



1. 제 목 : Introduction to Fatigue & Damage Tolerance
2. 연 사 : Dr. Chul-Young Park (Boeing, Associate Technical Fellow)
3. 일 시 : 2017년 8월 21일 (월) 16:00-17:30
4. 장 소 : 서울대학교 301동 1319호 세미나실
5. 내 용 :

Fatigue is an important failure mode that can occur in the airplane structures. General concepts around fatigue and various design criteria against fatigue failure for airplane certification will be discussed here. In addition, the evolution of the regulatory design requirements and unfortunate accidents that lead to such evolution will be briefly talked about. This presentation also provides an overview of the structural Damage Tolerance concepts and describes how the fracture mechanics based knowledge is used in practice.

6. 약 력 :

Dr. Chul Young Park is Associate Technical Fellow of The Boeing Company and Senior Lead Engineer at Boeing Commercial Airplanes (BCA) in Everett, Washington. He is responsible for developing new structural analysis methods, characterizing new materials and enabling new manufacturing methods such as additive manufacturing for BCA airplane programs. Outside regular work, he teaches a graduate level class in Aeronautical Engineering department at University of Washington.

Prior to joining Boeing, Dr. Park worked as an aerospace engineer at Eclipse Aviation where he was involved with developing an innovative manufacturing method called Friction Stir Welding (FSW) to enable automated rapid production. Before joining Eclipse, he worked on a military program as a structural engineer to design and build T-50 aircraft which is now one of the final two contenders to the US Air Force trainer acquisition program.

Dr. Park received his Doctorate Degree from Purdue University and Master's and Bachelor's Degrees from Korea Advanced Institute of Science & Technology (KAIST). He currently serves on NASA Advanced Composite Research consortium, CMH-17 Composite Materials Handbook working groups, and Additive Manufacturing steering groups in ASTM and SAE.

7. 문 의 : 기계항공공학부 윤군진 교수 (☎ 880-8302)

