PIONEERS
OF NATIONAL RECONNAISSANCE
2016
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Supra Et Ultra

2016
Foreword

The National Reconnaissance Pioneer Program recognizes and honors individuals who have made significant and lasting contributions to national reconnaissance—pioneering contributions that were innovative, remarkable, and changed the direction and scope of the discipline and its practice. It is the highest honor in the field of national reconnaissance.

For the Pioneer Class of 2016, the Director of National Reconnaissance, Ms. Betty Sapp, selected Mr. Thomas R. Reinehr, whose innovation in developing concepts, algorithms, and operational solutions resulted in the production of high-quality, unique collection capabilities that provided daily intelligence products required by both tactical warfighters and strategic decision makers.

The October 2017 Pioneer Recognition Ceremony formally inducts Mr. Reinehr, the NRO’s 2016 Pioneer honoree, into NRO’s Pioneer Hall. Pioneer Hall is a collection of commemorative medallions, one for each of NRO’s Pioneers of National Reconnaissance. The medallions serve as enduring tributes to the pioneers’ trailblazing contributions to the discipline of national reconnaissance. This booklet includes the words that appear on Mr. Reinehr’s medallion and briefly explains the nature of Pioneer Reinehr’s specific contribution. Mr. Reinehr’s medallion now joins the other 92 medallions that commemorate the contributions of Pioneers from previous classes. When you visit Pioneer Hall, I encourage you to review the citations on the medallions to gain a sense of the scope of the Pioneers’ contributions and the lasting impact they had on the NRO and our nation’s national security.

Robert A. McDonald, PhD.
Director, Center for the Study of National Reconnaissance
Mr. Thomas R. Reinehr
In the 1990s–2000, Mr. Thomas R. Reinehr pioneered the development of concepts and algorithms, the “Reinehr Combiner”, and other operational processing solutions that advanced the development of generations of imaging systems. These innovative technologies enabled vital missions to provide tactical warfighters, and strategic decision makers, with expanded imagery intelligence to address evolving threats.

During the 1990s through 2000, Mr. Reinehr developed innovative operational processing solutions, associated calibration techniques, and novel methods for processing imagery. During the Pioneer Recognition Ceremony for his induction into NRO’s Pioneer Hall, he is to be presented with a commemorative plaque that contains an expanded citation, which states:

“In the 1990s through early 2000, Mr. Thomas R. Reinehr pioneered the development of concepts and algorithms that came to be known as the “Reinehr Combiner,” as well as other innovative operational processing solutions, calibration techniques, and novel methods for producing high-quality special imagery. These technologies have had applications in multiple generations of imaging systems, and enabled vital imaging operations over high priority targets for the rapid and timely assessment of enemy deployments. Mr. Reinehr’s pioneering contributions added to existing imaging capabilities, and enabled new missions to address evolving threats and provide the tactical warfighter and strategic decision maker with expanded intelligence products on a daily basis.”

Mr. Reinehr currently is employed by Raytheon Space and Airborne Systems, where he is a principal engineering fellow and continues his work in systems engineering. Mr. Reinehr grew up in Mt. Blanchard, Ohio, and he holds a bachelor’s degree in electrical engineering from the University of Toledo, and an MS degree in electrical engineering from the University of California, Irvine.

Pioneers of National Reconnaissance

2016
Thomas R. Reinehr

2015
L. Porter Davis

2014
Thomas C. “Chris” Fitzsimmons
John R. Stavlo

2013
William G. Montgomery
Donald N. Simkins, Ph.D.

2012
Robert P. O’Donnell, Ph.D.

2011
Thomas A. Brackey
Joseph J. Eash III, Col, USAF (Ret)

2010
Robert H. Dumais
Jack A. Gibbs, Brig Gen, USAF (Ret)
Richard J. Randazzo, Col, USAF (Ret)

2009
James P. Campbell, Ph.D.
Lacy G. Cook
Michael F. Maguire

2008
Raymond E. Anderson, Col, USAF (Ret)
Howard G. Brotherton
Hilliard W. Paige, Sr.

2007
Paul G. Kaminski
Sun Yet Wong

2006
Ingard M. Clausen
Fred V. Hellrich
David L. Klinger, Ph.D.
Jane A. Wood

2005
Robert E. Eisenhauer
Roger C. Marsh
Edward A. Miller, Ph.D.
Wayne L. Proffitt

2004
M. Sam Araki
Harvey Cohen, Lt Col, USAF (Ret)
Robert G. Kaemmerer
James W. McAnally

2003
Carl L. Ferdensi, Jr.
David Rasper, Col, USAF (Ret)
James W. Stoner, Ph.D.
Charles C. Tevis

2002
Vance D. Coffman, Ph.D.
Lee M. Hammarstrom
Robert L. Paulson, Col, USAF (Ret)

2001
Donald L. Cromer, Lt Gen, USAF (Ret)
A.J. (Tony) Iorillo
Vincent S. Rose
John Walton

2000
James G. Baker, Ph.D.
C. Lee Battle, Jr., Col, USAF (Ret)
John T. Bennett
John W. Browning, Col, USAF (Ret)
Jon H. Bryson, Col, USAF (Ret)
A. Roy Burks
Frank S. Buzard, Col, USAF (Ret)
Cornelius W. “Connie” Chambers

John O. Copley, Col, USAF (Ret)
Robert H. Crotser
John J. Crowley
James C. de Broekert
Gary S. Geyer, Col, USAF (Ret)
Thomas O. Haig, Col, USAF (Ret)
Frederick H. Kaufman
Robert J. Kohler
Ellis E. Lapin
Lloyd K. Lauderdale, Ph.D.
Richard S. Leghorn, Col, USAF (Ret)
Walter J. Levison
Howard O. Lorenzen
Frank J. Maddern
James T. Mannen, Col, USAF (Ret)
Paul W. Mayhew, Ph.D.
Reid D. Mayo
James E. Morgan
Mark N. Morton
Alden V. Munson, Jr.
Charles L. Murphy, Col, USAF (Ret)
Frederic C.E. “Fritz” Oder, Col, USAF (Ret)
John Parangosky
Julius P. “Val” Peline, Ph.D.
Robert M. Powell
Edward H. Reese
Osmond J. “Ozzie” Ritland,
Major General, USAF (Ret)
Lee W. Roberts, Col, USAF (Ret)
Charles R. “Charlie” Roth
Robert W. “Rob” Roy, Col, USAF (Ret)
Charles P. Spoelhof
Forrest H. Stieg
Marvin S. Stone, Ph.D.
Don F. Tang
Albert D. “Bud” Wheelon, Ph.D.
Peter G. Wilhelm
Roy H. Worthington, Col, USAF (Ret)
Robert W. Yundt, Col, USAF (Ret)
Pioneer Hall
National Reconnaissance Office
Chantilly, Virginia