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Next Generation of Aviation Professionals (NGAP)

Eduardo Chacin



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XIV ICAO/ASPA Seminar

12-13 July 2016, Mexico City, Mexico



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<https://www.youtube.com/watch?v=jcyElFjjZTA&feature=youtu.be>



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NGAP: *Background*

- Since 2008, several reports have forecasted a shortage of aviation professionals.
 - Airbus, Boeing and IATA, among others, concur with predictions of this impending shortage, especially in the areas of pilots, air traffic controllers, aircraft maintenance engineers, as reported in ICAO Doc 9956 in 2011.
- In May 2009, ICAO created the NGAP Task Force.
 - This resulted from a round-table discussion with industry, regulators, educators, and international organizations.
 - NGAP Task Force is a forum to discuss issues and establish collaboration to support activities to prepare for and engage the next generation.





NGAP Programme

- Established in May 2009
- All stakeholders of the aviation community
- Forum to discuss issues and establish partnerships to support activities





NGAP: *Vision and Mission*

NGAP Vision

- A global aviation community that has sufficient competent human resources to support a safe, secure and sustainable air transportation system.

NGAP Mission

- To develop strategies, best practices, tools, standards and guidelines as applicable and to facilitate information sharing activities that assist the global aviation community in attracting, training, educating, and retaining the next generation of aviation professionals.



NGAP Timeline



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NEXT GENERATION
AVIATION PROFESSIONALS





Organizations which have supported NGAP

States / Regulatory Authorities



International Organizations



Education / Training Providers

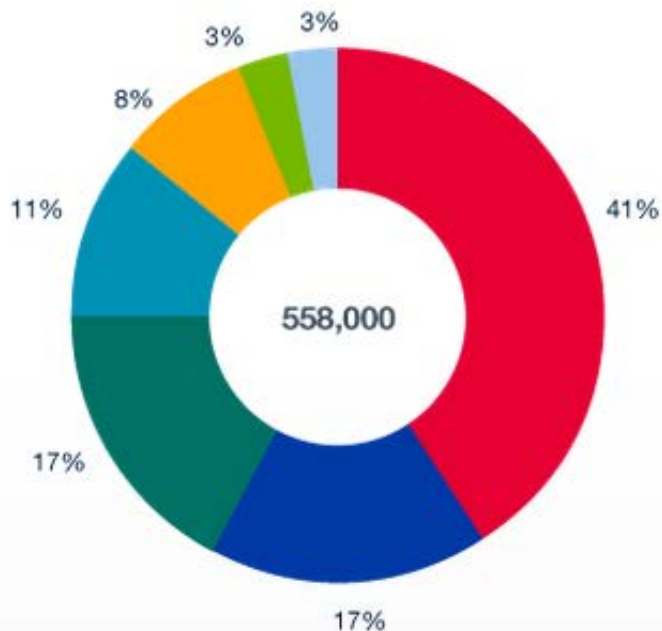


Industry/Others





New Pilots by Region 2015-2034

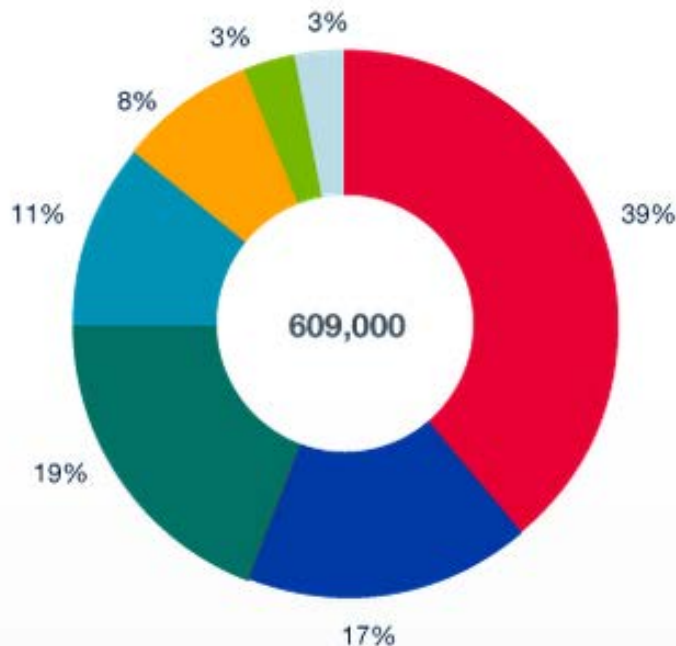


Asia Pacific	226,000
Europe	95,000
North America	95,000
Middle East	60,000
Latin America	47,000
CIS	17,000
Africa	18,000
World Total	558,000

<http://www.boeing.com/commercial/market/long-term-market/pilot-and-technician-outlook/>



New Technicians by Region 2015-2034



Asia Pacific	238,000
Europe	101,000
North America	113,000
Middle East	66,000
Latin America	47,000
CIS	22,000
Africa	22,000
World Total	609,000

<http://www.boeing.com/commercial/market/long-term-market/pilot-and-technician-outlook/>



Next Generation of Aviation Professionals (NGAP) Outreach

- ICAO has established a quarterly NGAP newsletter
- Promote outreach activities around the world
- Share best practices for attracting, educating and retaining the next generation



SHAESTA WAIZ – PROMOTING THE IMPORTANCE OF STEM EDUCATION

- Dream Soar at NBAA
- Youth Aviation Forum (YAFA) in Cameroon
- Aviation Discovery
- KAU Summer Study
- ALPA and WMU partner
- AABI AVED in Atlanta
- WATS 2016 supports NGAP Outreach meeting Orlando, FL

NGAP OUTREACH NEWS JANUARY 2016

The Next Generation of Aviation Professional Outreach Campaign Takes Flight with Around the World Outreach

Shaesta Waiz of Dreams Soar organization is inspiring women worldwide to pursue STEM education through aviation. Shaesta, the first civilian female pilot from Afghanistan, will team up with inspiring women from around the world and together, they will host outreach events at most of the stops along the route. Her solo flight, in her Beechcraft Bonanza is scheduled to launch June 2, 2016 from Daytona Beach, Florida and will include approximately 33 stops in 5 continents. Dreams Soar debuted the Beechcraft Bonanza aircraft (N364ER) on January 28, at the upcoming NBAA Regional Forum in West Palm Beach, FL. Shaesta flew the Bonanza directly from San Diego, CA into West Palm Beach exclusively for NBAA... For more information on her **Dreams Soar Initiative** check out her website:

www.dreamssoar.com



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DREAMS SOAR

GLOBAL SOLO FLIGHT FOR STEM

*Inspire a new and diverse generation of Science,
Technology, Engineering, and Mathematics (STEM)
professionals and pilots.*



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MY MISSION IS TO BE THE YOUNGEST WOMAN TO
FLY SOLO AROUND THE WORLD — Shaesta Waiz



DREAMS SOAR AT ICAO





Global Solo Flight for STEM

Pilot Shaesta Waiz in Beechcraft Bonanza





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<https://www.youtube.com/watch?v=ndwdembHMUY>



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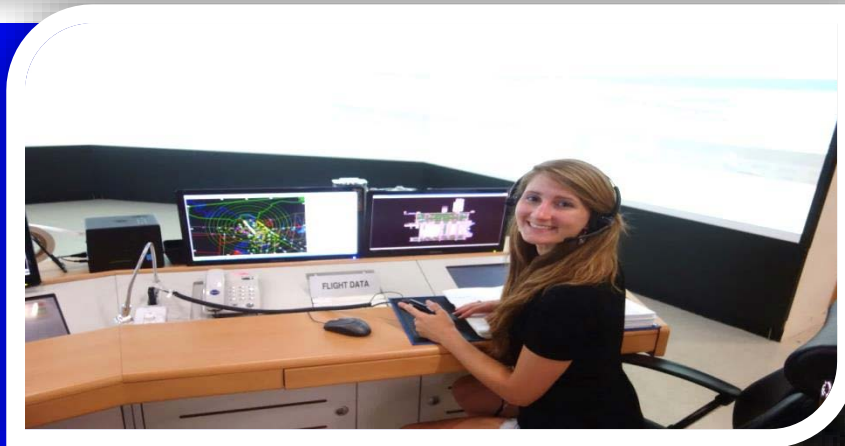
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International Summer Program

Korean Aerospace University
Summer Program







Korea Aerospace University

International Summer Program Faculty-led Program



KAU ISP FACULTY-LED PROGRAM

Korea Aerospace University launched the International Summer Program in 2009 to elevate its standard of education and to become one of the most competitive aerospace-specialized universities in the world. The Faculty-led Program is designed to foster cooperation between Korea Aerospace University (KAU) and its partner universities. In this program, faculty members and students can come together to the KAU International Summer Program (KAU ISP). The faculty member can deliver a course(s) of their interest to both their home university students, KAU students, and other international students participating in KAU ISP. By enrolling together, faculty members and students can take advantage of benefits such as tuition reduction. Please join us this summer and have unique experience of teaching and learning in Korea.

ELIGIBILITY

- Over 3 year teaching experience
- Master Degree or higher
- Currently teaching full time at higher education institution
- Able to accompany a minimum of 5 students
- Overseas teaching experience preferred



BENEFITS

- Remuneration (USD \$3,500)
- Round-trip Airfare
- Free Accommodation
- Student Mentoring Incentive
- Free Cultural Activities

2016 KAU ISP DATES

- Length of Program: 4 weeks
- Date: June 27, 2016-July 22, 2016
- Class Hours: 3-4 Days a week(2-4 Hours a



**EDUCATE THROUGH
COMMUNICATION ...
CREATING OPPORTUNITIES
FOR YOUNG AVIATION
PROFESSIONALS**





The first campaign initiative, the *Heart of Aviation Explorer*, has brought aviation to schools, industry events and community spaces



- Reached out to over 27,000 visitors so far
- 70% of visitors reflected that the bus has increased their knowledge and interest in aviation
- Partners include Singapore Airlines and Changi Airport





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NGAP Outreach Presentations



AVIATION EXPO / CHINA 2015 (16th EVENT)

32 YEARS OF DEVELOPMENT AND INNOVATION

China National Convention Center , Sept 16-19, 2015



English



Chinese

289天 10时 23分 5秒

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[ABOUT EXPO](#)

[EXHIBITORS](#)

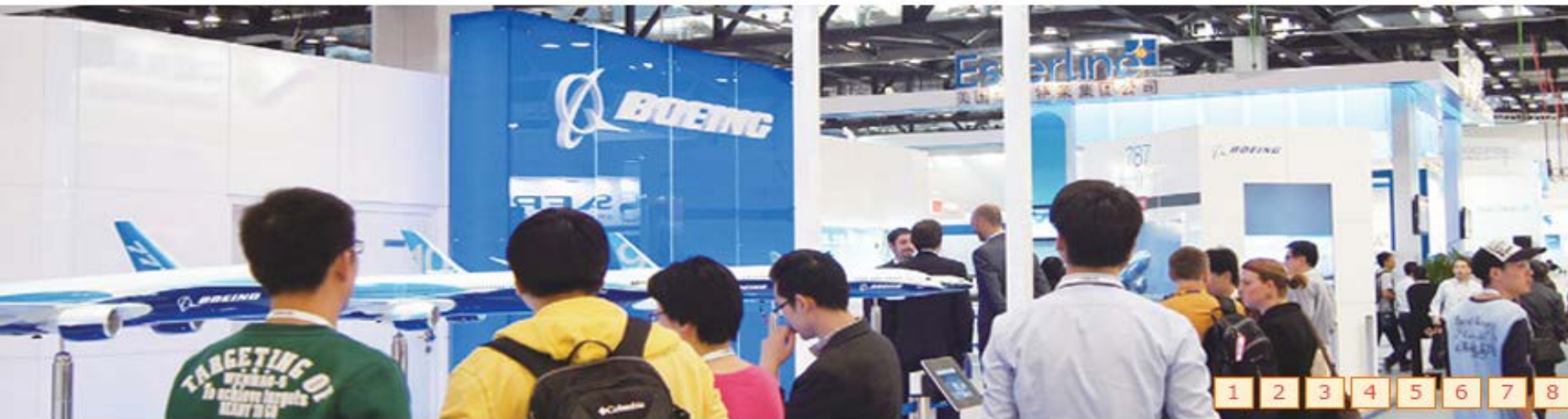
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Overview

The European Airline Training Symposium 2015

The leading aviation training event for Europe, the Middle East and Africa

3rd - 4th November at DoubleTree by Hilton, Warsaw, Poland







5th China
**Aviation Training
& Education
Summit 2015**
2015第五届中国航空培训及教育峰会

**TRAINING
THE NEW
GENERATION** 培训新一代

APRIL 9th-10th 2015
SHANGHAI CHINA

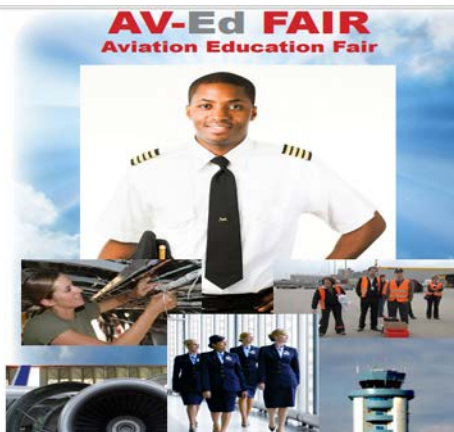


Africa Aviation Awareness





Other activities



There are two types of collegiate aviation programs: those that are AABI-accredited, and those that will be.

AABInternational
Aviation Accreditation Board International
3410 Skyway Drive
Auburn, AL 36830

INSPIRE-MENTOR-EMPOWER



YAAPA

AVIATION DAY 2015-2018

TO ENSURE NO COUNTRY IS LEFT BEHIND

"Education is the most powerful weapon which you can use to change the world."
Nelson MANDELA

ABOUT THE FOUNDER



Fadimatou NOUTCHEMO SIMO started her career in aviation in 2010. Like many young Africans, she never thought about obtaining a career in the aviation and aerospace industry. With her newfound passion, she advocates for the African Aviation and Aerospace Industry, and wants to make a change by educating young Africans about careers in this industry. Her hope is for them to learn more and find successful jobs in this field. She says "there is no age to learn and become competent in what you like, but it is all about getting the right information to your career path and inspiring young generations of future leaders."

WORD FROM THE FOUNDER



INTERNATIONAL CIVIL AVIATION ORGANIZATION
A United Nations Specialized Agency



AFRAA

Webmail Login

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Overview



The World Aviation Training Conference and Tradeshow is the world's largest meeting of aviation training professionals. WATS is an independent and impartial conference alongside the sector's biggest tradeshow.

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KEYWORD [➤](#)
Enter a keyword to searchFOLLOW US
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The World's Largest
Gathering of
Aviation Training
Professionals

April 18-21 2016
Orlando, Florida, USA





NGAP Today

- Objective to support outreach for attracting youth by promoting career opportunities, from elementary school to university, into aviation education and professions, at global, regional and national levels – e.g. STEM
- Resourced by volunteers from partner Int. Orgs, States, service providers, industry, academia, and training institutions – no dedicated ICAO staff nor budget allotted
- Currently managed by ANB – expanding to all ICAO Strategic Objectives and involving ROs
- 2 working groups – Implementation and Outreach
- Outreach WG has 7 sub-groups - Communications and Promotions, Best Practices, Education Outreach and Tertiary Education Directory, Internships and Careers, Montreal Outreach and Civil Aviation Week Preparations, Resource Mobilization, and Research



NGAP Work Plan (2016 – 2017)

- Annual meeting with NGAP community
- Quarterly telcons with partners (10 Int. Orgs. Committed by formal letter to SG)
- Implementation Workshops for roll-out of ATCO and ATSEP CBT provisions (remaining deliverable planned by previous NGAP Task Force) – 2016 - 2017
- Outreach communication media/products including the NGAP web site; NGAP Newsletter; NGAP article in ICAO Training Report; collaboration with Halldale Media for Student Education and Careers in Aviation (SECA) activities at regional aviation training events in North America, Asia and Europe; sharing of NGAP best practices; awareness events - continuous
- Book with title “Introduction to International Aviation: Handbook for the Next Generation of Aviation Professionals” being written by NGAP volunteer – 2018
- Planned update of Doc. 9956 by ATB/ED once traffic forecasts have been completed - 2017
- Planned development of Index by ATB/ED for forecasting national HR needs – 2017



NGAP Tomorrow

- Unite aviation, education and labour sectors at national levels
- Regions to drive their own outreach activities, coordinated by the ICAO Regional Offices, with participation of all partners, supported by the NGAP Programme
- Update HR forecasts and develop HR planning tool
- Examine future changes in aviation human resources
- Develop future aviation HR strategies and roadmap/actions plans
- Consider mechanisms that will allow for greater mobility of Qualified Technical Personnel (QTP) – i.e. formalize cross border acceptance/recognition of qualifications/ certification



NGAP Projects Needing Resources

- Dreams Soar
- Regional ATCO & ATSEP CBT Workshops
- Global Symposium
- Global and Regional HR Forecasts
- National HR Planning Tool



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HARMONIZATION
LATIN AMERICA TRAFFIC
480,000 Technicians REGULATIONS
OCEANIA NEXT GENERATION
25,000 NEW AIRCRAFT 2028
35,000 Pilots INDIA ^{ATC} CHINA OUTREACH
FLIGHT ATTENDANTS ICAO
AVIATION INDUSTRY GEN Z
NORTH AMERICA NGAP WORLD POPULATION
CARIBBEAN GEN Y PILOTS
POPULATION SHIFT
CRITICAL NEED



**We need
your
help!**



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THANK YOU!