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# CIVIL AVIATION

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HH Prince Fahd inspects  
New KAIA

## Airbus Battery-Powered Aircraft Takes Off





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## National Carriers: Legacy, Heritage and Stature



Dr. Faisal H. Al-Sugair

VP, General Authority  
of Civil Aviation

Each country that has a well established airlines industry definitely has one or more carriers that can be classified as national air carriers. Most of these air carriers were now privatized, worldwide, or their ownership transferred to individuals, companies, or to their shareholders with the assistance of their governments in order to get rid of their burden first, and then help them operating on fair competition bases. In fact these carriers had enjoyed and still enjoy special care and privileges that often emanate from exaggerated nationalistic feelings.

A question is always raised here: (Can a national carrier be allowed to fail or collapse?). In the past 20 years about 200 air carriers of different sizes have disappeared from the industry's map with the exception of acquisition, mergers or change of brands. However, most were genuine national air carriers that belong to relatively small countries considering their modest economic power. Major national air carriers like Air Canada, Alitalia, Austrian Airlines, Delta, Japan Airlines, Olympic Air, Swiss Air, United, ..etc, were revived in some way or another under the supervision of their governments

to prevent them from collapsing or disappearing.

This support may be just a sort of a reaction and not a genuine attempt to prevent national air carriers from falling down or collapsing. It seems prudent for governments not to leave their national air carriers to reach such a difficult situation by setting appropriate balanced policies that first ensure fair competition from the part of foreign air carriers especially those with a significant economic weight and good liquidity (provided by their governments on a constant basis to allow them to expand even without regard to its associated costs. Eventually, those national air carriers' market share will shrink. They will become financially weak, and their services will deteriorate if their governments didn't intervene, for instance, by issuing protective policies or regulations even if they might not go in line with the currently prevailing free economic trend worldwide.

National air carriers have a special significance that stems from their legacy as icons of their land, history, and heritage. Accordingly, they must be given special care not necessarily by provision of direct funding, but by issuance of appropriate policies, development of control and monitoring techniques, and better selection of their leading teams considering the tough competition, rapid changes, and diverse demand the world is experiencing today.



# HH Prince Fahd inspects New KAIA



**H**H Prince Fahd Bin Abdullah, President of GACA conducted an inspection tour around New KAIA Tuesday afternoon 12/8/2014 to see the progress in the project works and the project contractor's conformity to the works execution schedule.

HH was accompanied in this tour by GACA VP, Dr. Faisal Al-Sugair, Asst. President for HR and Finance, Mr. Abdulaziz Al Angari, DG of the Saudia Airlines, Eng. Salih Al-Jasir and a number of GACA officials.

During his tour HH Prince Fahd

listened to a detailed briefing from Eng. Mohamed Abed, Asst. VP for Projects, GACA, and the Project Contractor on the accomplishments so far.

At the end of the tour HH Prince Fahd assured in a press statement that the Saudi Civil Aviation Sector enjoys solid government support and attention in light of the approval of the civil aviation sector's developmental strategy aiming to improve the operational efficiency and performance. He added that GACA is working on several vital issues such as licensing new airline operators in the

Saudi market, construction and development of domestic, regional, and international airports network and launching privatization programs in GACA sectors. These initiatives represent important challenges requiring more efforts and new thinking, planning based on performance standards and indicators.

HH stated that the recently approved "2020 report" represents GACA's new strategy, goals, initiatives, priorities, performance indicators, and its domestic, regional, and international airports network which

is composed of 27 airports, and raising the Kingdom airports passenger capacity to more than 100 million passengers annually by 2020.

HH mentioned a number of ongoing projects beside New KAIA Project most important of which are the following:



Project Name	Annual Capacity	Date of Completion	Remarks
KKIA Development Project	35.5 m passengers in Phase I; 47m passengers in Phase II	Phase I 2017	Execution started
New PMIA in Madina	8m passengers in Phase I; 12m passengers in Phase II	Phase I 2015	<ul style="list-style-type: none"> <li>• Being executed according to the (BTO) system</li> <li>• Current capacity 4m passengers a year</li> </ul>
King Abdullah Bin Abdulaziz Airport in Jazan	3.6m passengers	3 years and a half from start of execution	<ul style="list-style-type: none"> <li>• Will be relocated.</li> <li>• Already awarded</li> </ul>
Abha Airport Development	5m passengers	-	<ul style="list-style-type: none"> <li>• Under awarding</li> <li>• Current capacity 1.1m passengers a year</li> </ul>
Prince Naif Bin Abdulaziz Airport Development Project in Qassim	3m passengers	-	<ul style="list-style-type: none"> <li>• Tendered in a public auction</li> <li>• Current capacity 750,000 passengers a year</li> </ul>
Arar Airpor Development	1m passengers	3 years from start of execution	<ul style="list-style-type: none"> <li>• Already awarded</li> <li>• Current capacity 100,000 passengers a year</li> </ul>
Jouf Airport Development	More than one 1m passengers	-	<ul style="list-style-type: none"> <li>• Under awarding</li> <li>• Current capacity 256,000 passengers a year</li> </ul>
Prince Abdulmohsen Bin Abdulaziz Airport Expansion in Yanbu	2.6m passengers	-	<ul style="list-style-type: none"> <li>• Current capacity 600,000 passengers a year</li> </ul>

# Saudia Airlines Appoints New DG

**S**audia, Saudi Arabia's national airlines, appointed Saleh Al-Jasser as its new director-general. The engineer started the new job on August 3rd.

The airline's board of directors, chaired by Prince Fahd bin Abdullah, President of the General Authority of Civil Aviation and chairman of Saudia's board selected Al-Jasser to replace Khaled Al-Molhem, who served the role over the past eight years.



Saudia New DG

Al-Jasser has around 30 years of experience in business management and maritime, land and air transportation.

He holds a master's degree in business management from King Saud University and a bachelor's degree in industrial engineering from King Abdulaziz University.

Al-Jasser has served as CEO of the National Shipping Company of Saudi Arabia since 2010. He was previously the executive director-general of the Abdullatif Jameel Company from 2003.

## KKIA Development Project is Underway

**I**mplementation of KKIA Development Project in Riyadh is already underway. It includes the construction of a new fifth terminal with a capacity of 12 million passengers, linking Terminal 3 to Terminal 4 to raise the Airport's capacity to 35.5 million passengers. It will take three years. Prince Fahd Bin Abdullah, President of the General Authority of Civil Aviation has discussed during his reception to Prince Turki Bin Abdullah, Governor of Riyadh, the integration of services throughout the urban projects in the area.

They also discussed areas of cooperation and coordination between GACA and the High Commission for the Development of Arriyadh. Moreover,

the discussion covered linking KKIA with the city light railway network shall enable passengers to move easily between the airport and the city center. Riyadh's main railway station is being built in the Airport's southeastern and will be connected to the Airport's passenger terminals.

It's worth mentioning that GACA's plan for the development of KKIA aims to make the Airport an independent unit operating on competitive bases to be able to raise the standard of services rendered to passengers, airlines, and airport users. The development project includes construction of 8 gates directly linking the terminal to the aircraft, aprons, and infrastructure

facilities that include a road network linking developed areas to the main access road from/to Riyadh and to the existing terminals and a 3000 cars capacity multi-story car park.

Operations will be shifted from Domestic Terminal 3 to the new Terminal 5 before closing down Terminal 3 to complete the expansion and development of Terminals 3 & 4 and then move to the expansion and development of Terminals 1 & 2 and the airside area separating between them.

A joint venture formed by the Turkish company "TAV" and the Saudi company "Al Arrab" has won Terminal 5 design and construction project contract for a total amount of SR 1.260 billion.



# KSA Aviation sector achieves many awards in 2014

**K**SA aviation sector was awarded four prestigious prizes during 2014. Saudi Arabian Airlines has achieved the first position in the discipline of global flight schedules during the month of July 2014.

The Acting President of Saudi Airlines Company for Air Transport Abdulaziz Al-Hazmi has pointed out that the success of strategic plans and operational systems throughout the year and in the peak seasons, paved the way for Saudia to continue the advance in the classification of the site in which it achieved the second position in June.

He noted that Saudia operated 15,624 scheduled trips during the month of July and the overall average for the discipline flight schedules was 90.70%.

It is worth mentioning that Saudia has won a number of awards over the past period including classification of four stars services from Skytrax Company, the best seat Economy Class in the world in 2014, the best amenities of first class offered by an airline worldwide during the current year, in addition that it is one of the companies for more development of services compared to last year.

On the other hand, Saudi Airlines Cargo has been awarded the "Air Cargo Industry Achievement Award 2014" in an event organized by Air Cargo Week in Shanghai (China) on 18th June 2014.



Accepting the Air Cargo Industry Achievement Award on behalf of Saudia Cargo for the second consecutive year was Mr. Peter Scholten, VP Commercial. Also in attendance were other members of the Management team.

The Air Cargo Week World Air Cargo Awards is an important annual event which celebrates excellence and achievement in the global air cargo industry. Based on readers' votes, this award takes into consideration a number of factors, including commitment to the development of air cargo, investment in new products and services and consistent pattern of growth.

Saudi Airlines Cargo has grown significantly over recent years, both in terms of its belly capacity as part of the Saudia fleet on the passenger side and its own freighter capacity. This growth has resulted in increased

frequencies to existing destinations as well as new routes to several destinations across the globe.

Saudia Cargo's reputation for reliability, adherence to the highest international standards and commitment to cost-effective solutions has won it numerous industry awards and the airline continues to perform well despite the difficult economic climate.

Saudi Airlines Cargo operates a fleet of 15 freighters and sells the belly-capacity on 145 passenger aircraft for Saudi Arabia's flag carrier Saudia, spanning a rapidly expanding global network of 225 destinations. In addition to its scheduled freighter services, the cargo airline also provides cost-effective and practical worldwide charter flight solutions from a growing fleet of dedicated charter aircraft.

# IATA: 3.1b passengers flew in 2013

The International Air Transport Association (IATA) reports that 3.1 billion passengers were carried on scheduled air services across the globe in 2013 – up 5.1% on 2012.

The figures were revealed in the association’s 58th edition of the World Air Transport Statistics (WATS), which provides statistical information and analysis of the airline industry’s annual performance.

Airlines in the Asia-Pacific region carried the largest number of passengers of any region with 1.01 billion, an increase of 9.3% on 2012, while Europe saw 825.9 million passengers, up 3.4%, and North America 818.9 million, up 0.7% on 2012.

Latin America and the Caribbean carried 240.5 million, up 7.6%, while the Middle East saw 157.9 million, an increase of 8.8%, and Africa carried 73.8 million, up 5.6%.

The US is still the largest single air market in the world, in terms of total two-way traffic, with 618.1 million, an increase of 3.3% over 2012, while China saw the biggest rise of 11.8%, and carried 404.2 million passengers.

Tony Tyler, IATA’s director general and CEO, comments: “Commercial aviation began 100 years ago with a single air-



plane, a single passenger and a single route.

“Last year, as recorded in the WATS, the industry carried more than three billion passengers and nearly 48 million tons of cargo on nearly 100,000 flights per day, while the real price of air travel fell by 7.4%.

“Aviation’s annual contribution exceeds even these impressive figures. Its global economic impact is estimated at \$2.4 trillion and it supports 3.4% of global GDP.

“By value, over a third of goods traded internationally are delivered by air and some 58.1 million jobs are supported by aviation.”

The top three city-pairs based on passengers carried on international routes were, Hong Kong-Chinese Taipei with 4.9 million, down 11.5%, Dublin-London with 3.6 million, up by 6.9%, and Jakarta-Singapore 3.4 million, up by 8.6%.

The top three city-pairs based on passengers carried on domestic routes were Jeju-Seoul with 9.58 million, up by 1.4%, Sapporo-Tokyo 9.17 million, up by 4.7%, and Fukuoka-Tokyo 8.34 million, up by 9.3%.

IATA says globally, cargo experienced weak growth with freight ton/kilometers up only 1.8% compared to 2012, but a reversal of the 1.1% shrinkage in 2011.

# London Gatwick reports record-breaking financial year

London Gatwick has announced it delivered record passenger growth, increased its share of traffic in the London market and achieved a profit for the 2013/14 financial year.

The busiest single runway gateway in the world reports 'strong results' as it was competing vigorously with the other London airports, continuing to attract new airlines - serving both emerging and established markets - and increasing its share in the business travel market.

Gatwick explains passenger numbers reached 35.9m, a 4.8% growth on 2012/13 and says it was a record year for the UK's second busiest airport.

Turnover for 2013/14 was up 10.2% to £593.7m and EBITDA up 14.2% to £259.4 million, resulting in a profit of £57.5m, compared to

YOUR LONDON AIRPORT  
*Gatwick*

a loss in the financial year ending March 31, 2013 of £29.1 million.

Gatwick explains it saw growth with its existing carriers and continues to invest in new facilities to improve the passenger experience.

These included investment of £201 million in the year, including a transformation of the South Terminal departure lounge, which saw more than 20 new and refreshed stores open. The airport also commenced its largest single project to date - a £183 million re-build of Pier 1, which will include a new baggage system for the South Ter-

minal.

Gatwick's investment over the last five years now totals more than £1.2 billion, while a further £195 million is planned to be invested in the 2014/15 financial year.

This year the UK's second busiest airport was shortlisted by the Airports Commission for a new runway, which it says it can deliver 'more quickly, at a lower cost and with far less environmental impact than other options', along with greater economic benefits and more connections.

## "Emirates" takes delivery of 50th superjumbo

Having achieved over 70% growth in capacity since 2010, Emirates has taken delivery of its milestone 50th A380.

The milestone takes the carrier's widebody fleet to 224 aircraft, comprising the world's largest fleet of A380s and B777s. Emirates' president, Tim Clark, commented: "The A380 has been very successful for us, and this is reflected in the strong customer interest and high seat factors wherever we've deployed the aircraft.

"The A380 has helped us serve customer demand on trunk routes, operate more efficiently at slot-constrained

airports and also introduce new concepts on-board."

Clark predicts a ramping up in Emirates' A380 delivery program, suggesting that the airline will operate 90 of the aircraft by late-2017 to support new and existing routes.

The Gulf carrier's A380 network currently serves 27 airports on five continents, and is set to increase to 33 by the end of this year. Kuwait and Mumbai were added in July, Frankfurt will be added during September; Dallas in October; San Francisco and Houston in December.

There are currently 299 widebody aircraft on Emirates' order book, including 90 A380s.



# Passenger traffic soars at European hubs

Copenhagen Airport has reported that traffic continues to soar, and June was the busiest month in the airport's history.

Passenger numbers reached 2,523,108 for the month, which represented a 8.3% year-on-year increase, and the busiest month in the history of the Danish gateway also included the busiest travel day ever.

On Friday, June 27, 98,674 passengers travelled through the airport, 4,000 more than the previous record set in Easter 2014.

Copenhagen Airport CEO, Thomas Woldbye, explains: "With almost 100,000 passengers passing through the airport in one day, it goes without saying that things were more than just busy in the terminals.

"Thanks to our large-scale conversion and expansion of Terminal 2 and the baggage facilities in the last few years, we have been able to absorb the growth and give the many travelers a good start to their holidays."

International traffic in June 2014, grew by 8.5%, and the number of transfer passengers was up by 19.4%, while domestic traffic was up 5.9%.



Vienna Airport has also reported a rise in passenger numbers in June, as the number rose by 3.5% compared to June 2013 to 2,135,354 passengers.

In June 2014, Austria's main hub reported a 2.2% decline in the number of transfer passengers from June 2013, while domestic travelers grew by 5.5% in the same period.

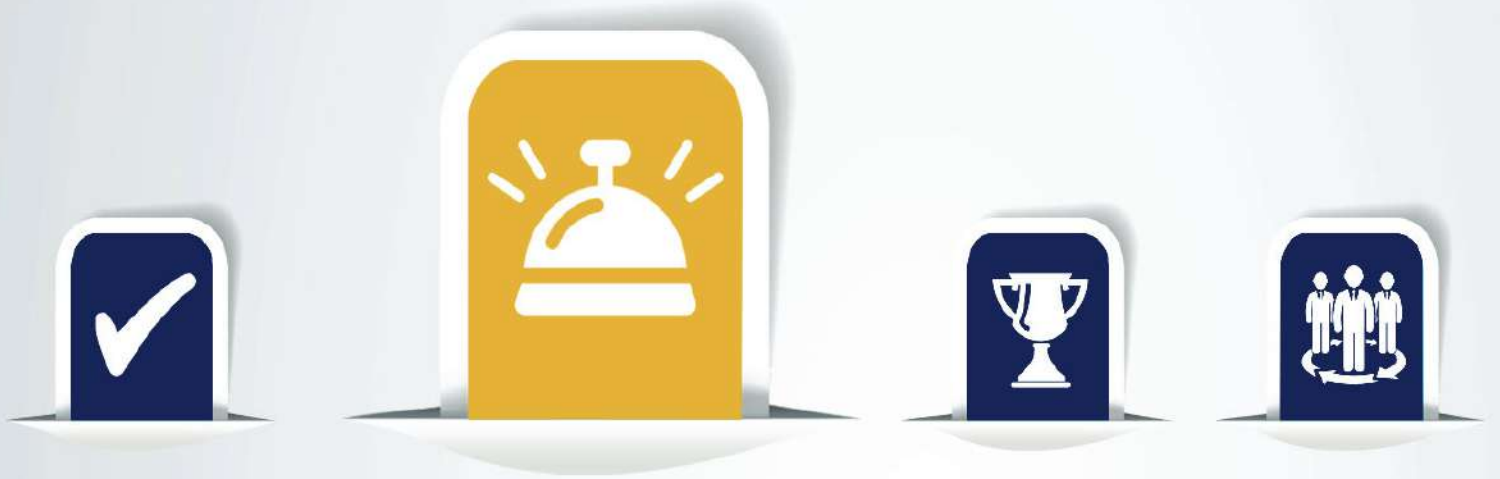
Edinburgh Airport in Scotland, welcomed a total of 993,758 passengers in June,

an increase of 3.8% on June 2013, while fellow Scottish hub, Glasgow Airport, recorded 793,000, ensuring it was able to record yet another month of growth, and the figure was up 2.5% compared to the same period last year.

Shannon Airport in Ireland has also reported a rise in passenger numbers and in the first six months of the year traffic reached 653,894, up from 568,133 in the same period last year.

# SERVICE

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# Airbus Battery-Powered Aircraft Takes Off

After a successful test flight in April, the E-Fan by Airbus sets high hopes for the future of electric flying

Khadija Osman \*

As eco-friendly flying becomes more of a pressing environmental issue, aviation companies world-wide have been increasing their efforts to make an alternative energy source a viable option for powering aircraft. Though a few manned electric-powered airplanes have flown successfully, any electric aircraft attempt by a leading manufacturer had yet to be seen; until this past April when the E-Fan 2.0 by Airbus took to the sky in France.

Developed in response to the European Commission's "Flight path 2050", a plan to reduce carbon dioxide emissions from airplanes by 75% and nitrous oxide emissions by 90% by 2050, the E-Fan 2.0 releases no emissions of either gas. The aircraft is also all but silent due to the lack of the noisy combustion process fuel-powered aircraft must maintain in order to fly. The developers of the E-Fan argue that noise reduction is essential to the future of commercial aviation because people living at airports or in the neighborhoods nearby suffer from noise pollution emanating from

the current generation of commercial aircraft. Additionally, there are regulations prohibiting airlines from scheduling as many commercial flights at certain intervals at night because of this, and the company hopes that regulations will eventually allow for airlines to schedule more commercial flights using quieter electric or hybrid aircraft.

Unlike other electric airplanes that made use of existing fuel-burning based airframes that were later equipped with batteries, the E-Fan was built from the ground-up with the intention of it being electrically powered. Whereas the Airbus A380 boasts a wingspan of 262 feet, and can carry up to 853 people, the Airbus E-Fan has a wingspan

of 31 feet and can currently only hold up to two people. In spite of its size the E-Fan is equipped with three electric motors, one of which is mounted within its fore wheel for taxiing along runways; and gives the aircraft the potential to drive at up to 37 miles per hour. The two prominent engines are located just aft the cockpit, and are powered by two 250 V lithium ion polymer batteries from KOKAMI (a Korean battery manufacturer) located on the inboard section of each wing. The batteries do not have a cooling system and rely entirely on air flow to keep them from overheating while powering the motors. The undercarriage features two retractable fore and aft wheels,







and there are an additional two under the wings. Due to the carbon-fiber composite structure of the E-Fan, as well as the light-weight batteries, the aircraft weighs just around 1,100 pounds when empty; the markedly low weight for the electric airplane being a particular success since the main issue with flying electric aircraft is usually that heavy batteries weigh the airplanes down.

The control technology of the E-Fan is key to the way the aircraft operates. Its E-FADEC energy management system automatically handles the electrical system, which simplifies the controls, making the E-Fan efficient for its intended use as a trainer aircraft. The E-Fan can currently fly for close to an hour at a cruising speed of 100 miles per hour, and takes an hour to charge; though the airplane features a reserve battery that enables it to make an emergency landing even if the charge on the main batteries is low. The

maximum flying speed of the aircraft is currently believed to be 124 miles per hour.

Airbus is working on constructing a fleet of the E-Fan 2.0 for training pilots, and also plans to debut an E-Fan 4.0 a hybrid version of the 2.0 which expands the current seating from 2 to 4, and will contain a combustion engine in order to extend the aircraft's potential fly time. The E-Fan fleet will be manufactured near the Bordeaux Airport in France and production is scheduled to start sometime in 2017. Inspired by the E-Fan's success, Airbus plans to develop a hybrid airplane for commercial use, the prototype of which the company would like to be able to debut by 2030. These hybrid airplanes will seat between 70-90 passengers and will eventually be used for regional commercial flights. Perhaps the most attractive advantage that passengers of such flights will experience will be cheaper tickets. An Airbus

Chief Technology Officer, Jean Botti, stated in an interview that running this type of aircraft can be up to 50 times cheaper than running the traditional fossil-fuel based aircraft. Fuel expenses tend to lead to higher ticket prices, but with entirely- or even partially - electric airplanes, fuel will be less of an expense for the airline and passengers will enjoy lower airfare on regional flights.

Though commercial "green" flying is still many years in the future, witnessing the process is exciting to just about any individual these days. With the aviation industry growing each year and the average person finding themselves flying more often than ever before, this type of technology will greatly help both passengers and airlines accommodate their needs. The gears for electric flying are officially in motion, and the reality a lot closer than any of us ever imagined.

\* *English Instructor, Aviation Researcher, Nevada, USA*

## Top 30 North American Airports Traffic Results 2013

Rank	City-Airport code	PAX	% Change
1	ATLANTA, GA (ATL)	94430785	▼1.13
2	CHICAGO, IL (ORD)	66883271	▲0.07
3	LOS ANGELES, CA (LAX)	66702252	▲4.73
4	DALLAS/FORT WORTH, TX (DFW)	60436266	▲3.15
5	DENVER, CO (DEN)	52556359	▼1.13
6	NEW YORK, NY (JFK)	50413204	▲2.31
7	SAN FRANCISCO, CA (SFO)	44944201	▲1.18
8	CHARLOTTE, NC (CLT)	43456310	▲5.41
9	LAS VEGAS, NV (LAS)	41856787	▲0.46
10	MIAMI, FL (MIA)	40563071	▲2.78
11	PHOENIX, AZ (PHX)	40318451	▼0.32
12	HOUSTON, TX (IAH)	39865325	▼0.06
13	TORONTO, ON, CANADA (YYZ)	36037962	▲3.23
14	ORLANDO, FL (MCO)	34973645	▼0.8
15	NEWARK, NJ (EWR)	34963343	▲2.88
16	SEATTLE, WA (SEA)	34824281	▲4.82
17	MINNEAPOLIS, MN (MSP)	33870693	▲2.25
18	DETROIT, MI (DTW)	32389544	▲0.56
19	PHILADELPHIA, PA (PHL)	30504112	▲0.87
20	BOSTON, MA (BOS)	30236088	▲3.2
21	NEW YORK, NY (LGA)	26729202	▲3.97
22	FORT LAUDERDALE, FL (FLL)	23559779	▲0.04
23	BALTIMORE, MD (BWI)	22501353	▼0.79
24	WASHINGTON DULLES, (IAD)	21791781	▼2.75
25	CHICAGO, IL (MDW)	20491422	▲5
26	WASHINGTON Reagan, (DCA)	20366239	▲3.75
27	SALT LAKE CITY, UT (SLC)	20242092	▲0.72
28	VANCOUVER, BC, CANADA (YVR)	18117379	▲2.07
29	SAN DIEGO, CA (SAN)	17710241	▲2.41
30	TAMPA, FL (TPA)	16920093	▲0.59

Passengers in transit counted once

Rank	City-Airport code	Cargo	% Change
1	MEMPHIS, TN (MEM)	4137938	▲3.03
2	ANCHORAGE, AK (ANC)	2418762	▼1.82
3	LOUISVILLE, KY (SDF)	2216079	▲2.2
4	MIAMI, FL (MIA)	1945013	▲0.78
5	LOS ANGELES, CA (LAX)	1744101	▼1.4
6	CHICAGO, IL (ORD)	1527655	▲0.43
7	NEW YORK Kennedy, NY (JFK)	1286561	▲0.91
8	INDIANAPOLIS, IN (IND)	991953	▲6.42
9	NEWARK, NJ (EWR)	649421.3	▼12.75
10	ATLANTA, GA (ATL)	617714	▼5.71
11	CINCINNATI, OH (CVG)	594520	▲9.33
12	DALLAS/FORT WORTH, TX (DFW)	589320	▼2.31
13	OAKLAND, CA (OAK)	503916.9	▲0.96
14	HOUSTON, TX (IAH)	426383.9	▼2.67
15	ONTARIO, CA, CANADA (ONT)	418666	▲1.26
16	PHILADELPHIA, PA (PHL)	380143.2	▼2.28
17	SAN FRANCISCO, CA (SFO)	363795	▼4.46
18	SEATTLE, WA (SEA)	293210	▲3.3
19	PHOENIX, AZ (PHX)	277008.6	▼2.09
20	WASHINGTON DULLES, (IAD)	252483	▼5.77
21	BOSTON, MA (BOS)	252131.8	▲1.53
22	VANCOUVER, BC, CANADA (YVR)	228076	▲0.62
23	DENVER, CO (DEN)	226275	▼4.38
24	DETROIT, MI (DTW)	214576.8	▼1.98
25	PORTLAND, OR (PDX)	199204	▲0.04
26	MINNEAPOLIS, MN (MSP)	198452	▲0.32
27	WINNIPEG, MB, CANADA (YWG)	173122	▼1.01
28	ORLANDO, FL (MCO)	169657	▼1.91
29	SALT LAKE CITY, UT (SLC)	165848.4	▼0.85
30	SAN DIEGO, CA (SAN)	145777.5	▲12.26

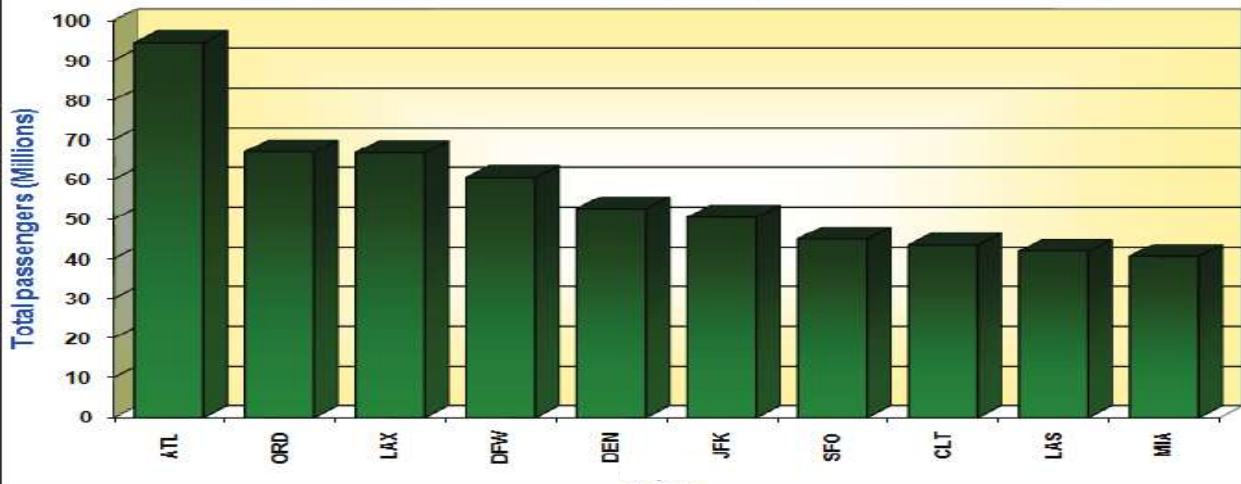
Data includes transit freight (Tons)

Rank	City-Airport code	Movements	% Change
1	ATLANTA, GA (ATL)	911074	▼2.07
2	CHICAGO, IL (ORD)	883287	▲0.59
3	DALLAS/FORT WORTH, TX (DFW)	678029	▲4.29
4	LOS ANGELES, CA (LAX)	614917	▲1.56
5	DENVER, CO (DEN)	582653	▼4.88
6	CHARLOTTE, NC (CLT)	557948	▲1.06
7	LAS VEGAS, NV (LAS)	520992	▼1.28
8	HOUSTON, TX (IAH)	506298	▼0.77
9	PHOENIX, AZ (PHX)	435887	▼3.18
10	PHILADELPHIA, PA (PHL)	432884	▼2.34
11	MINNEAPOLIS, MN (MSP)	432592	▲1.35
12	TORONTO, ON, CANADA (YYZ)	431358	▼0.6
13	DETROIT, MI (DTW)	425732	▼0.49
14	SAN FRANCISCO, CA (SFO)	421400	▼0.75
15	NEWARK, NJ (EWR)	413581	▼0.12

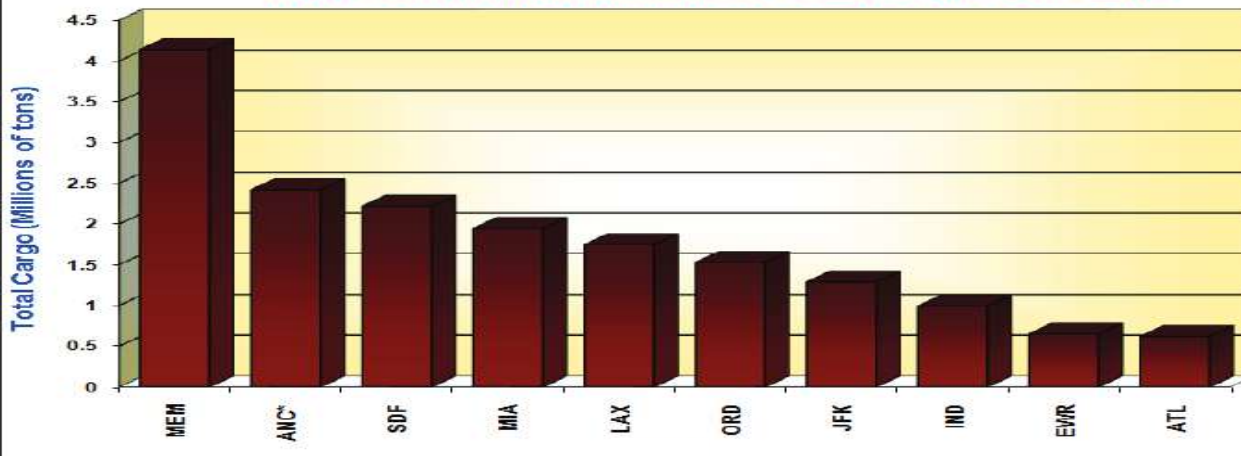
Rank	City-Airport code	Movements	% Change
16	NEW YORK, NY (JFK)	406419	▲1.19
17	MIAMI, FL (MIA)	399140	▲2.03
18	NEW YORK, NY (LGA)	374658	▲1.25
19	BOSTON, MA (BOS)	361339	▲1.85
20	PHOENIX, AZ (DVT)	354995	▼2.86
21	SALT LAKE CITY, UT (SLC)	330350	▲0.68
22	SEATTLE, WA (SEA)	317183	▲2.45
23	WASHINGTON DULLES, (IAD)	307748	▼1.39
24	VANCOUVER, BC, CANADA (YVR)	300452	▲1.37
25	LONG BEACH, CA (LGB)	293506	▲4.41
26	DAYTONA BEACH, FL (DAB)	292291	▲2.73
27	WASHINGTON, DC (DCA)	292193	▲1.39
28	ORLANDO, FL (MCO)	291652	▼3.14
29	SANFORD, FL (SFB)	269708	▼10.51
30	VAN NUYS, CA (VNY)	268531	▲3.63

Total Movements: landing+take off

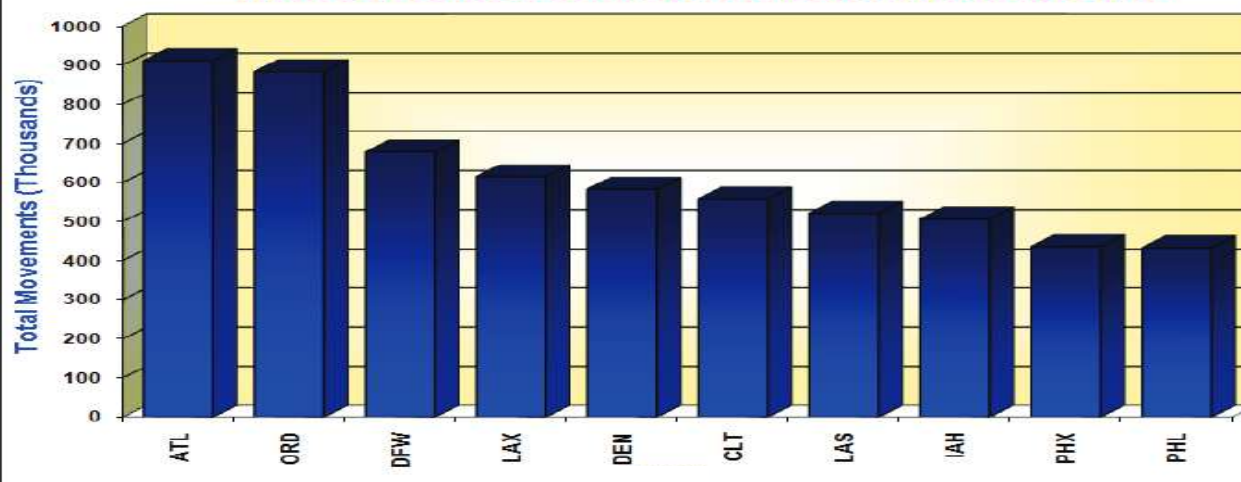
**Top 10 North American Airports Passenger Traffic 2013**



**Top 10 North American Airports Total Cargo Traffic 2013**



**Top 10 North American Airports Aircraft Movements 2013**



Source: ACI, Airports participating in the ACI Annual Traffic Statistics Collection



# Forthcoming Aviation Conferences, Exhibitions & Seminars

## 15 September – 15 November 2014



### 15 – 17 September

15th Annual Aviation Industry Suppliers Conference  
Toulouse, France  
[speednews.com/aviation-industry-suppliers-conference-in-toulouse](http://speednews.com/aviation-industry-suppliers-conference-in-toulouse)

### 16 – 17 September

General Aviation Air Safety Investigators (GA-ASI) Workshop  
Wichita, KS, USA  
[gama.aero/public-view-events/ga-asi-workshop](http://gama.aero/public-view-events/ga-asi-workshop)

### 17 – 19 September

ATC Global  
Beijing, China  
[atcglobalhub.com/index.php/en](http://atcglobalhub.com/index.php/en)

### 18 September

Business Aviation Regional Forum  
Dallas, TX, USA  
[nbaa.org/events/forums/](http://nbaa.org/events/forums/)

### 20 September

AOPA Fly-In  
Chino, CA, USA  
[aopa.org/Community-and-Events/AOPA-Fly-Ins.aspx](http://aopa.org/Community-and-Events/AOPA-Fly-Ins.aspx)

### 21 – 23 September

ISTAT Europe  
Istanbul, Turkey  
[istat.org/Europe](http://istat.org/Europe)

### 23 September

IATA/AACO Aero-political Forum  
Amman, Jordan  
[iata.org/events/Pages/aeropolitical-forum.aspx](http://iata.org/events/Pages/aeropolitical-forum.aspx)

### 23 – 24 September

Aviation Week's Brazing Symposium  
Phoenix, AZ, USA  
[events.aviationweek.com/current/brazing/index.htm](http://events.aviationweek.com/current/brazing/index.htm)

### 25 – 26 September

Central Asian Business Aviation  
Almaty, Kazakhstan  
[aeropodium.com/caba.html](http://aeropodium.com/caba.html)

### 28 – 30 September

F. Russell Hoyt National Airports Conference  
Portland, OR, USA  
[events.aaae.org/sites/140901/index.cfm](http://events.aaae.org/sites/140901/index.cfm)

### 30 September - 2 October

European Regions Airline Association General Assembly  
Barcelona, Spain  
[eraa.org/](http://eraa.org/)

### 30 September - 3 October

Global Aviation Cooperation Symposium (GACS)  
Montreal, Canada  
[icao.int/meetings/GACS/Pages/default.aspx](http://icao.int/meetings/GACS/Pages/default.aspx)

### 1 October

Air Law and Finance  
Dubai, UAE  
[aeropodium.com/airlaw.html](http://aeropodium.com/airlaw.html)

### 1–2 October

Aircraft e-Enablement Connectivity & (IFE) Conference  
London, UK  
[aircraft-commerce.com/conferences/eEnablement2014/Homepage.asp](http://aircraft-commerce.com/conferences/eEnablement2014/Homepage.asp)

### 5 – 7 October

14th Annual AAAE Airport Noise Mitigation Symposium  
Ft. Lauderdale, FL, USA  
[events.aaae.org/sites/141007/index.cfm](http://events.aaae.org/sites/141007/index.cfm)

### 5 - 8 October

Northwest Chapter AAAE Annual Conference and Exposition  
Boise, ID, USA  
[nwaaae.org/events/event\\_details.asp?id=473023](http://nwaaae.org/events/event_details.asp?id=473023)

### 7 October

MRO Europe Conference  
Madrid, Spain  
[mroeurope.aviationweek.com/euro14/public/enter.aspx](http://mroeurope.aviationweek.com/euro14/public/enter.aspx)

### 7–9 October

10th Symposium & Exhibition on Machine Readable Travel Documents (MRTDs)  
Montréal, Canada  
[icao.int/Meetings/mrtd-symposium-2014/Pages/default.aspx](http://icao.int/Meetings/mrtd-symposium-2014/Pages/default.aspx)

### ICAO Regional Air Transport Conference

Montego Bay, Jamaica  
[icao.int/Meetings/AirTransportSymposium-Jamaica/Pages/default.aspx](http://icao.int/Meetings/AirTransportSymposium-Jamaica/Pages/default.aspx)

### 9 October

7th International Aircraft Repossession  
London, UK  
[aeropodium.com/aircraftrepo.html](http://aeropodium.com/aircraftrepo.html)

### 9 – 11 October

International Aviation Conclave  
New Delhi, India  
[aviationconclave.com/](http://aviationconclave.com/)

### African Air Expo 2014

Accra, Ghana  
[africanairexpo.com/](http://africanairexpo.com/)

### 10 October

IFEC Barcelona 2014  
Barcelona, Spain  
[ifecbarcelona.com/](http://ifecbarcelona.com/)

### 10–11 October

11th Annual American Sonex Association Fly-in  
Crossville, TN, USA  
[americansonexassociation.org/events/index.html](http://americansonexassociation.org/events/index.html)

### 12–14 October

ACI Africa 23rd Annual Assembly, Conference & Exhibition  
Durban, South Africa  
[aci.aero/Events/2014](http://aci.aero/Events/2014)

### 13 - 15 October

CAPA Asia Aviation Summit & LCC Congress  
Singapore, Singapore  
[capaevents.com/ehome/78499/asiaaviationsummit2014](http://capaevents.com/ehome/78499/asiaaviationsummit2014)

UNWTO/ICAO Ministerial Conference,  
Tourism and Air Transport in Africa  
Victoria, Seychelles  
[icao.int/Meetings/ICAO-UNWTO-Seychelles2014/Pages/default.aspx](http://icao.int/Meetings/ICAO-UNWTO-Seychelles2014/Pages/default.aspx)

**14 - 15 October**

12th Annual Middle East and  
Africa AirFinance Conference  
Dubai, UAE  
[euromoneyseminars.com/middle-east-and-africa-airfinance/details.html](http://euromoneyseminars.com/middle-east-and-africa-airfinance/details.html)

**14 - 16 October**

ICAO Business Class 2014 Symposium (IBC2014)  
Montréal, Canada  
[icao.int/Meetings/ibc2014/Pages/default.aspx](http://icao.int/Meetings/ibc2014/Pages/default.aspx)

**15 October**

CIO Forum  
San Diego, CA, USA  
[iata.org/events/passenger-symposium/Pages/cio-forum.aspx](http://iata.org/events/passenger-symposium/Pages/cio-forum.aspx)

World Passenger Symposium  
San Diego, CA, USA  
[iata.org/events/passenger-symposium/Pages/index.aspx](http://iata.org/events/passenger-symposium/Pages/index.aspx)

**16 - 17 October**

International Business Aviation Symposium  
Republic of San Marino  
[aeropodium.com/sanmarino.html](http://aeropodium.com/sanmarino.html)

**17 - 18 October**

Southern Heritage Airshow & Fly-in  
Tallulah, LA, USA  
[southernheritageair.org/](http://southernheritageair.org/)

**20 - 22 October**

ACI Asia-Pacific Small & Emerging  
Airports Seminar  
Bali, Indonesia  
[aci-asiapac.aero/event-detail.php?id=70&pid=400](http://aci-asiapac.aero/event-detail.php?id=70&pid=400)

**21 - 23 October**

Business Aviation Convention &  
Exhibition (NBAA)  
Orlando, FL, USA  
[nbaa.org/events/bace/2014/](http://nbaa.org/events/bace/2014/)

ICAO Symposium on Innovation in  
Aviation Security  
Montréal, Canada  
[icao.int/Meetings/SIAS/Pages/default.aspx](http://icao.int/Meetings/SIAS/Pages/default.aspx)

**23 - 24 October**

ICAO/CAAC Symposium on Low Cost Carriers  
Kunming, China  
[icao.int/Meetings/LCC-China-2014/Pages/default.aspx](http://icao.int/Meetings/LCC-China-2014/Pages/default.aspx)

**27 - 28 October**

ECAC Safety Workshop on Crisis  
Management in Aviation  
Paris, France  
[ecac-ceac.org//index.php/workshop/en\\_safety\\_ws\\_crisis/welcome](http://ecac-ceac.org//index.php/workshop/en_safety_ws_crisis/welcome)

**27 - 29 October**

19th Annual Central Europe/North  
America Airport Issues Conference  
Gdansk, Poland  
[events.aaae.org/sites/131005/index.cfm](http://events.aaae.org/sites/131005/index.cfm)

**AVSEC World**

Washington, DC, USA  
[iata.org/events/Pages/avsec.aspx](http://iata.org/events/Pages/avsec.aspx)

**28 - 30 October**

ICAO 'International Aviation and Environment'  
and 'States' Action Plans' Seminars for 2014  
Kuala Lumpur, Malaysia  
[icao.int/Meetings/EnvironmentalWorkshops/Pages/2014-Seminars.aspx](http://icao.int/Meetings/EnvironmentalWorkshops/Pages/2014-Seminars.aspx)

**30 October**

Aviation Finance Seminar  
London, UK  
[everestevents.co.uk/event/aviation-finance-seminar/](http://everestevents.co.uk/event/aviation-finance-seminar/)

**30 October - 2 November**

Aviation Flying Expo  
Palm Springs, CA, USA  
[aviation-xpo.com/](http://aviation-xpo.com/)

**3 - 5 November**

AAAE/CDA Airports Going Green Conference  
Chicago, IL, USA  
[events.aaae.org/sites/141105/index.cfm](http://events.aaae.org/sites/141105/index.cfm)

ACI EUROPE Airport Exchange  
Paris, France  
[aci.aero/Events/2014](http://aci.aero/Events/2014)

**4 - 5 November**

14th Annual AAAE/TSA/DHS  
Aviation Security Summit  
Arlington, VA, USA  
[events.aaae.org/sites/141104/index.cfm](http://events.aaae.org/sites/141104/index.cfm)

**4 - 6 November**

MRO Asia Conference  
Singapore, Singapore  
[mroasia.aviationweek.com/as14/public/enter.aspx](http://mroasia.aviationweek.com/as14/public/enter.aspx)

**5 - 6 November**

Fourth Annual AAAE/Leigh Fisher  
Global Airport Public-Private  
Partnership Conference  
Washington, DC, USA  
[events.aaae.org/sites/140711/](http://events.aaae.org/sites/140711/)

**6 November**

ACC Airline Conference  
Reigate, UK  
[qyacc.com/conference.aspx](http://qyacc.com/conference.aspx)

**6 - 7 November**

15th Annual Asia Pacific AirFinance Conference  
Hong Kong, China  
[euromoneyseminars.com/asia-pacific-airfinance/details.html](http://euromoneyseminars.com/asia-pacific-airfinance/details.html)

**7 - 9 November**

International Aviation Trade Show  
and Congress  
Cancun, Mexico  
[expo-ciam.com/en/](http://expo-ciam.com/en/)

**8 - 11 November**

ACI-LAC Annual Conference  
Cancun, Mexico  
[aci.aero/Events/2014](http://aci.aero/Events/2014)

**9 - 11 November**

46th African Airlines Association  
Algiers, Algeria  
[afraa.org](http://afraa.org)

**11 - 14 November**

135th Slot Conference  
Prague, Czech Republic  
[iata.org/events/sc135/Pages/index.aspx](http://iata.org/events/sc135/Pages/index.aspx)

**11 - 15 November**

10th China International Aviation  
& Aerospace Exhibition  
Zhuhai, China  
[atwonline.com/airshow-china-2014-10th-china-international-aviation-aerospace-exhibition](http://atwonline.com/airshow-china-2014-10th-china-international-aviation-aerospace-exhibition)

**12 - 14 November**

RFID Aircraft Maintenance  
Operations Conference  
Toulouse, France  
[iata.org/events/Pages/rfid-aircraft-maintenance.aspx](http://iata.org/events/Pages/rfid-aircraft-maintenance.aspx)



For over 20 years Arabasco has been the market leader in the Middle East for corporate aviation support service. Innovation and customer service have been key in Arabasco maintaining this position and Arabasco continues to grow its service portfolio.

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- ✦ Our highly qualified Engineering team have 2 or more industry qualifications PCA Mechanics certificate, FAA A & P certificate or ICAO Type II License.
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UGAFCO is the technology trend setter at KAIA and the only Company having AVR 2000 fuel data management system installed on all its equipments. Both ENOC and ARABASCO, the joint venture partners of UGAFCO believe in the development of latest technology and best trained personnel to maintain the highest Customers Services Standards. UGAFCO is committed for operational excellence.



UNITED GULF AIRCRAFT FUELING COMPANY  
 King Abdulaziz International Airport P.O. Box 9094, Jeddah 21413 KSA  
 Tel: +966 2 685 5502 Fax: +966 2 685 5373 E-mail: riasat.ali@arabasco.com

