

AWE - Aviation and Women Europe



2nd AWE Conference Varese, Italy
15th – 17th September 2006
www.aweu.org

Aviation and Women in Europe

Overview

- ✓AWE was born in 2005 and is very active
- ✓AWE is evaluating to become a European non-profit association federated to WAI - Women in Aviation, International.
- ✓AWE is aimed to promote women's presence in aviation at all levels: not only in the flight deck but in all other aviation professions and skills.
- ✓AWE needs your contribution to grow: opinions, information, facts and anything useful to increase female presence in aviation... and aerospace!

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Long-term goal

- ✓Coordinate promotion regarding women and their work in aerospace sector
- ✓Help spreading aviation knowledge and culture among women
- ✓Create a source of information and professional opportunities for women in European aerospace

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How I got here



- ✓ In 2000 I started flying airplanes
- ✓ I have attained the licenses available both sides of the Ocean up to JAA ATPL frozen and FAA CFI ASEL. I also fly paragliders and ultralights.
- ✓ 2005 ISA+21 scholarship recipient for FAA CFI
- ✓ While training I realized that something was to be done to make it easier for women in reaching valuable results in aerospace, not only in the flight deck but also in aviation-related professions. For this reason I joined and volunteered in several associations (WAI, 99s, WCA, AOPA, NAFI) but noticed that everything done was too targeted to USA, while Europe was almost silent on the issue.

Recent past

- ✓ Trying to promote the whole theme on the other side of the Atlantic in 2005 I founded AWE - Aviation and Women in Europe www.aweu.org
- ✓ In June 2005 I organized the 1st Aviation and Women in Europe Conference in Trento (Italy), hosted by the Caproni Aviation Museum.
- ✓ Many inspiring aviation professionals were present:
Trish Beckman, the Boeing Co.
Liz Jennings-Clark, Transavia Airlines
Yvonne Ward, Bath University
Robin Lamar, AWAM
Georgina Hunter-Jones, Helicopter Life Magazine
Sevda Tantan, Turkish Airlines
Michelle Lavagna, Italian Aerospace
and special guest Angelo D'Arrigo "birdman" dedicating his over 15000 hours of thermals in a hang glider to science

Research – Yvonne Ward Bath University



More Women in Aviation Maintenance:

A Means of Reducing Maintenance-related Accidents & Incidents?

- *Is it possible that employing more women would reduce accidents and incidents?*
- *UK Statistics*
 - Women in manufacturing 25%
 - Women in engineering manufacturing 20%
- *US Statistics*
 - Women in aerospace 17%

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Research Gender Differences

- Gender differences with regard to violations
- Men tend to commit more violations than women, especially young men
- Increase in women throughout maintenance organisations – decrease in incidents and accidents???
- Existing research based on car driving behaviour – valid for aviation maintenance?
- Women more prone to other types of error?

Skill shortages

- UK CAA suggests:
 - “recruitment of maintenance talent from non-traditional groups such as women”

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Research Issues

- No specific efforts being made to attract women into the industry
- Wider human factors issues
 - e.g. physical capabilities and limitations
- Current culture within maintenance organisations
 - Possibly unattractive to women
 - Working hours and conditions

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Research Conclusion

- Maintenance error has contributed to high profile accidents and maintenance human error increasing
- High proportion due to routine violations
- Skills shortages a long-term threat to flight safety
- Employment of more women has the potential to:
 - Reduce skills gaps
 - Prevent staff shortages
 - Reduce the potential for violations
 - Reduce the potential for maintenance-related accidents and incidents

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Research Recommendations

- Conduct research on gender differences with respect to human error and violations, specific to aviation maintenance
- Develop policies aimed at attracting women into the aerospace and aviation maintenance sectors
- Collect statistics related to the employment of women in aviation maintenance and aerospace

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Welcome Dinner and Banquet

1st AWE Conference



men in Europe

Social Events



a visit to the winery
and G. Caproni Museum



AWE 2005 Conference Speakers



Aviation and Women in Europe

AWE Conference - General Session

Europe: Ariane

Ariane 5 Generic

Since: 1996

P/L mass: 6700 Kg- Orbit: GTO

P/L mass: 10000 Kg- Orbit:SSO

P/L mass: 18000 Kg- Orbit: ISS-transfer

P/L mass: 4450 Kg - Orbit: MTO

Launch mass: 746 tons

Launch thrust: 11.4 MN

Launchers: State of the art

Ariane 5 ECA

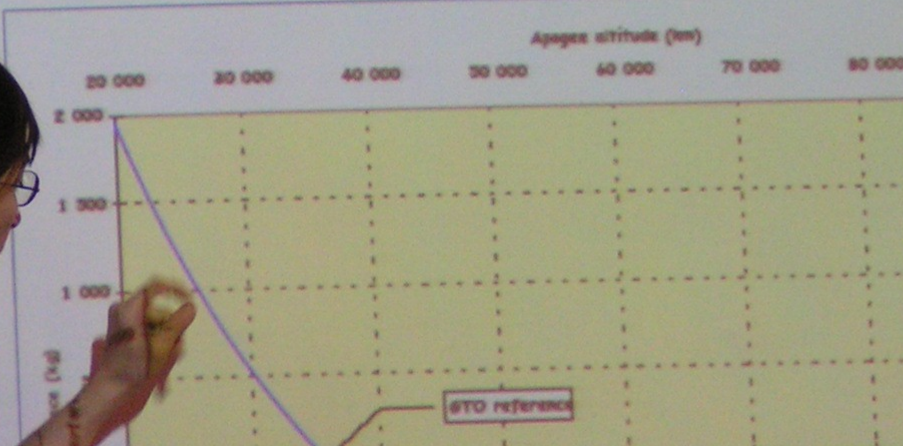
Since: 2005

P/L mass: 9600 Kg - Orbit: GTO

Launch mass: 777 tons

Launch Thrust: 15.36 MN.

Launch Price \$: 180.00 mill



Aviation and Women

Volar V.I.A. - Joining University and Sport

- Objectives of the Milan University and FSIVA:
 - Create, draw, make and FLY a light sport aircraft (basic aerobatics and pylon racing)
 - Create a FORMULA sport to pass on to other universities (see “Formula Student” auto mobiles)
- How are we planning to do this?
 - Create the aircraft under the FCAP – Italian EAA Chapter
 - See Italian rules and regulations: ENAC Circ. 15/C
 - Aircraft with Special Airworthiness Certificate (CNS)
 - Test Flying the aircraft
 - To compete in races: Basic aerobatics & Pylon races
 - Giving the university students possibility to fly
 - Obtain the Private Pilot License (PPL-A) with financial help

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Volar V.I.A. - Joining University and Sport

- How are we organised?
 - Over several years
 - Various possibilities for thesis
 - 15 -16 students per academic year
 - Under the guidance of FCAP – Italian EAA Chapter
 - With the help of experts in
 - Rules and Regulations
 - Construction techniques
 - Aircraft Documentation
 - Aircraft Certification and Maintenance
 - Pilotage and sport activities

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AWEsome Airshow



Next Steps

- ✓The 1st AWE – Aviation and Women in Europe Conference was a success with ladies from Europe and the USA presenting their activities and discussing how to do more and how to better promote female presence in aviation.
- ✓The 2nd AWE – Aviation and Women in Europe Conference will be held 15th - 17th September 2006 in Varese, Italy, “The Province with Wings”.

Aviation and Women



AWE Potential

- ✓AWE is aimed to promote women's presence in aviation at all levels.
- ✓AWE is evaluating to become a European non-profit association federated to WAI - Women in Aviation, International.
- ✓AWE - the main source for the aviation industry "made in Europe" as well as a powerful "food for thoughts" factory.
- ✓AWE needs your contribution to grow: opinions, information, facts and anything useful to increase female presence in aviation... and aerospace!

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Invitation

- ✓ We are looking forward to seeing you at the 2nd AWE - Aviation and Women in Europe Conference 15th – 17th September 2006 “Reaching New Heights of Success”
- ✓ It will be held in Villa Caproni di Taliedo in Varese, Italy, the province where most of the Italian aerospace industry is concentrated, the Province with Wings.
- ✓ We are sure you will enjoy your stay in Italy!
- ✓ Tours of Aerospace Plants and the Province are available
- ✓ See myself and www.aweu.org for more details



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AWE 2006 – "Reaching New Heights of Success"

(temporary program)

- Aerospace: Mission, The Moon
- Boeing's 787 Dreamliner Airplane. "A New World-Class Standard"
- Volar V.I.A. - Joining University and Sport
- European General Aviation Plans for the Future - IAOPA
- Future of Private and General Aviation in Europe? Possible solution: An Airpark
- General Aviation eg: fractional jet ownership and private aviation – NetJets Europe
- Various aspects of management in aviation - eg: airport, airline, financial
- Successful Networking. "How to get where you want to go in your career" or "Successful networking and taking your career to new heights"

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Too bad it's over ... see you at the 2nd AWE Conference in Varese, Italy in September!



AWE – Aviation and Women in Europe

Promoter: Michelle Bassanesi

www.aweu.org

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