



## CENTER FOR THE STUDY OF NATIONAL RECONNAISSANCE

### Fact Sheet

### Pioneer Recognition & Research Program

#### Overview

The Pioneer Recognition & Research Program is an NRO Heritage recognition program that supports (1) a strong research-based activity that documents NRO's heritage and identifies lessons; (2) informs NRO leadership and workforce on lessons for pioneering innovations; (3) recognizes and pays tribute to models of excellence in innovation to inspire and motivate; (4) advances national reconnaissance with insights into pioneering innovation; and (5) increases knowledge of national reconnaissance so as to improve planning and execution of the NRO mission.

A Pioneer of National Reconnaissance is an individual who, at any point in the history of national reconnaissance, made an innovative break through that resulted in a lasting and significant contribution that changed the direction or scope of the discipline. Each year, the Director, National Reconnaissance Office (DNRO) selects and recognizes a very few individuals as Pioneers of National Reconnaissance.

#### Eligibility

Persons of all organizational affiliations and status are eligible for nomination as Pioneers. Nominees may be living or deceased, currently working in the field of national reconnaissance or retired, government employees (military or civilian) or from the private sector (contractor or academic personnel). Four groups of individuals are ineligible for nomination because of prior recognition: (1) previously recognized pioneers, (2) Founders of National Reconnaissance, (3) Legacy Alphabetic Program Directors, and (4) Directors/Deputy Directors of the NRO. (See the reverse side of this Fact Sheet for the names of these previously recognized individuals.)

#### Nominations

Anyone may nominate an individual as a candidate for Pioneer selection. Nominations must include the identification of the specific technical, programmatic, and/or system contribution for which the individual is being nominated. The Pioneer Selection Board applies a time-test for historical impact to the contributions and achievements of Pioneer nominees, and often will defer consideration of nominees whose contributions and achievements occurred within the past five years.

#### Selection Criteria

While many individuals have made important contributions to national reconnaissance, recognition as a Pioneer of National Reconnaissance requires: (a) the accomplishment of a specific pioneering innovative breakthrough of lasting impact. A summary of the selection criteria are (See Pioneer Selection Criteria Checklist for more details):

- *Relevance*—Contribution must have been directly related to the discipline and practice of national reconnaissance (e.g., conceiving and developing sensors or supporting systems; conceiving and developing techniques and methods for national reconnaissance; conceiving and developing acquisition, contracting, or security innovation; leading or managing fabrication or operation of systems).
- *Innovative and Pivotal*—Contribution must have been an innovative and pivotal so as to have changed the direction and scope of the discipline and practice of national reconnaissance.
- *Unique*—Contribution must have been unique in that it was a “first and only” breakthrough.
- *Time Tested*—Contribution must have demonstrated its value by being “time-tested” for its historical impact (generally at least over a five-year period).

Pioneer recognition is for specific innovative pioneering contributions that impacted on the heritage of national reconnaissance. Those activities that place performance outside that context are disqualifiers:

- *Awarding government personnel general performance*—Justifications that are for customary outstanding performance, such as sustained high performance and life-time achievement would disqualify the nomination, for which human resources awards and recognition programs are more appropriate.
- *Contract performance*—Recognition in connection with a contract award fee or performance in connection with current contract work would disqualify a nomination, for which there are contracting mechanisms.

**Contact Information:** For more information about the Pioneer Recognition & Research Program, please contact the Chief/Recognition, Exhibits, and Outreach/Center for the Study of National Reconnaissance (CSNR) at 703-227-9061 or the CSNR Front Office at 703-227-9368, [CSNR@nro.mil](mailto:CSNR@nro.mil)

## Pioneers of National Reconnaissance (92 Pioneers)

Raymond E. Anderson (2008)  
M. Sam Araki (2004)  
James G. Baker (2000)  
C. Lee Battle, Jr. (2000)  
John T. Bennett (2000)  
Thomas A. Brackett (2011)  
Howard G. Brotherton (2008)  
John W. Browning (2000)  
Jon H. Bryson (2000)  
A. Roy Burks (2000)  
Frank S. Buzard (2000)  
James P. Campbell (2009)  
Cornelius W. Chambers (2000)  
Ingard M. Clausen (2006)  
Vance D. Coffman (2002)  
Harvey Cohen (2004)  
Lacy G. Cook (2009)  
John O. Copley (2000)  
Donald L. Cromer (2001)  
Robert H. Crosner (2000)  
John J. Crowley (2000)  
Rod J. Dallaire (2020)  
L. Porter Davis (2015)  
James C. de Broekert (2000)  
Robert H. Dumais (2010)  
Joseph J. Eash (2011)  
Robert E. Eisenhauer (2005)  
Carl L. Ferdensi, Jr. (2003)  
Thomas C. Fitzsimmons (2014)  
Gary S. Geyer (2000)  
Jack A. Gibbs (2010)  
Thomas O. Haig (2000)

Lee M. Hammarstrom (2002)  
Fred V. Hellrich (2006)  
A.J. Iorillo (2001)  
Robert Kaemmerer (2004)  
Paul G. Kaminski (2007)  
Frederick H. Kaufman (2000)  
David L. Klingner (2006)  
Robert J. Kohler (2000)  
Ellis E. Lapin (2000)  
Lloyd K. Lauderdale (2000)  
Richard S. Leghorn (2000)  
Walter J. Levison (2000)  
Howard O. Lorenzen (2000)  
Frank J. Madden (2000)  
Michael F. Maguire (2009)  
James T. Mannen (2000)  
Roger C. Marsh (2005)  
Paul W. Mayhew (2000)  
Reid D. Mayo (2000)  
James W. McAnally (2004)  
Edward A. Miller (2005)  
William G. Montgomery (2013)  
James E. Morgan (2000)  
Mark N. Morton (2000)  
Alden V. Munson, Jr. (2000)  
Charles L. Murphy (2000)  
Frederic C.E. Oder (2000)  
Robert F. O'Donnell (2012)  
Hilliard W. Paige (2008)  
John Parangosky (2000)  
Michael N. Parker (2011)

Robert L. Paulson (2002)  
Julius P. Peline (2000)  
Robert M. Powell (2000)  
Michael G. Price (2020)  
Wayne L. Proffitt (2005)  
Richard J. Randazzo (2010)  
David Raspet (2003)  
Edward H. Reese (2000)  
Thomas R. Reinehr (2016)  
Osmond J. Ritland (2000)  
Lee W. Roberts (2000)  
Vincent S. Rose (2001)  
Charles R. Roth (2000)  
Robert W. Roy (2000)  
John Shipley (2011)  
Donald N. Simkins (2013)  
Charles P. Spoelhof (2000)  
John R. Stavlo (2014)  
Forrest H. Stieg (2000)  
Marvin S. Stone (2000)  
James W. Stoner (2003)  
Don F. Tang (2000)  
Charles C. Tevis (2003)  
Richard C. Van Wagoner (2011)  
John Walton (2001)  
Albert D. Wheelon (2000)  
Peter G. Wilhelm (2000)  
Sun Yet Wong (2007)  
Jane A. Wood (2006)  
Roy H. Worthington (2000)  
Robert W. Yundt (2000)

## Founders of National Reconnaissance (11 Founders)

William O. Baker (2000)  
Merton E. Davies (2000)  
Sidney D. Drell (2000)  
Richard L. Garwin (2000)

Jimmie D. Hill (2012)  
Amrom H. Katz (2000)  
James R. Killian, Jr. (2000)  
Edwin H. Land (2000)

Frank W. Lehan (2000)  
William J. Perry (2000)  
Edward M. Purcell (2000)

## Legacy Alphabetic Program Directors

Lew Allen, Jr. (Program A)  
Bernard L. Bailey (Program D)  
Thomas C. Betterton (Program C)  
David D. Bradburn (Program A)  
Dennis M. Brooks (Program C)  
Julian Caballero, Jr. (Program B)  
Robert T. Darcy (Program C)  
Leslie C. Dirks (Program B)  
Carl E. Duckett (Program B)  
Eugene B. Fluckey (Program C)

Leo Geary (Program D)  
Robert K. Geiger (Program C)  
Robert E. Greer (Program A)  
Frederick J. Harlfinger, II (Prog C)  
Frank W. Hartley, Jr. (Program D)  
R. Evans Hineman (Program B)  
Ralph H. Jacobson (Program A)  
William G. King (Program A)  
John E. Kulpa, Jr. (Program A)  
Jack C. Ledford (Program B)

Nathan J. Lindsay (Program A)  
Vernon L. Lowrance (Program C)  
John L. Martin, Jr. (Program A)  
Lee Roy Patterson (Program C)  
Clason B. Saunders (Program D)  
Herbert Scoville, Jr. (Program B)  
Huntington D. Sheldon (Prog B)  
Jay W. Sprague (Program C)  
Rufus L. Taylor (Program C)  
Grover M. Yowell (Program C)

## DNROs, PDDNROs, and DDNROs of National Reconnaissance

Edward C. Aldridge, Jr. (DNRO)  
Mark Baird (DDNRO)  
Richard M. Bissell, Jr. (DNRO)  
Frank Calvelli (PDDNRO)  
Bruce Carlson (DNRO)  
Joseph V. Charyk (DNRO)  
Charles W. Cook (DDNRO)  
Anthony J. Cotton (DDNRO)  
Stephen Denker (DDNRO)  
Martin C. Faga (DNRO)  
Dennis Fitzgerald (PDDNRO)  
Alexander H. Flax (DNRO)  
Michael A. Guetlein (DDNRO)

Donald L. Haas (DDNRO)  
Keith R. Hall (DDNRO, DNRO)  
Ralph S. Haller (PDDNRO)  
Jeffrey K. Harris (DNRO)  
Robert J. Hermann (DNRO)  
Jimmie D. Hill (DDNRO)  
Donald M. Kerr (DNRO)  
Eugene P. Kiefer (DDNRO)  
David Kier (DDNRO)  
Scott F. Large (PDDNRO, DNRO)  
Hans Mark (DNRO)  
Susan K. Mashiko (DDNRO)  
Troy E. Meink (PDDNRO)

John L. McLucas (DNRO)  
Brockway McMillan (DNRO)  
F. Robert Naka (DDNRO)  
Ellen M. Pawlikowski (DDNRO)  
James W. Plummer (DNRO)  
James Q. Reber (DDNRO)  
Thomas C. Reed (DNRO)  
Betty J. Sapp (PDDNRO, DNRO)  
Christopher J. Scolese (DNRO)  
John T. Sheridan (DDNRO)  
Robert D. Singel (DDNRO)  
Peter B. Teets (DNRO)

