissance Journal of the Discipline and Practice*, 2009-U, 69-79.

#### RECOLLECTIONS

- "Reflections of F. Robert Naka-Building Reconnaissance Systems and Running the National Reconnaissance Office," Widlake, P.D. (2009). *National Reconnaissance Journal of the Discipline and Practice*, 2009-U, 69-79.
- "Reflections of M. Sam Araki–Success Through Systems Engineering and Leading Lockheed Missiles and Space," Moreno, S.K. (2009). National Reconnaissance Journal of the Discipline and Practice, 2009-U, 55-68.

# SIGNALS INTELLIGENCE (SIGINT)

"I Can See it From Afar; I Can Hear it From Afar-Intelligence from Space," McDonald, R.A. (2015). *National Reconnaissance Journal of the Discipline and Practice*, Advanced Preprint, August 2015, 1-30.

## SOVIET UNION

- Commentary on: "The Implications of Losing Focus: The Need for the NRO to Change Its Business Practices," Fitzgerald, D. D. (2009). *National Reconnaissance Journal of the Discipline and Practice*, 2009-U, 85-92.
- "The Soviet Target-Highlights in the Intelligence Value of Gambit and Hexagon, 1963-1984," Berkowitz, B. (2012). *National Reconnaissance Journal of the Discipline and Practice*, 2012-U1, 103-120.

#### SPACE

- "Reflections of M. Sam Araki–Success Through Systems Engineering and Leading Lockheed Missiles and Space," Moreno, S.K. (2009). National Reconnaissance Journal of the Discipline and Practice, 2009-U, 55-68.
- Commentary on: "The Implications of Losing Focus: The Need for the NRO to Change Its Business Practices," Fitzgerald, D. D. (2009). National Reconnaissance Journal of the Discipline and Practice, 2009-U, 85-92.

# SPACECRAFT COMPLEXITY

Commentary on: "The Implications of Losing Focus: The Need for the NRO to Change Its Business Practices," Fitzgerald, D. D. (2009). *National Reconnaissance Journal of the Discipline and Practice*, 2009-U, 85-92.

#### **SWITZERLAND**

Commentary on: "The Implications of Losing Focus: The Need for the NRO to Change Its Business Practices," Fitzgerald, D. D. (2009). *National Reconnaissance Journal of the Discipline and Practice*, 2009-U, 85-92.

#### SYRIA

Commentary on: "The Implications of Losing Focus: The Need for the NRO to Change Its Business Practices," Fitzgerald, D. D. (2009). *National Reconnaissance Journal of the Discipline and Practice*, 2009-U, 85-92.

#### **TECHNOLOGY**

"Reflections of M. Sam Araki–Success Through Systems Engineering and Leading Lockheed, Missiles and Space," Moreno, S.K. (2009). National Reconnaissance Journal of the Discipline and Practice, 2009-U, 55-68.

#### U.S. NAVY

Commentary on: "The Implications of Losing Focus: The Need for the NRO to Change Its Business Practices," Fitzgerald, D. D. (2009). *National Reconnaissance Journal of the Discipline and Practice*, 2009-U, 85-92.

#### VIETNAM WAR

Book Review on "The Jasons: The Secret History of Science's Postwar Elite," by Ann K. Finkbeiner. Cornette, W.M. (2009). *National Reconnaissance Journal of the Discipline and Practice*, 2009-U, 81-84.

#### WORLD WAR I

Commentary on: "The Implications of Losing Focus: The Need for the NRO to Change Its Business Practices," Fitzgerald, D. D. (2009). *National Reconnaissance Journal of the Discipline and Practice*, 2009-U, 85-92.

# WORLD WAR II

- Book Review on "The Jasons: The Secret History of Science's Postwar Elite," by Ann K. Finkbeiner. Cornette, W.M. (2009). *National Reconnaissance Journal of the Discipline and Practice*, 2009-U, 81-84.
- "From Camp Incarceration to U.S. National Reconnaissance: The Case of Two Americans of Japanese Ancestry-NRO Pioneer Sam Araki and Former DDNRO Dr. F. Robert Naka," Schultz, S.D. (2009). National Reconnaissance Journal of the Discipline and Practice, 2009-U, 27-53.
- "General James 'Jimmy' Doolittle: A Leader in the Evolution of National Reconnaissance," Helman, J.J. (2018). National Reconnaissance Journal of the Discipline and Practice, Advanced Pre-print, 4 pp. apx.
- "Reflections of M. Sam Araki–Success Through Systems Engineering and Leading Lockheed Missiles and Space," Moreno, S.K. (2009). National Reconnaissance Journal of the Discipline and Practice, 2009-U, 55-68.

# XEROX

Commentary on: "The Implications of Losing Focus: The Need for the NRO to Change Its Business Practices," Fitzgerald, D. D. (2009). *National Reconnaissance Journal of the Discipline and Practice*, 2009-U, 85-92.

# 9/11

Commentary on: "The Implications of Losing Focus: The Need for the NRO to Change Its Business Practices," Fitzgerald, D. D. (2009). *National Reconnaissance Journal of the Discipline and Practice*, 2009-U, 85-92.

#### 21ST CENTURY

- Commentary on: "The Implications of Losing Focus: The Need for the NRO to Change Its Business Practices," Fitzgerald, D. D. (2009). *National Reconnaissance Journal of the Discipline and Practice*, 2009-U, 85-92.
- "Reflections of F. Robert Naka-Building Reconnaissance Systems and Running the National Reconnaissance Office," Widlake, P.D. (2009). *National Reconnaissance Journal of the Discipline and Practice*, 2009-U, 69-79.

# LISTING OF PRINTED UNCLASSIFIED JOURNALS

- 2005, Spring, Issue 2005-U1, *National Reconnaissance Journal of the Discipline and Practice*, 78-page issue [6 analytical articles, 4 in Memoriam].
- 2007, Fall, Pre-print article, "Extending Technological Capabilities to Address U.S National Security Challenges: The 2007 National Reconnaissance Pioneers, Mr. Sun Yet Wong and Dr. Paul Kaminski," 9-page article.
- 2009/2010, Winter, Issue 2009-U, *National Reconnaissance Journal of the Discipline and Practice*, 97-page issue [4 analytical articles, 1 book review, 1 commentary, 1 In Memoriam].
- 2012, January, Pre-print article, "Looking Closer and Looking Broader: Gambit and Hexagon— The Peak of Film-Return Space Reconnaissance After Corona," 36-page article.
- 2012, Spring, Issue 2012-U1, *National Reconnaissance Journal of the Discipline and Practice*, 122-page issue [5 analytical articles].
- 2015, August, Pre-print article, "I Can See it From Afar; I can Hear it From Afar—Intelligence From Space," 36-page article.



