



Università degli Studi di
Napoli "Federico II"



Dipartimento di
Ingegneria Aerospaziale



EWade
European Workshop
on Aircraft Design
Education

INTERNATIONAL WORKSHOP 24–27 May 2011, Naples, Italy

University of Naples "Federico II" · Faculty of Engineering

WWW.DIAS.UNINA.IT/EWADE2011

SPONSORS:





Origin of the Participants

30 Participants
18 Cities
10 Countries

EWADE 2011
10th European Workshop on
Aircraft Design Education
24–27 May 2011, Naples, Italy



The *European Workshops on Aircraft Design Education* have formed a forum for academic staff active in aircraft design education at European Universities.

The first European Workshop on Aircraft Design Education was held in Madrid in 1994 and was hosted by the University of Madrid (ETSIA). Since 1994 EWADE is known as an affectionate community of people with similar interests. One of the founder was E. Torenbeek, famous aircraft designer. Here is the list of all past EWADE workshops:

- 10th Workshop: 2011 [Naples](#)
- 9th Workshop: 2009 [Sevilla](#)
- 8th Workshop: 2007 [Samara](#)
- 7th Workshop: 2005 [Toulouse](#)
- 6th Workshop: 2004 [Brno](#)
- 5th Workshop: 2002 [Linköping](#)
- 4th Workshop: 2000 [Turin](#)
- 3th Workshop: 1998 Bristol
- 2nd Workshop: 1996 Berlin
- 1st Workshop: 1994 Madrid

EWADE Objectives:

- To allow European lecturers concerned with Aircraft Design to continue their active collaboration;
- To discuss Aircraft Design problems as regards research and education;
- To enhance close cooperation with the aerospace industry for the two aspects mentioned above.

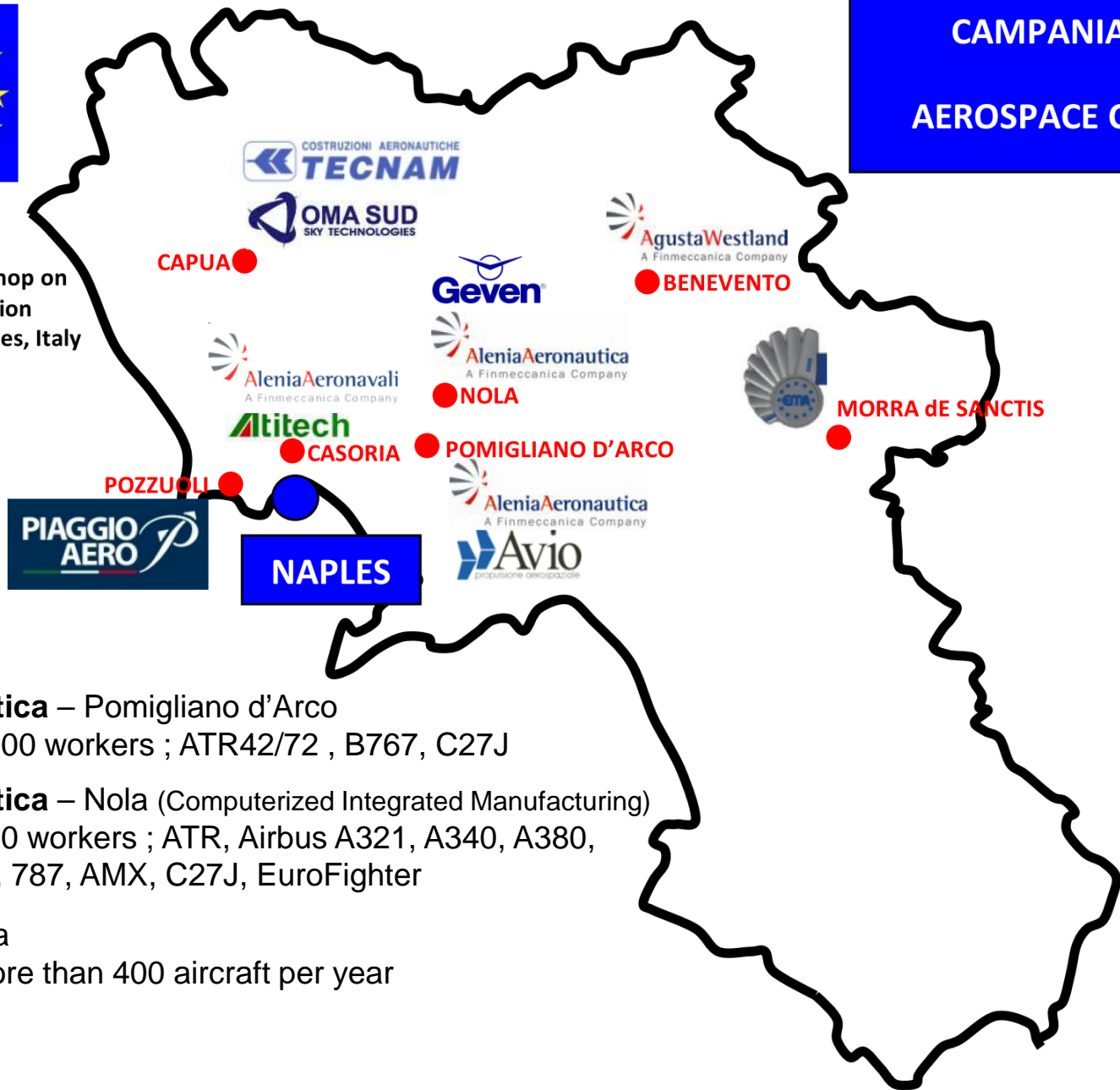
The **IMPORTANCE** OF CLOSE COOPERATION of Academic Institutions with Industries is everywhere in the world highlighted and promoted to:

- Provide basic and applied research activities for the Industry to improve their products
- To find crucial financing for the University (for both research and education, i.e. master and PHD programs)
- To address research activities towards Industrial needs and exploit these results with an economic advantage for the country



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CAMPANIA REGION
AEROSPACE COMPANIES



Alenia Aeronautica – Pomigliano d’Arco
320,000 mq – 2600 workers ; ATR42/72 , B767, C27J

Alenia Aeronautica – Nola (Computerized Integrated Manufacturing)
525,000 mq – 900 workers ; ATR, Airbus A321, A340, A380,
Boeing 767, 777, 787, AMX, C27J, EuroFighter

Tecnam – Capua
160 workers ; more than 400 aircraft per year



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**Aeronautical
Academy**

POZZUOLI



Second University



University Federico II

NAPLES



**Italian Aerospace
Research Center**

CAPUA



University of Sannio

BENEVENTO

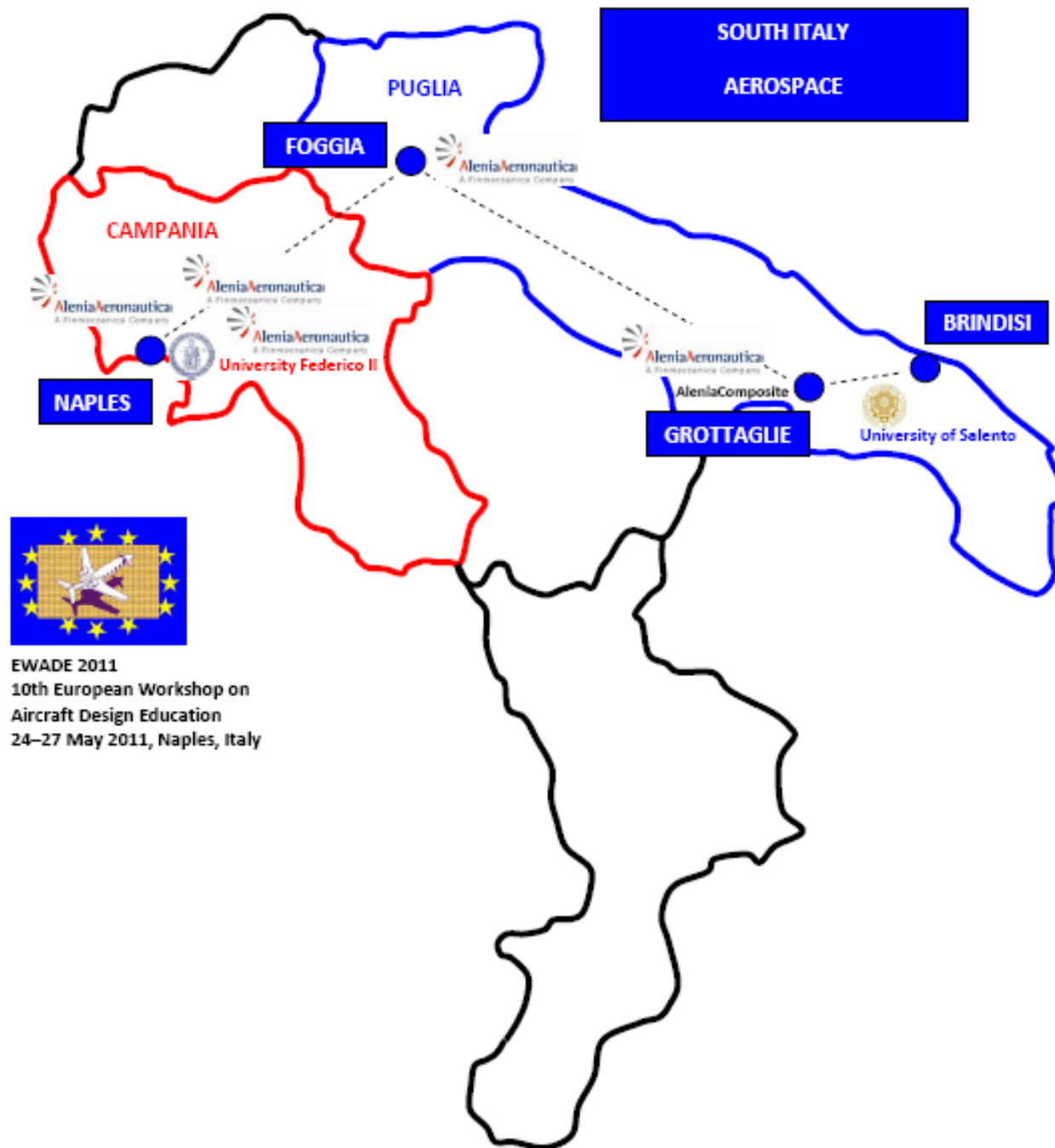


University of Salerno

SALERNO

**CAMPANIA REGION
AEROSPACE SCHOOL AND
RESEARCH CENTER**

University of Naples “Federico II”
Aerospace Engineering Course :
About 250 students per year



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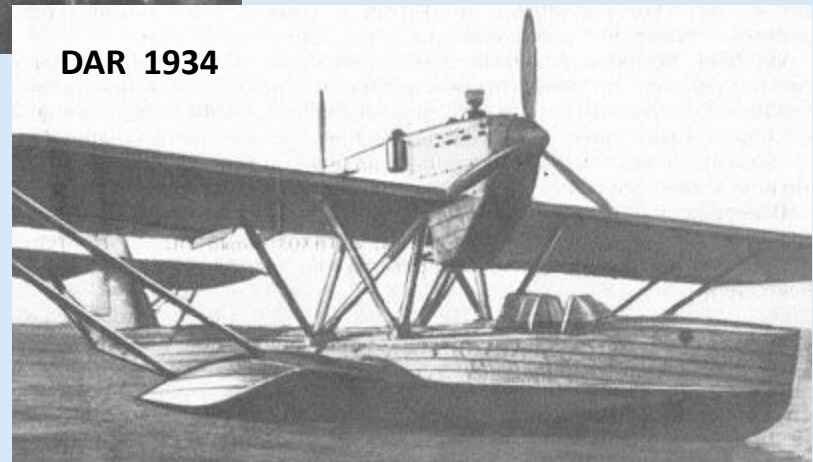
ITALIA AIRSHIP – GEN. UMBERTO NOBILE

CAPRONI Ca3 Bomber - 1st World war



Roberto Oros di Bartini (1897-1974)

DAR 1934

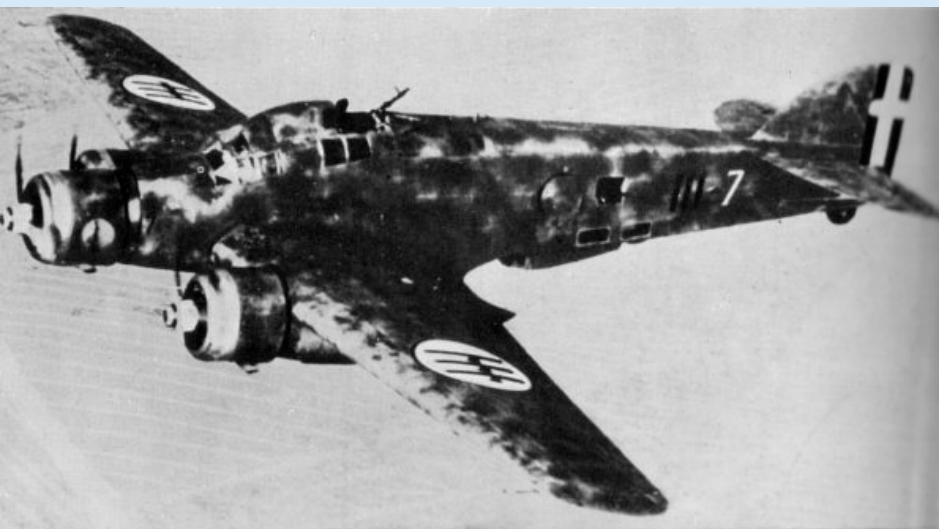




SAVOIA MARCHETTI – SM 55 - II World War



FIAT CR 42 - II World War



**SAVOIA MARCHETTI – SM 79 *Sparviero* - II World War
Alessandro Marchetti**



**SAVOIA MARCHETTI – SM 81 - II World War
Alessandro Marchetti**



FIAT G91 – 1957 PAN (National Aerobatic Team) 1955-1960
Designer : Giuseppe Gabrielli



AerMacchi MB339 - PAN – Trainer

Designer : Ermanno Bazzocchi



AMX - AerMacchi – Aeritalia - Embraer 1984



AerMacchi SF260 Trainer - 1966
Designer : Stelio Frati (1919 – 2010)

Panavia TORNADO 1975



EFA EUROFIGHTER Typhoon 2004



AerMacchi SF260 Trainer - 1966
Designer : Stelio Frati (1919 – 2010)



P68 Partenavia (VULCANAIR) - 1968

Designer: Prof. L. Pascale



ATR 42/ 72 Regional Turboprop

Aeritalia – Aerospatiale 1984



AERITALIA G222 - Designer : G. Gabrielli



ALERIA Aeronautica C27J Spartan

Tecnam Light Aircraft – L. Pascale

Tecnam P92 J - 1992
Designer: Prof. L. Pascale



Tecnam P2002 *Sierra*
Designer: Prof. L. Pascale



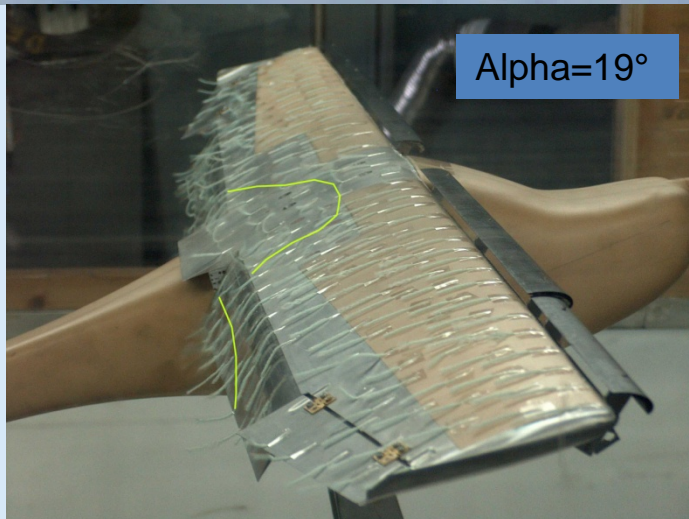
Tecnam P2006T - 2006
Designer: Prof. L. Pascale



G97 Spotter - Prof. V. Giordano 1997



**Easy Fly – Collaboration with Aerosoft
Coiro-Nicolosi 2003**



Wind-Tunnel Trimmed $CL_{max}=3.1$

OMASUD SkyCar (5 seats) - 2009

Designer: G. Verde



SKY-X (ALENIA AERONAUTICA)

UAV Sky-X Alenia



Piaggio P180 Avanti – Executive 1986-1990

Designer: A. Mazzoni

PARTNERSHIP IN CIVIL TRANSPORT AIRCRAFT

Airbus A380



Boeing 787



SUKOI – Alenia SUPERJET - 2010



Opening day conference

RESEARCH AND TECHNOLOGY IN AIRCRAFT DESIGN THE ROLE OF ITALIAN INDUSTRY

25 May 2011, 9:00–14:00

Centro Congressi, via Partenope 36, Napoli



9:00 – 10:00

Greetings from representatives of the institutions and introductory talks

prof. F. Marulo, *Head of Department Aerospace Engineering*

prof. A. Moccia, *Dean of Degree Course in Aerospace Engineering*

prof. L. Lecce, *Full Professor of Aerospace Structures*

SPONSORS:

