



Overview Presentation



Suppliers Partnership for the Environment (SP)



Vision and Mission



Randy Leslie, Johnson Controls, SP Chair

Vision:

Association of automobile OEMs and their suppliers working in collaboration with the US EPA and other governmental entities to identify and implement creative projects and programs that will advance environmental sustainability while providing economic value to the automotive supply chain through strategic action and engagement.

Mission:

A forum for large, medium and small service and product vendors and vehicle manufacturers to develop and share tools, information, knowledge, good practices and technical support to ensure that the suppliers' products and their processes provide environmental improvement and cost savings to SP participants.

SP Members / Liaisons



Value of SP Membership

Provides a forum for OEMs and suppliers to work together to develop projects and activities focused on environmental issues impacting the automobile supply chain through member driven Work Groups.

Quarterly meetings provide opportunities for members to network, to learn about issues and activities impacting the environment and their business operations, and identify emerging areas for action by SP.

Establishes a network for companies to share and benefit from environmental best practices, tools and resources on a North American basis.

A truly unique aspect of SP is its partnership with the EPA, which helps provide SP with topics for special projects, information, approaches and tools. More importantly, SP provides a forum for member companies and the EPA to work in collaboration to achieve common environmental goals.

SP is constantly working to identify new, innovative and more environmentally sustainable ways to enhance the viability and competitiveness of the automobile industry through the supply chain.

SP Work Groups

Chemical Issues Management

Energy and Water

Materials Efficiency

North American Collaboration

Technology and Networking





CHEMICAL ISSUES MANAGEMENT WORK GROUP

“Goodyear participates in the Suppliers Partnership for the Environment as an important means for helping us build our sustainability foundation.”

*David Woodyard, Global Manager, Sustainability,
The Goodyear Tire & Rubber Company*

CHEMICAL ISSUES MANAGEMENT WORK GROUP

Goal: Forum for discussing emerging chemical issues of potential impact to the automotive manufacturers and supply chain; creating a Materials Assessment Process to develop a common health and environmental hazard, exposure and risk screening process for chemicals in vehicle parts/processes.

Chair: David Woodyard, Global Manager, Sustainability,
The Goodyear Tire & Rubber Company

The SP Materials Assessment Strategy (MAS) Project is structured into 4 Phases:

Phase 1 – Principles and preliminary project scope

Phase 2 – Develop common risk assessment parameters and identify appropriate tools for human exposure in **vehicle interiors**

Phase 3 – Build upon Phase 2 to include environmental risks from **vehicle wear debris** (brakes, tires) or other exterior materials

Phase 4 – *Build upon Phase 3 to include health and environmental risks from **vehicle end-of-life** activities (current area of focus)*



Importance of MAS Process

- Address emerging chemical regulations and consumer concerns
 - Need for common process to address requirements for chemicals in articles
- Reduce business risk and cost
 - Add value to existing chemical information on parts
 - Common, shared process across OEMs and suppliers
- Process for addressing chemicals within Sustainability programs



ENERGY AND WATER WORK GROUP

“The concept of having suppliers align their goals and strategies with their customers is right on target. Until now, it has been extremely difficult for suppliers, particularly smaller suppliers, to get an accurate understanding of what OEMs were seeking relative to environmental initiatives. The paradigm shift we see today exists when individuals and organizations, such as Chrysler, see the value of collaborating with large and small companies such as Chemico Systems. Our experience participating in this organization has been tremendous.”

*Leon C. Richardson, President and CEO
Chemico Systems, Inc.*

ENERGY AND WATER WORK GROUP

Goal: Sponsor and support ongoing collection and dissemination of information, discussions and action between automobile OEMs, their suppliers, and government entities, on energy and water issues affecting the operations of companies in the automobile supply chain.

Co-Chairs:

- Mark Werthman, Manager, Regulatory Compliance and Environmental Policy, Chrysler Group LLC
- Jonathon Spitz, Sr. Account Executive, Commercial Energy Solutions, Johnson Controls, Inc.

Success Story – Aevitas Specialty Services

Based on knowledge gained from the SP Energy & Water Work Group, Aevitas Specialty Services:

Water

Reduced consumption by 40% and identified \$250,000 of associated savings.

Steam/Natural Gas

13% natural gas savings over same time period in prior year.

Lighting/Electricity

Electricity savings of 3% in first year.





MATERIALS EFFICIENCY WORK GROUP

"Our companies' ability to compete has been greatly improved by the opportunity to be part of SP. We have taken the environmental impacts of our company and learned to address them like all the other traditional elements that impact our business. The result has been tremendous savings to the company, improved employee empowerment and a significant improvement to our environmental footprint. By working closely with GM, Lear and the other partners, BAE has become more competitive and truly developed a partnership with the "big guys." That kind of partnership was almost impossible in the past. Where else can you get the clout of the OEM's on the budget of a small supplier."

*Mark Doetsch, Vice President – Quality
BAE Industries, Inc.*

MATERIALS EFFICIENCY WORK GROUP

Goal:

Developing and deploying environmental technologies and programs in order to reduce environmental impacts, gain financial value, as well as promote environmental sustainability.

Chair:

John Bradburn, Manager of Waste Reduction Efforts,
General Motors

Success Story – Member Collaboration

Gulf Oil Booms Find New Life in



GM

Installs Parts in
Chevrolet Volt



GDC Inc.

Produces Volt
Components



**Mobile Fluid
Recovery**

Extracts Oil and
Wastewater



**Heritage
Environmental**
Collects Booms



Boom

Manufacturer

Trim Scrap is Sent to
be stuffed into
Absorbent Booms



GDC Inc.

Produces Sonozorb™
Acoustical Material
and Parts for GM

GM Scrap Sonozorb Insulates Coats for Homeless



Empowerment Plan
Produces
Coat/Sleeping bag
for homeless



**Manufactured into
New Material**
Trim Scrap is
converted to into
Fabric



GDC Inc. Collects and
Bails all Small Scrap
GM Sonozorb™ pieces
for new Application



GDC Inc.
Produces Sonozorb™
Acoustical Parts for
Numerous **GM** Vehicles

Materials Efficiency - Success Stories

Gulf Oil Boom Project

SP members **GM, Heritage Environmental, Mobile Fluid Recovery** and **GDC Inc.** collaborated to recycle 227 miles of plastic boom material, used to soak up oil in the Gulf of Mexico in the summer of 2010, which was used in the production of air-deflection baffles for the Chevrolet Volt.

Using the recycled booms, whose oil and water was refined or used for energy, allowed the companies to:

- Save 29,000 gallons of water and oil from the nation's landfills
- Eliminate 212,500 pounds of waste from being thrown out
- Eliminate 149 tons of CO₂-equivalent emissions from entering the air



Quiet Shield GRN Project

Federal Mogul developed a process, with other SP members, to convert Asian/ U.S cardboard and recycled textile fibers into a non-woven substrate for use as an acoustic material.

Objectives:

- To reduce waste in the assembly plants and turn it back into usable parts in the vehicle.
- Final non-woven substrate to contain 25-75% Cardboard.
- Material must meet technical, commercial, and economic targets

Results:

Material is being used in the headliner of commercially available automobiles





TECHNOLOGY AND NETWORKING GROUP

“SP provides my company, and all other member companies, a unique forum to discuss and collaborate on ideas, projects, and initiatives that can be used to benefit everyone in the industry. Each member company has something to offer, whether it’s a product or a service. Maybe that individual product or service is all that’s needed to have a meaningful environmental impact and the forum of companies provides the means to communicate it to the right people. Or, as in most cases, a collection of companies realize the unique benefits each one offers and collaborate to produce the product or service needed to satisfy and particular need. Combining forces enables new ideas and technologies to have a meaningful impact up and down the supply chain, improving environmental impact, improving manufactured products, and improving relationships between huge OEMs and relatively small companies like FTS Technologies... It’s the only group I’m aware of that breeds success every week, month, and year.

Russell Brynolf, CEO, FTS Technologies

TECHNOLOGY AND NETWORKING GROUP

Goal:

Providing a forum through which member companies share opportunities and processes for SP's Tier II and Tier III companies to communicate directly and effectively with the OEMs and Tier I suppliers in the organization and automotive industry.

Co-Chairs:

- Russell Brynolf, CEO, FTS Technologies
- David O’Ryan, President, Advanced Technology & Marketing Group LLC

Success Story – FTS Technologies

Need: FTS Technologies had been striving to drive the implementation of an energy-efficient flame treatment technology that lets paint adhere to plastic vehicle parts, such as instrument and door panels, without using traditional chemical adhesion systems.

Solution: Through SP networking opportunities, FTS was able to convey the benefits and get connected with the right people at GM so this technology could make a broader impact within the industry.

Outcome: By using the new process on the Chevy Cruze, for example, GM suppliers:

- Reduced **solid and liquid waste** (filters, cleaners, solvents and coatings) from 48 tons a year to less than 1 ton.
- Decreased **air pollutants** from 810 tons a year to 80 tons a year.
- Eliminated **landfill waste** like paint sludge and painted scrap material from 25 tons to nearly zero.



FTS was awarded ***GM's 2012 Environmental Excellence Award*** for its work in helping GM's supply base reduce waste and emissions through this technology.

In 2013, SP will launch a new **North American Work Group** to bring together project activities across the US, Mexico and Canada.

Objectives of the Work Group include:

- establishing a *network of auto industry subject matter experts* from the US, Mexico and Canada working together toward a common goal
- providing an *educational forum* to share global best practices, value added tools / resources, and success stories highlighting how companies in the automotive supply chain are improving the environment and creating economic opportunity throughout the manufacturing process across North America
- creating the *North American platform* for OEMs, their suppliers and government representatives to work together to improve environmental performance while increasing value throughout the automotive supply chain.

Alianza Verde Automotriz (AVA)

AVA is a new initiative organized in collaboration with the CEC to provide automobile OEMs and their suppliers the opportunity to address new, innovative and voluntary environmental sustainability projects and activities that will improve their environmental performance while providing value throughout the automobile supply chain in Mexico with the foster and support of the Mexican Government.

AVA Focus Areas

- *Water Efficiency - Chair: Luis Lara, Ford Motor Company*
- *Energy Efficiency - Chair: Arnulfo Berlanga, General Motors Company*
- *Waste Management and Resource Creation - Chair: Delia Rivas, Chrysler Group*

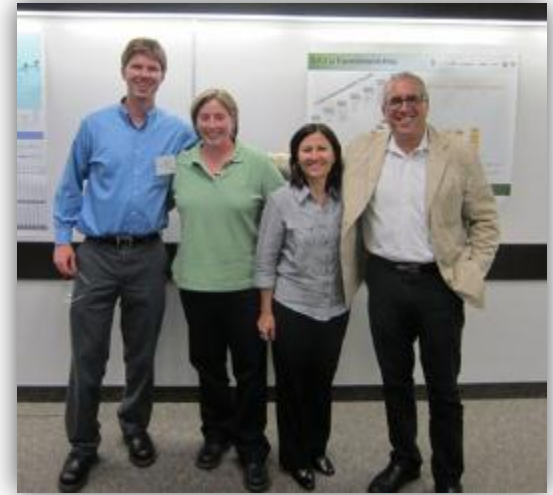


Pictured: Benjamin Teitelbaum, CEC; Luis Lara, Ford Mexico; Evan Lloyd, CEC; Delia Rivas, Chrysler Mexico; and, Arnulfo Berlanga, GM Mexico

As a program of SP's North America Work Group, SP Canada provides a unique forum in Canada for small, mid-sized and large automotive and vehicle suppliers to learn from each other, collaborate and share environmental best practices.

Focus Areas

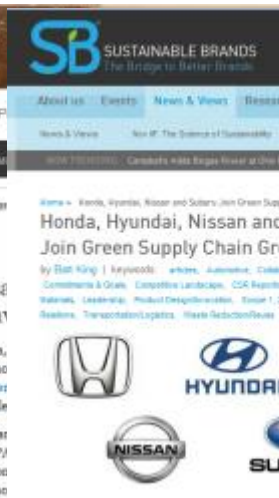
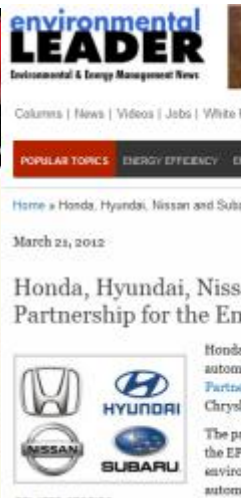
- *Energy efficiency*
- *Materials efficiency / waste management*
- *Water sustainability*



Pictured: Josh Orentlicher, Karri McInroy and Sue Forest of Chrysler Canada, and Benjamin Teitelbaum, CEC

SP Communications

- Ongoing PR Efforts
 - SP Press Releases
 - Member Press Releases on SP
 - Engagement with Media
 - Conferences
 - SP Website



SP Communications

SP Newsletter

- Distributed quarterly to thousands of OEMs, suppliers, NGOs, and government representatives.
- Showcasing SP and SP's members.



@SP4Environment: Regular updates on SP members' environmental sustainability activities



SP LinkedIn Group: Membership Networking / Discussion Forum

SUPPLIERS PARTNERSHIP FOR THE ENVIRONMENT

SP News September 2012

Alianza Verde Automotriz - Mexico City

On September 5, [Alianza Verde Automotriz \(AVA\)](#) hosted its third meeting at General Motors Mexico Headquarters in Mexico City. AVA is a new initiative organized in collaboration with the [Coalition for Environmental Cooperation \(CEC\)](#) to provide automobile OEMs and their suppliers the opportunity to work together to address new, innovative and voluntary environmental sustainability projects that will improve their environmental performance while providing value throughout the automobile supply chain in Mexico.

Picture: (L) Arnulfo Salgado, GM, group participants at AVA's September 5 Meeting (R) Delia Reyes, Chrysler Luis Lara, Ford and Pedro Zuñig, Renault

The September 5 meeting centered on ongoing AVA Work Group efforts in the areas of Energy Efficiency, Water Efficiency, and Waste Management and Resource Creation. Through these AVA projects, participating companies are working together to share tools and best practices, improve processes and identify solutions to improve the sustainability of the automotive supply chain in Mexico. [Read more in AVA's September Newsletter.](#)

SP at Richmond Raceway

On September 8, [NASCAR Green](#) hosted Steve Hillen and Kellen Mahoney, SP, and Matt Bogobias, Tom Murray and Bridget Williams, US EPA at Richmond International Raceway. NASCAR and the US EPA recently signed an MOU designed to encourage greater environmental awareness and adoption of green products and solutions.

The day included a demonstration of NASCAR's oil recycling and re-refining program provided by NASCAR Green partner Safety-Kleen. Safety-Kleen collects and re-refines more than 200,000 gallons of race-used oil annually.

In another of NASCAR's major recycling efforts, Goodyear facilitates a responsible recycling program for tires used on NASCAR stock cars and trucks. After race weekends, tires are transported to Charlotte, NC and receive first phase processing credits. The recycled material is sold to various industries for next-generation usage such as power generation and for asphalt mixtures. Approximately 121,660 tires in NASCAR's top three national series combined are recycled each year. [Read more about NASCAR Green.](#)

Picture: Matt Bogobias, US EPA, Drew Patey, Safety-Kleen, Kellen Mahoney, SP, and Tom Murray, US EPA

SP Website
How to Join SP

Event Calendar

- October 5
SP Energy & Water Work Group Webinar
- October 8
EPA Energy Star Sustainability Event Hosted by GM Sterling Heights, MI
- October 10
SP 4th Quarter Membership Meeting Hosted by DENSO Maryville, TN
- October 11
SAC Breakout Session: Integrating Sustainability into Manufacturing Performance Chattanooga, TN

For More Information on SP

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Kellen Mahoney, Program Manager

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