



DOTTORATO DI RICERCA IN INGEGNERIA INDUSTRIALE

Seminar on
Flight safety studies,
from international civil regulations to aircraft accidents
Ing. Giovanni Di Giorgio

Naples, April 1st 2019, X floor Piazzale Tecchio, 10:30 – 13:30

Abstract

The analysis of the effects of important aviation accidents on safety regulations and on aerospace technology is a very important topic. ICAO Annex 13 states “the sole objective of the investigation of an accident or incident shall be the prevention of accident and incident”. The examination of accident rates, the techniques for understanding the outcome of several factors on aircraft design, production and maintenance, the root cause and causal findings analysis, the impact of human factors on aviation safety, the foreign object damage prevention, the impact of survival factors in accident scenario, accidents related to weather and risks related to climate changes provide, of course, some interesting areas where aerospace and academic researchers can find ongoing challenges and emerging risks.

Lessons learned and models provided by flight safety studies will also be presented. They could be transferred and applied to other critical industrial sectors: accident models, cause and effect relationships, human performance, diagnosing and preventing methodologies meet the needs for design and management of complex industrial facilities (as example, nuclear installations).

Giovanni Di Giorgio received the Laurea degree, MSc, in Aeronautical Engineering from the University Federico II of Naples, Italy in 2000. In 2001 he joined AgustaWestland, now Leonardo Helicopters Division. His areas of interests include helicopter performance calculation and flight mission simulation by Artificial Intelligence methodologies, and flight safety. He attended and successfully completed the Aircraft Accident Investigation Course (AS101, fixed-wing aircraft) at NTSB Training Center in Ashburn, VA, USA. Moreover, he successfully completed in Italy technical courses in Advanced Human Factors, FOD prevention, Root Cause and Causal Finding Analysis, European and Italian Civil and Military Regulations. He published three books dedicated to helicopter technology.

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