

Mark Jones

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The Dow Chemical Company

21 September 2017



FALL MEETING SEPTEMBER 20-22, 2017 HILTON HEAD ISLAND, SC



DAILYLNEWS

















































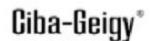


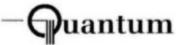










































































































































































































































































































































































































































































































































































































































































Remaining























































































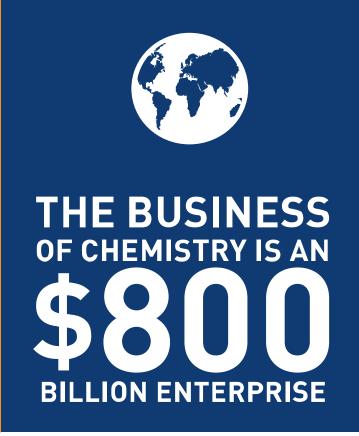
MORE THAN

96%
OF ALL

MANUFACTURED
GOODS ARE

DIRECTLY TOUCHED BY
THE BUSINESS
OF CHEMISTRY



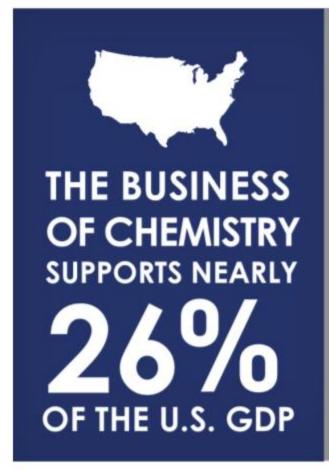


\$93 BILLION
IN RESEARCH AND
DEVELOPMENT IN 2015









THE BUSINESS OF CHEMISTRY ACCOUNTS FOR 14% OF U.S. EXPORTS \$184 BILLION IN 2015, AND IS THE LARGEST EXPORTER IN THE U.S









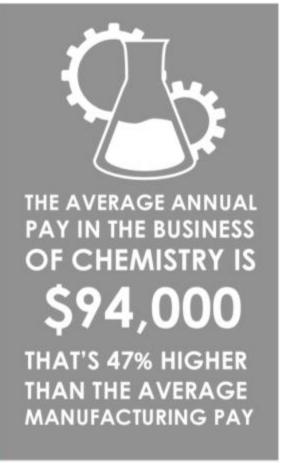


FOR EVERY JOB CREATED BY THE BUSINESS OF CHEMISTRY, 6.3 ARE GENERATED ELSEWHERE IN THE ECONOMY, TOTALING NEARLY 6 MILLION JOBS

THE BUSINESS OF CHEMISTRY PROVIDES

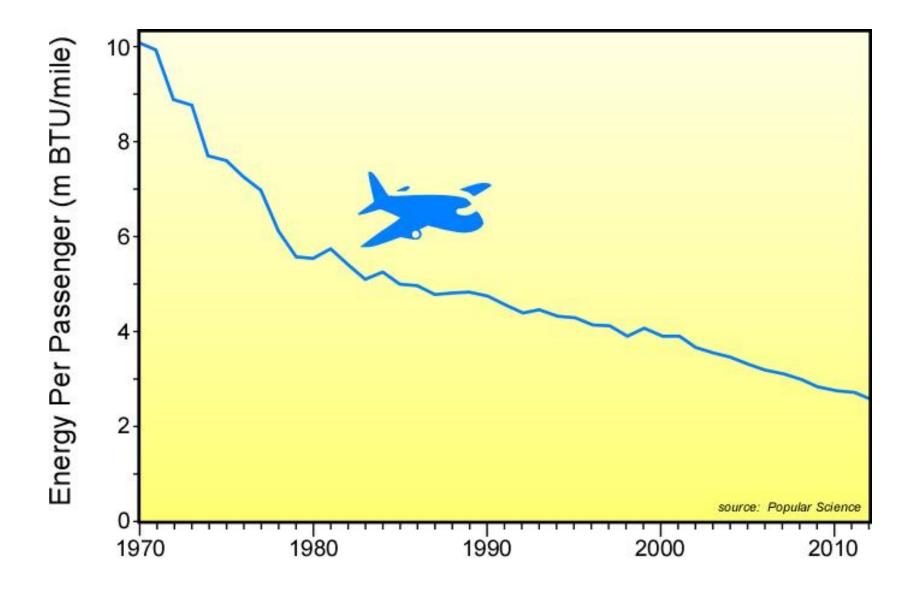
810,000
SKILLED, GOOD-PAYING AMERICAN JOBS



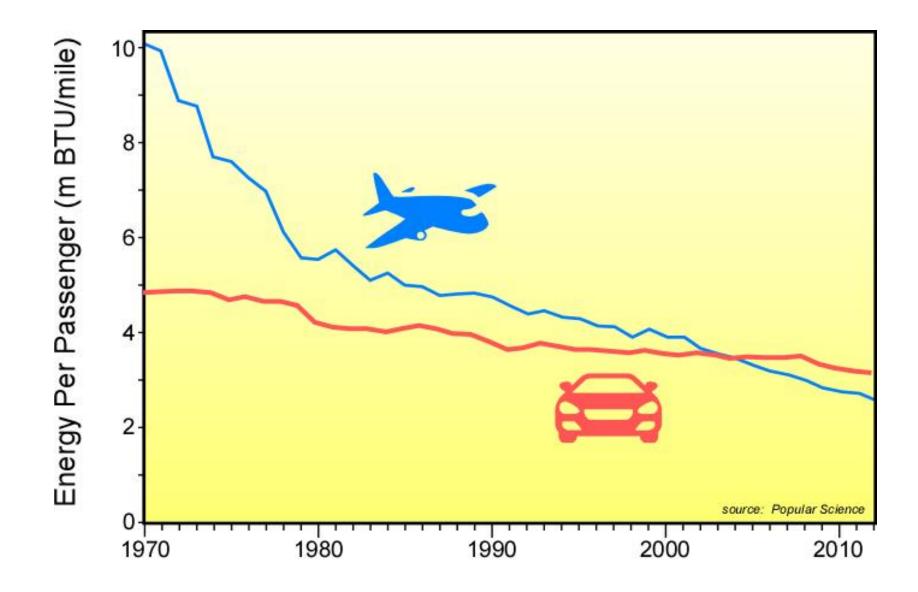




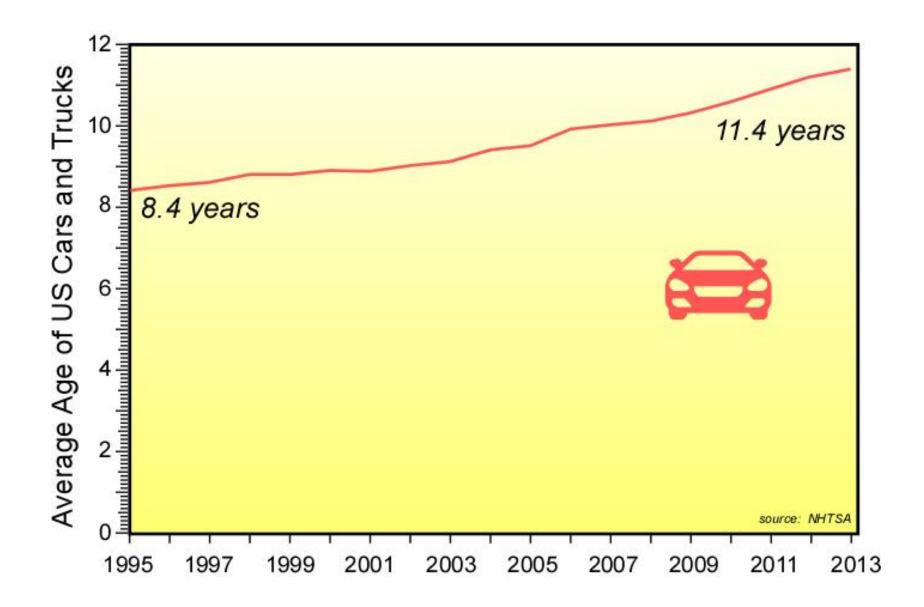








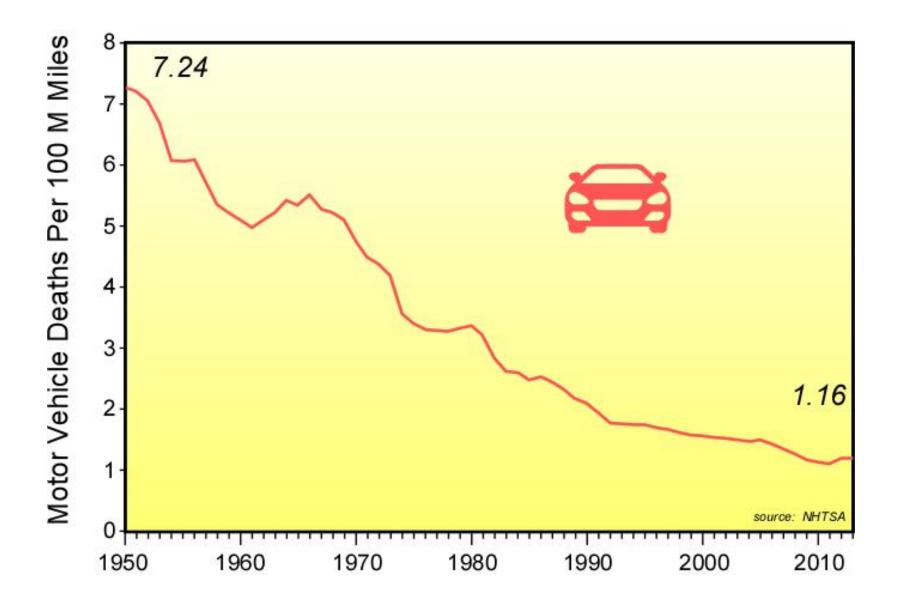




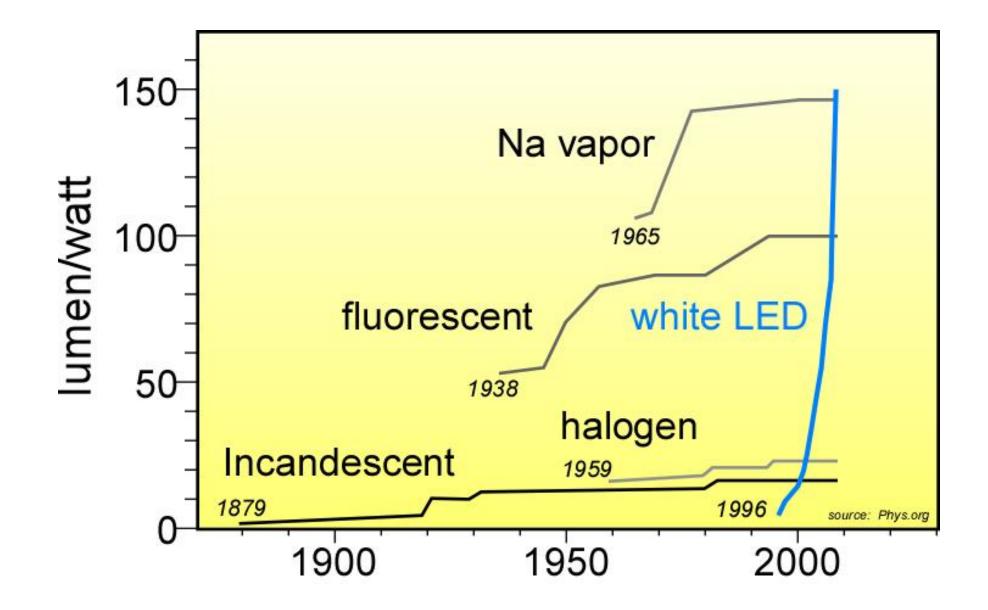




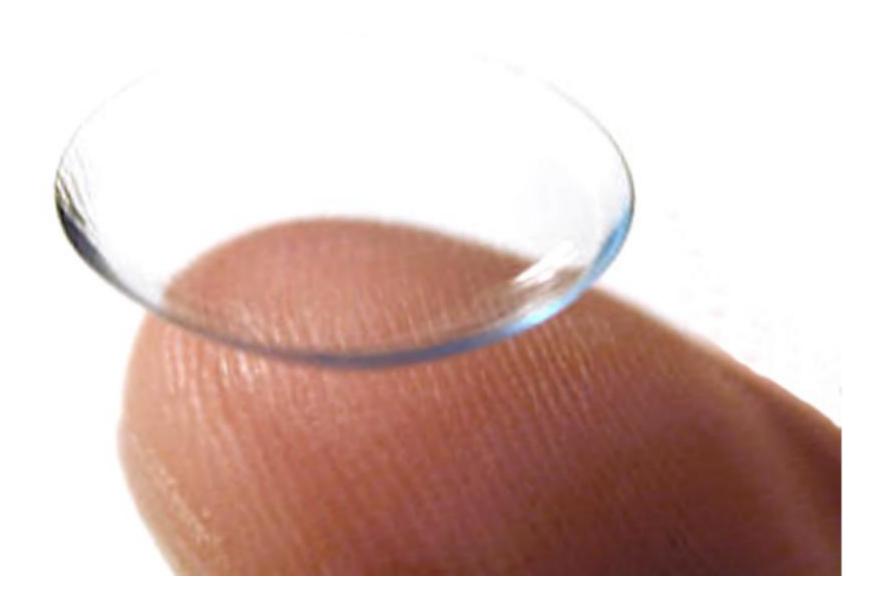






















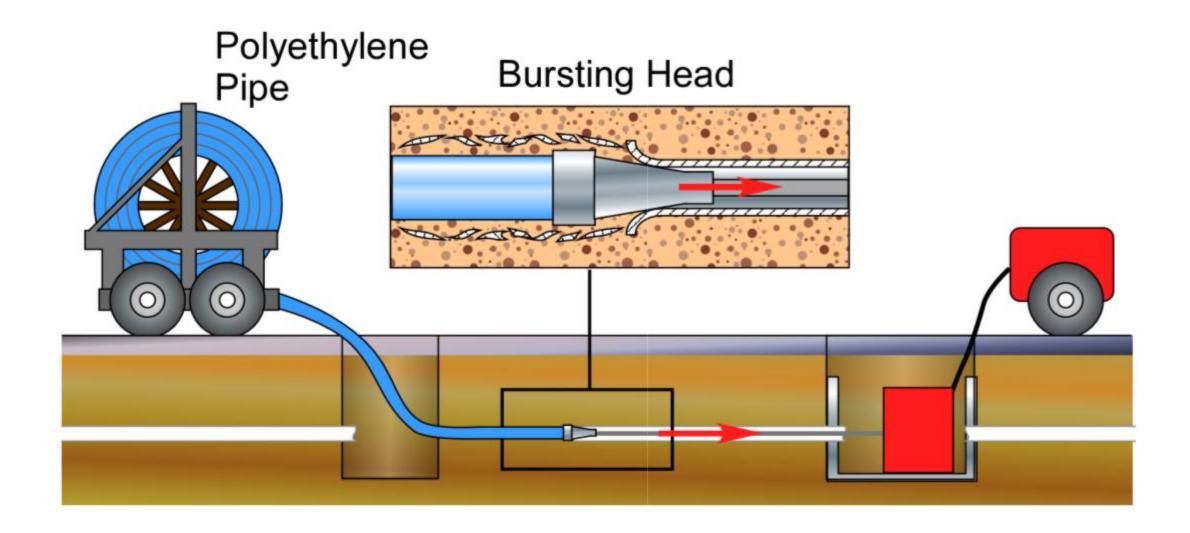




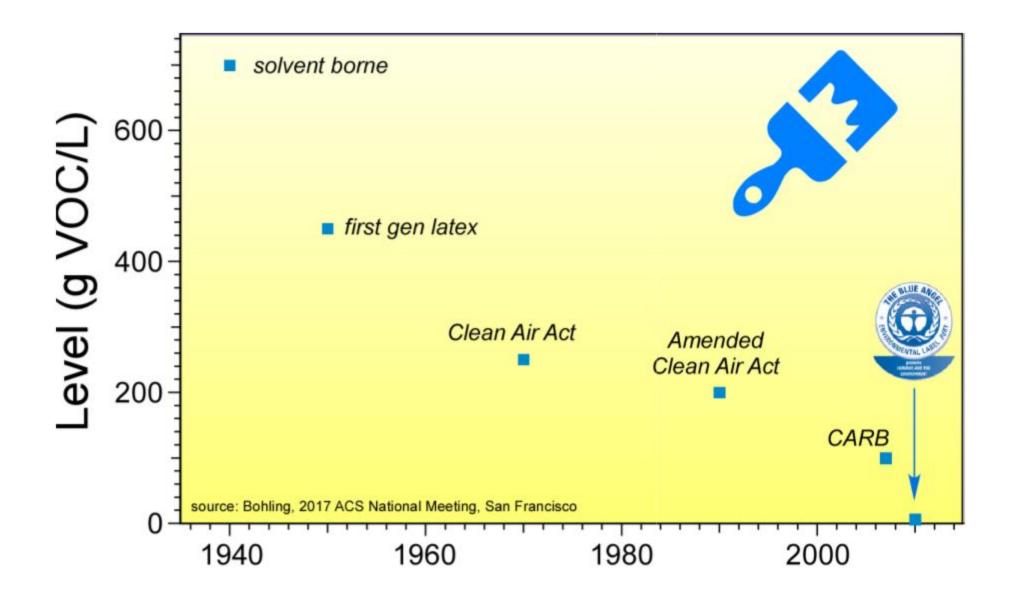




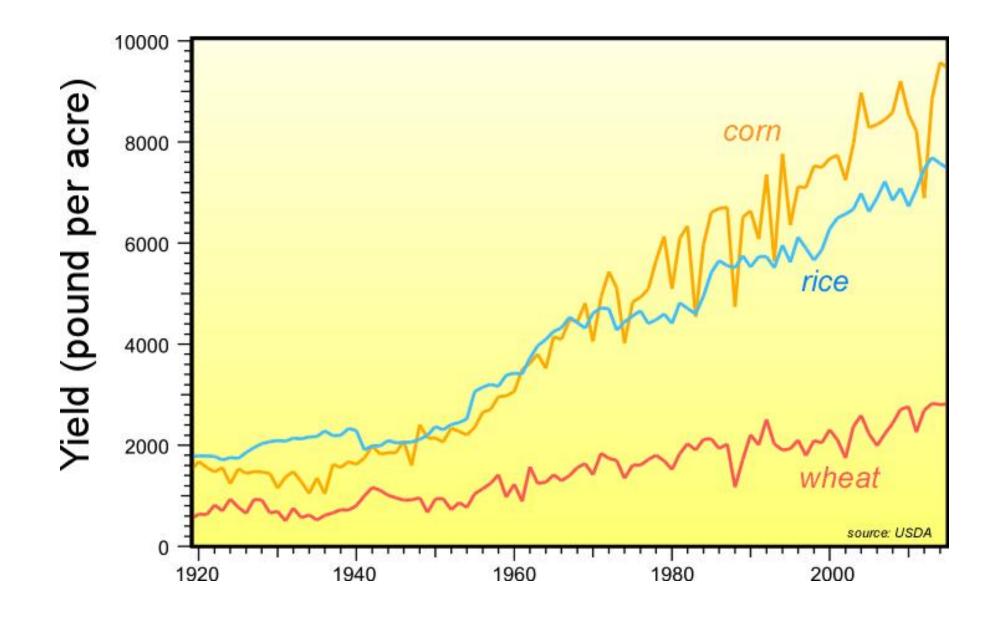
Pipe Bursting







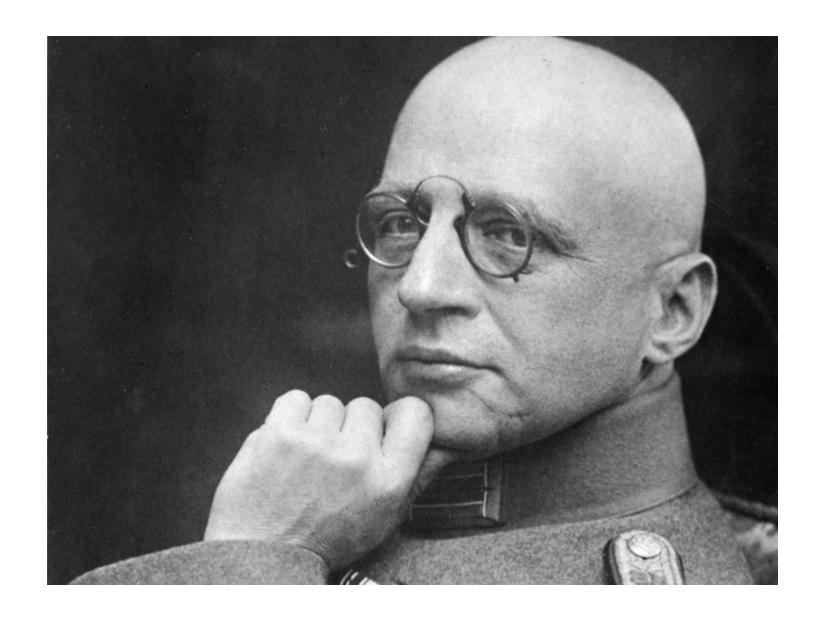












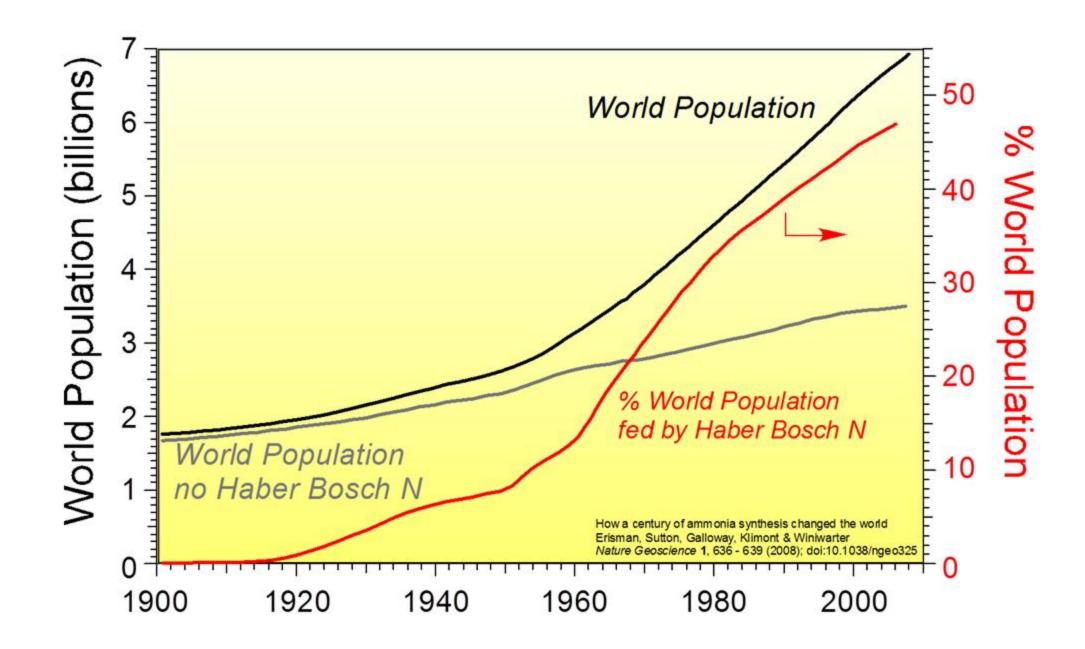


Amnonia

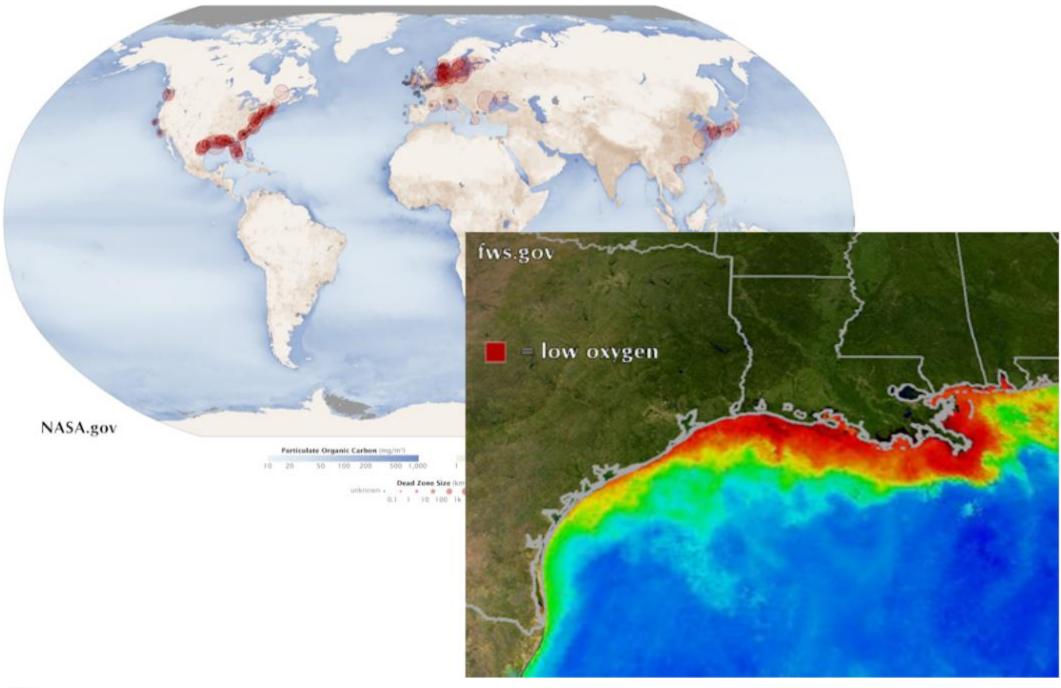














Danger -





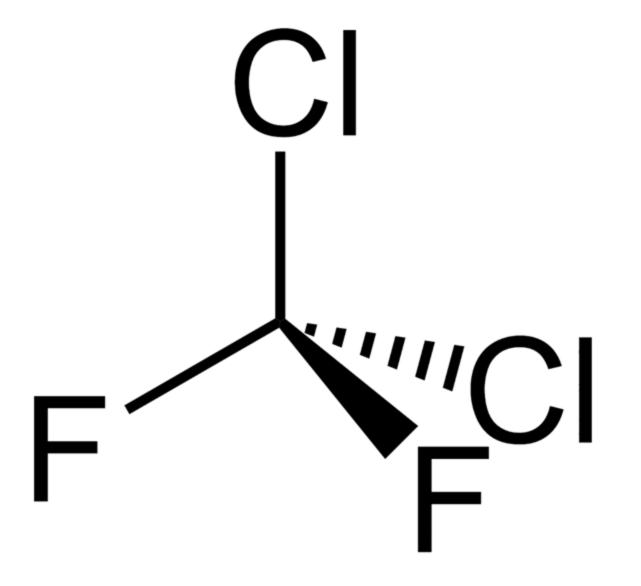




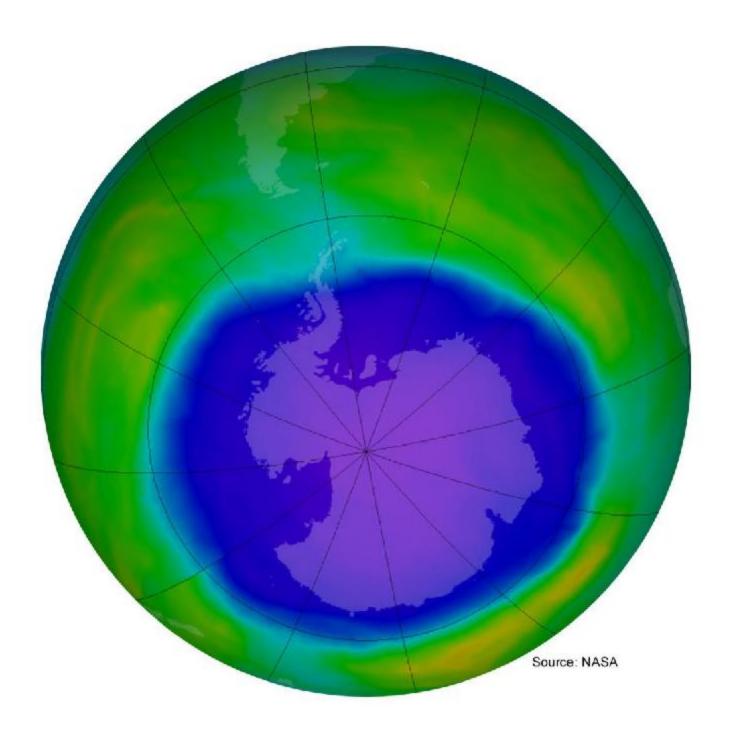




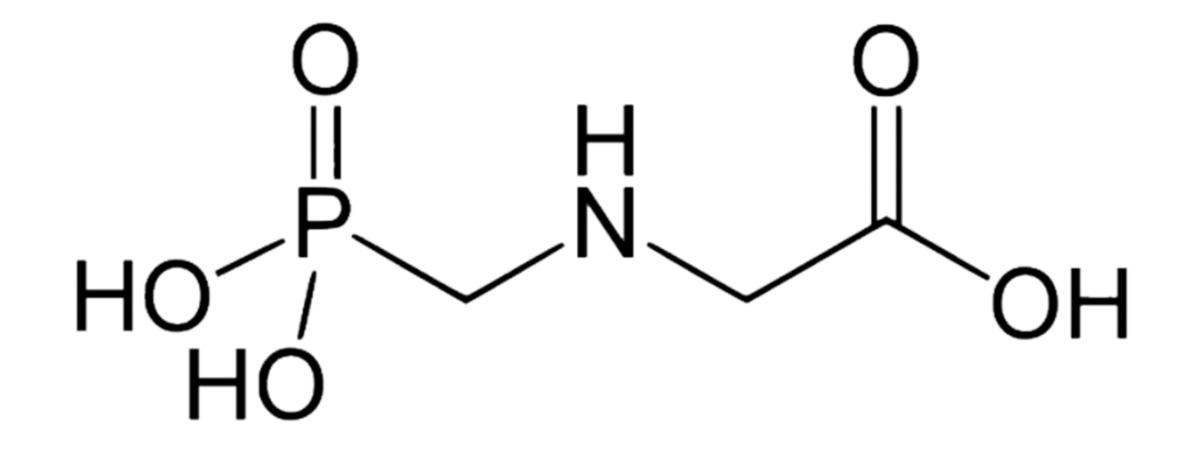










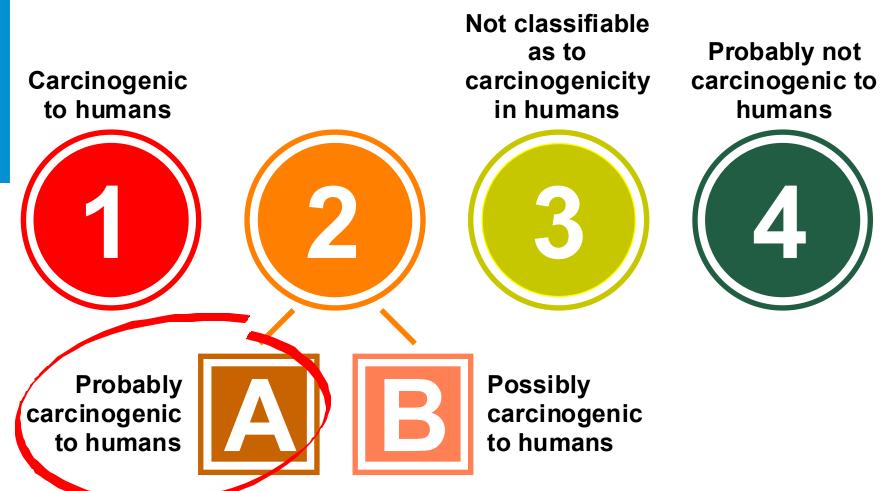




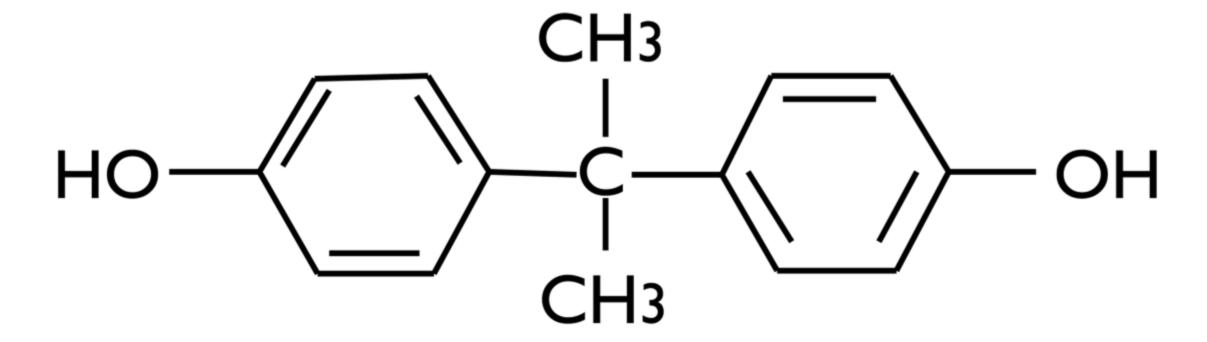


























CANVera







A Fresh Approach: CANVERA™ Polyolefin Dispersion

CANNera

a fresh approach to can coatings by

Technology

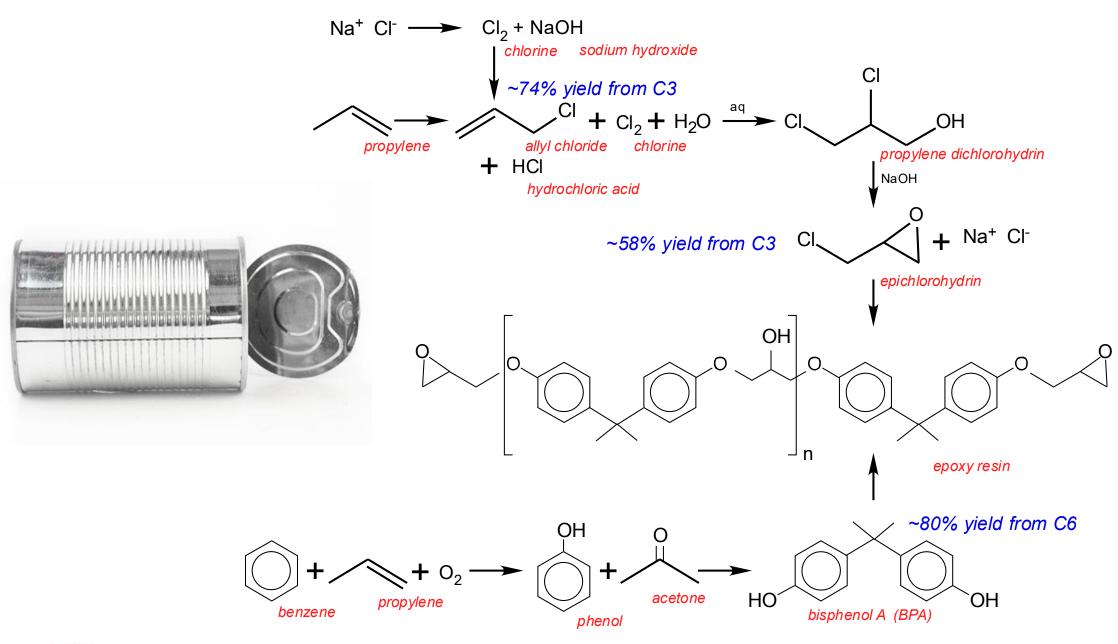
CANVERA™ Polyolefin Dispersions offers an excellent food and flavor protection profile, excellent adhesion, corrosion protection and flexibility without impact on flavor. This innovation eliminates material traditionally found in epoxy or alternative coating systems that are of concern for many consumers.







Incumbent Epoxy Resin



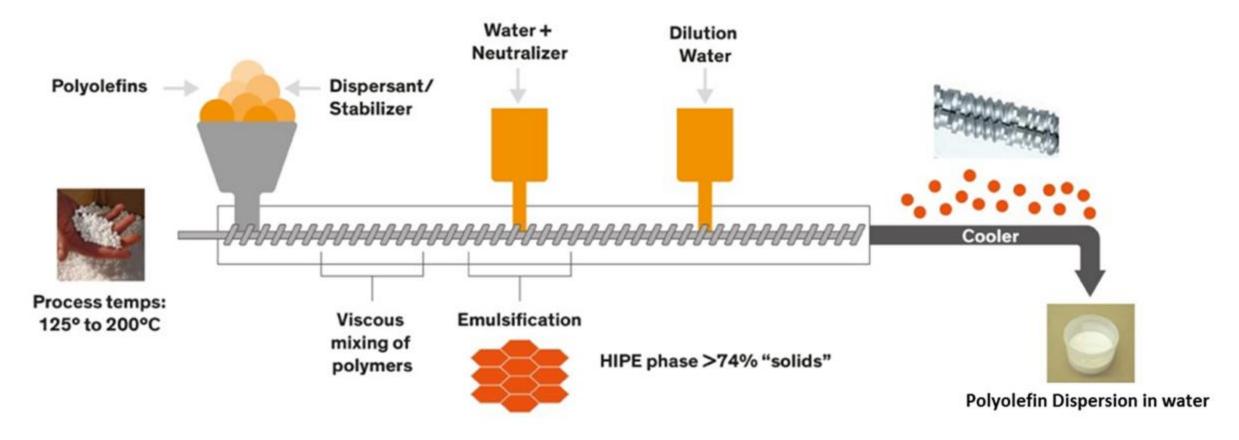


CANNera

$$C_2H_6 \xrightarrow{\Delta} CH_2 = CH_2 \xrightarrow{ethylene} CH_2 = CH_2 \xrightarrow{n} polyethylene$$



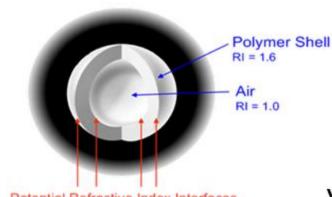






Thermal Paper Free of Chemical Developers

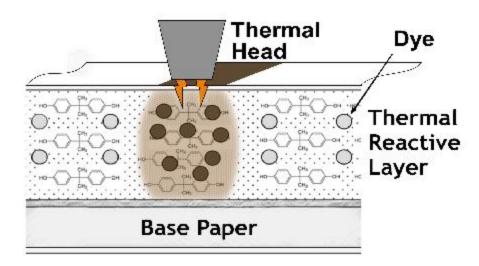
ROPAQUE™ NT-2900 Opaque Polymer for BLUE 4EST™ Thermal Paper

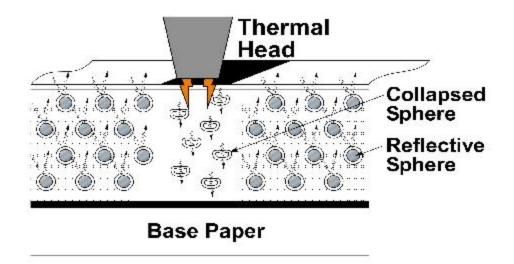


Conventional

Potential Refractive Index Interfaces

Voided Layer Technology





2017 Presidential Green Chemistry Challenge Award joint with partner Koehler Paper Group



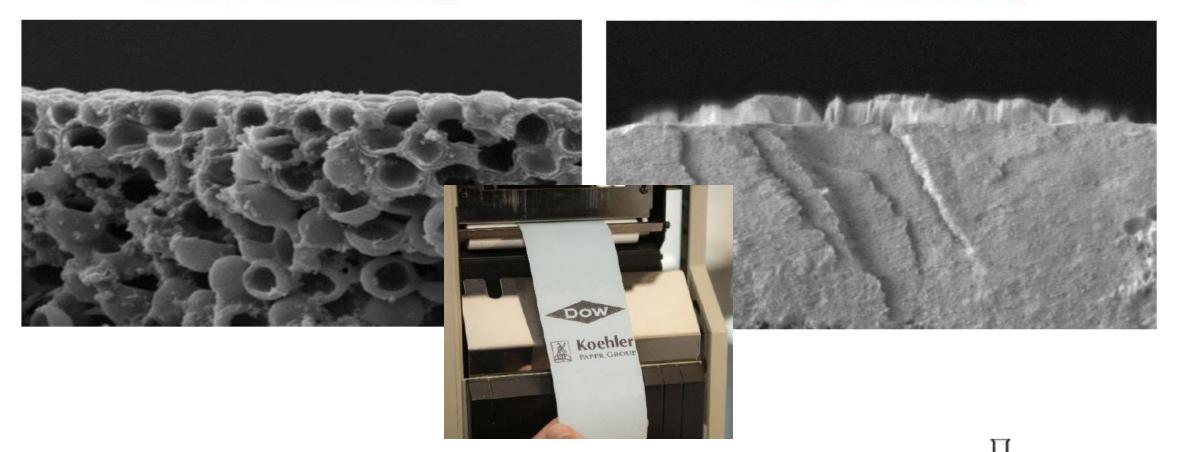


Thermal Paper Free of Chemical Developers

ROPAQUE™ NT-2900 Opaque Polymer for BLUE 4EST™ Thermal Paper

Before Printing

After Printing









2025 Sustainability Goals





Leading the Blueprint

Dow leads in developing a societal blueprint that integrates public policy solutions, science and technology, and value chain innovation to facilitate the transition to a sustainable planet and society.



Delivering Breakthrough

Innovations

Dow delivers breakthrough sustainable chemistry innovations that advance the well being of humanity.



Advancing a Circular Economy

Dow advances a Circular Economy by delivering solutions to close the resource loops in key markets.



Valuing Nature

Dow applies a business decision process that values nature, which will deliver business value and natural capital value through projects that are good for the company and good for ecosystems.



Increasing Confidence in Chemical Technology

Dow increases confidence in the safe use of chemical technology through transparency, dialogue, unprecedented collaboration, research, and our own actions.



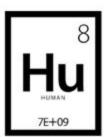
Engaging Employees for Impact

Dow people worldwide directly apply their passion and expertise to advance the well being of people and the planet.



World-Leading Operations Performance

Dow maintains world-leading operations performance in natural resource efficiency, environment, health, and safety.







Many Americans have probably never heard of ethylens. But this coloriess, flammable gas usually made by superficating oil or natural gas is arguably the most important petrochemical on the planet—and much of it comes from the Gulf Coast region savaged by Hurricane Harvey. Ethylene and its derivatives make up about 40 percent of global chemical sales, says Hassan Ahmed, an analyst at Alembic Global Advisors. The U.S. accounts for 1 of every 5 tons on the market, and ethylene plants globally were already running almost full-out before Harvey. Ahmed says. "So any ittle hiccup—and this is much beyond a hiccup—will dramatically tighten supply-demand balances," he says.

Texas produces almost three-quarters of the nation's

ethylene supply. That's critical because this basic chemical building block is the foundation for making plastics essential to U.S. consumer and industrial goods, from carparts used by Detroit automakers to diapers sold by Wai-Mart Stores Inc. Processing plants turn the chemical into polyethylene, the worlds most common plastic, which is used in garbage bags, food packaging, and even chewing gum. As ethylene glycol, it's the antifreeze that keeps ongines and airoland wings from froezing in winter. It also becomes the polyester used in textiles and water bottles. Because of Harvey's flooding. Texas plants accounting for 87 percent of U.S. ethylene capacity have closed, say analysts at Jefferies LLC. Production may not return to prostrem levels until fall. — Jack Kaskey with Lynn Doan









