

INTRODUCTION TO COMPOSITE MATERIALS

FOR AIRCRAFT ACCIDENT INVESTIGATORS 1-DAY COURSE



DR. J RAKOW

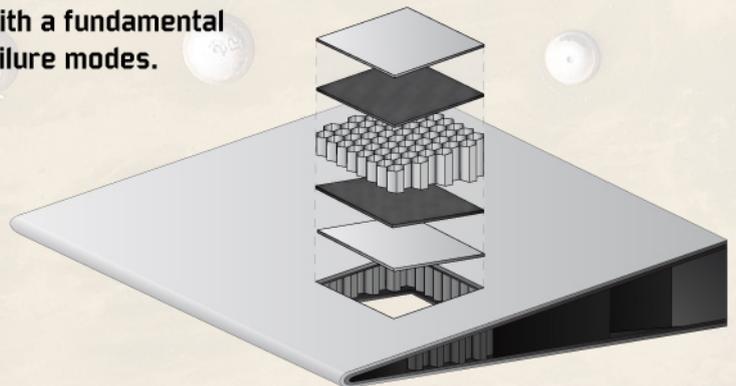
Dr. Rakow has extensive experience with aerospace structural and mechanical components, and failure analysis. He employs experimentation supplemented with theoretical and numerical analysis to identify and illustrate the root cause of failures in a wide range of hands-on industrial applications. He has published a number of scientific articles and frequently presents at national and international technical conferences. He is a contributing author to the International Civil Aviation Organization (ICAO) Manual of Aircraft Accident and Incident Investigation, having authored the chapter addressing failure analysis of composite structures. Dr. Rakow is active in the teaching community, at the University level and through professional societies.

This course provides an introduction to composite materials for aircraft accident investigators and safety professionals. It will introduce students to the very basics of composites - composition, properties, manufacturing methods, and applications - relating each of these topics to accidents, failures, and the investigation process. Students will be equipped with knowledge that will help them analyze failed composites and investigate aircraft accidents.

Case studies involving composite failures from a wide range of industries will be used throughout the course. For some case studies, students will have a chance to examine physical hardware. Students will leave this class with a fundamental understanding of composite materials and their failure modes.

TOPICS COVERED:

- What are composite materials?
- Applications throughout aviation and other industries
- Fibers and matrices
- Laminates and other constructions
- Manufacturing methods
- Characteristic failure features
- Inspection tools and techniques



WHEN: TUESDAY, MAY 22ND 2012, 8AM - 5PM

**WHERE: DOUBLETREE HOTEL AT THE CINCINNATI/NORTHERN KENTUCKY
INTERNATIONAL AIRPORT, 2826 TERMINAL DRIVE, HEBRON, KY 41048**

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SEATING IS **LIMITED... SO REGISTER EARLY!**

