WE MAKE PROGRESS

A MESSAGE FROM THE CHAIRMAN OF THE BOARD
AND THE PRESIDENT AND CEO OF AFPM

The American Fuel & Petrochemical Manufacturers (AFPM) is proud to represent the makers of the fuels that keep our country and the world moving and the petrochemicals that are the building blocks for modern life. Our industries are noble and our products have transformed the world. We manufacture the fuels that power the cars, trucks and buses that get millions of people to work and to school each day. We make the petrochemicals that go into literally thousands of products like plastics, computers and medical equipment. Our industries make life better, safer, healthier and, most of all, possible.

We are critical to boosting the nation’s energy security and sustaining the U.S. economy. Over three million jobs in 33 states are supported by our 117 refineries and over 230 petrochemical facilities. Together, these industries add nearly $600 billion to the U.S. economy each year, and we do so while investing heavily in innovations, technological advancements and process efficiencies that reduce our environmental impact.

Our highest priority remains the safety and security of our employees, surrounding communities and our facilities. A continued focus on enhanced performance and operations, combined with advancements in our use of cutting-edge technology, have made the fuel and petrochemical industries among the safest and most secure in the nation.

This past year, our industries faced many challenges with unprecedented storms that threatened the heart of our operations. Despite the widespread flooding and devastation, our highly committed and talented workforce got operations up and running, resulting in minimal disruptions for consumers. And they contributed in countless ways to aid their communities by working alongside first responders and helping their neighbors rebuild. Their dedication, vigilance and courage are a testament to the character of the people who work in our industries.

In the coming year and beyond, AFPM will advocate for policies that promote growth and investments in our industries so that consumers have the products they have come to rely upon. Policies that enhance transparency, promote competition and balance the needs for all Americans will further improve the standard of living and strengthen the foundation of our nation.

As we look back on the accomplishments of 2017 and look ahead to the future, one thing is clear: the fuel and petrochemical industries are resilient, innovative and determined. We make many things, but above all, we make progress.

Joseph W. Gorder
Chairman, President and Chief Executive Officer,
Valero Energy Corporation
AFPM Chairman of the Board

Chet M. Thompson
President and Chief Executive Officer
American Fuel & Petrochemical Manufacturers
WE MAKE THE PRODUCTS THAT FUEL THE GLOBAL ECONOMY AND WILL REMAIN ESSENTIAL FOR YEARS.
U.S. refineries are among the most technologically advanced and efficient in the world. Our members own and operate 117 refineries that manufacture 96 percent of the refined petroleum products made in the United States.

Today, petroleum supplies about 98 percent of U.S. transportation fuels and is projected to continue supplying about 90 percent through mid-century, according to the Energy Information Administration (EIA). Petroleum products are also consumed in the commercial, industrial and residential sectors. In 2016, petroleum products supplied more than 25 percent of industrial demand for energy, four percent of commercial and four percent of residential demand.

The majority of petroleum products are used as transportation fuels. Last year, the United States consumed 143 billion gallons of gasoline and 84 billion gallons of diesel fuel, heating oil and jet fuel.

Our members own and operate 117 refineries that manufacture 96 percent of the refined petroleum products made in the United States including:

- Gasoline
- Diesel Fuel (trucks and buses)
- Jet Fuel
- Heating Oil
- Lubricants

In 2016, U.S. refining capacity increased to more than 18.6 million barrels per day, accounting for almost 20 percent of global refining capacity.
The United States currently exports nearly 80 billion gallons of petroleum products to consumers in 99 countries. By 2040, U.S. exports are expected to top 110 billion gallons, and our products are expected to supply 30 percent of total world energy demand through 2050, according to the EIA.\(^4\)

**MONTHLY U.S. REFINED PRODUCT EXPORTS IN MILLIONS OF GALLONS PER DAY (2010-2017 increases)**

<table>
<thead>
<tr>
<th>Product</th>
<th>Export (M)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Motor Gasoline</td>
<td>218</td>
</tr>
<tr>
<td>Propane</td>
<td>189</td>
</tr>
<tr>
<td>Diesel Fuel and Heating Oil</td>
<td>160</td>
</tr>
<tr>
<td>Other Petroleum Products</td>
<td>105</td>
</tr>
</tbody>
</table>

**U.S. WEST COAST EXPORTS 2.8 Billion Gallons**

- **Mexico**
- **Latin America**
U.S. EAST COAST EXPORTS
1.5 Billion Gallons

U.S. MIDWEST EXPORTS
349 Million Gallons

U.S. GULF COAST EXPORTS
30.8 Billion Gallons
The U.S. petrochemical industry is well positioned to meet growing demand and continue to be a world leader in petrochemical production.

The products our petrochemical members produce play a large role in our lives today and will continue to be a significant part of our future. Products like ethylene, propylene and butadiene may not get much attention, but the products they make do. In the future, innovations made possible by petrochemicals could dramatically enhance the quality of life through breakthroughs in prosthetics and artificial organs, significantly improve transportation, keep food fresh for much longer, and even make for cleaner skies. If you can imagine it, chances are our products will be part of it.
SAVING LIVES

Vince was diagnosed with polycystic kidney disease when he was nineteen. He managed his condition with medications for many years, but in 2011, it wasn’t enough.

Family and friends were tested to see if they were a viable match, but none were found. Vince thought he had exhausted his list of possible donors, when a friend’s sister offered to be tested. Finally, a match!

Plans were made for the surgery and on a Friday the 13th in 2012, his donor flew from Oregon to Pennsylvania for the procedure.

Today, not a day goes by without him, his wife and their triplets being thankful to his donor and for the medical devices made from petrochemicals that kept him alive and the fuels that made his transplant possible.
WE CREATE THE JOBS THAT EMPLOY OVER 3 MILLION AMERICANS IN 33 STATES.
Today we are focused on educating the public about our industries to attract, educate and retain top talent who will encourage a diverse and valued workforce, while offering highly competitive salaries and levels of training and education. As we grow, so will the career opportunities for skilled and craft workers, U.S. veterans and those with business and STEM backgrounds.

The fuels and petrochemical industries have well-paying career opportunities for those with educational backgrounds that range from GED to PhD. Craft laborers in our industries earn higher salaries than teachers, nurses and other professions that require advanced degrees.

- **$111,500**
  Average annual salary of a refining worker

- **$93,000**
  Average annual salary of a chemical industry worker

- **$44,148**
  Average annual salary of a U.S. worker
FUELING THE ECONOMY

We contribute nearly $600 billion to the U.S. economy including more than $65 billion in federal taxes and $21 billion in state and local taxes last year. This money directly supports first responders, teachers and other individuals working in communities across the country. Not only do our taxes support first responders, we also make the products that make the materials that keep them safe.
PROTECTING OUR PROTECTORS

In November 2006, Dan, a firefighter in Los Angeles, California, and his team were called to a two-story building that was fully engulfed in flames. While trying to put out the fire, the upper floor where he was standing gave way. Dan fell to the floor below and within seconds was up to his armpits in flames. Thankfully, his fellow firefighters pulled him from the blaze.

“I was certain my legs would be burned. I took my gear off; my legs were fine. I can’t say fossil fuels were at the top of my mind as I was struggling to escape from that building, but they were critical to saving my legs and my life that day.”

Dan and the thousands of firefighters across the country who have had similar experiences are thankful for the advances in products that are made from petrochemicals.

“*I was grateful to the firefighters who pulled me out that day and to the oil and natural gas industries that develop the products that make us safe every day.*”
WE MAKE THE INVESTMENTS THAT INCREASE THE SAFETY OF OUR EMPLOYEES, FACILITIES AND COMMUNITIES, AND REDUCE THE IMPACT ON THE ENVIRONMENT.
KEEPING OUR PEOPLE SAFE

Safety is a core commitment of the U.S. refining and petrochemical industries. Providing a safe work environment for our employees and communities in which we operate is embedded in our culture, and we strive to achieve zero injuries, illnesses and process safety events.

Both the refining and petrochemical industries’ annual injury and illness rate is 0.6 per 100 full-time employees, well below many other industries and occupations. The refining and petrochemical industries rank second and third out of 520 manufacturers for the lowest rate of injury and illness.

ADVANCING PROCESS SAFETY

AFPM is continuously working with our members to enhance performance and operations by offering a variety of tools and forums for our members to learn from each other to better protect the health and safety of our workers, contractors, neighbors and the environment in which we operate.

The goal of Advancing Process Safety is to reduce the frequency and severity of process safety events across our industries.

AFPM collects industries’ process safety data, analyzes that data to find opportunities for improvement, and develops tools and sharing opportunities to help our industries improve their process safety performance.

Our Advancing Process Safety Program includes:

- WALK THE LINE
- HAZARD IDENTIFICATION
- PRACTICE SHARING
- SAFETY METRICS AND STATISTICS
- PROCESS AND OCCUPATIONAL REGIONAL NETWORKS
- EVENT SHARING

INJURY RATE DECREASE

Over the past 28 YEARS the refining and petrochemical industries have reduced their rate of injury by a FACTOR OF TEN.

Sampling taken from source.
We have invested billions of dollars in technology, innovation and engineering efficiency to reduce the impact of our operations.

U.S. INCREASES SINCE 1990

- Gross Domestic Product | **191%**
- Population | **28%**
- Energy Consumption | **16%**
- Vehicle Miles Traveled | **41%**

Even with this growth, we reduced the six most common emissions by 67 percent. Transportation fuels are cleaner than ever today, and sulfur levels in gasoline have been reduced by 97 percent. Today, affordable fuels and petrochemicals are made and refined more safely, cleanly and efficiently than ever before, and more breakthroughs are to come.
## REDUCTIONS IN CRITERIA POLLUTANT EMISSIONS

### REFINERIES
1990-2014 (Decrease in 1000 Tons)

<table>
<thead>
<tr>
<th>Pollutant</th>
<th>1990</th>
<th>2014</th>
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<tr>
<td>S02</td>
<td>600</td>
<td>50</td>
<td>550</td>
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<tr>
<td>NOX</td>
<td>300</td>
<td>75</td>
<td>225</td>
</tr>
<tr>
<td>VOC</td>
<td>300</td>
<td>80</td>
<td>220</td>
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<tr>
<td>PM10</td>
<td>25</td>
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### PETROCHEMICAL FACILITIES
1990-2014 (Decrease in 1000 Tons)

<table>
<thead>
<tr>
<th>Pollutant</th>
<th>1990</th>
<th>2014</th>
<th>Decrease</th>
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</thead>
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<tr>
<td>S02</td>
<td>180</td>
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<td>80</td>
</tr>
<tr>
<td>PM10</td>
<td>18</td>
<td>0</td>
<td>18</td>
</tr>
</tbody>
</table>
AFPM member companies are implementing leading-edge technology to reduce operational risk and increase efficiencies, making the workplace safer.

Our industries are leaders in proactive cyber risk management of IT and industrial control systems. We continually test systems and software, keep up on the latest threats in the cyber world and educate company employees on "cyber hygiene."
Improving Operations with Drones

AFPM members are at the vanguard of using unmanned aerial vehicle technology (known as UAVs or drones) to improve operations, and effectively did so after Hurricane Harvey hit Houston in August.

In fact, they used drones to remotely take stock of facilities and identify damaged equipment. This helped shorten restart times and improve the safety of employees and surrounding communities, underscoring how important UAVs have become to refinery operations.
WE PLAN FOR EXTREME EVENTS TO MITIGATE CATASTROPHES AND SAVE LIVES.
The 2017 hurricane season was one of the most daunting in decades. But, with a lot of planning, coordination and hard work, our member companies succeeded in supplying the gasoline, diesel and jet fuel that moved people out of harm’s way and allowed first responders to reach those in need.

HURRICANE HARVEY IMPACTED:

- **60%**
  - U.S. Petrochemical Production

- **25%**
  - U.S. Refining Capacity

HURRICANES ALSO IMPACTED THE ENTIRE FUEL SUPPLY CHAIN INCLUDING:

- Refineries
- Ports
- Pipelines
- Terminals
- Rail Stations
- Gas Stations
- Plant Feedstocks and Products’
THE HURRICANES HAD THE POTENTIAL TO BE CATASTROPHIC FOR THE FUELS AND PETROCHEMICAL SUPPLY CHAIN. BUT THEY WEREN’T.

20/24
Just two weeks after Harvey made landfall, 20 of the 24 refineries had restarted.

70 PERCENT
Three weeks after Harvey made landfall, 70 percent of the impacted petrochemical production was back up and running.

DEMONSTRATING OUR RESILIENCY

Even in the midst of recovery from Hurricane Harvey, the refining industry prepared for Hurricane Irma — getting as much fuel into market as possible in advance of the storm and staging fuel off of both coasts of Florida to expedite getting fuel to its residents as soon as conditions were safe and infrastructure allowed.

We were able to do this because our dedicated workforce — many of whom were personally impacted by these storms — who activated sophisticated preparedness plans strengthened by lessons learned in the aftermath of previous storms. With more sophisticated preparedness plans, improved storm monitoring, hardened critical infrastructure and upgraded IT systems to help with employee location and assistance, we were prepared.

AFPM member companies took immediate action at their facilities and in their communities, many establishing advanced crisis centers to support employees and help safely meet the needs of communities struggling to navigate the impacts of this once-in-a-thousand-years storm.

Beyond donating tens of millions of dollars to humanitarian organizations, AFPM member companies responded with aid in countless ways, including:

- Pumping out and testing water in flooded neighborhoods
- Arranging short- and long-term housing for employees

Photo Courtesy of Bay Ltd.
Deploying company maintenance crews to employee homes to tackle clean-up and repairs.

Underwriting medical expenses.

Working with city officials to restore tap water to homes.

Coordinating rental vehicles for employees whose vehicles were damaged or lost.

Bringing convoys into impacted areas and contributing supplies such as vaccines, gasoline, food, cleaning supplies and water.
WE PROMOTE POLICIES THAT POWER PROGRESS AND PREPARE US FOR THE FUTURE.
The United States needs policies that promote growth and investment in the refining and petrochemical manufacturing industries to help drive our economy, add jobs, increase energy security and remain competitive in a global economy. These policies must:

1. **ENHANCE TRANSPARENCY**

The future of American manufacturing requires reasonable and cost-effective regulations. AFPM supports regulatory reforms that enhance transparency, accountability and efficacy of federal regulations based in sound science.

2. **PROMOTE COMPETITION**

The petroleum fuel refining and petrochemical industries welcome free-market competition unimpeded by market distorters, including mandates and subsidies.

Policymakers should look to ensure U.S. companies operating abroad are treated fairly through a system of trade rules that facilitate cooperation and regulatory alignment, and reflect the reality of an integrated energy and petrochemical market.

Finally, policymakers must ensure the full potential of the modernized tax code is realized to spur growth now and into the future.

3. **BALANCE NEEDS FOR ALL AMERICANS**

U.S. policies should balance the need for affordable and reliable fuels and a growing economy with sound environmental policies. The essential role and many societal benefits that petroleum fuels, natural gas and petrochemicals provide our nation and the world should not be ignored.
4. STRENGTHEN OUR FOUNDATION

The global gains of the U.S. refining and petrochemical industries can’t be maintained or built upon unless our nation’s infrastructure keeps pace. Investment in critical infrastructure, including roads, pipelines, rail, inland waterways and ports, are key to accessing and expanding the use of U.S. resources.

INVESTING IN PIPELINES

The United States has the largest network of energy pipelines in the world, with more than 2.6 million miles of pipe transporting products including natural gas, crude oil and petroleum products.

Today, the energy industry is committed to continually updating the existing pipeline network to incorporate advancements in pipe manufacturing, pipe materials, construction methods and maintenance practices. In addition, because of our nation’s more efficient oil and natural gas production even more pipelines need to be constructed to fully unlock the potential of our domestic energy renaissance.

We must adopt policies that carefully assess needs vital for meeting current and future demands. This includes federal, state and local government investment, regulatory reform that encourages private investment and streamlining our regulatory system and permitting processes to facilitate prompt construction of critical new infrastructure, including pipelines.
APPENDIX
# 2018 Industry Meetings

## March

<table>
<thead>
<tr>
<th>Event</th>
<th>Dates</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>Annual Meeting</td>
<td>March 11 – 13, 2018</td>
<td>New Orleans Hilton</td>
</tr>
<tr>
<td></td>
<td></td>
<td>New Orleans, LA</td>
</tr>
<tr>
<td>International Petrochemical</td>
<td>March 25 – 27, 2018</td>
<td>Grand Hyatt San Antonio</td>
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<tr>
<td>Conference</td>
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<tr>
<td>International Base Oils &amp; Waxes</td>
<td>March 25 – 27, 2018</td>
<td>Grand Hyatt San Antonio</td>
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## April

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<thead>
<tr>
<th>Event</th>
<th>Dates</th>
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<tbody>
<tr>
<td>Security Conference</td>
<td>April 23 – 25, 2018</td>
<td>Omni Royal Orleans</td>
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<tr>
<td>Labor Relations/Human Resources</td>
<td>April 26 – 27, 2018</td>
<td>Omni Royal Orleans</td>
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<tr>
<td>Conference</td>
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## May

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<thead>
<tr>
<th>Event</th>
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<th>Location</th>
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<tbody>
<tr>
<td>National Occupational &amp; Process</td>
<td>May 15 – 16, 2018</td>
<td>Grand Hyatt San Antonio</td>
</tr>
<tr>
<td>Safety Conference</td>
<td></td>
<td>San Antonio, TX</td>
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<tr>
<td>Reliability &amp; Maintenance Conference</td>
<td>May 22 – 25, 2018</td>
<td>Convention Center</td>
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<tr>
<td>and Exhibition</td>
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## August

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<tr>
<th>Event</th>
<th>Dates</th>
<th>Location</th>
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<tbody>
<tr>
<td>Cat Cracker Seminar</td>
<td>August 21 – 22, 2018</td>
<td>Royal Sonesta Houston</td>
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## September

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<tr>
<th>Event</th>
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<th>Location</th>
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<tr>
<td>Board of Directors Meeting</td>
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## October

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<tr>
<th>Event</th>
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<th>Location</th>
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<tbody>
<tr>
<td>Operations &amp; Process Technology</td>
<td>October 1 – 3, 2018</td>
<td>Atlanta Marriott Marquis</td>
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<tr>
<td>Summit</td>
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<tr>
<td>Environmental Conference</td>
<td>October 14 – 16, 2018</td>
<td>Marriott Rivercenter</td>
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<td></td>
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</table>
EXECUTIVE COMMITTEE

Mr. Joseph W. Gorder  
Chairman of the Board  
Chairman, President and  
Chief Executive Officer  
Valero Energy Corporation  
San Antonio, TX

Mr. Dave Brownell  
Senior Vice President  
of Global Operations  
ExxonMobil Fuels & Lubricants Company  
Exxon Mobil Corporation  
Spring, TX

Mr. Gary R. Heminger  
Vice Chairman  
Chairman and Chief Executive Officer  
Marathon Petroleum Corporation  
Findlay, OH

Mr. Graeme Burnett  
Chairman of the Board  
Monroe Energy, LLC  
Atlanta, GA

Mr. George J. Damiris  
Treasurer  
Chief Executive Officer and President  
HollyFrontier Corporation  
Dallas, TX

Mr. Daniel Coombs  
Executive Vice President,  
Global Manufacturing,  
Projects, Refining and Technology  
LyondellBasell Industries  
Houston, TX

Mr. Gregory J. Goff  
Past Chairman  
Chairman, President and  
Chief Executive Officer  
Andeavor  
San Antonio, TX

Mr. Michael Coyle  
President, Manufacturing  
Chevron U.S.A. Inc.  
San Ramon, CA
Mr. Robert A. Herman
Executive Vice President, Refining
Phillips 66
Houston, TX

Mr. David Lamp
President and Chief Executive Officer
CVR Energy, Inc.
Sugarland, TX

Mr. James S. Loving
Senior Vice President, Refining, Pipelines and Terminals
CHS Inc.
Inver Grove Heights, MN

Mr. Thomas J. Nimbley
Chief Executive Officer
PBF Energy Inc.
Parsippany, NJ

Mr. Jeff Ramsey
President and Chief Executive Officer
Flint Hills Resources, LP
Wichita, KS

Mr. J. Douglas Sparkman
Chief Operating Officer of Fuels, North America and Chairman of the Board
BP Midstream Partners
Chicago, IL
<table>
<thead>
<tr>
<th>Company</th>
<th>Name</th>
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<tr>
<td>Albemarle Corporation</td>
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<td>Exxon Mobil Corporation</td>
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<td>American Refining Group, Inc.</td>
<td>Brian Zolkos</td>
<td>CITGO Petroleum Corporation</td>
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<td>Arkema Inc.</td>
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<td>Chevron U.S.A. Inc.</td>
<td>Michael Coyle</td>
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We Make Progress | AFPM Annual Report | 30
<table>
<thead>
<tr>
<th>Company</th>
<th>President/Key Contact</th>
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<tr>
<td>LyondellBasell Industries</td>
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<td>Douglas May</td>
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<td>Ross Reucassel</td>
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<td>TPC Group</td>
<td>Edward Dineen</td>
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<tr>
<td>U.S. Oil &amp; Refining Co.</td>
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<tr>
<td>Valero Energy Corporation</td>
<td>Joseph Gorder</td>
</tr>
<tr>
<td>Valero Energy Corporation</td>
<td>Lane Riggs</td>
</tr>
<tr>
<td>W. R. Grace &amp; Co.</td>
<td>Thomas Petti</td>
</tr>
<tr>
<td>Westlake Chemical Corporation</td>
<td>Albert Chao</td>
</tr>
</tbody>
</table>
INTERNATIONAL MEMBERS

ASAHI KASEI Corporation
Axion Energy
Federico Garcia Verdier

Mitsui & Co. (U.S.A.), Inc.
Yuichi Masuda

Petrojam Limited
Kailyn Burnett

PETROTRIN

Delamine B.V.
Gert van der Knaap

Samsung C&T America, Inc
Jeremy Kim

DESA Rrollo Corporativo IDESA, S.A. De C.V.
Bernardo Alvarez Certucha

Solvay

Evonik Corporation
Ronald Birnbaum

Sumitomo Corporation of Americas
Jill Walters

Irving Oil Limited

UBE Industries (America), Inc.
Shin Kawasuso

ITOCHU Chemicals America Inc.
Takuya Kobayashi

Versalis S.p.A.
Stefano Soccol

Marubeni America Corporation
Kazuki Aikawa

MEGlobal
Jim Ashworth

Mitsubishi International Corporation
Miya Kumar
## ASSOCIATE MEMBERS

<table>
<thead>
<tr>
<th>Company</th>
<th>Associate Members</th>
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<tbody>
<tr>
<td>Advanced Refining Technologies</td>
<td>Andre Lanning</td>
</tr>
<tr>
<td>AdvanSix</td>
<td>Erin Kane</td>
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<tr>
<td>AECOM</td>
<td>Linsey DeBell</td>
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<tr>
<td>Aegis Energy Advisors Corp.</td>
<td>Garfield Miller</td>
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<td>Air Liquide Large Industries U.S. LP</td>
<td>Susan Ellerbusch</td>
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<tr>
<td>Airgas, Inc.</td>
<td>Lee Scoggins</td>
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<td>AkzoNobel Polymer Chemistry</td>
<td>Rob van de Graaf</td>
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<td>Alfa Laval Packinox</td>
<td>Thierry Sourp</td>
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<tr>
<td>AlixPartners LLP</td>
<td>Eric Hillenbrand</td>
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<td>All4 Inc.</td>
<td>Kristin Gordon</td>
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<td>Allied Universal</td>
<td>Jerry Drumwright</td>
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<td>Adam Serna</td>
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<td>Allan Koenig</td>
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<tr>
<td>Argo, Inc.</td>
<td>Alan Free</td>
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<td>Argus Media</td>
<td>Kristine Klavers</td>
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<td>Karsten Harstad</td>
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<td>Asset Performance Networks</td>
<td>George DeBakey</td>
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<td>Michael McShan</td>
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<td>Atlantic Methanol Production Co.</td>
<td>Edson Jones</td>
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<td>Christian Vaute</td>
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<td>Babcock &amp; Wilcox</td>
<td>Ashley Colando</td>
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<td>BAKER &amp; O’BRIEN</td>
<td>William Robert Donnell</td>
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<td>Barr Engineering Company</td>
<td>Joel Trinkle</td>
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<td>Bouchard Transportation Co., Inc.</td>
<td>Morton Bouchard III</td>
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<td>Brand Energy and Infrastructure Services</td>
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<td>C&amp;I Engineering</td>
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</table>

We Make Progress | AFPM Annual Report | 33
<table>
<thead>
<tr>
<th>Company</th>
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<tbody>
<tr>
<td>Cajun Industries, LLC</td>
<td>Brett Hughes</td>
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<td>Catalyst &amp; Chemical Containers</td>
<td>William Stacy</td>
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<td>CB&amp;I</td>
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<td>Cenovus Energy Inc.</td>
<td>Keith Chiasson</td>
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<td>Certified Safety, Inc.</td>
<td>Linda Duran</td>
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<td>CH2M</td>
<td>Samir Dave</td>
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<td>Chem32 LLC</td>
<td>Soren Marklund</td>
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<td>Chemical Data</td>
<td>Charles Sievert</td>
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<td>Thomas Holzmann</td>
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<td>Chevron Lummus Global LLC</td>
<td>Janna Chin</td>
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<td>Clariant Corporation</td>
<td>Robert Graupner</td>
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<td>Clean Air Engineering</td>
<td>Scott Evans</td>
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<td>Contract Fabricators, Inc</td>
<td>Boyce DeLashmit</td>
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<td>Cooling Tower Depot, Inc.</td>
<td>Dennis Sheldon</td>
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<td>Crystaphase</td>
<td>John Glover</td>
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<td>Cust-O-Fab</td>
<td>Dean Ojeda</td>
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<tr>
<td>DEWright, Inc.</td>
<td>David Wright</td>
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<tr>
<td>Dorf Ketal Chemicals, LLC</td>
<td>Terry LaFleur</td>
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<tr>
<td>Downstream Advisors, Inc.</td>
<td>Steven Graybill</td>
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<tr>
<td>Dupont Clean Technologies</td>
<td>Kevin Bockwinkel</td>
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<tr>
<td>Echo Group, Ltd.</td>
<td>Mike Roebuck</td>
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<tr>
<td>Emerson Automation Solutions</td>
<td>Jerry Brown</td>
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<tr>
<td>Environmental Resources Management</td>
<td>Toby Hanna</td>
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<tr>
<td>Ethylene Strategies International, LP</td>
<td>Mark Woods</td>
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<tr>
<td>Eurecat U.S. Incorporated</td>
<td>Frederic Jardin</td>
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<td>Evergreen North America Industrial</td>
<td>Kelli Motley</td>
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<td>Excel Modular Scaffold</td>
<td>Dylan Fulton</td>
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<td>Fluor Corporation</td>
<td>Maureen Price</td>
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<tr>
<td>Gallop Tower Field Service</td>
<td>Tim ReBeau</td>
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<tr>
<td>Gantrade Corporation</td>
<td>H. Aaron Parekh</td>
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<tr>
<td>Gayesco-WIKA USA</td>
<td>Robert Torgerson</td>
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<tr>
<td>GHD Services</td>
<td>Frederick Rappold</td>
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</table>
Gladieux Metals Recycling
Gerardo Valdes

Graywolf Industrial Company
Jack Allen

GTC Technology US, LLC
Chuck Fink

Gulf Publishing - Hydrocarbon Processing
Catherine Watkins

Gulfspan Industrial, LLC
Jake Smalley

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Henrik Rasmussen

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Ralph Hargrove

Helm AG
Volker Seebeck

Hertz Equipment Rental Corporation
James Fiscus

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Hunter Buildings & Manufacturing, LP
Buddy Tucker

HydroChem LLC
David Thompson

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Chris Hedge

ICL
Anantha Desikan

IHS Markit
Brenda Lescarbeau

IMI Z&J
Karen Frericks

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Denise Jacobs

Innospec Fuel Specialties LLC
Jim Vrzak

Inserv - Integrated Service Company LLC
Gordon Hampton

InterAtlas Chemical Inc.
Paul Bozek

ioMosaic Corporation
Georges Melhem

J.J. White, Inc.
James White

Jacobs Engineering Group Inc.
Brent Schier

JCL Safety Services
James Leffer

Johnson Matthey
Jennifer Rennick

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Mark Farley

KBC Advanced Technologies, Inc.
Andrew McMullan

KBR
Douglas Kelly

Kiewit
Shayne Andersen

Kirby Inland Marine, LP

Kolmar Americas, Inc.
Rafael Aviner

KP Engineering, LP
William Heimbaugh

KPMG LLP
Regina Mayor
ASSOCIATE MEMBERS (CONTINUED)

LANXESS Corporation  
James Raines

Lauren Engineers & Constructors, Inc.  
Randal Lipps

LBC Houston, LP  
Russell Crawford

Lewis Goetz  
Terry Subia

Linde Engineering North America Inc.  
Ron Helmbeck

LOADSTAR Product Handling Services, LLC  
Brian Haymon

Lucite International Inc.  
Robert Connolly

Lummus Technology  
Helion Sardina

Matheson  
Lori McDowell

Matrix Service  
Kati Zumwalt

Merichem Company  
Kendra Lee

Meridium Inc.  
Jane Bailey

MERRICK & Company  
Travis Beattie

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Daniel Lowry

MISTRAS Group Inc.  
Sotirios Vahaviolos, PhD

Montrose Environmental Group, Inc.  
Daniel Fitzgerald

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Neil Earnest

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Bernard Wicklein

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Mitchell Loughlin

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James Norton

NovaPex  
Laurent Castor

Odfjell USA (Houston) Inc.  
David Ellis

Ohmstede  
Doug Harrington

Oiltanking  
Rance Fromme

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James Bryan

Opportune LLP  
Matthew Flanagan

OSIsoft  
J. Kennedy

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Frank Wolfe

PAS Global, LLC  
David Zahn

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Kent Free

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Perstorp Specialty Chemicals  
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Terence McHugh
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Reid Morrison

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Scott Golden

Procter and Gamble Company
George Koehnke

PSC
Rick Pitman

RAMBOLL ENVIRON
Andrew Edwards

Recon Refractory Engineering & Const.
Dan Bellamy

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Donald Deutsch

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Lee King

Repcon, Inc.
Robert Parker

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Richard Gaona

Rive Technology, Inc
David Aldous

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Rick Heyland

Roddey Engineering Services, Inc.
Michael Newton

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J.D. Slaughter

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Bradford Cook

Sage Environmental Consulting
Steve Probst

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Michele McMurdo

Savage
Jason Ray

Schneider Electric
Guy Grumbles

SGS Petroleum Service Corporation

SI Group
Stephen Haller

SLR
Geoffrey Swett

SNC-Lavalin
Lain Eddie

Sojitz Corporation of America
Takenori Teramoto

Solomon Associates LLC
Charles Reith

Sonneborn, LLC
Luther Jones

Southern Chemical Corporation
Jan Spin

Spirit Environmental
Zachary Byrd

Stancil & Co.
Jeffrey Nichols

STARCON International Inc.
Peter Cianchette

STC
Brian Wilson

Sulzer Chemtech USA, Inc.
Rodney Frisbie

Sunbelt Rentals
Mark Ellis

Swift Fuels, LLC
Chris D’Acosta
ASSOCIATE MEMBERS (CONTINUED)

T.A. Cook
Cameron Mathews

TapcoEnpro, LLC.
David Anderson

Tauber Oil Company
Richard Tauber

Team, Inc.
Ted Owen

Technip USA

Tecnor OrbiChem Ltd.
Charles Fryer

Tetra Tech, Inc.
Perry Lankford

Texas Aromatics L.P.
Melbern Glasscock

The Equity Engineering Group
David Osage

The Linde Group
Raghu Menon

Third Coast International
Jim Clawson

Total Safety U.S., Inc.
Troy Thacker

TRC
Christopher Vincze

Tricon Energy, Ltd.
Ignacio Torras

TRICORD Consulting, LLC
Joe Ibanez

Trihydro Corporation
Calvin Niss

Trinity Consultants, Inc.
John Hofmann

TrinityRail
Gregg Yates

Turner Industries Group, LLC
Tobie Craig

Turner, Mason & Company
Michael Leger

United Rentals, Inc.
Michael Abbey

Univar USA Inc.
George Fuller

Universal Plant Services, Inc.
Brad Jones

Vallen
Matthew Dulaney

Vapor Point, LLC
Jefferey St. Amant

Veolia North America
Miranda Schield

Vopak Americas
Dick Richelle

Waid Environmental
Jason Graves

Weaver
Wade Watson

Wood Group
Vikas Moharir

Wood Mackenzie
Samuel Davis

WorleyParsons
Paul Fisher

Yokogawa
Eric Heavin

Zachry Group
Keith Manning
COMMITTEES

The AFPM Board of Directors relies on the counsel and support of experts among its membership to accomplish specific Association functions and plan for the Association’s future. There are 21 committees that serve to assist the Board in achieving AFPM’s goals.

Please visit the AFPM website for a complete description of all committees and their rosters at www.afpm.org/committees.

The Issues Committee advises the Executive Committee and provides direction and guidance to AFPM staff on current policy issues important to the refining and petrochemical industries.

Chair: Gary Heminger, Marathon Petroleum Corporation
AFPM Secretary: Geoff Moody

The Environmental Committee provides a forum for members to exchange views and discuss environmental activities and advises the AFPM Board and staff on current environmental laws/regulations.

Chair: Michael Hopperton, BP Products North America
AFPM Secretary: David Friedman

The Associate Steering Committee provides a forum for the Association’s contractors, suppliers, vendors and consultants to communicate with the Board of Directors on items of mutual interest and support.

Chair: Jeff Webber, Altairstrickland Inc
AFPM Secretary: Latoya Britt

The Fuels Committee provides information and policy recommendations concerning legislative, regulatory and motor fuel specification developments.

Chair: Fred Walas, Marathon Petroleum Corporation
AFPM Secretary: Tim Hogan

The Communications Committee shares information, ideas and communications strategies to increase support by external audiences for policy positions established by the Executive Committee and adopted by the AFPM Board.

Chair: Chuck Rice, Marathon Petroleum
AFPM Secretary: Jaime Zarraby

The Government Relations Committee serves as the principal forum for sharing information, ideas and strategies on legislative and regulatory issues important to the refining and petrochemical industries.

Chair: Jake Menefee, Marathon Petroleum Corporation
AFPM Secretary: Geoff Moody
The **Legal Committee** provides legal and litigation strategy recommendations to advance the interests of the Association membership.

**Chair:** Trevor Black, Chevron U.S.A. Inc.  
**AFPM Secretary:** Rich Moskowitz

The **Labor Relations & Human Resources Committee** facilitates the exchange of information on matters related to industrial and labor relations, human resources practices and collective bargaining.

**Chair:** Chad Wilfong, Valero Energy Corporation  
**AFPM Secretary:** Daniel Strachan

The **Waxes Subcommittee** promotes the benefits of current and new wax uses and technologies to the marketplace as well as issues related to the safe handling, transportation and specifications of petroleum wax.

**Chair:** Terry Truitt, Chevron Phillips Chemical Company LP  
**AFPM Secretary:** Daniel Strachan

The **Reliability & Maintenance Committee** promotes the exchange of technical information and proven practices on reliability, maintenance, inspection, procurement, project engineering and turnarounds.

**Chair:** Rodney Goodwin, DuPont  
**Secretary:** Gordon Robertson

The **Manufacturing Committee** provides technical support and recommendations on matters that affect facility operations and products including federal, state and local laws and regulations.

**Chair:** Alan Davis, Chevron U.S.A. Inc.  
**AFPM Secretary:** James McCloskey

The **Petrochemical Committee** advises the AFPM Board and staff on current issues of importance to the petrochemical industry.

**Chair:** Raphael Crawford, Albemarle Corporation  
**AFPM Secretary:** James McCloskey

The **Petrochemical Statistics Subcommittee** advises and assists the Petrochemical Committee and AFPM staff on matters pertaining to the collection and dissemination of statistics on petrochemical, including trade, production and inventories.

**Chair:** Brian Sinn, Enterprise Products Operating LLC  
**AFPM Secretary:** Rose Sabijon

The **Operational Planning Control & Automation Technologies Committee** focuses on sharing practical experience with the application management, and integration of computing technology in areas including process control and automation, modeling, real-time optimization and Internet-based applications.

**Chair:** Adi Punuru, ExxonMobil  
**AFPM Secretary:** Daniel Strachan
The **Safety & Health Committee** provides a forum for members to exchange views and share occupational and process safety best practices and developments in safety-related legislation and regulation.

**Chair:** Michael Ingraham, BP Products North America  
**AFPM Secretary:** Lara Swett

The **Industrial Hygiene Subcommittee** provides a forum for the exchange of information on industrial hygiene, regulatory and legislative trends and developments as well as other matters concerning industrial hygiene standards and practice.

**Chair:** Pete Conroy, CITGO Petroleum Corporation  
**AFPM Secretary:** Gordon Robertson

The **Cybersecurity Subcommittee** provides information and recommendations on matters pertaining to cybersecurity and cyber threats.

**Chair:** Kenny Mesker, Chevron U.S.A.  
**AFPM Secretary:** Daniel Strachan

The **Tax Policy Committee** provides analysis and recommendations on tax-related legislation and engages in regulatory matters at the U.S. Treasury Department and Internal Revenue Service.

**Chair:** Audrey Miller, Phillips 66  
**AFPM Secretary:** Geoff Moody

The **State & Local Outreach Committee** provides a forum to discuss state-level legislative and regulatory issues of importance to AFPM’s refining and petrochemical members. The Committee will advocate for AFPM policies at the state and local levels, as directed by the Issues Committee.

**Chair:** Brendan Williams, PBF Energy  
**AFPM Secretary:** Don Thoren

The **Transportation & Infrastructure Committee** helps develop effective policy on regulatory and legislative matters related to transportation and infrastructure that promote AFPM member interests and improve the safe and efficient transport of fuels and petrochemical products. The committee advocates for AFPM member companies by communicating their key role in the supply chain and their efforts to improve the safe and efficient transportation of essential fuels and petrochemical products.

**Chair:** Ryan Biggs, Andeavor  
**AFPM Secretary:** Rob Benedict

The **Base Oils & Waxes Committee** provides oversight and assistance on matters related to automotive oils, base oils and waxes.

**Chair:** H. Don Davis, Ergon, Inc.  
**AFPM Secretary:** Daniel Strachan
INFORMATION RESOURCES

Publications
AFPM publications inform our members about industry statistics, technical innovations, environment and safety developments, security, and many other relevant issues.

AFPM’s online store allows you to search technical papers and reports by keyword, author and/or meeting, and directly download to your computer.

Learn more at www.afpm.org/publications.

Newsletters & General Publications
- Annual Report
- Daily Alert
- Energy in Motion – The AFPM Transportation & Infrastructure Newsletter
- Fuel Line
- Green Room Report
- Outreach Update
- Security Watch
- Tech Update

Statistics
- Annual Survey of Occupational Injuries & Illnesses
- Process Safety Event Report
- U.S. Refining Capacity Report

Petrochemical Statistics Subscriptions
- AFPM Petrochemical Surveys – quarterly
- Selected Petrochemical Statistics Trade Data – monthly

Technical Papers
- Annual Meeting Papers
- Cybersecurity Conference Papers
- Environmental Conference Papers
- International Base Oils & Waxes Conferences Papers
- Labor Relations/Human Resources Conference Papers
- Operational Planning Control & Automation Technologies Conference Papers
- Reliability & Maintenance Conference Papers

Communications
Through a combination of traditional and social media outlets, AFPM reaches the press, policymakers and the public to educate them on the facts about our industries’ work and value, and to inform member company employees about important issues impacting the industry.

AFPM continues to increase its media visibility and rapid response capabilities across print, online, radio and television outlets.

AFPM also has an active social media presence that includes Twitter, LinkedIn and Facebook; an AFPM podcast called Flashpoint; the Petro Primer Blog at blog.AFPM.org. and Grounded in Fact blog at www.groundedinfact.com.

Transcripts
- Biennial Cat Cracker Seminar Q&A
- Operations & Process Technology Summit
1. Energy Information Administration, Annual Energy Outlook 2017
2. Energy Information Administration, Refinery Capacity 2017
3. Energy Information Administration, Annual Energy Outlook 2017
4. Energy Information Administration, Annual Energy Outlook 2017
6. IMPLAN
7. API
10. IMPLAN
12. 2016 AFPM Occupational Injury and Illness Report
14. AECOM, 2017