

2007.04.19 AFRL 米空軍研究所 Basic Research in Solid State Sciences



Current Investment in Electronic Devices and Multi-modal Sensing

Envision, invest with the best, and innovate mid-far term electronic & photonic materials, devices & implementation schemes to enable 'quantum-leap-game-changing' capability breakthroughs for C4ISR

C4ISR Scenario
Capital Strategic Assets, Responsive Tactical Assets, SATCOM Relay, AWACS, Joint STARS, Theatre GIS

C4ISR Electronics Requirements

- **RF-Radar:** TT RF power-amp I_{RF} & PAE
- **UV-IR Sensing:** T adaptable multi-modal & D² Electronics (RODCA): T dyn range/speed, recording
- **ICs:** T FPGA speed \rightarrow T logic, dense MV memory
- **Coms:** T data-rate & BW \rightarrow HIGHs for secure comm
- T RF power-amp F₁, PAE, L noise-figure to 1 BW
- T FPGA IC speed & T software-reconfigurable
- **Reliable, Survivable, and 'Intelligent'**
- Reconfigurable, responsive, & autonomous

5.1 Research Thrusts

- > Integrated Adaptable Multi-Modal Sensors (EO thru RF)
- > RF-Power Materials & Devices (radar & communications)
- > Breakthrough-Speed Electronic Devices & Architectures
- > Electronics Radiation Effects Physics

Multi-Spectral Detectors

The Warfighter Needs to See in All Spectrums At All Times

Today's Air & Space Sensor Platforms
• **Quickly reconfigurable** \rightarrow large, heavy, expensive

Spectrally Complex Air & Space Target Phenomenology
• **Target & background signatures** are UV, VIS, IR, MW, LW, SW, LW, SW

vision

- monolithic
- tunable
- multi-functional

http://www7.nationalacademies.org/bpa/SSSC Presentations Apr07_Carrick.pdf

[Technobarn] <http://www.technobahn.com/cgi-bin/news/read2?category=%A5%C6%A5%AF%A5%CE%A5%ED%A5%B8%A1%BC>

2007年10月11日 人民網日本語版

衛星「風雲」、17カ国に地球観測データを提供

国家気象局は10日、国際災害対策に関する約束を果たし、アジア太平洋各国の地球観測活動を支援するため、衛星「風雲」による地球観測データを同日よりアジア太平洋地域の17カ国に提供すると発表。同局と地球観測に関する政府間会合(GEO)の共催による「アジア太平洋地域における全球地球観測システム(GEOSS)データ共有シンポジウム」において、朝鮮・キルギス・ラオスなどアジア太平洋地域の11カ国に「風雲衛星データ放送システム」のユーザ端末を寄贈し

た。同システムの国内での業務運営は05年に始まり、衛星9基によるデータを毎日放送。気象・水利・農業など130以上の企業・機関に23GBのデータを提供、天気予報・気候予測・災害観測・環境リモセン分野で莫大な経済的・社会的効果を生んでいる。今年からCウェーブバンドに切替えたことで、衛星信号カバー範囲がアジア太平洋地域全体に拡大。全球地球観測データ共有システムを構成する地域システムとなっている。(編集 NA)

http://j.peopledaily.com.cn/2007/10/11/jp20071011_77885.html

[イベント] 第15回衛星設計コンテスト最終審査会

2007年10月28日(日)10:30~17:30 一橋記念講堂(神田)

「かぐや」の特別講演(16~16:50)もあり

詳細: <http://www.jsforum.or.jp/event/contest/>

[新刊] Air & Space 07.11 Smithsonian



パラグライダーの2007世界チャンピオン | AIR & SPACE www.airandspace.com

Winierska

[編注] 11月号が手元にきた。今回は中味がいろいろあって面白い。

- | | |
|--|---|
| p24 Air War Iraq | イラク アルアサド基地における米空軍の4年目の活動紹介 |
| p30 The Soplatá Airplane Sanctuary | 米国でスクラップ前の飛行機を多数収集してメンテしてきた人の話 |
| p36 The O Prize | 民間宇宙飛行を目論む Rocketplane 社の話 |
| p42 Photos from the Attic | 古い写真から: 第二次大戦期間の Marilyn Monroe の戦地訪問の写真他 |
| p48 The Real X-Men | X-シリーズ実験機 X-15, 周辺のテストパイロットの話 |
| p56 The Need for Speed | 速度を競った実験機 XS-1, X-2, X-3, D-558-II, X-15, X-43 のイラストと短い説明 |
| p58 The Man Behind the Curtain | ロシアのロケットの父コレリョフの影にいた控えめな宇宙技術者 Mikhail Tikhonravov の話 |
| p64 How Things Work: Evacuation Slides | 民間機脱出滑り台の話 |
| p66 Hollywood's Favorite Pilot | 複葉機のパイロット Paul Mantz の話 |

Departments:

- p18 Above & Beyond 今年2月に豪州で行なわれたパラグライダーの世界チャンピオンシップと 独のヴィスニエルスカ etc.

Aerospace Daily & Defense Report Oct 11, 2007

国防総省グループは宇宙太陽電力を支持

Pentagon group backs space solar power

Collecting solar power in space and beaming it back to Earth is a relatively nearterm possibility that could solve strategic and tactical security problems for the U.S. and its deployed forces, the Pentagon's National Security Space Office (NSSO) says in a report issued Oct. 10.

As a clean source of energy that would be independent of foreign supplies in the strife-torn Middle East and elsewhere, space solar power (SSP) could ease America's longstanding strategic energy vulnerability, according to the "interim assessment"

released at a press conference and on the Web site spacesolarpower.wordpress.com. And the U.S. military could meet tactical energy needs for forward-deployed forces with a demonstration system, eliminating the need for a long logistical tail to deliver fuel for terrestrial generators while reducing risk for eventual large-scale commercial development of the technology, the report says.

"The business case still doesn't close, but it's closer than ever," said Marine Corps Lt. Col. Paul E. Damphousse of the

NSSO, in presenting his office's report. That could change if the Pentagon were to act as an anchor tenant for a demonstration **SSP** system, paying abovemarket rates for power generated with a collection plant in geostationary orbit beaming power to U.S. forces abroad or in the continental U.S., according to Charles Miller, CEO of Constellation Services International and director of the Space Frontier Foundation.

By buying down the risk with a demonstration at the tactical level, the U.S. government could spark a new industry able to meet not just U.S. energy needs, but those of its allies and the developing world as well. The technology essentially exists, and needs only to be matured. A risk buy-down by government could make that happen, according to the **NSSO** report.

"This is not a 50-year solution," said John Mankins, an expert in the field and president of the Space Power Association. "The kinds of things that are possible today say a truly transformational demonstration at a large scale is achievable within this decade."

As an example, Mankins listed the rapid progress in boosting the efficiency of solar cells. While 20-25 percent efficiency was once considered a long-term goal, efficiencies on the order of 40 percent already have been achieved. And the modularity and scalability of the systems needed to build an **SSP** platform make testing relatively straightforward.

Even from its perch in low-Earth orbit, for example, the International Space Station could be used as a test bed for **SSP** components and even demonstrate low-level power transmission from orbit to Earth. The exposed facility on Japan's Kibo laboratory, due for launch in the first half of next year, could be used to test pointing and transmitting hardware, Mankins said, as well as to conduct spaceexposure experiments on materials that might be used in building the large structures needed to collect sunlight in meaningful amounts.

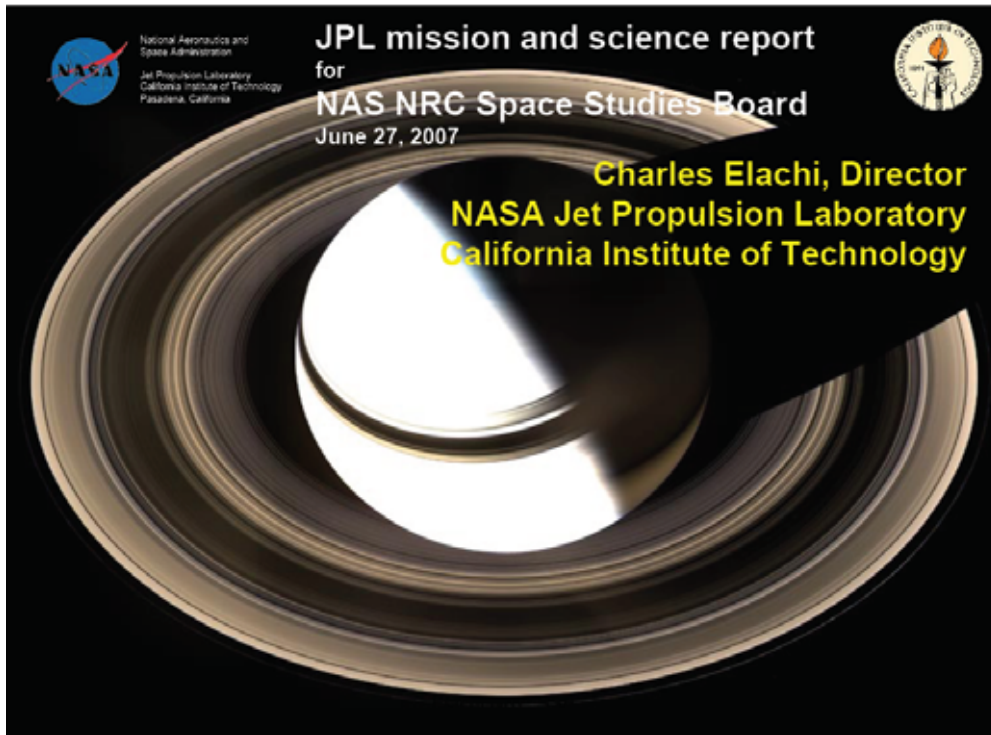
The Internet-based group of experts who prepared the report for the **NSSO** recommended that the U.S. government organize itself to tackle the problem of developing **SSP**; use its resources to "retire a major portion of the technical risk for business development; establish tax and other policies to encourage private development of **SSP**, and "become an early demonstrator/adopter/customer" of **SSP** to spur its development. That, in turn, could spur development of space launch and other industries. Damphousse said a functioning reusable launch vehicle preferably single-stage-to-orbit probably would be required to develop a full-scale **SSP** infrastructure in geostationary orbit. That, in turn, could enable utilization of the moon and exploration of Mars under NASA's vision for space exploration. - Frank Morring, Jr. (morring@aviationweek.com)

2007.06.27 NAS(National Academies of Science), NRC(National Research Council) Space Studies Board

[編注] 多数のプレゼ資料がアップされている。宇宙分野の層の厚さに感嘆。 <http://www7.nationalacademies.org/ssb/>

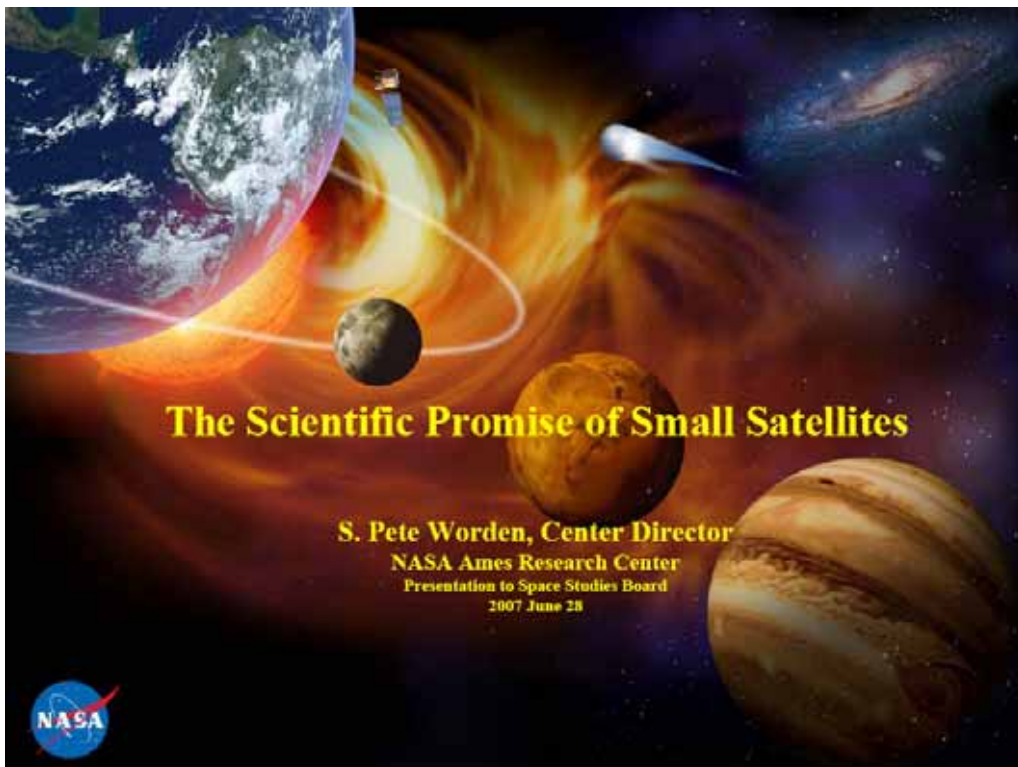
JPL 研究所の任務とサイエンス・レポート

JPL Mission and Science Report, Charles Elachi, JPL Director



小型衛星の科学分野への約束/期待

The Scientific Promise of Small Satellites, Pete Worden, Director, NASA Ames Research Center (元空軍准将)



Aerospace Daily & Defense Report Oct 11, 2007

グローバル・スペース・エコノミー(世界宇宙産業規模)は 2006 年に\$220B に達する: Space Foundation レポート

Global space economy reaches \$220B in '06, report says

The global space economy reached \$220 billion in 2006, up 18 percent from 2005, according to a new report from the Space

Foundation. . . .

ISS に向けての次の有人ロケット

Next crew rockets toward ISS

The first woman to command the International Space Station (ISS), an experienced Russian cosmonaut and a Malaysian doctor

lifted off for the station Oct. 10, setting up . . .

最新のホワイトハウスの国土安全保障計画は S&T 科学と技術を強調

Latest White House homeland security plan stresses S&T

HOMELAND PLAN: Acknowledging that its "concept of securing the homeland has evolved, adapting to new realities and threats,"

the White House published an update Oct. 9 to . . .

LM/NG ロッキード/ノースロップ・TSAT チームはプロセッサ-ルータの検証テストを完了

LM/NG TSAT team completes verification tests of processor-router

TSAT TEST: The Lockheed Martin Northrop Grumman Transformational Satellite (TSAT) space segment team has

completed the last in a series of verification tests of its Next Generation . . .

Aerospace Daily & Defense Report Oct 10, 2007

Selene かぐやは最初のピギーバック衛星を放出

Selene drops off first piggyback satellite

Japan's Selene moon probe, which entered lunar orbit on Oct. 4, jettisoned the first of its two 50-kilogram (110-pound) piggyback

"daughter" satellites Oct. 8 as it settled . . .

NASA 安全委員会は有人 vs.無人の疑問を考察

NASA safety panel considers manned vs. unmanned question

NASA's Aerospace Safety Advisory Panel (ASAP) is turning its attention to the issue of how the agency decides whether a

particular mission should be manned or unmanned, . . .

下院リーダ達は中国の武器のイラクへの売却に懸念

House leaders concerned about China arms sale to Iraq

The chairman and senior Republican on the House Armed Services Committee (HASC) wrote Defense Secretary Robert

Gates Oct. 9, expressing "strong concern" about a reported \$100 million . . .

CosmoSkyMed 4 号機は Soyuz で打上げるかもしれない

Fourth CosmoSkyMed may launch on Soyuz

Italian space agency chief Giovanni Bignami says that the fourth satellite in Italy's CosmoSkyMed radar imaging system may be

orbited by a Soyuz booster from a new . . .

サイバー設立には取得の改革を要すると Jumper は述べる

Acquisition reforms needed to build cyber force, Jumper says

If the U.S. Air Force and the rest of the Pentagon want to truly

develop a military-strength cyber force, they'll have to change

the way they buy . . .

レイセオンは5年間の陸軍宇宙の研究の契約

Raytheon signs five-year Army space research deal

ARMY SPACE CRADA: Raytheon announced Oct. 9 that it signed a five-year cooperative research and development

agreement (CRADA) with the U.S. Army Space and Missile Defense Command-U.S. . . .

インドのHCL社は来年米と合意を発表予定

India's HCL to announce U.S. agreements next year

HCL Technologies, one of India's leading global IT services companies, says it will be announcing agreements with U.S

companies in 2008 as it gears up to help . . .

ロッキード・マーチンはNORAD C2システムの近代化に\$25Mの契約

Lockheed Martin awarded \$25M to modernize NORAD C2 systems

AMERICAN DEFENSE: Lockheed Martin has been awarded a \$25 million contract to continue mission-critical operations,

maintenance and support for Integrated Space Command and Control (ISC2). ISC2 will . . .

Aerospace Daily & Defense Report Oct 9, 2007

年末までにJTRS 戦術無線システムはAMF(海上の航空)の契約を行えることを期待

Before year's end, JTRS hoping to make AMF award

The Joint Tactical Radio System (JTRS) program expects to finally award the long-delayed Airborne Maritime Fixed (AMF)

portion of the program before the end of this year. . . .

AAIはTextronに買収される予定

AAI Corp. to be acquired by Textron

AAI ACQUISITION: United Industrial Corp. (UIC), the parent company of AAI Corporation, announced Oct. 8 that it has signed

an agreement to be acquired by Textron Inc. . . .

Lugarはミサイル防衛に関し米口間の協力を促す

Lugar urges cooperation between U.S., Russia on missile defense

Russia's offer to link early warning systems with the U.S. as a defense against rogue state missile attacks "provides an

important strategic opening" for further discussions, the . . .

ロッキードとジェネラルダイナミクスはsniper 目標狙撃システムの受注を発表

Lockheed, General Dynamics announce sniper system awards

SNIPER SYSTEMS: Lockheed Martin said it received a nine-month, \$2 million Phase 1 contract from the Defense

Advanced Research Projects Agency (DARPA) to develop a sniper system . . .

Harrisは\$104Mの陸軍JTRS無線の契約を決着

Harris lands \$104M Army JTRS radio award

HARRIS RADIOS: Harris said it has received a \$104 million order from the U.S. Army for high-frequency radio systems. Under the

agreement, Harris will provide the Army . . .

WGS1 号機の打上げは 1 日遅れて 10 月 10 日に打上げ

First WGS launch delayed a day to Oct. 10

WGS DELAYED: Launch of the first Wideband Global Satcom (WGS) spacecraft from Cape Canaveral, Fla., atop an Atlas 5

rocket has been delayed a day to Oct. . . .

Aerospace Daily & Defense Report Oct 8, 2007

米上院は極超音速ミサイルエンジンに予算割当て

Senate earmarks for hypersonic missile engines

HYPER FUNDING: The Senate in its fiscal 2008 defense spending bill has added \$10 million above the Defense

Department's request for research and development of a hypersonic . . .

国防総省の調達部長は S&T(科学&技術)の予算増加を要求

Pentagon acquisition chief calls for increased S&T

DOD S&T: The Pentagon's top acquisition official, John Young, has suggested boosting Defense Department science and

technology (S&T) spending as much as 20 percent and concentrating the . . .

核の拡散の脅威は今週、ワシントンで精査される予定

Nuke threats to be scrutinized this week in Washington

NUCLEAR KNOWLEDGE: The threats posed by nuclear proliferation and radiological terrorist weapons are the focus of

attention at two events this week in Washington. On Oct. 8, . . .

ボーイングは次世代のミサイル等の先進センサを開発することに

Boeing will develop advanced sensor for next-generation munition

JDRADM CONTRACT: Boeing will develop the Seeker Integrated Target Endgame Sensor (SITES) to help advance Joint Dual Role

Air Dominance Missile (JDRADM) technology under a \$600,000 contract . . .

Orion の質量低減を続けるなら後日新しい機能を組込めることになる NASA は述べる

Keeping Orion's weight down should allow for new capabilities later, NASA says

ADDING BACK: NASA hopes that by carefully watching the Orion Crew Exploration Vehicle's weight throughout the design

process, leftover mass margin can be used for adding new . . .

米は中東にさらに多くの武器を売却する予定

U.S. to sell Middle East more arms

SAUDI VEHICLES: Saudi Arabia may be next in line to receive light armored vehicles and high mobility multi-purpose wheeled

vehicles in a \$631 million deal proposed to . . .

ボーイングは Block III Apache Longbow ヘリを米陸軍に納入する方向で作業中

Boeing working toward delivering Block III Apache Longbow helicopters to U.S. Army

REMANUFACTURED APACHES: Boeing is aiming to deliver Block III Apache Longbow helicopter to the U.S. Army at the

beginning of 2011. The first AH-64D built under the ...

米海軍は Zumwalt 2 周波レーダのテスト・アンテナを受取る

Navy takes delivery of test antenna for Zumwalt dual-band radar

ZUMWALT ANTENNA: The U.S. Navy has taken delivery of an engineering development model antenna for the Volume Search

component of Raytheon's Dual Band Radar for the new ...

上院は無人地上車両の予算を推進

Senate pushes unmanned ground vehicles in bills

The Senate's recent duo of fiscal 2008 defense bills contain provisions promoting unmanned ground vehicles (UGVs),

reflecting ongoing desires to aid and supplement ground troops with robotic ...

上院は NASA に関する\$1B の Mikulski 補正予算法案を通す

Senate passes \$1B Mikulski amendment for NASA

The Senate on Oct. 4 passed an amendment to the fiscal 2008 Commerce, Justice, Science (CJS) appropriations bill

spearheaded by Sen. Barbara Mikulski (D-Md.) that would provide ...

Selene かぐやは月軌道への投入成功

Selene successfully injected into lunar orbit

The Japanese Aerospace Exploration Agency (JAXA) has announced that the Selene spacecraft successfully achieved

lunar orbit injection on Oct. 4. The satellite entered an elliptical orbit with ...

Eglin は企業に対し高出力マイクロ波利用兵器に関する情報提供を要求

Eglin seeks industry input on High-Power Microwave uses

The U.S. Air Force's air armament center at Eglin Air Force Base, Fla. is officially in the hunt for high-power microwave (HPM)

weapons to put in its ...

Morocco で F-16 は Rafale との商戦に勝つ

F-16 nips wings of Rafale in Morocco

A last-minute bid by the U.S. to sell Lockheed Martin F-16s to Morocco appears to have destroyed French hopes of making that

country the first export customer ...

海外への武器売却は減少しているが、なお大きなビジネスと CRS レポート

Foreign arms sales falling, but still big business, CRS reports

A seven-year Congressional Research Service (CRS) review of worldwide arms transfers shows a declining but still strong

market, with the value of all arms transfer agreements with ...

ホワイトハウスは NASA, NOAA の予算歳出を脅かす

White House threatens veto of appropriations bill funding NASA, NOAA

The Bush administration is threatening to veto the Senate's fiscal 2008 Commerce, Justice, Science appropriations bill, which

includes the budgets for NASA and the National Oceanic and ...

米空軍は国防総省に\$1B SBIRS の予算超過予想を伝える

USAF informs Pentagon of expected \$1B SBIRS overrun

U.S. Air Force Secretary Michael Wynne has notified the Pentagon's leadership of a new cost overrun that could

potentially reach \$1 billion on the troubled Space-Based Infrared ...

ロッキード・マーチンはミサイル防衛レーダを Bahrain に納入

Lockheed Martin delivers ballistic missile defense radar to Bahrain

BAHRAIN DEFENSE: Lockheed Martin delivered what it says is the world's only 360-degree coverage mobile radar certified to

detect tactical ballistic missiles to the Kingdom of Bahrain. ...

上院は Aegis BMDs と国境 UAV に関する歳出予算額を増やす

Senate adds appropriations for Aegis BMDs, border UAVs

Senators passed their version of regular fiscal 2008 defense appropriations late Oct. 3, but not before earmarking for the

Aegis Ballistic Missile Defense System (BMDs) and unmanned ...

DOD の IG 査察官は DTRA の契約の規則違反を責める

DOD IG faults DTRA contract award

The Defense Threat Reduction Agency (DTRA) failed to follow proper acquisition regulations in a contract worth \$375 million,

according to a recent audit by the Department of ...

イラクへの米国の機器の売却は\$2.257B に上る

Sale of U.S. equipment to Iraq valued at \$2.257 billion

The Defense Security Cooperation Agency (DSCA) notified Congress recently of a possible foreign military sale to Iraq of

various vehicles, small arms ammunition, explosives and communications equipment. ...

Arianespace は Intelsat-11/Optus D2 の打上げカウントダウン開始

Arianespace counts down to launch of Intelsat-11/Optus D2

Arianespace is counting down to the Oct. 5 dual-launch of the Intelsat-11 and Optus D2 communications satellites aboard an

Ariane 5 GS rocket from the company's spaceport ...

ギリシャと米国はロッキードマーチンの Hellfire II ミサイル売却で合意

Greece and U.S. sign agreement for sale of Lockheed Martin Hellfire II missiles

GREEK HELLFIRE: An agreement between the U.S. and Greece has authorized the sale of multiple warhead variants of Lockheed

Martin's Hellfire II precision-strike laser-guided missile to Greece. ...

米海軍の BAMS 広域海上監視の決定は来年に持越し

BAMS decision slips to next year

BAMS SLIPS: The U.S. Navy's selection of a contractor to develop the Broad Area Maritime Surveillance (**BAMS**) system has slipped until February. It was slated for award . . .

Aerospace Daily & Defense Report Oct 4, 2007

米空軍の予算と優先計画の見通し

USAF Funding and Priority Program Projections

Likely USAF Program "Winners & Losers"

[Million \$]

Program	Comment	FY2007	FY2008 Request	HASC	SASC	HAC-D	SAC-D
F-35 Lightning II	Expect fight in FY09-10 over potential Congressional extension of F-22 MYP into FY10-11; & sub-sequent fight in FY11-12 over aggressive ramp-up from 12 to 48 aircraft /year. USAF/Navy fund	5,069.8	6,142.2	6,372.1	6,582.8	6,830.0	6,339.0
CSAR-X	(LMT & UTX v. BA, with GAO recommendation of new BAFOs.)	200.1	280.1	127.0	126.7	180.0	98.1
KC-X	(Outcome of CSAR-X could establish precedent for potential change in other	69.6	314.5	114.5	174.5	314.5	314.5
C-5 AMP/RERP	(USAF deliberating whether to partially -curtail RERP to full C-5 fleet (LMT), to partially-fund additional C-17 (BA) production in FY09.)	378.2	602.3	609.0	602.3	530.0	519.6
C-17	(Congressional prerogative to fund additional \$2.8B for 10	4,347.2	261.0	2,770.6	281.0	261.0	261.0
TSAT	(Final "downselect" between LMT/NOC v. BA in early FY08.)	729.9	963.6	963.6	963.6	963.6	763.6
GPS III	(Includes both GPS III Spacecraft (LMT v. BA), plus separate "OCX" Ground Control (NOC v. RTN v. possibly LMT).)	313.4	597.3	447.3	597.3	517.3	447.3
SBIRS -High	(USAF to procure third LMT/NOC GEO spacecraft in FY08 - 09.)	669.1	1,070.0	1197.6	1197.6	1,097.6	989.0
Long Range Strike	(Expect NOC, LMT, BA to all participate in classified subsonic strike aircraft.)	25.5	"Black"	"Black"	"Black"	"Black"	"Black"

Secondary Programs of Potential Interest include:

- 1) MD (strong USAF presence); 2) F-22Raptor MYP; 3) RQ-4Global Hawk; 4) C-130J Super Hercules; 5) C-130AMP; 6) F-15AESA.

Funding derived from FY08 Budget Request, plus HASC/SASC/HAC-D/SAC-D Committee Reports&Bills. Doesn t include FY08 GWOT Supp. Request.

Aerospace Daily & Defense Report Oct 4, 2007

宇宙配備テストベッドは予算が否認され再び落ちる

Space-based test bed falls again as spending rejected

Senators have argued over and ultimately rejected the Missile Defense Agency's (MDA) proposed space-based missile defense test bed once again, likely sealing the fate of efforts to . . .

ローバは火星の新しい発見を行ないつつある

Rovers making new Martian discoveries

The Mars rovers Spirit and Opportunity, now 44 months into what were to have been three-month missions, are beginning to explore terrain features strikingly different from their . . .

WGS 宇宙機1号機の打上げ10月9日に設定

Oct. 9 launch set for first WGS spacecraft

The first Wideband Global Satcom (WGS) spacecraft will launch on Oct. 9, providing 10 times the communications capacity

available from Defense Satellite Communications Systems (DSCS) spacecraft currently ...

欧州に関し弾道ミサイル防衛のエLEMENTが修正された

Ballistic missile defense elements modified for Europe

The Ground-based Midcourse Defense (GMD) X-band radar slated for the Czech Republic and the interceptors intended for

Poland will undergo some modifications to respond to threats more ...

国防総省は Smith 社の化学剤検出器の2種の構成をテスト予定

Pentagon will test two configurations of Smiths chemical detectors

CHEMICAL DETECTORS: The Defense Department has selected Smiths Detection's M4 lightweight chemical detector to

participate in the second increment of the Pentagon's Joint Chemical Agent Detector (JCAD) ...

国防総省は輸出管理を強化する必要ありと IG 査察官は報告

Pentagon needs to strengthen export controls, IG reports

The Pentagon needs to fortify its procedures to strengthen export controls, the Department of Defense Office of Inspector

General (IG) said in a recent report. ...

宇宙時代は Sputnik 1 の祝いと共に 50 年に

Space age hits 50 years with Sputnik 1 anniversary

50 YEARS AGO: On Oct. 4, 1957, the Soviet Union launched Sputnik-1, marking the beginning of the Space Age. The first

artificial satellite to orbit the Earth, ...

Maxwell Technologies 社は ESA の Gaia 天体ミッションのコンピュータを提供予定

Maxwell Technologies to provide computers for ESA's Gaia

GAIA COMPUTERS: Maxwell Technologies of San Diego will provide the single-board computers (SBC) for the European

Space Agency's Gaia astronomy mission to survey more than a billion ...

Aerospace Daily & Defense Report Oct 3, 2007

米国は妨害に対するミサイル防衛システムのテストを計画

U.S. to test missile defense system against countermeasures

The Missile Defense Agency (MDA) feels enough confidence from last week's successful test of the Ground-Based Midcourse

Defense (GMD) System to shift focus for the next flight-test ...

Orion ビークルは質量の目標値に近づきつあると NASA は述べる

Orion vehicle nearing weight targets, NASA says

The Orion Crew Exploration Vehicle is finally nearing its weight targets, with the design team taking a bottoms up approach to

trimming weight, informed by new thinking ...

今や、DHS 国土安全保障省は秘密画像共有オフィスを保留に

For now, DHS puts classified imagery-sharing office on hold

The Department of Homeland Security (DHS) has delayed a controversial program to share classified satellite imagery with

nonfederal agencies, including local law enforcement, according to a House . . .

JASONS(防衛助言科学者グループ)はさらなる RRW のスタディとコンピュータ・モデリングを要求

JASONS call for more RRW study, computer modeling

RRW REPORT: The Mitre Corp.'s JASONS, a group of scientists who advise the government on defense matters, has

recommended more study, computer modeling and peer review of . . .

イスラエルはロシアのレーダを攪乱させる

Israelis foil Russian radars

The Israeli air force has again confounded Syria's radar barrier, with what U.S. experts contend is a new technology that allowed

its aircraft to infiltrate Syrian air . . .

ESA 欧州宇宙機関はさらなる GMES の予算支出を承認

ESA OKs further GMES funding

The European Space Agency (ESA) has approved the next phase of the Global Monitoring for Environment and Security (GMES)

system, which it is co-funding with the European . . .

上院の防衛予算法案は商業的空中給油を推進する

Senate defense bill pushes commercial aerial refueling

COMMERCIAL REFUELING: The Senate's fiscal 2008 defense authorization bill, passed late Oct. 1, includes a provision for an

Air Force pilot program to study the feasibility and . . .

IG 査察官は USAF の研究所は契約管理の改善を要すると述べる

IG says USAF labs need better contracting controls

U.S. Air Force laboratories lack adequate control over certain contracting steps and oversight, according to the DOD Office of

the Inspector General (IG). . . .

L-3 社の関連会社が Trident II D5 のサポートの契約を獲得

L-3 subsidiary wins Trident II D5 support contract

TRIDENT SUPPORT: L-3's Interstate Electronics Corp. in Anaheim, Calif., is receiving a \$59.6 million cost-

plus-incentive-fee, cost-plus-fixed-fee contract for specialized technical engineering services to operate, maintain and . . .

独は DRS データ中継衛星と電子情報収集衛星に注目

Germany eyes DRS, elint satellites

German industry officials say the German air force is looking at a data relay satellite capability to permit operational electronic

intelligence (elint) to be quickly downloaded from . . .

モロッコの戦闘機選定は Rafale と F-16 の対決に

Morocco fighter deal shaping up as Rafale vs. F-16

Morocco may be preparing to jettison a bilateral fighter deal involving France and perhaps move to an international order, as

India did a couple of years ago. . . .

上院は 2008 防衛予算を承認、DOD の歳出始まる

Senate passes authorization, starts DOD appropriations

DEFENSE BILLS: The Senate late Oct. 1 passed its fiscal 2008 defense authorization bill and on Oct. 2 started debating its

related appropriations bill. The progress allows . . .

Aerospace Daily & Defense Report Oct 2, 2007 Source: Government Accountability Office (GAO)

先進赤外線衛星システムに関する会計監査レポート

GAO on the Advanced Infrared Satellite System (AIRSS)

AIRSS Status: Activities since Acquisition Decision Memorandum

- DOD completed 30- & 120-day studies into alternative IR concepts (including Wide Field of View (WFOV))
- Space and Missile Systems Center (SMC)/Air Force Research Laboratory issued two Broad Agency Announcement contracts for development of WFOV technologies to Raytheon (\$54.4 million) and SAIC (\$26 million)
- SMC issued two Program Research and Development Announcement contracts for system design to General Dynamics (\$23.3 million) and Northrop Grumman Space Technology (\$24.8 million)

- Air Force Space Command drafted a requirements document for global space infrared surveillance systems, a family of systems that includes **AIRSS** as the **SBIRS High follow-on**
- review by the Joint Requirements Oversight Council is scheduled for summer 2007
- National Security Space Office (**NSSO**) completed its infrared architecture study in December 2006

AIRSS Background

- Congress reduced the fiscal year 2007 **AIRSS** budget by \$35 million for program moderation
- The latest program cost estimate from Fiscal Year 2007 through 2013 is over \$3.3 billion

(\$ in Millions)

	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	Total FY 2007-2013
Cost	67.552	230.887	354.308	543.534	708.657	722.287	736.998	3364.223

判明事項: AIRSSがFY2025の打上げ時期にかなうため挑戦に直面するかもしれない

Finding: AIRSS may face challenges in meeting launch date of FY 2015

- **AIRSS** program technology schedule shows critical technologies reaching a high level of maturity by program start. Moreover, most are now rated at a technology readiness level (TRL) 5 or higher.
- However, the WFOV capability has not been achieved with the materials and technologies specifically planned for **AIRSS**. For example,
- Mercury-cadmium-telluride sensor chip assembly performance level has yet to be verified

- Full-earth infrared telescope has yet to be developed and demonstrated
- Cryocoolers have yet to demonstrate low jitter, high efficiency and long life
- The **AIRSS** office assessed current and projected technology readiness levels (TRLs) for enabling technologies for a WFOV capability. Although the technologies offer varying levels of performance, final WFOV design will determine which technologies will be used.

Item	TRL	
	2006	2008
Focal Plane Array Sensor		

Sensor Chip Assembly – (mercury-cadmium-telluride, or HgCdTe)	5-6	8
Hybrid Focal Plane Assembly	5-6	8
Read-out Integrated Circuits	6	8
Cryocooler		
110K (for HgCdTe)	7	8
Spatial filtering algorithms for theater reporting	6-7	7-9
Radiation hardened Field Programmable Gate Arrays (FPGAs)		
30K gates	8	9
400K gates	5	6
18° Infrared Telescope	5-6	6
Spacecraft (structure, power, attitude control system (ACS), etc.)	8	8
Communications suite	8	8

- Some DOD stakeholders also believe the WFOV technology development schedule is optimistic.
- Moreover, according to the Air Force Research Laboratory, flight testing is the only way to validate the WFOV approach to a point where risk is significantly lowered. But this test is not scheduled to happen until 2010.
- GAO believes that if the flight test does not go well, DOD will not have time to return to a lower risk technology effort that focuses on sustaining current capability. AIRSS officials

- acknowledge its schedule is “very aggressive” for meeting a 2015 launch availability date
- 12 months from preliminary to critical design review (**CDR**)
 - 4 years from **CDR** to satellite delivery
 - **AIRSS** officials plan to award system contracts before data from key sensor on-orbit testing is completed.
 - GAO has reported that it is important for DOD to gain knowledge about technology readiness prior to proceeding with system development.

Aerospace Daily & Defense Report Oct 2, 2007

NASA は新しい宇宙服の提案を求める

NASA solicits proposals for new spacesuit

NASA has issued a request for proposals (RFP) from industry for a new spacesuit system for the Constellation program, in

anticipation of awarding a contract in June ...

戦略司令官は SSA 宇宙状況認識でロビー活動を行なう

Strategic commander lobbies for space situational awareness

Terrorists obtaining weapons of mass destruction represent the greatest challenge facing the United States, but "attacks

impacting our freedom to operate in space and cyberspace also pose ...

ディスカバリーは 9 月 30 日のロールアウトの後、打上げを準備

Discovery poised for launch after Sept. 30 rollout

Space shuttle Discovery, mounted on its external tank and solid rocket boosters for the STS-120 mission, was rolled to Launch

Complex 39A Sept. 30. ...

GAO 会計監査局は DOD は月次のイラク攻撃統計値を発表すべきと述べる

GAO says DOD should release monthly Iraq attack statistics

The U.S. Government Accountability Office (GAO) is recommending that the Defense Department make data on

enemy-initiated attacks in Iraq available to Congress and the public on a ...

NMT 海軍マルチバンド衛星端末は Harris が Raytheon に異議申立てた後、契約が確定

NMT award affirmed after Harris protest: Raytheon

NMT AFFIRMED: Raytheon said Oct. 1 that the U.S. Navy has directed it to proceed with development of the Navy Multiband

Terminal (NMT) after competitor Harris Corp. . . .

NASA JSC は NSBRI 宇宙生医学研究協会とさらに 5 年の契約を延長

JSC extends agreement with NSBRI another five years

JSC AWARD: Johnson Space Center has awarded a five-year, \$120 million extension of its cooperative agreement with the

National Space Biomedical Research Institute (NSBRI) of Houston covering . . .

2007 年 10 月 5 日 人民網日本語版

次世代宇宙遠洋観測船「遠望 5 号」が運用開始

中国が自主開発した次世代宇宙遠洋観測船「遠望 5 号」の中国衛星海上観測制御部への引渡しが先日、江南造船所で行われた。世界でも先端水準を誇るこの大型宇宙遠洋観測船の建造・運用は、中国宇宙遠洋観測・制御能力がまた新たなレベルへと上げられたことを意味する。遠望 5 号は排水量 2 万 5000 トン、強風 12 級以上に

も耐え、南北緯度 60 度内のあらゆる海域を航行可能。積載する大型観測制御設備は、さまざまな宇宙船の海上追跡・制御任務に堪え、オペレーションセンタとのリアルタイム通信・データ交換も可能。(編集 NA)

http://j.peopledaily.com.cn/2007/10/05/jp20071005_77642.html

Space News <http://www.space.com/spacenews/>

NASA は Ares 1 のアビオニクス分野を 2 社に狭める

NASA Narrows Ares 1 Avionics Field to Two

WASHINGTON -- NASA selected Ball Aerospace and Technologies Corp. and Boeing Space Exploration as the finalists

for a contract to build the instrumented avionics ring for the agency's planned Ares 1 crew launch vehicle, the companies said.

Hispasat は強い経営成績を報告

Hispasat Reports Strong Financial Performance

PARIS -- Spanish satellite-fleet operator Hispasat reported sharp increases in profit and revenues for the six months ending

June 30 and said it expects profit to grow at double-digit rates annually until at least 2013.

Dnepr は地球観測衛星 3 機を 2008 後半に打上げ予定

Dnepr to Loft Three Earth Observing Satellites in Late 2008

PARIS -- Surrey Satellite Technology Ltd. (SSTL) will launch two of its 100-kilogram-class Earth observation satellites, Britain's UK-DMC2 and Spain's Deimos-1, aboard a Russian-Ukrainian Dnepr rocket in late 2008, SSTL announced

Oct. 8. The same rocket is expected to carry the 200-kilogram DubaiSat-1 optical Earth observation satellite now under construction in South Korea as the principal payload.

APT Satellite Holdings は会社の売却は切迫したものではないと述べる

APT Denies Sale of Company is Imminent

PARIS -- The stock price of satellite-fleet operator APT Satellite Holdings Ltd. of Hong Kong has more than doubled on the New York and Hong Kong exchanges in the past two weeks

for no apparent reason, forcing the company on Oct. 5 to deny that an acquisition or other deal was imminent.

BSAT-3a とロッキード・マーチン両者は満足

Both Beaming BSAT-3a & Lockheed Martin

Now operational for the Broadcasting Satellite System Corporation (**B-SAT**) is the Lockheed Martin [NYSE:LMT]

BSAT-3a broadcasting satellite. The on-orbit deployment and spacecraft system checkout were all successful.

オービタル・サイエンスのニュース総覧

Orbital Sciences' News Omnipresence

Orbital Sciences Corporation [NYSE:ORB] has been selected by the California Institute of Technology (Caltech) and the Jet Propulsion Laboratory (JPL) to design, manufacture, integrate and test the Nuclear Spectroscopic Array (**NuSTAR**) scientific satellite. Plus, Orbital Sciences Corporation's Orbital Boost

Vehicle (**OBV**), which is the booster rocket for the Ground-Based Interceptor (**GBI**), was successfully launched as part of a test of the Ground-Based Midcourse Defense (**GMD**) program.

http://www.satnews.com/cgi-bin/display_story.cgi?number=277038482

QinetiQ 社によりプロジェクトにパワー、

QinetiQ が主導のコンソーシアムが開発したバッテリーが Foton-M3 ミッションの最終段の宇宙投入時科学ペイロードに電力供給

Power To The Project By QinetiQ

A battery developed by a **QinetiQ**-led consortium, including ABSL Space Products (ABSL), has successfully powered key, scientific payloads during the final stages of the **Foton-M3**

mission into space. **Foton-M3** is a Russian unmanned spacecraft launched on September 14th from the Baikonur Cosmodrome in Kazakhstan.

Maxwell Technologies 社は ESA の Gaia 天文ミッションのためのシングルボード・コンピュータを供給することに

Getting Gaia Going, Maxwell's Goal

Maxwell Technologies Inc. [NASDAQ:MXWL] has won a contract valued at approximately \$3 million from Astrium's United Kingdom-based satellite unit to supply single board computers (SBC) for the European Space Agency's (ESA) "Gaia"

astronomy mission. The goal of the mission is to survey more than a billion stars and other celestial bodies in order to trace the origin and evolution of the Milky Way Galaxy.

Star One C1 通信衛星が打上げのためクーラーに輸送された

Star One Setting Up For Space

The **Star One C1** communications satellite has been transferred to the Kourou, French Guiana launch site by Thales Alenia Space.

Star One C1 is dedicated to the Brazilian satellite operator Star One.

Verizon は USPS に VSAT ネットワークを提供予定

Verizon VSATs The USPS

Verizon Business will provide a new custom satellite network to the U.S. Postal Service (**USPS**). The network will provide reliability and cost-effective delivery of voice and high-speed data to areas where wireline or wireless access is unavailable or too costly. Formerly known as a **VSAT** (Very Small Aperture

Terminal) satellite system, point-to-point communications for about 5,000 Postal Service sites in the continental United States, Hawaii, Alaska and Puerto Rico, and backup connectivity for a number of larger USPS sites, will be available.

Nokia 社は NAVTEQ を買収予定

Nokia Nabs NAVTEQ

The news blurted out the information early yesterday morning during the business report. Nokia is going to acquire **NAVTEQ** for an aggregate purchase price of about \$8.1 billion (€5.7 billion),

or approximately \$7.7 billion (€5.4 billion) of **NAVTEQ** existing cash balance. That works out to about \$78 per each share of **NATBEQ**, including outstanding options.

Reno で 10 月 10-13 日に SBE 2007 West 衛星の展示会

A JEM Of A Sat Show In Reno

Upcoming is **SBE 2007 West** from October 10th through 13th at the Reno Sparks Convention Center in Reno, Nevada. This expo

started in Memphis in 2005 and is now heading west for the first time.

SpaceDev 社は STP ソーラ・サーマル推進開発を DARPA と契約

SpaceDev s Thermal Thrust

SpaceDev [OTCBB: SPDV] is the recipient of a contract from the United States Defense Advanced Research Projects Agency (**DARPA**). The first phase contract value is \$3.75 million for the initial development of solar thermal propulsion (**STP**) and bus

design for the High Delta-V Satellite Program. **SpaceDev** has assembled a team, including General Atomics and BAE Systems, to deliver strong and proven capabilities to address the program s technical challenges.

Agilent 社は欧州マイクロ波コンフェレンスで最新の計測ソリューションを展示予定

Agilent Knows How To Measure Success

Agilent Technologies Inc. [NYSE: A] is going to showcase their newest test and measurement solutions for **3GPP** Long Term Evolution (**LTE**) at the upcoming 2007 European Microwave

Conference, Pavilion 908. This event will take place during European Microwave Week in Munich, Germany, Oct. 8-12.

DataPath は米海兵隊の SWAN 広域ネットワークサポートを契約

DataPath s Swan Smiles

DataPath, Inc. has received US\$8.7M in delivery orders for continued support and enhancements to the U.S. Marine Corps' Support Wide Area Network (**SWAN**) programs. Under the

delivery orders, DataPath will upgrade VSAT flyaway systems and Satellite Transportable Terminals (STTs).

ATV フライトソフトのコンパチ試験は ESA と共同で完了、加えて NASA に於いても ISS の膨大なフライトソフトの残りも国際チームにより試験を完了

Joy At ESA With Flight Software

The compatibility of the final Jules Verne Automatic Transfer Vehicle (**ATV**) flight software has been successfully tested for the first time in coordination with the European Space Agency (**ESA**). Additionally, the remainders of the vast International

Space Station (**ISS**) flight software by global teams at the NASA Software Verification Facility (**SVF**) in Houston were also completely tested.

スペインの自治体は Skylogic 社から新技術を得る

Spanish Municipalities Getting New Tech From Skylogic

Skylogic, the broadband affiliate of Eutelsat Communications

[Euronext Paris: ETL] is the recipient of a contract from the

Diputacion Provincial de Zaragoza to implement full broadband capabilities to 120 communities in the region of Saragossa in northern Spain. The Zaragoza Internet Provincial programme was initiated to facilitate access to new technologies for all

municipalities in the province and to provide citizens in all communities with free broadband access to public service amenities and on-line documentation.

ESA GMES 計画のフェイズ-2 の前提と約束

ESA GMES Program s Phase-2 Premise & Promise

The European Space Agency s (ESA) Member States participating in the GMES Program approved the transition to Phase-2 of Segment 1 of the GMES Space Component Program.

GMES (Global Monitoring for Environment and Security) is an EU-led initiative aimed at implementing information services dealing with environment and security.

MESSENGER 探査機の模擬的テストは成功

MESSENGER Probe Sim Success

The **MESSENGER** (Mercury Surface, Space Environment, Geochemistry, and Ranging) probe to Mercury will use low-gain radio frequency antennas and other telecom systems to study various aspects of the planet. The probe s Radio Science team

has just completed a month of successful Doppler performance testing sims within an environment similar to what the probe will encounter in space.

SES ASTRA の受注状況

Awarding Situations For SES ASTRA

SES ASTRA, an **SES** company [Euronext Paris and Luxembourg Stock Exchange: SESG] announced the company has selected Global Communications, Invacom, and **ERA** Technology as the winners of the ASTRA INNOVATION CONTEST. Launched at

IBC in 2006, this contest is aimed at stimulating research organisations and the satellite industry to develop innovative concepts to further increase the consumer attractiveness and features of direct-to-home (**DTH**) satellite reception.

Comsys は香港で非技術者向けの衛星通信の基礎の研修講座を開催

Comsys Offers Brain Fuel In Hong Kong

Comsys is presenting Satellite Communications Fundamentals for Non-Technical Professionals. This is an intensive, two-day

training seminar occurring on October 29th and 30th at the Grand Hyatt Hotel in Hong Kong.

ISRO と Kazakhstan は宇宙分野で協議

ISRO & Kazakhstan Buddy Builders

Five members of the National Cosmic Agency of the Republic of Kazakhstan (**NCARK**), led by their Chairman of the space agency Talghat Mussabayev, traveled to India to chat with the folk at the

Indian **Space Research Organization** and their chairman, G. Madhavan Nair and other execs. Kazakhstan is the home of the Baikonur satellite launch facility.

NASA は木星への Juno 宇宙探査機の打上げでロッキードマーチンと契約

Contractor Jells Juno To Jupiter Jump

NASA s Launch Services Program Office has selected Lockheed Martin Commercial Launch Services for the Juno mission to

Jupiter. This is a \$190 million contract award.

2 日間の衛星通信セミナー

Serious Satcom Seminar

TTC and ATSI will be presenting a new, two-day seminar entitled, "SATCOM Networks - Broadband, Mobility and Innovation for Government Services" with leader Bruce Elbert, President, ASTI, and guest expert Andrew C. Oak, Chief Engineer, Communications and Network Systems Engineering Group, The Johns Hopkins Applied Physics Laboratory.

Lockheed Martin Press Releases <http://www.lockheedmartin.com/news/>

October 10, 2007 ロッキードマーチンは Arrowhead MTADS/PNVS の初号機をオランダの AH-64D に搭載する

Lockheed Martin Installs First Arrowhead MTADS/PNVS Systems on Netherlands' AH-64D Apaches

http://www.lockheedmartin.com/news/press_releases/2007/101007_LockheedMartinInstallsFirstArrowheadMTADS_PNVS.html

October 08, 2007 ロッキードマーチンはワンショットシステムを SNIPER 用に関発中

LOCKHEED MARTIN DEVELOPING ONE SHOT SYSTEM FOR SNIPERS

http://www.lockheedmartin.com/news/press_releases/2007/100807_DarpaContract.html

October 02, 2007 ロッキードマーチンは BAHRAIN に AN/TPS-59 弾道ミサイル防衛レーダを納入

LOCKHEED MARTIN DELIVERS AN/TPS-59 BALLISTIC MISSILE DEFENSE RADAR TO BAHRAIN

http://www.lockheedmartin.com/news/press_releases/2007/100207ANTPS-59bmbahrain.html

Boeing News Releases <http://www.boeing.com/news/releases/index.html>

Oct. 11, 2007 ボーイングの先進軍事衛星は軌道上チェックアウトを開始

Boeing Advanced Military Satellite Begins On-Orbit Checkout

the first Wideband Global SATCOM (WGS) satellite

http://www.boeing.com/news/releases/2007/q4/071011a_nr.html



Oct. 9, 2007 ボーイングは性能飛躍的向上型 F-15C に関して\$70M の契約

Boeing Awarded \$70 Million Contract for Enhanced F-15C Radar

F-15C Eagles w/APG-63(V)3 AESA radar, a fighter-to-fighter D/L, GPS nav & the Joint Helmet Mounted Cueing Sys, enabling network centric operations

http://www.boeing.com/news/releases/2007/q4/071009c_nr.html

Oct. 2, 2007 ボーイングは Ares I の上段開発のキックオフでルイジアナの担当者と会う

Boeing Meets with Louisiana Officials to Kick-Off Ares I Upper Stage Production

http://www.boeing.com/news/releases/2007/q4/071002a_nr.html

France in Space <http://www.france-science.org/home/page.asp?target=nfo-let&PUBLID=9&LNG=us>

JDW, Jane's Defence Weekly <http://jdw.janes.com/public/jdw/index.shtml>

04-Oct-2007 ユニバーサル・シフト:ネットワーク・セントリック・ウォー 第二部: 衛星技術

Cover Story **Universal shift: Network-centric warfare part II: Satellite technology**

DARPA is moving to develop a new space architecture - one based on flexibility and responsiveness - in an attempt to tailor US space-based assets to the needs of the future. Tony Skinner reports



08-Oct-2007 オービタル・レスポンス: ワシントンはスペース・アーキテクチャを再調整に動く

Orbital response: Washington moves to realign space architecture

DARPA is developing a new space architecture based on flexibility and responsiveness. Tony Skinner reports

04-Oct-2007 Bahrain は AN/TPS-59(V)3 の運用配備を開始

Bahrain begins operational deployment of AN/TPS-59(V)3

Bahrain has begun operational deployment of a Lockheed Martin AN/TPS-59(V)3 ballistic missile defence radar acquired through the United States Marine Corps (USMC) under the US...

04-Oct-2007 AIA の会長は米上院が米英間の輸出協定を支持するよう要求

AIA chief calls on US Senate to back trade treaty

The President of the United States Aerospace Industries Association (AIA) has called upon the US Senate to approve the US/UK Defence Trade Co-operation Treaty, "to...

[平山ニュース 2007 年 月 日] <http://www.wikihouse.com/space/> バックナンバ <http://backno.mini.mag2.com/M0000575>

[NEWS]

10/10 1322GMT 打上成功:Soyuz TMA-11(ISS 15S,Expedition 16),Soyuz,Baikonur

10/10 超高速インターネット衛星 WINDS の愛称は「きずな」(JAXA,時,読)

10/9 かぐや リレー衛星分離成功 月面を撮影(JAXA,時,毎,読,朝,経)

10/5 2202GMT 打上成功:(通信衛星 Intelsat11,通信衛星 OptusD2),Ariane5GS,Kourou

10/5 かぐや 月周回軌道投入 成功発表(JAXA)

[予定]

10/11 0022-0133GMT 打上:軍事通信衛星 WGS F1,Atlas5,Cape Canaveral

10/10 1321GMT 打上:Soyuz TMA-11(ISS 15S,Expedition 16),Soyuz,Baikonur

[EVENT]

JAXA「宇宙の日」記念 宇宙教室

・10/15 徳島市立北井上中学校 /// ・10/12 鹿児島市立桜島中学校

JAXA コズミックカレッジ

・室蘭市青少年科学館 /// 10/14 ファンダメンタルコース,小3-小6 /// 10/13 キッズコース,小2以下と保護者

・10/15 申込締切:国立天文台 VERA 水沢観測所

10/21 キッズコース,小2以下と保護者 /// 10/21 ファンダメンタルコース,小3-中3

11/10 第19回 JAXA タウンミーティング in いわき,いわき産業創造館, /// 11/2 申込締切,高校生以上,抽選 200 名

[学会]

10/15-16 第3回先端宇宙情報技術ワークショップ,秋葉原ダイビル

10/15 参加申込締切:第20回マイクロ・エレクトロニクス・ワークショップ, /// 10/29-30,つくば国際会議場

10/10-12 2007 JSASS-KSAS Joint International Symposium on Aerospace Engineering,北九州国際会議場

10/10 申込締切:IEICE 衛星通信研究会,12/13-14,大分・湯布郷館

[TV] ディスカバリ・チャンネル他

10/14 0610-0715 WOWOW 映画「グレートテスト・アドベンチャー 未知なる月への挑戦」

10/13 2130-2330 NHK-BS2 お宝 TV デラックス 宇宙へのロマン

10/12 1000-1100 ディスカバリ・チャンネル ロケットニア

10/11 2300-2330 WOWOW MOONLIGHT MILE

10/10 1800-1900,10/12 1000-1100 ディスカバリ・チャンネル ロケットニア

10/9 1400-1525 NHK-HV (再)宇宙船ウエイク・アップ・コール

[中国宇宙開発] http://dailynews.yahoo.co.jp/fc/world/china_space_exploration/

- 衛星利用のリモートセンシング、産業への応用に注力(サーチナ・中国情報局) (12日 10時 34分)



- 【今日は何の日】2005年:「神舟6号」打上げ(サーチナ・中国情報局) (12日 8時 54分)



- 初の月探査衛星、発射基地入り = 国家宇宙局長が言明 - 中国(時事通信) (12日 7時 2分)

- 「宇宙でも断食したい」露宇宙船搭乗のマレーシア人(産経新聞) (10日 23時 34分)

- 森林火災多発期が到来、衛星・航空機を利用した防災体制強化へ 中国(Record China) (9日 13時 28分)



- 【今日は何の日】1936年:長征が完了する(サーチナ・中国情報局) (9日 8時 42分)

- 気象人工操作システム、社会・経済発展への効果期待 中国(Record China) (9日 1時 56分)

[宇宙開発] http://dailynews.yahoo.co.jp/fc/science/space_exploration/

- 向井千秋さん 「世界に貢献できる研究を」宇宙医学研究室長(毎日新聞) (12日 9時 58分)



- 向井さん、宇宙医学研究室長に(時事通信) (11日 19時 1分)



- 向井さん、宇宙医学研究室長に=3回目飛行にも意欲(時事通信) (11日 19時 1分)
- 宇宙ステーション 実験棟「きぼう」主要構成部分を公開(毎日新聞) (11日 17時 6分)



- イスラム教徒のマレーシア人飛行士(時事通信) (11日 11時 16分)



- ISS初の女性指揮官、宇宙へ(時事通信) (11日 11時 16分)



- <宇宙ステーション> 実験棟「きぼう」主要構成部分を公開 (毎日新聞) (11日 10時 58分)
- 無重力でも礼拝のススメ イスラム教徒飛行士、宇宙へ出発(産経新聞) (11日 8時 0分)

[ミサイル防衛] http://dailynews.yahoo.co.jp/fc/world/missile_defense_system/?1181274734

- <ロシア> 迎撃ミサイル実験成功 米露協議前に軍事力誇示か(毎日新聞) (11日 20時 55分)
- 台湾「双十節」で16年ぶり復活 中国牽制、軍事パレード(産経新聞) (11日 8時 2分)
- 仏露、溝埋まらず 首脳会談 イラン、コソボ問題協議(産経新聞) (11日 8時 2分)
- 台湾が16年ぶり軍事パレード、防衛力誇示し中国をけん制(読売新聞) (10日 20時 20分)
- MD めぐる米口協議始まる = 12日から外相・国防相会合も(時事通信) (10日 19時 0分)
- 12日に日韓安保対話 = 北朝鮮の核問題など協議(時事通信) (9日 19時 1分)
- 旧ソ連7カ国で「平和維持部隊」創設へ 欧米に対抗(産経新聞) (7日 21時 24分)

[米軍動向] http://dailynews.yahoo.co.jp/fc/world/us_armed_forces/

- 米軍事会社の銃撃事件、イラクの遺族ら提訴(読売新聞) (12日 12時 34分)
- イラク米軍攻撃で巻き添え、子供ら15人死亡(読売新聞) (12日 11時 28分)
- 給油艦ベコスと空母キティホーク(時事通信) (12日 11時 24分)



- PAC2部隊が移動 訓練60台、自動車道も使用(琉球新報) (12日 9時 41分)
- ビー隊長ピクリ!? ブートキャンプで死者(スポーツ報知) (12日 8時 2分)
- <衆院予算委> 「米駆逐艦、イラクで燃料使用」民主が追及(毎日新聞) (11日 23時 21分)
- 中隊長クラスにボーナス3万ドル、米軍引き留め策(読売新聞) (11日 18時 42分)
- 過激な「ブートキャンプ」で事故多発 米会計監査院報告(産経新聞) (11日 14時 53分)
- オスマン・トルコの虐殺、米下院が非難決議(読売新聞) (11日 11時 26分)
- 衆院予算委 米空母「給油後ペルシャ湾に」石破防衛相(毎日新聞) (11日 10時 21分)



- 衆院予算委 給油の新法「海上阻止行動に限定」高村外相(毎日新聞) (11日10時21分)
- 普天間代替アセス 名護市長、知事と歩調合わせる(琉球新報) (11日9時51分)
- イラク配備オスプレイ、2度不時着(琉球新報) (11日9時51分)
- 米軍、業者を選定 ハンセン内射撃場建設(琉球新報) (11日9時49分)
- <米国防総省>イラク戦争転用否定の声明(毎日新聞) (11日2時21分)
- 燃料転用を否定 = 米国防総省が声明(時事通信) (11日0時1分)
- <衆院予算委>米空母「給油後ペルシャ湾に」石破防衛相(毎日新聞) (10日23時28分)
- <衆院予算委>給油の新法「海上阻止行動に限定」高村外相(毎日新聞) (10日23時16分)
- 巨大なバグダッド大使館 いまだ完成せず米議会が批判(産経新聞) (10日19時44分)
- イラク銃撃で9億円賠償要求(産経新聞) (10日16時41分)
- 海自給油、米艦船「3日で消費」...防衛相が転用疑惑を否定(読売新聞) (10日13時57分)
- <トルコ>イラク北部へ越境攻撃辞さず クルド系テロ激化で(毎日新聞) (10日13時38分)
- 海自給油量、福田首相が官房長官当時の発言を撤回(読売新聞) (10日13時24分)
- 給油、速やかに情報開示と福田首相 = 防衛相、イラク作戦転用を否定 - 衆院予算委(時事通信) (10日13時2分)
- <自衛隊給油活動>防衛相がイラク作戦転用否定 衆院予算委(毎日新聞) (10日12時23分)
- ワイプロ、IMT - 2000 標準に採択の見通し(YONHAP NEWS) (10日11時27分)
- 民主・菅氏、イラク作戦転用疑惑を追及(時事通信) (10日11時6分)
- <イラク>政府が米軍事会社に巨額賠償請求 社員銃撃事件で(毎日新聞) (10日10時50分)
- 普天間移設問題 沖縄知事、防衛相会談は平行線(毎日新聞) (10日9時56分)
- 普天間アセスで知事、意見提出を明言(琉球新報) (10日9時51分)
- 韓米が次官級戦略対話、11月にワシントンで開催(YONHAP NEWS) (10日9時24分)
- 海自の米補給艦給油量入力ミス、防衛省が担当者処分へ(読売新聞) (10日9時16分)
- 4500トン級の次期上陸艦の性能が明らかに(YONHAP NEWS) (10日9時13分)
- イラク北部で車2台が爆発、22人死亡(読売新聞) (10日2時22分)
- 普天間移設で沖縄知事と会談 = 町村官房長官(時事通信) (9日23時1分)
- 核持込み日米密約否定 = 福田首相(時事通信) (9日21時2分)
- 補給艦への給油、88%が米軍に = 01、02年度に集中 - 防衛省公表(時事通信) (9日21時2分)
- <普天間移設問題>沖縄知事、防衛相会談は平行線(毎日新聞) (9日20時38分)
- アルカーイダ新根拠地で交戦、250人死亡 北ワジリスタン(産経新聞) (9日20時28分)
- <共同訓練>海自と米海軍、豪空軍が17日に九州西方沖で(毎日新聞) (9日19時40分)
- 12日に日韓安保対話 = 北朝鮮の核問題など協議(時事通信) (9日19時1分)
- グアタンアモ米基地 拷問懸念などで80人移送できず(毎日新聞) (9日17時1分)
- <グアタンアモ米基地>拷問懸念などで80人移送できず (毎日新聞) (9日15時3分)

- 早期訪沖の意向 = 石破防衛相(時事通信) (9日15時1分)
- 石破茂防衛相と沖縄県知事が会談(時事通信) (9日13時18分)
- 海自給油、違憲に当たらずと福田首相 = 防衛相、給油量訂正で処分も - 衆院予算委(時事通信) (9日13時2分)
- 英国のイラク駐留部隊、来春以降2500人に半減 首相表明(産経新聞) (9日8時1分)
- テロ新法、前哨戦 きょうから衆院予算委 民主、イラク転用追及(産経新聞) (9日8時1分)
- 米軍事会社による民間人殺傷、イラク政府は「意図的殺人」(読売新聞) (8日20時1分)
- 燃料転用否定を日本に回答 = 海自給油で米国防当局者(時事通信) (8日17時0分)
- 米「アフリカ軍」新設、中国の資源外交などに対抗(読売新聞) (8日15時17分)
- 南北首脳会談で延期の軍機動訓練、8日から実施(YONHAP NEWS) (8日14時58分)
- 沖縄返還・核密約 米当事者のメモ発見(琉球新報) (8日9時59分)
- 来年は米軍10万人削減も = イラク大統領(時事通信) (8日1時3分)
- < 沖縄核持込み > 返還交渉での「密約」示す米公文書判明(毎日新聞) (7日20時50分)
- < 海自給油 > 目的外のイラク作戦への転用を否定...高村外相ら(毎日新聞) (7日20時0分)
- 「イラク転用」疑惑、重ねて否定 = 海自給油、近く資料で説明 - 石破防衛相(時事通信) (7日19時1分)
- クラスタ爆弾 米陸軍が新型開発し、年内にも実戦配備(毎日新聞) (7日17時2分)



新型クラスタ爆弾と同型のモデル (左) 右) 内蔵自爆装置用電池

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[核兵器] http://dailynews.yahoo.co.jp/fc/world/nuclear_weapons/

.....

- 韓国 EU の FTA 早期妥結に努力、オランダと合意(YONHAP NEWS) (12日14時33分)
- 「核兵器持つ意思ない」金総書記が首脳会談で発言(YONHAP NEWS) (12日9時5分)
- 北に人道支援検討 拉致再調査を条件(産経新聞) (12日8時2分)
- 対北核交渉 米政権内で意見対立 シリアと協力疑惑 6カ国協議に影響も(産経新聞) (12日8時2分)
- 金総書記「核保有意思ない」南北首脳会談で発言(読売新聞) (12日0時18分)
- 金総書記「核兵器保有意思なし」 = 米国の対話姿勢を評価 - 南北会談(時事通信) (11日21時7分)
- 核無能力化準備で米専門家が訪朝 = 1週間滞在、寧辺の全施設訪問へ(時事通信) (11日16時5分)
- 朝鮮総連 対北制裁延長の撤回要請書を提出(産経新聞) (11日13時53分)
- ライス米國務長官、FTA 批准強力推進の意思示す(YONHAP NEWS) (11日9時20分)
- アルカーイダの脅威警告 米国家安全戦略、初の改訂版(産経新聞) (11日8時2分)
- 韓国政府、「開放・改革」タブー 対北配慮、批判も(産経新聞) (11日8時2分)
- 仏露、溝埋まらず 首脳会談 イラン、コソボ問題協議(産経新聞) (11日8時2分)
- 「開放・改革」韓国政府が自主規制 北に配慮、批判も(産経新聞) (10日21時26分)
- 「アル・カーイダ、米本土への攻撃を画策」米が報告書(読売新聞) (10日13時9分)
- 権副首相「南北経済協力、財源に大きな負担ない」(YONHAP NEWS) (10日11時28分)
- トンプソン氏、タカ派色前面に = 共和党討論会にデビュー - 米大統領選(時事通信) (10日11時0分)
- 「アルカーイダ米本土で作戦狙う」米政府警戒(産経新聞) (10日9時13分)

- 核実験は「偉大なる奇跡」 北朝鮮党機関誌(産経新聞) (10日8時2分)
- 対北制裁を半年間延長 政府(産経新聞) (10日8時2分)
- 大量破壊兵器の入手もくろむ = アルカイダの再生警戒 - 米戦略文書(時事通信) (10日7時0分)
- <北朝鮮>「核実験は偉大な奇跡」党機関紙(毎日新聞) (9日21時53分)
- 核持込み日米密約否定 = 福田首相(時事通信) (9日21時2分)
- <核持込み>官房長官が改めて「密約」否定(毎日新聞) (9日20時16分)
- 北朝鮮核実験 強行から1年...日本への影響大きく(毎日新聞) (9日17時1分)
- 対北制裁を半年延長 閣議決定(産経新聞) (9日16時13分)
- 北朝鮮制裁の半年間延長を決定、「拉致進展なし」判断で(読売新聞) (9日11時28分)
- <北朝鮮制裁>全品目輸入禁止など半年間延長 政府決定(毎日新聞) (9日11時4分)
- 対北制裁、半年延長を決定 = 官房長官「具体的行動」促す - 政府(時事通信) (9日11時0分)
- 北朝鮮核実験1年 「瀬戸際政策」収支は黒字(産経新聞) (8日21時40分)
- 「終戦宣言の年内実現は無理」パーシュボウ米大使(YONHAP NEWS) (8日19時38分)
- 政府、「包囲網」緩みを憂慮 = 北朝鮮核実験1年(時事通信) (8日15時1分)
- 盧大統領が施政演説「核問題の早期完全解決を確信」(YONHAP NEWS) (8日14時56分)
- 沖縄「核密約」、広島県原水協などが首相に実体解明を要請(読売新聞) (7日22時23分)
- <沖縄核持込み>返還交渉での「密約」示す米公文書判明(毎日新聞) (7日20時50分)

[\[ASAGUMO NEWS\]](http://www.asagumo-news.com/) 朝雲新聞社 <http://www.asagumo-news.com/>

10/9 「ニュース」更新

石破大臣に聞く<上> /// インド洋補給支援「活動中断は最短に」 /// 速やかな新法成立を 反対意見、虚心坦懐に聞く
 国産P-X初飛行 /// 岐阜上空を1時間 /// 「きわめて安定」と機長 型式名称は「X-P1」に
 洋上補給「日本は活動継続を」 /// 11カ国大使、異例の声明
 インド洋補給活動 新法案を提出へ
 民主党 防衛相に申し入れ /// 洋上補給の情報開示を
 初の対テロ装備展 /// 17日から東京で 警備機器など勢揃い
 空自、初の「メディア訓練」 /// 「戦闘機墜落、乗員死亡」想定の見聞 /// 2基地司令が受講 /// 実践並み質疑応答「情報発信、難しさ実感」

[民間航空機関連 (ex-SJAC 三輪さん)]

 2007年10月12日 0:42 AIA dailyLead October 11, 2007

ボーイング 787 出荷が6ヶ月遅れると訂正発表

Boeing, in Embarrassing Setback, Says 787 Dreamliner Will Be Delayed

Wall Street Journal, Oct. 11 - Boeing Co. reversed itself after weeks of promising its new widebody jet would be delivered on time, saying the ambitious project now faces a delay of at least six months. The setback for the 787 Dreamliner marks a blow for Boeing's plan to revamp how it builds airplanes by having suppliers take on a greater role in design and manufacturing. Executives were forced to apologize for breaking their commitments to customers. They said the first airplane would be delivered in late November or early December of next year instead of May. Boeing shares fell 2.7%. The delay, which Boeing attributed to shortages of key materials and slow deliveries by suppliers, damages the company's prestige and could hurt the bottom line if airlines can't receive their big orders on

time and demand penalty payments

<本稿出典:Source: Gary L. Stanley President Global Legal Services, PC 5335 Wisconsin Avenue, N.W. Suite 440 Washington, D.C. 20015 Tel. +1 (202) 686-4854 Fax +1 (202) 686-2624 Mobile +1 (202) 352-3059 E-mail gstanley@glstrade.com >

787 引渡し開始 6ヶ月遅れる

Dreamliner delayed for six months

Citing delivery delays that held up production and unforeseen problems with flight control software, Boeing announced Wednesday that its 787 Dreamliner jets would be delivered six months later than anticipated. "We are very disappointed over the schedule changes that we are announcing today," said Boeing CEO W. James McNerney Jr. ClipSyndicate (10/11) , The New York Times (10/11) , The Street.com (10/10) , Air Transport World (10/11) , USA TODAY (10/11) , Reuters (10/11)

ボーイング 787 引渡し遅れ、北京オリンピックに向けて準備していた ANA を直撃

Airlines' big plans interrupted by Dreamliner delay:

Production delays that have forced Boeing to put off delivery of its much-anticipated Dreamliner jet will have an impact on airlines that were counting on on-time delivery. In particular, Nippon Airways had planned to take advantage of the Olympic Games in Beijing to showcase its status as the first airline to fly the new jet. The Times (London) (10/10) , Reuters (10/11)

ゲイツ長官 陸軍の装備近代化の遅れ解消のための予算付け

Gates appears ready to allocate billions more to Army

Secretary of Defense Robert M. Gates said the Army needed more money, in part to make up for chronic underfunding that has left the service struggling to catch up on needed equipment upgrades. Gates also cautioned that the Army needs to focus on defending against unconventional warfare techniques -- such as roadside bombs. Los Angeles Times (free registration) (10/11)

一部情報が民間企業に流れたことで、FAA の業者監督能力を 議会では疑問視

Lawmakers concerned about FAA's oversight ability

Legislators are questioning the FAA's ability to supervise contractors as the nation moves to a satellite-based air traffic control system. Problems that surfaced after Lockheed Martin took over some FAA facilities responsible for giving noncommercial pilots weather and other information were cited as a source of concern. FAA officials say the agency has learned from its mistakes. Forbes/Associated Press (10/10)

ノースウエスト エンブレア機 27機 購入資金として4億54百万ドル資金調達

Northwest arranges \$454M in financing to buy 27 Embraer planes

Northwest Airlines has secured \$454 million in public financing for 27 new Embraer 175LR-model aircraft. The planes will be flown by the carrier's subsidiary, Compass Airlines. Forbes/Associated Press (10/10)

サウスウエスト航空 CEO は消費動向に警戒

Southwest's Kelly cautious about consumer demand

Southwest Airlines CEO Gary Kelly says he's not planning to cut back on the airline's expansion plans, even though he is concerned about a slowing economy and softening demand for air travel. "We're a little cautious about the economy and some of the weakness that we saw early in the year," he said. Houston Chronicle/Associated Press (10/10)

S ウイング・パネル取替えて シャトル・ディスカヴァリー 打上げ遅れ

S Replacement of wing panels could delay Discovery launch

NASA officials are deciding whether three of 44 composite carbon panels on the left wing of Discovery should be replaced. The panels have hairline cracks that have developed over time. Engineers say the defects are too small to pose a danger to the shuttle or its crew, but an independent group has recommended replacing the panels rather than taking the risk. Florida Today (Melbourne) (10/11)

RFID タグ装着で、航空手荷物の紛失が将来解消する可能性

RFID tags could eliminate lost luggage

RFID, which stands for radio frequency identification, may one day eliminate the loss of luggage through mishandling. The idea is that a radio transponder embedded in luggage tags will communicate with airport personnel via antennas placed in baggage areas. When a bag fails to show up where and when it is expected, airport agents can ask the RFID tag where it and the lost bag have gone. Los Angeles Times (free registration) (10/10)

2007 年 10 月 11 日 0:40 AIA dailyLead October 10, 2007

中国のエアラインの安全性:最悪を脱して最も安全なグループ入り

China's air safety record: From worst to best

China's airlines were perhaps the world's most dangerous through the 1990s, bedeviled by pilot errors, poor regulation and spotty maintenance. The country's aviation industry has made a remarkable turnaround and is today one of the world's safest. The Wall Street Journal (10/10)

ボーイング F-15C 空軍から受注

Air Force awards \$70 million contract to Boeing

Boeing was awarded a \$70 million contract to upgrade Air Force and Air National Guard F-15C Eagles with Active Electronically Scanned Array radar upgrades, beginning in 2009. The AESA radar will improve pilots' "situational awareness, targeting range and accuracy," said a company spokesman. Lower aircraft maintenance costs are also expected because of the system's increased reliability. American City Business Journals (10/9)

エアバス 新組織改革は国籍を超えて真に国際共同企業

Airbus touts new transnational structure

Airbus executives announced the implementation of a new organizational structure that downplays nationality in favor of "one single transnational leader per function...relying on all talents, wherever they are located." Officials say the new structure has been fully implemented in the A350 XWB program. Air Transport World (10/10)

ユナイテッド航空 今後 5 年の業務改善計画に 40 億ドル出資を予定

United will spend \$4 billion on improvements over five years

United Airlines CEO Glenn Tilton said the carrier will spend nearly \$4 billion on improvements in the next five years. In a message to employees, Tilton said the company has drawn up 250 initiatives for the next five years, but he gave no specifics other than to say the spending would benefit customers and employees while increasing efficiency and profits. USA TODAY/Associated Press (10/9)

エアライン 関連事業に新たな展開の可能性

Column: Spinoffs could reshape industry

Talk of spinning off profitable side businesses to maximize share value has recently become more common in the airline industry. Maintenance and frequent-flier programs are often mentioned as potential sources of revenue to be unlocked. The Street.com (10/9)

インド向けボーイング機輸出に米輸銀が12億ドル融資

Export-Import Bank finances \$1.2 billion for Boeing sales to India BusinessWeek (10/9)

ボーイングもエアバスも助成金論争打止めすべき

Opinion: Boeing, Airbus should stop arguing over subsidies The Seattle Times (10/10)

三菱重工業 20-30年間で1000機の売上げを期待

Mitsubishi Heavy looks to sell 1,000 regional jets over 20-30 years The Globe and Mail (Toronto) (10/9)

2007年10月10日 1:01 AIA dailyLead October 9, 2007

テクストロン社 ユナイテッド・インダストリアル社 11億ドルで買収

Textron to buy United Industrial for \$1.1 billion

Textron's deal to purchase United Industrial for \$1.1 billion, announced Monday, will give the contractor a platform from which to expand further into the aerospace and defense industries. United Industrial makes defense systems, including unmanned aircraft. "The role of unmanned systems is expected to continue to expand, providing us with significant growth opportunities," Textron CFO Ted French said. "And we believe we can convert this growth into expanding shareholder value." ClipSyndicate (10/9), The Wall Street Journal (10/9), Yahoo!/Associated Press (10/8)

小型昆虫ロボットを見たという情報は未確認

Civilian sightings of robobugs unconfirmed

Crowd members at political events in Washington and New York have reported seeing what they say they think are tiny robots designed to look like bugs. "I heard someone say, 'Oh my God, look at those,'" said a student from New York. "I look up and I'm like, 'What the hell is that?' They looked kind of like dragonflies or little helicopters." The Pentagon denies having such technology: "If you find something, let me know," said Gary Anderson of the Defense Department's Rapid Reaction Technology Office. The Washington Post (10/9)

サルコジ大統領:EADS/エアバスのインサイダー取引真相究明

Sarkozy: Officials looking into insider trading charges at EADS

French President Nicolas Sarkozy said officials are investigating allegations of insider trading by EADS and Airbus employees. Senior officials in France's Finance Ministry have also been implicated. "If there are people who committed fraud at EADS, judicial officials must get to the bottom of it so that we know the truth and those who behaved dishonestly be punished in proportion to what they did," Sarkozy said. Air Transport World (10/9)

自律飛行システム モデル機を使って イリノイ大学で研究

Researchers use model planes to test aviation system upgrades

Researchers at the University of Illinois are outfitting model planes with sensors in an attempt to demonstrate that pilots can fly safely and efficiently with less intervention from air traffic controllers. "We want to be able to show that these aircraft can fly their own routes,

not have any conflict, not have any potential mid-air crashes and essentially manage their own airspace," says assistant professor Natasha Neogi. WCIA News 3 (Ill.) (10/8)

手荷物ハンドリングをロボットで IBM 社らがスキポール空港で実験

Robots to be used in baggage-handling service

IBM and Vanderlande Industries have entered into a deal with Amsterdam Airport Schiphol that will increase the facility's baggage handling capacity. Six robots, RFID tags and robot management software will move and track luggage through the airport. InformationWeek (10/8)

米国 中国航空便 さらに増える

U.S., China plan more routes

Airlines flying between China and the U.S. will soon have the option to fly more routes and to fly them more frequently. Regulators tentatively approved carriers to launch 16 additional routes through 2009. "There's been a whole bunch of new routes awarded, but most of them won't start until 2009," said American Express Advisory Services senior practice leader for air Mitch Cwanger. "Supply is increasing slowly, and I don't think there is enough capacity in the marketplace to satisfy demand." BTNonline.com (10/8)

三菱重工 PW エンジン採用

Mitsubishi Heavy Picks Pratt & Whitney For Jet Engine

TOKYO (Dow Jones)--Mitsubishi Heavy Industries Ltd. (7011.TO) said Tuesday it has decided to use engines made by Pratt & Whitney in what would be Japan's first domestically manufactured passenger aircraft in about four decades.

The next generation Geared Turbofan engine is a crucial part for the Mitsubishi Regional Jet, or MRJ, project, which the Tokyo-based heavy machinery maker is seeking to commercialize. The selection of the new engine has prompted Mitsubishi Heavy to start marketing to potential customers - a necessary step ahead of its decision to give a green light to the project.

2007 年 10 月 9 日 1:04 AIA dailyLead October 8, 2007

ボーイング 787 出荷スケジュール 2008 年 5 月をキープする予定

Boeing: Dreamliner to be delivered on time

Aircraft manufacturer Boeing plans to deliver its 787 Dreamliner jet on time, despite a three-month production delay caused by a shortage of bolts and problems programming the flight control software. "It is still our objective to meet that May 2008 delivery, but in doing that we have had to compress our flight-test schedule," said a Boeing Commercial Airplanes' marketing VP. "It is an aggressive schedule, but we believe we can do it." Reuters (10/8) , Bloomberg (10/5)

ボーイング民間機部門 CEO 景気後退の影響を懸念

Boeing exec concerned about impact of economy on commercial travel

Scott Carson, Boeing's commercial airplanes president and CEO, says he worries the current credit crunch could slow down the economy, leading to slimmer profit margins for airlines. Carson says Boeing has done its best to insulate itself from a downturn, noting that its \$250 billion backlog includes orders for all of its jet models, from all major areas of the globe, and to customers including legacy carriers, budget airlines and couriers. American City Business Journals/Dallas (10/5)

アメリカン航空 ユックリだが確実に復調

American's recovery slow, steady

American Airlines CEO Gerard Arpey has guided the carrier into a slow but sure recovery that generally does not offer share-price increasing quick fixes, says the Wall Street Journal. The Wall Street Journal (10/8)

欧州連合(EU)エアライン排ガス規制の強化を実施する

EU determined to cut airline emissions

Despite suffering a recent setback when the ICAO ruled that it cannot force foreign airlines to adhere to EU emissions trading rules, members of the European Union say they will continue to work toward that goal. James May, president and CEO of ATA, decried the group for "their intent to unilaterally impose such measures on the airlines from other countries, contrary to the will of every other country in the world and contrary to international law." May said if "they persist, there will no doubt be a legal battle." Travel Weekly (10/8)

ICAO 加盟国 排ガス問題で総論賛成も各論で意見分かれる

Members of ICAO agree emissions a problem:

The 179 ICAO member countries agreed that the industry must address aviation's effects on the environment, but there was disagreement over just how to go about it, according to Jeffrey Shane, U.S. undersecretary of transportation for policy. Aviation Daily (10/8)

S ISS 国際宇宙基地の将来運営主体は医薬品業界になるかもしれない

S Future of pharmaceuticals could be in space

The future of the International Space Station may be in the hands of private investors after 2015, when NASA plans to cut its funding to the orbiting facility. One industry that could benefit from having more time to perform experiments in space is pharmaceuticals. Wired (10/8)

2007 年 10 月 6 日 0:39 AIA dailyLead October 5, 2007

ゲイツ長官 イラク向け武器輸出の手続き迅速化が必要であると訴える

Gates says delivery of U.S. arms to Iraq too slow

An announcement that the Iraqi government has placed a \$100 million arms order with China has Defense Secretary Robert Gates calling for faster processing of arms sales to U.S. allies. "This is an issue that we have to look into and see what we can do in the United States to be more responsive and be able to react more quickly to the requests of our friends," Gates said. "Unfortunately, the [foreign military sales] program was set up in a way that was not intended to provide sort of emergency or short-term supplies, as in the case of Iraq, and we're trying to figure out how to do that better." The Boston Globe/Associated Press (10/5)

US エア航空 エアバス A320 を92機発注

US Airways to buy 92 Airbus jets

US Airways has firmed up an order from Airbus for 92 aircraft, including 32 wide-body and 60 A320 narrow-body planes. The new wide-body jets will allow US Airways to expand its international operations if it decides to do so. The carrier's domestic fleet will remain stable, as older Boeing planes are to be retired as new Airbus jets are delivered. ModernAgent.com (10/5)

欧州航空管制統合に向けた新方式は、ビジネス優先順にあわせる

Europe considers "business trajectory" approach for air traffic

The newly released Single European Sky ATM Research concept of operations document proposes a fundamental shift in how air traffic

is managed in Europe. A new "business trajectory" concept will allow aircraft operators options that more closely align with their business goals, such as whether to prioritize on-time performance over keeping costs as low as possible. Aviation Daily (10/4)

8月のエアライン発着遅れ 30%に及ぶ

Nearly 30% of flights delayed in August

According to the Bureau of Transportation Statistics, the 20 largest U.S. airlines had an on-time arrival rate of 71.7% in August, down from 75.8% a year ago. The FAA and industry officials say that increased passenger volume and bad weather, combined with an outdated air traffic control system, are behind the delays. The Seattle Times/Associated Press (10/5)

S 商用宇宙衛星分野における中国とフランスの接近を米議会では警戒視

S Ascendancy of Chinese rocketry worries U.S. lawmakers

China's partnership with French commercial satellite manufacturer Thales SA has U.S. lawmakers concerned and calling for action. Thales also has contracts with the U.S., and critics say American technology could wind up in the hands of China and Third World customers. Thales says it has safeguards in place to prevent that and "continues to be fully transparent with U.S. government officials" regarding the company's commercial space business. The Wall Street Journal (10/5)

2007年10月5日 0:37 AIA dailyLead October 4, 2007

テキサス北部地区 防衛産業の予算で潤う。

North Texas programs get boost from military spending bill

A \$459 billion wartime spending bill will fund several military aircraft projects in North Texas. The legislation will fully fund Lockheed Martin's F-35 Lightning II and F-22 Raptor programs and the Bell Helicopter-Boeing V-22 Osprey. Bell Helicopter's Armed Reconnaissance Helicopter will receive some continued funding. Star-Telegram (Fort Worth, Texas) (10/3) , The New York Times/Associated Press (10/4)

EADS 経営幹部が A380 遅れで自社株を売却したのはインサイダー取引に当たるとの嫌疑

EADS probe moves ahead, preliminary report causes investor concern

An investigation at Airbus parent EADS into possible insider trading suggests that some executives sold their shares after learning about delays to the A380 superjumbo jet program. The report is preliminary and no one has been formally charged with any wrongdoing. The Wall Street Journal (10/5) , The Washington Post/Associated Press (10/3)

デルタ航空 CEO カスタマーサービスと従業員との良好な関係が成功の鍵だと語る

Delta CEO: Customer service, employee relations remain key to success

Delta Air Lines CEO Richard Anderson recently replaced Gerald Grinstein, who navigated the company through bankruptcy protection while cutting costs and maintaining the support of employees. Anderson noted that Delta currently has a good plan in place and that it is his job to make it work. "For an airline to be successful," Anderson said, "you've got to care about your customers and care about your employees." The Wall Street Journal (10/4) , The Wall Street Journal (10/4)

US エア航空 ピッツバーグ路線を縮小

US Airways to scale back Pittsburgh operations

US Airways on Wednesday said it will cut the number of mainline flights out of Pittsburgh from 31 to 22. The airline said it has lost \$40 million in the Pittsburgh market over the last 12 months. "We need to acknowledge the economic realities of today and move forward so

that our Pittsburgh service provides a positive contribution to our system as a whole," CEO Doug Parker said. The Arizona Republic (Phoenix) (10/3) , The Wall Street Journal/Dow Jones Newswires/AP (10/3)

S 月面着陸は、中国が米国の先を越すだろうと NASA 長官

S China may make it to the moon before U.S., Griffin says

Chinese astronauts may land on the moon before the U.S. makes its return visit, NASA Administrator Mike Griffin said. The U.S. hopes to send a manned mission to the moon by 2020, and China hopes to beat that deadline. "I think when that happens, Americans will not like it," Griffin said. "But they will just have to not like it." Florida Today (Melbourne)/Associated Press (10/4)

2007 年 10 月 4 日 1:04 AIA dailyLead October 3, 2007

A380 テストフライトで北米 3 都市寄航(今週)

A380 flies into the U.S.

A test model of the A380, now the world's largest passenger jet, landed Tuesday at Bradley International Airport in Connecticut. It was the first of three stops this week to get the plane ready to enter U.S. service. The 239-foot jet has wings as long as a football field and is powered by four engines. Its passenger cabin seats more than 520 travelers in three classes. ClipSyndicate (10/3) , USA TODAY (10/2)

FAA 2020 までにすべて衛星ベースのアヴィオ装備を義務つける

FAA to require satellite-based avionics by 2020

The FAA yesterday issued a Notice of Proposed Rulemaking that will require airlines to fit all aircraft operating in controlled airspace with ADS-B compatible avionics by 2020. The agency hopes to make the rule final by late 2009. Air Transport World (10/3)

エアライン・データ・プロジェクト エアラインに関するすべてのデータが 1995 年まで遡って提供可能

Airline Data Project offers analysis of airline info back to 1995

The Massachusetts Institute of Technology and the International Center for Air Transportation have created and posted online a comprehensive collection of airline data. The Airline Data Project allows users to compare data on 15 U.S. airlines as far back as 1995, giving researchers a picture of how the industry is changing over time. United Press International (10/2)

米運輸省(DOT)航空遅延に伴う損失コストは 年間 90 億ドル(1 兆円相当)に達すると発表

DOT: Annual cost of airline delays \$9 billion

Transportation Secretary Mary Peters says airline delays generate annual costs of \$9 billion -- twice the entire budget for federal Airport Improvement Program grants. "We need fundamental change, not a system of extensions," Peters says. "We can and must offer new solutions and encourage more leadership to make air travel a reliable and pleasant experience again." Aviation Daily (10/2)

サイテック社 炭素繊維複合材の生産高倍増

Cytec doubling output of carbon composites

Cytec Industries is doubling the capacity at its Carolina chemical plant in order to accommodate Boeing's demand for carbon fiber to produce its 787 Dreamliner. Aerospace applications account for about 20% of Cytec revenue. CNNMoney.com/Dow Jones Newswires (10/2)

2007 年 10 月 3 日 0:38 AIA dailyLead October 2, 2007

ノースロップ・グラマン、米海軍から造船関係の FMS(海外武器輸出)に関する管理手法で受注

Northrop Grumman to provide management, tech support for FMS

Northrop Grumman has been awarded a Navy contract worth more than \$43 million to provide management and technical support for foreign military sales. The contractor will provide foreign military sales case management, project management and technical support for ships and ship systems. Houston Chronicle/Associated Press (10/1)

グッドリッチ エアライン相手の航空機整備事業を売却の予定

Goodrich to sell airframe maintenance and overhaul business

Goodrich has announced it will sell its airframe heavy-maintenance business to Macquarie Bank Ltd. Goodrich Aviation Technical Services provides maintenance, repair and overhaul services for airlines and air cargo companies. Terms of the deal were not disclosed. American City Business Journals/Charlotte (10/2)

ドリームライナー(787)の安全性につき元上級エンジニアから出された疑念を排除 FAA は ボーイングのテスト要求事項の変更なし

FAA stands by Dreamliner testing requirements

The FAA will not change the testing requirements for Boeing's 787 Dreamliner, despite assertions by a senior engineer formerly employed by the contractor that the tests are inadequate. The Seattle Times (10/1)

FAA ICAO の意見を受入れ「滑走路内進入状況」の再定義に動く

"Runway incursion" redefined

The FAA on Monday adopted the International Civil Aviation Organization's definition of a runway incursion as "any unauthorized intrusion onto a runway, regardless of whether or not an aircraft presents a potential conflict." The FAA had defined cases involving a single aircraft, such as a plane crossing an empty runway, as "surface incidents." BusinessWeek/Associated Press (10/1) , Air Transport World (10/2)

アメリカン航空 親会社 保有機の未払残高清算を早め 債務圧縮

American Airlines parent moves to reduce debt

American Airlines parent AMR will prepay \$545 million in aircraft debt in the fourth quarter. The payment will be in addition to the \$1.3 billion in payments already scheduled for this year. The airline's annual interest expense will be reduced by \$25 million, and 16 aircraft used to secure the loan will be released. The Wall Street Journal (10/2) , Forbes/AFX News Limited (10/1) , Reuters (10/2)

2007 年 10 月 2 日 0:33 AIA dailyLead October 1, 2007

アフリカの航空事情 インフラ未整備で命がけ

Crumbling infrastructure makes minefield of African aviation

Airline passengers are dying in Africa for lack of aviation basics largely taken for granted in the Western world: weather reporting systems, well-lit runways clear of obstacles, trained air traffic controllers and industry regulators who do their jobs. The Wall Street Journal (10/1)

原子力空母(横須賀入港予定の G.ワシントン号も含む)の整備作業をノースロップ・グラマンが受注

Northrop Grumman wins two Navy contracts worth nearly \$122 million

Northrop Grumman announced Friday that it was awarded Navy contracts for maintenance and update work on aircraft carriers in San Diego and Yokosuka, Japan. The contractor will manage the maintenance for the USS Nimitz, USS Ronald Reagan and other nuclear

aircraft carriers at North Island in San Diego. The contract is worth \$120 million. The second contract, worth \$1.8 million, is for preparations for the arrival of the USS George Washington in Japan in 2008. American City Business Journals (9/28)

ドイツに存在するエアバス施設を外国に買収させないためにドイツの中小企業が統合して買収を真剣に考えるべきだ

German firms urged to cooperate to buy EADS facilities Forbes/AFX News Limited (9/30)

米国エアラインの事故は10年間で65%減少

U.S. airline accident rate drops 65% over 10 years

Better equipment, careful attention to details and analysis of flights that end safely as well as those that end in tragedy have helped the U.S. airline industry reduce its accident rate by 65% over the last 10 years. There have been no fatal airliner crashes of scheduled flights this year. "This is the golden age of safety, the safest period, in the safest mode, in the history of the world," said then-FAA administrator Marion Blakey last month. The New York Times (9/30)

サウスウエスト航空 国際線への展開を積極化

Southwest forging relationships for move into international market

Southwest Airlines is exploring the lucrative international market, meeting with representatives from other airlines and discussing codeshare agreements. "We think there's a significant opportunity out there," said Southwest's schedule planning director, Brook Sorem. "We're pretty excited about the potential." Travel Weekly (10/1)

オープンスカイを目指して 米国-オーストラリア航空協定 来年締結の見通し

U.S., Australia plan open skies agreement

Australian and U.S. government officials announced plans to "conclude a comprehensive open-skies aviation agreement" early next year. The talks would allow Virgin Blue's long-haul subsidiary, V Australia, to fly 10 weekly U.S.-Australia flights toward the end of next year. The Sydney Morning Herald (10/1)

米国では定年のパイロット、海外の職場を探る

Too old to fly in U.S., pilots seek work abroad

Despite a lot of talk about raising the mandatory age for pilots flying for U.S. airlines from 60 to 65, little action has been taken. Pilots aging out of their jobs are not always ready to retire. "You want to retire on your own terms, not on the basis of some law that's bogus," said Marty Noonan, 61, who retired from Continental Airlines last year and is now pursuing a Canadian license. Chicago Tribune (9/30)

ベトナム航空 ドリームライナー12機発注

Vietnam Airlines to buy 12 Dreamliners Reuters (10/1)

2007年9月29日 0:16 AIA dailyLead September 28, 2007

S 太陽の気象が地球の技術に関して増大する懸念に

S Sun's weather increasingly a concern for Earth technology

Forecasters who monitor weather on the Sun say a new season of intense sunspot activity could begin by March and peak in 2012. The storms will have a huge impact on modern technology. Consequences range from dropped cell phone calls to the loss of an expensive satellite, says University of Colorado physicist Daniel Baker. With more than 860 satellites in orbit, the losses from a major solar storm

could reach \$30 billion, according to NASA researchers. "We are set up for a nasty surprise," said Thomas Bogdan, director of the federal Space Environment Center. "There are going to be impacts on all these services in the next few years." The Wall Street Journal (9/28)

Bush moves to resolve airline delay issues

President George W. Bush met with officials from the FAA and Transportation Department yesterday to hear how they plan to alleviate congestion and delays at the nation's busiest airports. "We've got a problem. We understand there's a problem, and we're going to address the problem," Bush said after meeting Transportation Secretary Mary Peters in the Oval Office. Peters said she will ask airlines to reduce their schedules at congested airports, adding that federal action could be taken if they fail to do so. ClipSyndicate (9/28) , Reuters (9/27) , Bloomberg (9/27) , Associated Press (9/27) , Air Transport World (9/28) , USA TODAY (9/28) , The New York Times (9/28)

ICAO 欧州連合の排ガス規制 につき投票

ICAO holds back support from EU emissions plan

The European Union does not have needed international support for a plan to include airlines from other regions in its emissions-trading system. The International Civil Aviation Organization, a U.N. body that oversees global air travel, will vote on the EU's emissions plan Friday. ICAO is not expected to support the plan, according to a spokesman for the European Commission. The Wall Street Journal/Dow Jones Newswires (9/28)

2007 年 10 月 12 日 0:42 AIA dailyLead October 11, 2007

賢い人なら、もうすこし若ければなどは決して思わない。

アイリッシュ・ジャーナリスト作家 ジョナサン・スウィフト

"No wise man ever wished to be younger."

--Jonathan Swift, Irish satirist, journalist and author

2007 年 10 月 11 日 0:40 AIA dailyLead October 10, 2007

私たちに必要なものは、飽きることなく愛することです。

ノーベル平和賞受賞ヒュマニタリアン マザー・テレサ

"What we need is to love without getting tired."

--Mother Teresa, Nobel Peace Prize-winning humanitarian

2007 年 10 月 10 日 1:01 AIA dailyLead October 9, 2007

最良のものは未だ来ていない

英国詩人作家:ロバート・ブラウニング

"The best is yet to be."

--Robert Browning, British poet and playwright

2007 年 10 月 9 日 1:04 AIA dailyLead October 8, 2007

私たちの潜在能力の鍵を開けるのは、腕力でも知力でもなく、ただコツコツと継続することだけである。

独立作家 ライアン・コード

"Continuous effort -- not strength or intelligence -- is the key to unlocking our potential."

--Liane Cordes, self-help author

2007年10月6日 0:39 AIA dailyLead October 5, 2007

混乱と秩序は敵対するというより、単に反対側にあるだけ

コンピュータ・ゲーム開発者 リチャード・ギャリオット

"Chaos and Order are not enemies, only opposites."

--Richard Garriott, computer-game developer

2007年10月5日 0:37 AIA dailyLead October 4, 2007

成功はいくら手に入れるかで測られるべきではない。いくら戻すかによって測られるべきである。

バステイオン・ファンド会長・元プロ・アスリート ダニー・ヴィラヌーヴァ

"Success shouldn't be measured by how much you have but by how much you give back."

--Danny Villanueva, Bastion Capital Fund chairman and former pro athlete

2007年10月4日 1:04 AIA dailyLead October 3, 2007

エクセレンスに向かって努力することにはやりがいを感じさせるが、完璧を目指すとする気をくじくことになる。

心理学者・作家 ハリエット・ブレイカー

" Striving for excellence motivates you; striving for perfection is demoralizing."

--Harriet Braiker, psychologist and writer

2007年10月3日 0:38 AIA dailyLead October 2, 2007

会社にとってのブランドは、人間における名声のようなものだ。何事にも徹することで評判を得る。

アマゾンドットコム 創業者 CEO ジェフ ベゾス

A brand for a company is like a reputation for a person. You earn reputation by trying to do hard things well."

--Jeff Bezos, founder and CEO of Amazon.com

2007年10月2日 0:33 AIA dailyLead October 1, 2007

枝先に身を乗出して、孤立無援を求めるときだ。もともと、果実は枝先になるものではないか！

作家コラムニスト フランク・スカリー

"Why not go out on a limb? Isn't that where the fruit is?"

--Frank Scully, writer and columnist

2007年9月29日 0:16 AIA dailyLead September 28, 2007

静寂も音と同様千差万別である

アングロ・アイリッシュ作家 エリザベス・ボウエン

"Silence can be as different as sounds."

--Elizabeth Bowen, Anglo-Irish writer

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