



The Multi Material Lightweight Vehicle (MMLV) Project

By Jeff L. Conklin, Matthew Zaluzec, Timothy W. Skaszek David Wagner

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The desire for greater fuel efficiency and reduced emissions have accelerated a shift from traditional materials to design solutions that more closely match materials and their properties with key applications. The Multi Material Lightweight Vehicle (MMLV) Project presents cutting edge engineering that meets future challenges in a concept vehicle with weight and life-cycle assessment savings. These results significantly contribute to achieving fuel reduction and to meeting future Corporate Average Fuel Economy (CAFE) regulations without compromising vehicle performance or occupant safety. The MMLV Project presents:

- * Lightweight materials applications.
- * Body in white design and computer aided engineering
- * Engine and transmission design and lightweighting.
- * Full vehicle test results that are specific to the MMLV subsystems including crash, corrosion, durability and Noise Vibration and Harshness (NVH).
- * The Life Cycle Analysis (LCA) for the MMLV

The aluminum-intensive structure, combined with carbon fiber, magnesium, and titanium results in full vehicle mass reduction of a C/D class family sedan to that of a subcompact B-car (two vehicle segments lighter). The MMLV Project presents engineering solutions that frame materials selection and applications for the future.

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