



# GLOBAL NGAP OUTREACH

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## NGAP Outreach Newsletter

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## ICAO's Global Aviation Training and TRAINAIR PLUS Symposium

(11-13 April 2017)

ICAO's Global Aviation Training and TRAINAIR PLUS Symposium was held in Addis Ababa, Ethiopia, from 11 to 13 April 2017, under the theme "Together, Enhancing Training to Build Capacity". The Symposium was hosted by the Ethiopian Aviation Academy of Ethiopian Airlines, and was attended by 450 participants.

The purpose of the Symposium was to provide participants an international forum to exchange best practices in aviation training through the use of effective and

innovative tools and practices. It also provided an opportunity to discuss how to engage the next generation of aviation professionals (NGAP). During the Symposium, ICAO moderated a panel on attracting, educating, training and retaining NGAP. Presentations by the Singapore Aviation Academy, United States Federal Aviation Administration's Academy, Romanian Aeronautical Association and Sri Lanka Civil Aviation Authority helped provide a global perspective on how various States and organizations are involved in NGAP activities and programmes.





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One of the major outcomes of the Symposium was the agreement by participants to promote NGAP at training and TRAINAIR PLUS events, and to collaborate to help the aviation community better understand how training can be used as a vehicle to engage NGAP.



Lori Brown, NGAP Outreach Chair

## ICAO NGAP Outreach presented at the World Aviation Training Summit (WATS), “Aviation Simulation and Training: A Critical Safety-Driven Industry Prepares for the Future”, Orlando, Florida, May 2-4, 2017

The aviation training industry continues to deal with enormous growth prospects, while embracing new aircraft technologies and dealing with a challenging business and demographic environment. As ever, the challenge is to embrace training “best practices”, maximize personnel transfer-of-training, and achieve optimum human performance and operational safety. WATS 2017 looked into all of these aspects through five conference streams, focusing on different areas of the aviation industry. The theme for this year’s conference was “Aviation Simulation and Training: A Critical Safety-Driven Industry Prepares for the Future.” The event opened with the keynote presentation from Captain Miguel Marin, Acting Chief, Operational Safety Section, ICAO, on “The Future of ICAO PANS-Training”.

Our NGAP Outreach Chair, Lori Brown, also presented in the Regional Airline Training and World Airline conference streams to unveil “The Next Generation Classroom with Augmented Reality” and “Augmented Reality Solutions in Aviation Training”, along with Dr. Suzanne Kearns who lead the Special Panel “Harnessing the Power of New Learning Environments”, which focused on the key strategies known to increase learning and retention.

The event was a huge success with record number of participants.

The NGAP Outreach and International Pilot Training Association (IPTA) meetings were held in conjunction with WATS.



**Shaesta Waiz**

Solo round-the-world flight for the need for greater access for girls and youth globally to (STEM) education

## Dreams Soar Launched at Daytona Beach International Airport on (May 13, 2017)

The Dreams Soar solo round-the-world flight was launched on May 13, 2017, with its founder and pilot, Shaesta Waiz. Approximately 100 donors, partners and supporters witnessed this incredible and historic flight launch at Daytona Beach International Airport.

The Dreams Soar route includes 30 stops and 18 countries.

On 15 May, Shaesta touched down in Montreal at Pierre Elliot Trudeau International Airport. She was greeted by a team of ICAO VIPs and the senior management of the Stratos Aviation Flight School. ICAO is proud to be a main Dreams Soar supporter.

Shaesta will be the youngest woman in history to embark on a solo round-the-world flight. The mission

of this amazing journey is to partner with strong female role models at the different stops along the route and together, share and promote the importance of STEM (Science, Technology, Engineering, and Mathematics) education. Only 3-5% of commercial pilots globally are women today. With this solo flight Shaesta hopes to inspire a new generation of girls to become pilots, but also to help them better understand how important a STEM education is to making their career dreams a reality.

Follow Shaesta on this incredible journey at <http://dreamssoar.org>



## Youth Aviation Conference – Organised by Runway Aviation Club (RAC)

A little bit of background on Runway Aviation Club (RAC)

It all began with a young ambitious boy, Okyere Gyamena Obed, who had a high interest in aviation, and his absolute determination to make his mother proud. He believed that through unity and hard work dreams can be fulfilled. Okyere Gyamena Obed is now a final year Communication student at Central University in Ghana. He is also a pilot student at CTK Flight Academy. His dream of becoming a

pilot and to change the lives of the Ghanaian youth, through aviation, fuelled his quest to establish the Runway Aviation Club (RAC). With his background in communication studies, he has established an aviation media platform called AviateGhana. This online platform disseminates aviation information to the general public. Okyere believes that with a little help, hard work, commitment and good values, anyone can achieve his/her dream.

The Runway Aviation Club seeks to encourage young people who have the passion, interest, enthusiasm and determination to embrace a career in aviation either as pilots,

flight engineers, flight attendants, maintenance technicians, etc. The Runway Aviation Club's vision is to create a platform for African individuals who have an interest in aviation and to spring out the spirit of aviation in Africa through motivation, determination and cultural values.

RAC's mission

- To provide a platform for their members that assists them in starting a career in aviation;
- To educate their members on available routes into the industry;



- To encourage their members to self-educate themselves where possible; and
- To approach Ghanaian aviation industry and investigate future opportunities for members to start a career as pilots, flight attendants, engineers, in flight operations, ground operations, in administrative positions and elsewhere.

### About the Conference

Once a year, the Runway Aviation Club organizes the Ghana Youth

Aviation Conference (GYAC). This is a single day event, held in Ghana for individuals in junior and senior high schools, in universities and for the general public.

The mission of the Conference is to introduce, guide and mentor young individuals in Ghana to the exciting world of aviation; unravelling the wonders of aviation and educational programmes. The Conference is an opportunity to bring together African aviation professionals and the younger generations to stimulate innovation, dedication, hard work and to

spark ideas for the critical role that aviation plays in the country's economy.

The Ghana Youth Aviation Conference is attended by more than 200 students/individuals and representatives from various airlines. Twelve speakers present the topics addressed during this one-day event. The Conference also hosts 20 aviation exhibitors.

For more information on Runway Aviation Club, please visit: <http://www.runwayaviation.club>

### Association Sénégalaise des Élèves pour la Promotion des Métiers de l'Aéronautique

ASEPMA, created on February 23, 2014, resulted from the gathering of Senegalese individuals who all shared a strong common passion for aviation. For many of them, their hope was to start a career in the aviation industry, which still remains unexplored by the majority of the Senegalese youth.

The Organization's main objective is to raise awareness about the aeronautical sector, predominantly among the African youth, while providing training and orienting them towards this growing field. ASEPMA strongly believes that the promotion of aviation is beneficial for the future of the



African continent. Its members are motivated by the desire to give and help out every single young person, regardless of gender and nationality.

ASEPMA is made up of young dynamic volunteers who strongly believe that they can contribute to the development of the aviation industry on the African continent.

Some of their activities include:

- "Aviation Career Day" and "International Civil Aviation Day": These two events are organized in high schools in Dakar. The objective is to expose teenagers to the numerous aviation careers. The "International Civil Aviation Day" was launched two years ago. Last year the event was held in Senegal's largest



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high school, Seydina Limamou Laye de Guédiawaye. It was a huge success and ASEPMA hopes to be able to continue offering this event on an annual basis.

- "Awakening an Alpha" (3-6 years old). The last "Awakening an Alpha" event took place on March 25, 2017, at Ker Imagination, an educational

centre in Dakar, with children aged between 3 and 6. Children and parents were introduced to the aviation world and the youngsters had a great time making airplanes out of cardboard.

- "Senegalese Aviation History Month": This is a brand new project that aims at raising awareness about the history

behind the country's civil aviation evolution with Saint-Louis (Senegal) being the city where the first nonstop flight from Toulouse (France) to Senegal occurred on May 10th, 1927.

Follow them on Facebook at: [www.facebook.com/asepmasenega](http://www.facebook.com/asepmasenega)

## SriLankan Aviation College Empowers the First Aviation District Council in Sri Lanka

The Aviation District Council was created in 2017 by the SriLankan Aviation College, the training arm of SriLankan Airlines. The main objective of the Council is to promote aviation throughout the country. This Council will guide all the schools and work hand in hand with the College for the development of aviation in Sri Lanka. In the near future this is expected to spread to the national and international levels with the guidance of the SriLankan Aviation College.



The board of the Council was appointed through interviews held at the Sri Lankan Aviation College. It consists of leaders from different school aviation clubs that operate across the country's capital, Colombo.

The Council also focuses on organizing interschool events, and all island events, in order to create aviation awareness among school students throughout the country.

## ICAO Next Generation of Aviation Professionals (NGAP) Global Summit

(October 2017 in Doha, Qatar)

The Global NGAP Summit is intended to provide a unique opportunity to promote coordination and cooperation amongst the aviation community and the education and labour sectors for the development of strategies and tools to engage and retain the next generation of aviation professionals.

Stay tuned for more information on this exciting event!

## Outreach Tools for School Children - Available for Free

Airbus : <http://www.airbus.com/galleries/goodies/index-cut-outs/>

NASA Free course material <https://www.nasa.gov/offices/education/centers/kennedy/erc/materials.html>

NASA ATC

- Smart skies free simulator and all lessons: <https://smartskies.nasa.gov/>
- Teacher materials: <https://smartskies.nasa.gov/lineup/teac.html>

RR Ages 7-11 <https://www.rolls-royce.com/sustainability/better-future/education-and-work-experience/resources-for-schools/interactive-resources-for-7-11-year-olds.aspx#wind-turbine>

RR Ages 12-19 <https://www.rolls-royce.com/sustainability/better-future/education-and-work-experience/resources-for-schools/interactive-resources-for-12-19-year-olds.aspx#journey-through-a-jet-engine>



# ICAO NGAP OUTREACH



## NEXT GENERATION OF AVIATION PROFESSIONALS

### *Meeting the Needs of Tomorrow*

Working with industry partners, ICAO launched the Next Generation of Aviation Professionals (NGAP) Programme to help ensure that enough qualified and competent aviation professionals are available to operate, manage and maintain the future international air transport system.

NGAP is a group of world-wide volunteers and partners supported by ICAO who are dedicated to assisting the aviation community in attracting, recruiting, educating and retaining the best aviation professionals worldwide.

Key objectives of the ICAO NGAP Programme:

- To raise awareness of the impending shortages of aviation professionals.
- To assist States and the aviation community in planning human resource needs.
- To meet the challenges of attracting and retaining the next generation of aviation professionals.

### ICAO Forecasts

In the next 20 years, airlines will have to add **25,000 new aircraft** to the current 17,000-strong commercial fleet.

By 2026, we will need **480,000 new technicians** to maintain these aircraft and **over 350,000 pilots** to fly them.



This is a pivotal time for ICAO Member States to attract and prepare the Next Generation of Aviation Professionals to meet the global human resource needs of the aviation community. NGAP is working to find solutions. We are excited about the possibilities and we invite you to join us:

[icao.int/safety/ngap](https://icao.int/safety/ngap)