

BIOGRAPHICAL SKETCH

Paolo Feraboli

Department of Aeronautics and Astronautics
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Seattle, WA 98195

Education

University of Bologna, Italy B.S./ M.S. Mechanical Engineering	2002
University of California, Santa Barbara Ph.D., Mechanical Engineering	2005

Experience

University of Washington Director, Automobili Lamborghini Advanced Composite Structures Laboratory	Oct. 2009-to date
University of Washington Assistant Professor, Dept. Aeronautics & Astronautics	Sept. 2005-to date
Boeing Commercial Airplanes Engineering/ Scientist	June 2007-Sept. 2007
NASA Langley Research Center, Hampton, VA Visiting Researcher	Sept. 2004-March 2005
Automobili Lamborghini S.p.A., Sant'Agata Bolognese, Italy Engineer Specialist/ Composites	Oct. 2001-July 2002

Current Research Interests

Composite Damage Resistance and Tolerance, composite crashworthiness, composite lightning strike behavior, airworthiness and composite certification methodology, low-cost out-of-autoclave composite material forms, integrated conceptual automotive design.

Selected Honors and Awards

1. Young Researcher Award for "Outstanding research and merit for young faculty", September 2010, American Society for Composites (ASC)
2. CMH-17 Appreciation Award, July 2009, Federal Aviation Administration/ MIL-HDBK-17
3. Hayashi Memorial International Award, June 2008, Japanese Society for Composite Materials
4. Ph.D. Research Award for "Outstanding student research", September 2004, American Society for Composites (ASC)
5. Student Award, September 2003, Automotive Division, Society of Plastics Engineers (SPE)

6. Selected Publications (last ten years):

1. P. Feraboli, B. Wade, F. Deleo, M. Rassaian, M. Higgins, A. Byar, "LS-DYNA MAT54 modeling of the axial crushing of a composite tape sinusoidal specimen", *Composites (Part A)*, In press doi:10.1016/j.compositesa.2011.08.004
2. P. Feraboli, H. Kawakami, F. Gasco, B. Wade, L. DeOto, A. Masini, "Recyclability and reutilization of carbon fiber fabric/ epoxy composites", *Journal of Composite Materials*, In press doi:10.1177/0021998311420604.
3. H. Kawakami, P. Feraboli, "Lightning strike damage resistance and tolerance of patch-repaired mesh-protected carbon fiber composites", *Composites (Part A)*, 42/9, 2011, pp. 1247-1262.
4. F. Gasco, P. Feraboli, J. Braun, J. Smith, P. Stickler, L. DeOto, "Wireless Strain Measurement for Structural Testing and Health Monitoring of carbon fiber composites", *Composites (Part A)*, 42/9, 2011, pp. 1263-1274.
5. P. Feraboli, F. Deleo, B. Wade, M. Rassaian, M. Higgins, A. Byar, M. Reggiani, A. Bonfatti, L. DeOto, A. Masini, "Predictive modeling of an energy-absorbing sandwich structural concept using the building block approach", *Composites (Part A)*, 41/6, 2010, pp. 774-786.
6. P. Feraboli, T. Cleveland, P. Stickler, J. Halpin, "Stochastic laminate analogy for simulating the variability in Modulus of discontinuous composite materials", *Composites (Part A)*, 41/4, 2010, pp. 557-570.
7. P. Feraboli, H. Kawakami, "Damage of carbon/ epoxy composite plates subjected to mechanical impact and simulated lightning strike", *J. of Aircraft*, 47/ 3, 2010, pp. 999-1012.
8. P. Feraboli, B. Wade, F. Deleo, M. Rassaian, "Crush energy absorption of composite channel section specimens", *Composites (Part A)*, 40/8, 2009, pp. 1248-1256.
9. P. Feraboli, "Static strength determination of laminated composite materials within the current certification methodology for aircraft structures", *Journal of Aircraft*, 46/4, 2009, pp. 1365-1374.
10. P. Feraboli, E. Peitso, T. Cleveland, P. Stickler, J. Halpin, "Notched behavior of prepreg-based discontinuous carbon fiber/ epoxy systems, *Composites (Part A)*, 40/3, 2009, pp. 289-299.
11. P. Feraboli, K.T. Kedward, "A new Composite Structures Impact Performance Assessment Program", *Composites Science and Technology*, 66/10, 2006, pp. 1336-1347.
12. P. Feraboli, K.T. Kedward, "Enhanced evaluation of the low velocity impact response of composite plates", *AIAA Journal*, 42/10, 2004, pp. 2143-2152.

Research Funding:

Research sponsored by Boeing, FAA, Automobili Lamborghini, AFOSR. Research funding to date: \$3,134,000.

Expenditures:

2011: \$ 435,262 (to April 15th)

2010: \$ 801,924

2009: \$ 501,472

Graduate Student Advising

Total number of graduate students supervised or under supervision: 10 (6 MSA/ MAE with thesis, 4 Ph.D.).