

**GENERAL PROGRAM OF AIDAA2015
PROVISIONAL VERSION
TORINO, 16 – 19 NOVEMBER 2015**

AESA PRE-CONFERENCE EVENT – MONDAY, 16 NOVEMBER VENUE: POLITECNICO DI TORINO – AULA MAGNA	
	<p>The Aerospace Engineering Students' Association (AESA) has organized a pre-conference day with plenary lectures for students. The participation to this event is free of charge and open to the general public.</p> <p style="text-align: center;"><i><u>New Space Challenges: Innovations and Projects for the Future</u></i></p>
08:30	<p style="text-align: center;">Paolo Musi, Thales Alenia Space Italy <i>Scientific missions recent achievements and perspectives</i></p>
08:50	<p style="text-align: center;">Franco Fenoglio, Thales Alenia Space Italy <i>Robotic and human exploration, key features and milestones</i></p>
09:10	<p style="text-align: center;">Lorenzo Casalino, Politecnico di Torino <i>Space propulsion: How to get to your destination</i></p>
09:35	<p style="text-align: center;">Sabrina Corpino, Politecnico di Torino <i>Next generation CubeSats: a new paradigm for space exploration and science missions</i></p>
10:00	<p style="text-align: center;">Emanuele Pensavalle, Aviospace <i>Aviospace, the Italian subsidiary of Airbus Defence & Space</i></p>
10:30	BREAK
11:00	<p style="text-align: center;">Filomena Iorizzo, Argotec <i>Argotec: an alternative approach for developing space technologies</i></p>
11:30	<p style="text-align: center;">Giuseppe Sarri, ESA <i>Gaia and JUICE: two missions of the European Space Agency science program</i></p>
12:15	<p style="text-align: center;">Adriano Calvi, ESA <i>Spacecraft flight loads, design loads and test loads. The three sides of the same coin!</i></p>
13:00	END

DAY 1 – TUESDAY, 17 NOVEMBER VENUE: POLITECNICO DI TORINO							
07:30	REGISTRATION						
08:30	WELCOME AND OPENING CEREMONY – AULA MAGNA						
08:50	PLENARY TALK – Aldo Frediani, Università di Pisa – AULA MAGNA <i>IDINTOS: the first prototype of an amphibious PrandtlPlane-shaped aircraft</i>						
09:20	PLENARY TALK – Giuseppe Davì, Università di Palermo – AULA MAGNA <i>Sulla trave multistrato in materiale composito</i>						
09:50	PLENARY TALK - Paolo Luchini, Università di Salerno – AULA MAGNA <i>Ruolo del rumore termico nella generazione di instabilità dello strato limite su di un profilo alare</i>						
10:20	COFFEE-BREAK						
	<u>Aula Magna</u>	<u>Sala Consiglio</u>	<u>Room 1P</u>	<u>Room 2P</u>	<u>Room 3P</u>	<u>Room 4P</u>	<u>Room 5P</u>
10:50 Parallel Sessions 12:55	<u>S4</u> Flight Mechanics	Round Table Europe /Russia	<u>S12</u> Space Structures	<u>S15</u> Student Session	<u>S10</u> CFD	<u>S8</u> Composites	<u>MS7</u> Green Propulsion
13:00	LUNCH						
14:00 Parallel Sessions 16:05	<u>S4</u> Flight Mechanics	<u>S13</u> Space Exploration	<u>S2</u> Materials	<u>S15</u> Student Session	<u>S10</u> CFD	<u>S8</u> Composites	<u>MS7</u> Green Propulsion
16:05	COFFEE BREAK						
16:30 Parallel Sessions 18:10	<u>S4</u> Flight Mechanics	<u>S13</u> Space Exploration	<u>S9</u> Aeroelasticity	<u>S1</u> Aircraft Design	<u>MS4</u> Drag Reduction and Flow Control	<u>S8</u> Composites	<u>S5</u> Propulsion
18:10	PLENARY TALK – Francesco Marulo, Università di Napoli Federico II – AULA MAGNA <i>Aircraft Community Noise: The Revenge of a Neglected Problem</i>						
18:40	PLENARY TALK – Carlo Barbieri, Università Ambrosiana – AULA MAGNA <i>Uomini e Macchine in Volo, Italo Balbo Aviatore</i>						
19:10	WELCOME DRINK 'APERICENA'						

TIME	DAY 2 – WEDNESDAY, 18 NOVEMBER VENUE: OVAL LINGOTTO					
07:30	REGISTRATION					
	<u>Plenary Room</u>	<u>Room AIDAA-1</u>	<u>Room AIDAA-2</u>	<u>Room AIDAA-3</u>	<u>Room AIDAA-4</u>	<u>Room AIDAA-6</u>
8:25 Parallel Sessions 10:55	<u>MS2</u> IXV	<u>MS5</u> SMAT Project	<u>S1</u> Aircraft Design	<u>MS3</u> CADET Project	<u>MS8</u> Small Satellites	<u>S8</u> Composites
10:55	COFFEE-BREAK					
11:15	CLEAN-SKY ROUND TABLE – PLENARY ROOM					
12:10	AIDAA GENERAL ASSEMBLY– PLENARY ROOM					
13:00	LUNCH					
13:50	PLENARY TALK – Amalia Finzi and Franco Bernelli Zazzera, Politecnico di Milano – PLENARY ROOM <i>Comets are nice to touch</i>					
14:20	PLENARY TALK – Giorgio Saccoccia, ESA – PLENARY ROOM <i>Technologies for Space Exploration: ESA initiatives and plans</i>					
14:50	PLENARY TALK – Paolo Gaudenzi, Università La Sapienza Roma – PLENARY ROOM <i>Sfide di meccanica strutturale nello sviluppo di un lanciatore</i>					
15:20	AWARDS CEREMONY					
15:30	COFFEE-BREAK					
15:45	ADDRESSES OF LOCAL, NATIONAL AND FINMECCANICA AUTHORITIES – PLENARY ROOM					
18:45	BUS DEPARTURE TO VILLA SASSI					
19:00	WELCOME DRINK AND BOOK PRESENTATION					
20:00	DINNER					
23:30	BUS DEPARTURE TO THE CITY CENTER					

TIME	DAY 3 – THURSDAY, 19 NOVEMBER (VENUE: OVAL LINGOTTO)					
08:00	REGISTRATION					
08:30	PLENARY TALK – Wenbin Yu, Purdue University – PLENARY ROOM <i>Mechanics of Structure Genome: a Unified Theory for Constitutive Modeling of Composite Structures</i>					
09:00	PLENARY TALK – Paul Weaver, University of Bristol – PLENARY ROOM <i>Enhanced Structural Performance using Variable Angle Tow Composites</i>					
09:30	PLENARY TALK – Adrian Mouritz, RMIT University – PLENARY ROOM <i>Multi-Functional Three-Dimensional Fibre Composites</i>					
10:00	PLENARY TALK – Eric Dautriat, Clean-Sky Executive Director – PLENARY ROOM <i>Clean Sky and the aeronautical research eco-system</i>					
10:45	COFFEE-BREAK					
	<u>Plenary Room</u>	<u>Room AIDAA-1</u>	<u>Room AIDAA-2</u>	<u>Room AIDAA-3</u>	<u>Room AIDAA-4</u>	<u>Room AIDAA-6</u>
11:10 Parallel Sessions 12:50	<u>S7</u> Helicopters	<u>MS9</u> MARIE CURIE projects	<u>S3</u> Fluid Dynamics	<u>MS1</u> Crystal Project	<u>S6</u> Systems	<u>S8</u> Composites
12:50	LUNCH					
14:00 Parallel Sessions 16:05	<u>S7</u> Helicopters <u>S14</u> Satellites	<u>MS9</u> MARIE CURIE projects	<u>S3</u> Fluid Dynamics	<u>MS6</u> STEPS2 Project	<u>S6</u> Systems	<u>S11</u> Space
16:05	COFFEE BREAK					
16:30 Parallel Sessions 18:35	<u>S14</u> Satellites	<u>MS9</u> MARIE CURIE projects		<u>MS6</u> STEPS2 Project		<u>S11</u> Space

Sessions

- S1: Aircraft Design
- S2: Materials
- S3: Fluid Dynamics
- S4: Flight Mechanics
- S5: Propulsion
- S6: Systems, Air Traffic Management and Navigation
- S7: Helicopters
- S8: Composite Structures and Materials
- S9: Aeroelasticity
- S10: Computational Fluid Dynamics
- S11: Space
- S12: Space Structures
- S13: Space Exploration and Missions
- S14: Satellites
- S15: Student Session

Mini-Symposia

- MS1: European Project CRYSTAL
- MS2: IXV Minisymposium
- MS3: Technologies for Space Debris Capture and De-orbiting: the CADET project
- MS4: Drag reduction & Flow Control
- MS5: SMAT - Sistema di monitoraggio avanzato del Territorio
- MS6: STEPS 2 - Sistemi e Tecnologie per l'esplorazione spaziale
- MS7: Green and Great: a leap of research collaboration network for more environmental friendly engine
- MS8: Small satellites for big missions: challenges and opportunities
- MS9: Innovative Training Networks and Manufacturing Technologies for Composite Structures for the Aerospace Sector: ADMACOM, COACH and FULLCOMP European projects coordinated by Politecnico di Torino