

HIGH FRONTIER

The Journal for Space and Cyberspace Professionals

February 2011

Extended Digital Version

Volume 7, Number 2

Headquarters
**Air Force
Space Command**
Peterson Air Force Base, Colorado

Commander
General William L. Shelton

Vice Commander
Maj Gen Michael J. Basla

Director of Public Affairs
Col Dewey Ford

Creative Editor
Ms. Nadine Sage

High Frontier Staff

Mr. Steve Tindell
Dr. Rick Sturdevant
Maj Catherine Barrington
Maj Sam Baxter
Maj Vanessa Hillman
Maj Merna Hsu
Maj April Wimmer



Published by a private firm in no way connected with the US Air Force, under exclusive written contract with Air Force Space Command. This command funded Air Force journal is an authorized publication for members of the United States military Services. The views and opinions expressed in this journal are those of the authors alone and do not necessarily reflect those of the United States Department of Defense, the United States Air Force, or any other government agency.

Editorial content is edited, prepared, and provided by the *High Frontier* staff. All photographs are Air Force photographs unless otherwise indicated.

High Frontier, Air Force Space Command's space professional journal, is published quarterly. The journal provides a scholarly forum for professionals to exchange knowledge and ideas on space-related issues throughout the space community. The journal focuses primarily on Air Force and Department of Defense space programs; however, the *High Frontier* staff welcomes submissions from within the space community. Comments, inquiries, and article submissions should be sent to AFSPC.PAI@peterson.af.mil. They can also be mailed to:

AFSPC/PA
150 Vandenberg St. Ste 1105
Peterson AFB, CO 80914
Telephone: (719) 554-3731
Fax: (719) 554-6013

For more information on space professional development please visit:
<http://www.afspc.af.mil>

To subscribe:
Hard copy: nsage@sgis.com
Digital copy: <http://www.af.mil/subscribe>

Cover: Bursting with Stars and Black Holes, Spitzer Space Telescope, Jet Propulsion Laboratory, California Institute of Technology. Image credit: NASA/JPL-Caltech

Back Cover: Found among the Small Magellanic Cloud's clusters and nebulae NGC 346 is a star-forming region about 200 light-years across, pictured taken by the Hubble Space Telescope. Image credit: NASA, ESA, A. Nota (ESA/STScI) et al.

Contents

Introduction

General William L. Shelton 2

Senior Leader Perspective

Remarks on Space Policy

Mr. William J. Lynn, III 3

A New National Security Strategy for Space

Ambassador Gregory L. Schulte 6

Air Force Implementation of the National Space Policy: Space Situational Awareness and Launch

The Honorable Erin C. Conaton and Mr. Rudy Barnes 9

Acquisition Challenges from the New National Space Policy

Mr. Robert A. Gold 13

Space Act, Space Policy, and the Future of NASA

Maj Gen Charles F. Bolden, Jr., retired 17

Preserving the Space Domain for Future Generations

Brig Gen John W. Raymond and Mr. Kurt M. Neuman 20

Implications of the New National Space Policy

Mr. Charles S. Baker 24

Engagement and Sustainability in the 2010 National Space Policy

Dr. James A. Lewis 27

Collective Assurance

Dr. Andrew W. Palowitch 31

Implications of the New National Space Policy

The New National Space Policy: More is Needed

Col James D. Rendleman, retired and Col Robert E. Ryals, retired 35

USSTRATCOM Perspective on National Space Policy Implementation through Space Situational

Awareness Sharing

Ms. Jessica S. Tok 40

National Space Policies as Strategic Communication

Ms. Jonty L. Kasku-Jackson 43

The National Space Policy: Sustainability and Cooperation in a Congested, Competitive, and

Contested Domain

Col Daniel A. Dant 45

Emerging Dynamics of the New Space Policy

Mr. Trevor Brown 49

Eliminating the Alternatives: A Strategy for Aligning National Commitment and

National Reliance in Space

Maj James E. Smith 52

Administering the 2010 National Space Policy: Lessons from History and

Recommendations for the Future

Capt Albert C. Harris, III 56

Industry Perspective

National Space Policy: The Challenge of Implementation

Mr. Richard DalBello 61

The National Space Policy: High Tech Requires High Touch

Dr. Darren S. McKnight 67

What's New in the New National Space Policy?

Mr. James D. Rochier 72

Historical Perspective

Air Force Space Policy: Highlights from the First Half-Century, 1948-1998

Dr. Rick W. Sturdevant and Dr. David N. Spires 76

Book Review

In Defense of Japan: From the Market to the Military in Space Policy

Dr. Rick W. Sturdevant 79

Next Issue: Cyber Defense – Protecting Operations in an Evolving Domain