

Einladung zum Vortrag

Aircraft Structural Integrity - a Complex Business

Loris Molent
Member of the Order of Australia



Datum: 26. März 2026

Zeit: 18.30 Uhr

Ort: ETH Zürich Maschinenlabor ML H44

Aviation is now inherently safe but is reliant on continual vigilance to maintain this critical goal. One example is the Aircraft Structural Integrity Program (ASIP) which summarises the large number of tasks and activities aimed at maintaining structural airworthiness. In this presentation the author will summarise some activities pursued over a 35-year career in the field. The author will briefly cover some classic aircraft failures and related structural investigations and describes the journey towards some novel and innovative tools developed to help ensure structural durability.

Wir freuen uns auf Ihre Teilnahme. Gäste sind herzlich willkommen.

Mit freundlichen Grüßen
Dr. Jürg Wildi, Präsident

About the Speaker



Mr. Lorry Molent is a highly acknowledged authority in the fields of aircraft structural integrity, structural mechanics, structural and fatigue testing, advanced composite bonded repair, aircraft vulnerability and aircraft accident investigation. He has over 280 publications in these technical areas.

Lorry is a qualified aircraft accident investigator. He has been attached to both the Australian Civil Aviation Department and the US Navy NAVAIR Structures in Washington D.C. as an airworthiness engineer and has a broad network of collaborators both nationally and internationally and has worked alongside many Air Forces and aircraft OEMs.

After 38 years in Australian Defence, in October 2020 he retired as the Defence Science and Technology Group's Head of Emerging Aircraft Structural Integrity.

In 2010 he was presented with the Minister's Award for Achievements in Defence Science, in 2016 was awarded with a Member of the Order of Australia (AM) and has numerous team achievement awards. In 2024 he was awarded IAAM' Scientist Medal in recognition of outstanding contributions to the advancement of materials and technology. In December 2025 he received during the Aircraft Structural Integrity Conference the prestigious USAF's Lincoln Award for his contributions to aircraft safety and to the structural integrity field. He is currently a consultant and trainer in Aircraft Structural Integrity, Air Accident Investigation and novel fatigue analyses methods.



Mr. Lorry Molent receiving the USAF's Lincoln Award at ASIP conference 2025 from Charles "Chuck" Babish, Senior Executive Technical Advisor Air Force Life Cycle Management Center