



AUTO ALUMINUM ALERT



You might notice we've got a new look this month. Due to the current automotive environment, we decided to focus our content this month on aluminum's "green" advantages that help make vehicles more fuel efficient and environmentally friendly. Automakers are being asked to innovate and we think aluminum is a part of the overall answer. Please feel free to forward this to interested parties and watch for more environmental stories from the automotive aluminum industry.

Sincerely,

Buddy Stemple
Chairman
The Aluminum Association's Auto & Light Truck Group



ALUMINUM NEWS

Chevy Volt Rolls Out with Lighter Aluminum Wheels

The highly-anticipated Chevrolet Volt plug-in hybrid will be riding on forged aluminum wheels. Set to launch in 2010, the vehicle's [wheels are 20 percent lighter](#) than cast aluminum wheels. This will help reduce the weight of the Volt and [extend its fuel range](#).



Aluminum's Benefits Featured in Webinar

The ALTG recently hosted a [Webinar](#) highlighting the numerous benefits of automotive aluminum. The Webinar reviewed the results of past research relating to aluminum and fuel economy, emissions, safety, performance and growth. If you missed the Webinar, you can access a [recorded playback version](#) by using the link on our Web site, www.autoaluminum.org, where you can also find more information on the featured [research](#).

Green Car Journal Features Association President



An article written by The Aluminum Association's President, Steve Larkin, was featured in the December 2008 issue of *Green Car Journal*. The [article](#) goes into detail about the advantages of lightweighting with aluminum, paying particular attention to its [fuel-efficient](#) and [environmentally-friendly](#) qualities.

Aluminum Components in North American Car and Truck of the Year

The Hyundai Genesis and Ford F-150 were awarded the [2009 North American Car and Truck of the Year](#) honors, respectively, at this year's North American International Auto Show in Detroit, Mich. Both award-winning vehicles feature an aluminum hood, as well as additional lightweight components – the Genesis contains an [aluminum engine](#) and [suspension components](#), while the F-150 contains [aluminum wheels](#).

Toyota Utilizes Aluminum in 2010 Prius

The 2010 Toyota Prius which debuted at this year's North American International Auto Show, features many aluminum components to further optimize its hybrid powertrain including the hood, rear hatch, front suspension arms and brake calipers. As a result of Toyota's use of lightweight aluminum, [vehicle weight was reduced](#) and its zero to 60 acceleration rate improved to 9.8 seconds to help meet customer expectations for everyday performance.



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CALENDAR OF EVENTS

SAE Government/Industry Meeting
Society of Automotive Engineers
February 3-6, 2009
Washington, DC

Chicago Auto Show
Chicago Automobile Trade Association
February 11-22, 2009
Chicago, IL

SAE World Congress
Society of Automotive Engineers
April 20-23, 2009
Detroit, MI



FAST FACTS

Aluminum – Green Material of Choice

The use of aluminum for vehicle lightweighting can deliver a [substantial reduction in CO₂](#) and other equivalent greenhouse gas emissions over the life of the vehicle through fuel savings, even when considering the CO₂ generated by the initial production of aluminum.

Consider:

- Each pound of aluminum replacing two pounds of iron or steel in a car can save a net 20 pounds of CO₂ equivalent emissions over the typical life cycle of a vehicle.
- Aluminum is infinitely recyclable without degradation to the material.
- The aluminum industry cut factory emissions of perfluorocarbon greenhouse gases by 86 percent between 1990 and 2006.

The Aluminum Association's Auto & Light Truck Group (ALTG) communicates the benefits of automotive aluminum to help accelerate its penetration through research programs and related outreach activities. Member companies include: [Alcoa Inc.](#), [Novelis Inc.](#), [Alcan Inc.](#), [Aleris International, Inc.](#), [Aluminum Precision Products](#), [Indalex Aluminum Solutions](#), [Kaiser Aluminum Corporation](#) and [Sapa Group](#).

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