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THE ALLIANCE IS A PUBLICATION OF THE LOUISIANA CHEMICAL INDUSTRY ALLIANCE, WHOSE MEMBERS ARE LOUISIANA'S CHEMICAL MANUFACTURERS AND THEIR VENDORS AND SUPPLIERS. THE PURPOSE OF THIS MAGAZINE PUBLICATION IS TO ADVOCATE A BETTER UNDERSTANDING OF THE BENEFITS OF CHEMISTRY TO LOUISIANA AND THE WORLD, WHILE HIGHLIGHTING ITS ESSENTIAL NATURE AND BENEFITS TO EVERYDAY LIVING. THE ALLIANCE IS PUBLISHED TWICE ANNUALLY.

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A LETTER FROM THE PRESIDENT

Welcome to the Fall edition of the LCA/LCIA Alliance Magazine and to our 60th Annual Meeting. Thank you to all our members for making 60 years of LCA possible and to our sponsors who make this publication a success.

This year's Annual Meeting we will take time to celebrate the past 60 years of Louisiana's chemical industry and the role LCA and LCIA have played in its growth. But we will also take a look toward the future, toward ways to continue to grow and potential pitfalls that may impede that future success.

We are in the midst of a crucial election cycle in Louisiana. As the November runoff elections loom near, we will soon know the full lineup of elected officials who will decide tax policy, regulatory rules and our future legislative and congressional districts. LCA has been actively engaged in this election cycle and will continue to work closely with all the newly minted elected officials as they take office to make sure they are aware of the importance of chemical manufacturing to Louisiana.

This year's meeting will welcome back some familiar faces of the past, celebrating and honoring past members of the LCA Board of Directors who have molded this organization into what you see today. We would not be here without the contributions of these dedicated individuals, and we hope you will take some time to thank them for their leadership when you see them.

There will also be time to thank those who are currently shaping the industry with the annual LCA Committee MVP awards and the SAFE Awards. These are the folks who have taken the baton from our past champions and run with it. Their tireless effort has propelled

LCA headfirst into the 21st Century and beyond.

Navigating the waters of the next 60 years will not always be easy. Increased activism that threatens growth along with legislation to negatively impact the ability of facilities to legally and properly operate will threaten the chemical renaissance we have enjoyed for much of the past decade.

But we will continue to tell the success stories of finished products that make lives better, community investments that give opportunities to people who otherwise would not have access to education and job opportunities, and we can share the victories of finding new processes to help operate in a cleaner, more efficient fashion.

For the past 60 years LCA has been the leading advocate of Louisiana's chemical manufacturing industry, and we plan to continue to lead that charge for the next 60 years. And with your support, we can all succeed.

On behalf of the LCA Team, thank you for an incredible first 60 years. We hope you enjoy this week's festivities and leave the meeting activated and motivated to help us continue to play a pivotal role in the future of this industry in Louisiana.



Gregory M. Bowser
President
Louisiana Chemical Association
Louisiana Chemical Industry Alliance



Gregory M. Bowser



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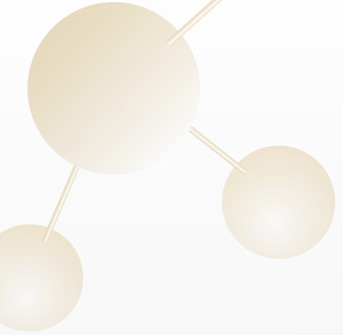
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Louisiana ELECTION UPDATE

Jim Harris, On Behalf of Louisiana Ammonia Producers

There have been many organizations of Louisiana citizens who have come together working for a better state over the years. Three of those organizations that have stood the test of time are the Council for a Better Louisiana, the Public Affairs Research Council and the Committee of 100.



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As I write this, Louisiana is approaching its October 12 primary elections. The race for governor is heating up, and the current question centers around the possibility of a runoff in the governor's race. All three candidates have ramped up their campaigns and are advertising on television. There are multiple possibilities - Republican businessman Eddie Rispone is running some negative ads, which could possibly hurt him. If his numbers drop low enough, Democratic incumbent Gov. John Bel Edwards could avoid a runoff. That scenario could have repercussions in legislative races across the state, as it will affect get-out-the-vote efforts.

Twelve senators were elected without opposition (nine are incumbents and three are House members); 37 representatives were elected without opposition (34 are incumbents, one is a senator and two are new members).

Regardless of the outcome of the governor's election, the dynamics of the Legislature will change. It will be more independent and in control of itself and will likely become more conservative. The newly elected Legislature and governor will be official in January. At that time the chambers will elect their president, speaker and pro temps. This is the first cycle in which the Senate has a secret ballot for leadership, which is likely to create unlikely bedfellows.

Committee leadership will be determined after those elections, although jockeying for those positions has already begun. The seniority system doesn't mean what it has in the past in either chamber. Also, all the candidates for president and speaker are running for leadership positions, primarily for the money committees.

All that leads to the question of supermajorities, which would allow an override of a gubernatorial veto. Currently, Republicans only lack one


seat to gain a supermajority of 26 votes; there are two good chances for a "flip" to that party. Republicans need to gain nine seats to secure a supermajority in the House. That party has already picked up four seats in districts where Democrats are not running and need to win five more. There are six races in play for a "flip."

The incoming Legislature will also oversee redistricting in 2021.

It's impossible to predict leadership without knowing Who's on first, What's on second and I Don't Know's on third. However, it is imperative to know where candidates stand on important issues that will shape the future of our state, such as state finances, education, transportation infrastructure, and criminal justice/public safety. These are issues that matter to businesses, policy makers and all individuals who call Louisiana home.

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ONE LINDE MAKING LOUISIANA MORE PRODUCTIVE

The industrial gases, advanced applications technologies and engineering solutions supplied by Linde have helped hundreds of customers in Louisiana and around the world operate more efficiently, save money, grow profitably and enhance their environmental performance for over 50 years. Now that Praxair and Linde have become one – creating the world’s largest industrial gases company – the new Linde can deliver even more innovative and sustainable solutions to its customers and create even greater long-term value for all stakeholders across the state.

In short, Linde will be able to help make Louisiana even more productive in the same way it is living up to its mission of “Making our world more productive.”

GROWING AND CREATING JOBS

In February of this year, Gov. John Bel Edwards and Dan Yankowski, president, Linde U.S., announced Linde will construct a \$250 million world-scale hydrogen plant in St. James Parish. According to Louisiana Economic Development (LED), the new plant will create 15 new direct jobs with an average annual salary of \$80,000, plus benefits. LED estimates the project will result in 62 new indirect jobs, for a total of 77 new jobs in Louisiana’s Southeast Region. The project will also generate an estimated 150 construction jobs at the height of construction.

“Linde’s commitment to Louisiana is a vote of confidence in our state’s industrial corridor, and it represents another great win for Louisiana’s growing economy,” Gov. Edwards said. “This new investment from Linde will create new opportunities for our people and support increased economic activity in the region.”



The steam methane reformer that Linde will build, own and operate in St. James Parish will be capable of producing in excess of 170 million standard cubic feet per day of high-purity hydrogen. Once complete, this project will increase the company's Gulf Coast hydrogen capacity to more than 1.7 billion standard cubic feet per day.

MEETING THE NEED FOR SKILLED WORKERS ACROSS LOUISIANA

In addition to growing our business and helping customers increase productivity, enhance environmental performance and grow, Linde is dedicated to giving back to local communities around the world. One of the most impressive examples happened right here in Louisiana, where the company introduced its **Skills Pipeline™** workforce development program to train welders.

Working with the Louisiana Community and Technical College System (LCTCS), the company launched the program in 2014 by providing more than \$300,000 to train 100 new welders. Since then, hundreds have been trained, and Linde has provided more than \$1 million towards the effort in Louisiana alone.

"We began this effort to help address the severe shortage of skilled trades needed to support growth in the Gulf Coast," said Linde's Executive Vice President Dr. Anne Roby. "These new welders are already making their mark, working for many employers, including our own business, our customers and other industrial companies in the area."

Budding welders are not the only ambitious, talented individuals across



the state to benefit from the program. In 2019, Linde expanded its **Skills Pipeline** program in collaboration with the Central Louisiana Technical Community College in Leesville and the U.S. Army installation at Fort Polk. The approved Army career skills program, which began in February, provides professional truck driving training and work readiness skills to soldiers who are transitioning back to civilian life. The curriculum emphasizes work in the chemical industry and is the first in the **Skills Pipeline** family to be solely focused on veterans.

"Today, thanks to Linde, we have graduates working and earning competitive wages," said Monty Sullivan, president of the LCTCS. "Many of whom would not have had the opportunity to attend college. Their lives and families have greatly benefitted from the company's support."

SUPPLYING HYDROGEN FOR CLEANER-BURNING FUELS

In keeping with Linde's commitment to both helping drive growth in Louisiana and preventing

environmental degradation, Linde's Gulf Coast hydrogen systems help make it possible for refineries in the state to produce ultra-low-sulfur diesel and other transportation fuels that meet today's more stringent environmental standards. At the same time, chemical companies throughout the region will use the hydrogen to produce intermediate and specialty chemicals.

"Our extensive hydrogen systems in the Gulf Coast have been and will continue to be expanded to support the region's growing chemical and refining industries," said Yankowski.

SUPPLYING CARBON MONOXIDE TO THE CHEMICALS INDUSTRY

To help meet the growing need for carbon monoxide in the Geismar area, the company completed a major investment project at its Geismar facility in 2018, bringing a new plant online that will increase carbon monoxide supply to customers in Geismar and the surrounding area. This latest investment further strengthens Linde's ability to reliably serve increased demand from customers, ranging from world-scale refineries to leading biofuel companies.

The plant incorporates a new carbon monoxide purification train that produces more than 13 million cubic feet per day of carbon monoxide. Carbon monoxide is essential for the manufacture of a wide array of products, such as polyurethane precursors and other specialty chemicals.

"We have been an integral part of the Geismar chemical industry for over 50 years and with this latest investment, we are demonstrating our

commitment to remaining a reliable and efficient source of industrial gases in the region well into the future," noted Yankowski.

The plant is not the company's only recent investment in carbon monoxide production in Geismar. In late 2017, the company announced its plan to build a new syngas processing plant at BASF's facility in the area. The plant, which will start up in 2020, will produce high-purity carbon monoxide and hydrogen from a stream of crude synthesis gas.

These investments, including pipeline extensions, further exemplify the company's ongoing commitment to meeting customer demand and further increasing supply reliability in the Mississippi River chemical corridor.

PACKAGED AND SPECIALTY GASES FOR A RANGE OF INDUSTRIES

Linde's supply capabilities in Louisiana are by no means limited to bulk industrial gases. For smaller or more specialized applications, Linde offers a complete line of gases in high-pressure cylinders and liquid containers in a variety of sizes. These gases are used in a range of industries, including welding and metal fabrication, healthcare, electronics, laboratories, diving and many others.

In fact, Praxair Distribution, Inc. (PDI), the Linde company that supplies these packaged gases and products and services across the U.S., has an extensive presence in Louisiana. This includes stores in Baton Rouge and Morgan City and four gas filling stations, including ones in Taft, Baton Rouge, and Sulphur and a specialty gas plant in Geismar. "We cover the whole spectrum of industrial gases in Louisiana," said PDI's South Region Vice President Tony Wallace. "We can provide medical gases for hospitals and institutions, helium for diving gases and do industrial filling."

NITROGEN PURGING FOR REFINERIES AND CHEMICAL PLANTS

Just as refineries and chemical plants use Linde's hydrogen and other gases in their production processes, they also need their tanks and pipelines purged of product. Praxair Services, Inc. (PSI), a Linde company, provides nitrogen purging services to refineries and chemical plants. "We use nitrogen to safely purge potentially explosive hydrocarbon and air mixtures from vessels, gas lines, transfer lines and equipment and provide other related services to customers across Louisiana," said PSI President Richard Minter.

LIVING THE LINDE VALUES

Linde is devoted to improving the communities where employees live and work. Programs like the **Skills Pipeline**, along with charitable contributions and employee volunteerism, support initiatives that make important and sustainable contributions to communities around the world and reflect Linde's value of community.

In Louisiana and everywhere else Linde operates, the company puts safety first and believes all incidents are preventable. The company also values integrity, striving to achieve goals ethically, and with the highest integrity. Accountability and inclusion are also among Linde values. Employees all hold themselves accountable for the company's performance, individually and collectively.

Equally important, Linde embraces diversity and inclusion in order to attract, develop and retain the best talent and build high-performing teams. By hearing all voices and benefiting from diverse opinions, thoughts and perspectives, Linde will achieve its full promise and potential, in Louisiana and everywhere around the world.



On to a bright future! Graduates of the inaugural Skills Pipeline workforce development program for welding celebrated in Baton Rouge.



OneSource EHS is a Louisiana based consulting firm specializing in environmental, health and safety support for industrial clients across the Gulf South. Founded in Prairieville Louisiana, OneSource is the leading single-source solutions provider in the region. OneSource’s mission is to help companies protect their most valuable assets: Their People, Property and Profits.



The idea of OneSource EHS, was formulated from years of experience working in industry for a Fortune 500 EPC company. Our founder, Mr. Ronny Daigle’s participation in the growth of that company ultimately led his passion to safeguard employees while helping companies expand. During his time in industry, he recognized the void of reliable, comprehensive vendors that could work with his teams to accomplish company objectives. His strategic vision for OneSource focuses on three fundamental aspects: First, find top industry professionals; second, quickly achieve the highest level of compliance possible; and third, integrate safety and operations to improve efficiency. This vision has been achieved by numerous clients and who have increased profitability while maximizing safety.

As the President of OneSource EHS, Ronny leads a team of experts to support industrial clients as they work to safeguard employees, the public and the environment. As a comprehensive

EH&S Solutions provider that can work within a company, facility, or construction project to improve regulatory compliance, safety and success, OneSource has proven to be a valuable partner to any business; large or small.

Led by experienced industry leaders and top-notch professionals, OneSource EHS is at the top of their game providing innovative E, H & S solutions that take their clients beyond compliance. As a high performing team, they develop and implement Environmental, Health and Safety programs that can bring a company to a higher level of safety and operating performance. In providing industry leading technical support, program development and professional on-site services, OneSource’s clients are able to focus on their core business.

As industry continues to grow across this region, so do the needs for skilled, professional and experienced personnel to support safety and compliance initiatives. OneSource

EHS has the people, the processes and the programs to support clients throughout the entire process life cycle. Whether clients need program development, implementation, procedure development to, training or on-site safety support, OneSource EHS can meet your needs.

OneSource EHS has many recent successes in the chemical and petrochemical industries, and are continually looking for ways to maximize service offerings for clients to expand its offerings for manufacturing companies, industrial contractors and the construction sector. “We work to stay current with emerging technology trends that will enhance our core service offerings and bring the best possible solutions to our industry partners,” Daigle stated. “There are so many new advancements relating to interactive procedures and training and we are excited about what the future holds for industry and are exploring new ways to help industry lead the world market.”

LCA

LOUISIANA CHEMICAL ASSOCIATION



During World War II, manufactured goods from Louisiana played a pivotal role in winning the war.

From Higgins Boats to tetraethyl lead. From high octane fuels to rubber tires. From aluminum to oil. Goods found, produced and manufactured in Louisiana, by Louisianians, helped win the war.

And once the war ended, the thousands of Louisiana soldiers who defended our freedom in Europe, the Pacific and along our home fronts, came home and went to work. Many of those same facilities that equipped the soldiers with the proper tools to succeed on the battlefield soon equipped them with the proper careers to prosper back at home.

But despite the rapid growth of the chemical manufacturing industry in Louisiana during the post-war era, something was missing. There was a need. A need for a collective voice to represent this industry to state elected officials, local elected officials and the local communities as a whole.

So in 1959, to fill that need, the Louisiana Chemical Association was born.

The association would unite industry members to meet and discuss common needs and desires in promoting a positive business climate for chemical manufacturing that would ensure the long-term economic growth of its membership.

And just five years into its existence, LCA had its first big opportunity.

In 1964, Governor John McKeithen had a need. He was looking for a way to entice new businesses to put down roots in Louisiana. McKeithen heard Louisiana's incentive package to new manufacturing businesses was the third most generous in the country, incensed, he asked why was it not the number one. Through work with LCA, Gov. McKeithen filled his need for economic growth by rolling out his "Right to Profit" package, which included the already in existence Industrial Tax Exemption Program (ITEP) and a new natural gas rebate of two-cents for every 20 cents spent.

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The Right to Profit package sparked an industrial surge in Louisiana throughout the 1960s, bringing in new investment that would equal \$24 billion in today's economy. The new businesses, the new jobs and the new investments were due in large part to the collective ability of LCA to voice the desires of an industry wishing to grow in Louisiana, a state blessed with abundant natural resources and access to American's great waterways.

LCA next showed its mettle in dealing with a need to respond to environmental issues in the 1980s.

In 1984, following the Bhopal disaster in India, LCA was a leader in helping to create the Louisiana State Emergency Response Commission (SERC). In fact, to fill the need for local leadership in emergency situations, LCA helped Louisiana become one of the first two states in the country to implement a SERC protocol. The SERCs began establishing procedures of collecting information, reviewing local response plans, designating emergency planning districts and appointing planning committees for each district. SERCs and Local Emergency Planning Committees (LEPCs) are now prevalent in all 50 states and some U.S. territories.

Along with SERCs, there was a need in the 1980s for a uniform code in regards to safety at manufacturing facilities. The Canadian Chemical Manufacturers Association endorsed a Responsible Care Code, which was later adopted by the Chemical Manufacturers Association (now the American Chemistry Council). Their goal was to have all of their members and member associations adopt the code. Since LCA's membership did not completely overlap with CMA's, there were member companies who had not adopted the code. As a way

to incentivize members to evaluate, monitor and improve process, personnel safety and environmental performance, LCA created the Serious About Fostering Excellence (SAFE) program. SAFE filled the need for uniformity and did so in a way that helped make safety performance tracking easy and public information, but also recognized members who achieved the greatest success as measured through a rigorous, objective and transparent evaluation process.

The SAFE Awards are now a much sought after honor and has become one of the keynote events at LCA's Annual Meetings.

The late 80's also saw LCA support critical research that has gained state, national and worldwide acclaim. Amid allegations that Louisiana had the highest cancer rates in the nation, the LCA searched for accurate scientific data to address public concerns about cancer, chemicals and the environment. In 1990/'91, the association funded the bulk of a cancer incidence and mortality data analysis done by the Louisiana Tumor Registry, Office of Public Health, Louisiana Department of Health and Hospitals with a no-strings-attached grant of several hundred thousand dollars. The results showed that, with the exception of lung cancer, residents of south Louisiana had incidence rates that is, the number of people who contract cancer, for most of the common cancers, either at or lower than the national average. South Louisiana's cancer mortality rates, those who die from cancer, was higher than the national average for certain cancers and in certain demographic groups, an indication that access to early screening for various types of cancer and timely treatment were sorely needed in the state. Since that

time Louisiana has been known as a leader in researching cancer incidence and cancer mortality.

Though LCA had spent much of its first 30 years playing an influential role in policymaking at the Capitol, it did not have an influential voice in who got elected to vote on that policy. To help fill the need for pro-business minded elected officials, the Louisiana Manufacturers Political Action Committee (LAMP) was formed in 1985. LAMP is a state political action committee that endorses candidates who support job growth in the state for Louisiana's chemical industry. Since its inception, LAMP has become one of the most prominent players in Louisiana politics and has continued to achieve "Big PAC" status through having more than 250 individual members of the PAC and has continued to grow through the rousing success of its two annual golf tournaments in Lake Charles and Baton Rouge.

In 1989 Bill Senn, then Chairman of the LCA Board of Directors, saw a need for the companies who do business with the plants to become more involved in promoting the industry. His plan was to create a separate, but coexisting, organization. An organization that would have its own Board of Directors where the suppliers held a majority of the seats. His creation became the Louisiana Chemical Industry Alliance (LCIA). In 30 years, LCIA has seen membership and involvement skyrocket, with more than 850 members to date. LCIA members have also become increasingly active in sharing industry stories and their own success stories because of the chemical industry in Louisiana.

Now LCA had a presence in legislative affairs, elections, environmental, safety, security and

workforce development. But there was still a big need left unfilled.

Companies in Louisiana's chemical industry wanted a way to give back to their local communities. To give money where they knew the funds would be used toward a project that was important to them and to the communities where they live, work and play. So LCA started the Louisiana Foundation for Excellence in Science, Technology and Education (LaFESTE). LaFESTE has expanded philanthropic activities that promote the ideals in its name and has a keen interest in matters that affect the economic viability of LCA and LCIA members. LaFESTE has conducted a multitude of projects including, but not limited to: administering ozone research for the Baton Rouge Ozone Task Force, a number of Beneficial Environmental Projects, work for the Baton Rouge Clean Air Coalition and running an ad campaign on public radio touting the achievements of the industry in Louisiana.

For 60 years, LCA has been ready and willing to fill any need that presents itself to members of Louisiana's chemical manufacturing industry. Its success is due in large part to its strength at the Board level, which is made up of executives at LCA member companies. It also due to the engagement and passion of its membership. From activity at the committee level to participation in industry-wide events, the support and fervor LCA and LCIA members have for sharing the great products, stories and people that come out of this industry is awe-inspiring. These stories are what have driven the success of LCA for 60 years, and the success stories yet to come will be what helps drive LCA for the next 60.



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20 YEARS — OF — SOLUTIONS THROUGH SCIENCE

By: Alexis Schlatre, Solutions Through Science Executive Director

As we offer our congratulations to The Louisiana Chemical Association on their 60th Anniversary, we'd also like to mark a significant milestone for Solutions Through Science (STS). Next year, STS will celebrate its 20th Anniversary.



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SOLUTIONS THROUGH SCIENCE

IT HAS BEEN AN EVENTFUL TWO DECADES.

STS was formed in 2000 with the goal of being a single voice for the chlor-alkali producers and users in the state. We are truly dedicated to promoting the “solutions through science” that our industry provides. Working closely with the Louisiana Chemical Association and with the American Chemistry Council’s Chlorine Chemistry Division, STS promotes the benefits of chlorine chemistry and its many products through educational outreach and issues management.

HOW WE GOT HERE

In the late 80s, Louisiana was experiencing an escalation of extreme environmental activism. The chlorine chemistry industry realized it needed a united voice to balance the narrative put forth by organizations such as Greenpeace that showed up in Louisiana calling for an end to the production of polyvinyl chloride (PVC). Over the course of the next ten years, several STS member companies were the target of assaults and maligned accusations.

It was essential that our citizens be informed about the industry’s contributions to the state, as well as the importance that its products play in their day-to-day lives and those of people around the world.

STS initiated a comprehensive educational outreach and advocacy initiative to inform key stakeholders

and our plant communities. First, we made the point that our chemistries go well beyond healthy swimming pools and effective household cleaners - they touch every aspect of our lives from clean water, to pharmaceuticals, to agriculture, to high-technology and energy efficient building materials. Second, with 35 to 40 percent of the nation’s annual chlorine capacity being produced in Louisiana, we raised awareness that the industry supports tens of thousands of jobs and brings over a billion dollars to the state every year.

WHERE WE’VE BEEN

Before long, the tide began to turn as people began to understand and value the contributions of STS member companies and the products they made possible.

Over the past twenty years, STS has continued to promote the direct value that member companies bring to the state, including providing jobs for more than 72,000 Louisiana residents. We have introduced legislation to protect locally manufactured building products from overly restrictive building requirements and helped to safeguard the use of PVC products on state construction projects. STS continues to work with state agencies to help achieve policies that reflect the vital role the chlorine chemistry industry and its products play in Louisiana.

STS maintains a visible presence educating the general public about the positive impacts chlorine chemistries

and their products have on society; speaking at local Community Advisory Panels, Lions Clubs and Rotary Clubs; and by participating in middle school and high school STEM events.

Over the years, STS has invested in a number of major projects, such as a Habitat for Humanity house designed by LSU’s School of Architecture using products made from chlorine chemistry. We also sponsored the Wall’s Project Mural #21 “On The Shoulders of Giants” on the façade of the Mentorship Academy in downtown Baton Rouge, and collaborated with the Louisiana Resource Center for Educators to develop a chlorine chemistry curriculum for elementary and middle school students.

And on the public health front, STS developed and distributes a chlorine solution bottle to beachgoers and fishermen every year to help protect against the flesh-eating bacteria, *Vibrio vulnificus*. We donate swimming pool test kits to the Louisiana Department of Health and Hospital’s regional public health offices, and provide clean up information and products to people in need following major natural disasters.

WHERE WE ARE GOING

Through all of these opportunities, our mission has been to build and maintain a bridge between industry and the communities in which we live and work. We want our young people to know what it means to

work in a chlor-alkali facility and to spark interest in our future workforce. Additionally, we want to continue to raise awareness of the profound benefits and contributions that chlorine chemistries provide Louisiana.

Recently, the voices of extreme environmental activism have again begun to rise. While it’s not the identical issue from so many years ago, the intimations are similar and the targets are the same. It’s unfortunate to be traveling this road again, but we trust that STS’ twenty-year history of educating our constituents on the value of the chlorine chemistry industry will offer resolutions built on sound-science, our chemistries’ contributions to society-at-large and STS members’ commitment to Louisiana. Here’s to the next twenty years!

Alexis Schlatre is the executive director of Solutions Through Science. STS is a partnership of the chlor-alkali producers and users in the state of Louisiana. Its mission is to promote the benefits of chlorine chemistry and its many products through educational outreach and issues management. For more information, go to www.stsla.org.



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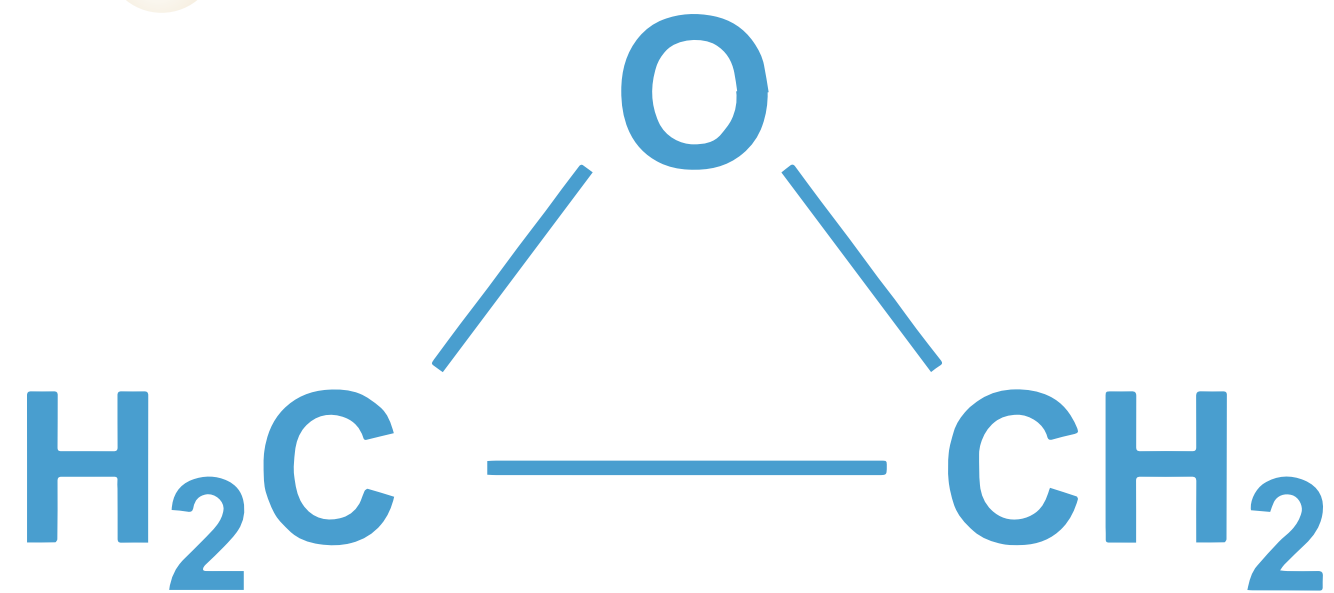
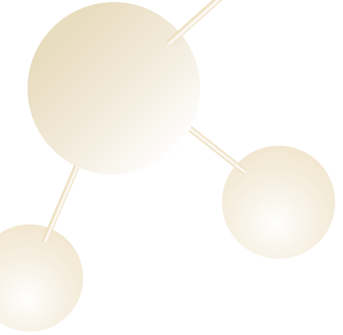


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ETHYLENE OXIDE

Michael Power
 Senior Director, American Chemistry Council
 Executive Director, Georgia Chemistry Council

The U.S. Environmental Protection Agency's (EPA) 2018 release of its National Air Toxics Assessment (NATA), which estimates human health risks from breathing hazardous air pollutants, recently has been publicized widely by the news media with a focus on ethylene oxide. This coverage has sparked unnecessary outrage and concern amongst citizens and elected officials in Illinois and Georgia and it is likely that additional states will look to act in 2020.

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All chemicals – whether used for cleaning your home or for manufacturing in an industrial process – must be used responsibly. They are complex and they come in, and from, many different sources. My work with the chemical industry has made me acutely aware of the safety, risks and hazards associated with exposure to and emissions from chemicals. My work has also educated me on the intricacies of measuring and monitoring, as well as the science behind determining acceptable levels of exposure and emissions.

Ethylene oxide is a key industrial building block ingredient in the manufacturing process of a large number of products used by people and businesses every day. These include antifreeze used in cars, deicing compounds used on airplane wings, brake fluid, carpeting, upholstery, recyclable plastic packaging and products made from fiberglass such as bathtubs and bowling balls. Derivatives of ethylene oxide are also used to make shampoo, cosmetics, ointments and pharmaceuticals used by families across the U.S.

In other words, ethylene oxide is critical in the production of numerous consumer goods and is used by a variety of industries for a number of purposes. One of those important purposes is the sterilization of medical equipment. Without ethylene oxide, the sterilization of many heat sensitive materials used in the healthcare system - both equipment and supplies - would be jeopardized and in turn affect the ability of the entire healthcare industry to operate effectively and efficiently.

Ethylene Oxide is produced naturally by the human body. It is also present in the environment, emitted when plants decay, cooking oils, cigarette smoke and other sources.

This said, ethylene oxide is considered a carcinogen. With serious, long-term exposure, it can present a risk of cancer.


The key in assessing the risks associated with ethylene oxide is monitoring and measuring the levels present in the air. Because the chemical is found naturally in ambient air, concentrations of ethylene oxide show up in nearly every test even without contribution from industrial use.

And while EPA scientists are confident that ethylene oxide has been detected in places such as Georgia, they are not confident in the amount, according to Janet McCabe, who was formerly the EPA's acting assistant administrator for its Office of Air and

Radiation. She recently was quoted stating: 'It's very difficult to measure such tiny amount of chemicals in the air accurately.' Without being able to pinpoint the exact sources in ambient air through testing, determining a quantifiable value attributable specifically to manufacturing plant emissions has proven to be an inexact science.

Since the release of the NATA, we have come to understand that it overstates the amount of ethylene oxide in the air. For example, the ethylene oxide levels reported in Georgia are less than suggested by the NATA, and thus present lower risk levels according to Georgia's Environmental Protection Division (EPD). According to Ken Mitchell, deputy director of the EPA's air and



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radiation office in the southeast, new state EPD modeling showed lower potential cancer risks surrounding the plants in question than indicated in the EPA's NATA report.

Adding more confusion is the EPA's 2016 Integrated Risk Information System (IRIS) program assessment of ethylene oxide and its derived cancer value, which is the source of the estimated cancer risk for ethylene oxide in the NATA. While IRIS modeled values are not intended to be regulatory standards, the reported value for ethylene oxide grossly misrepresents its impact on public health. For example, it suggests cancer risks at levels 19,000 times lower than what is produced naturally by the human body. This defies commonsense.

Places such as Los Angeles, New Hampshire, Coastal California and Denver have background levels of ethylene oxide levels hundreds or even thousands of times higher than the value modeled by the IRIS program even without meaningful contribution from facilities and hospitals. The point is that background levels of ethylene oxide are present in the environment.

It is critical to have a precise picture of the actual levels of ethylene oxide in the environment, all potential contributing sources, and if needed, the most effective and appropriate available controls for further reducing emissions.

Ethylene oxide is a valuable component in manufacturing and sterilization processes and, to develop an appropriate and equitable solution, elected officials, industry, and communities must come together to have a transparent and forthcoming dialogue to understand and address both the scientific shortcomings, and concerns of all relevant stakeholders.



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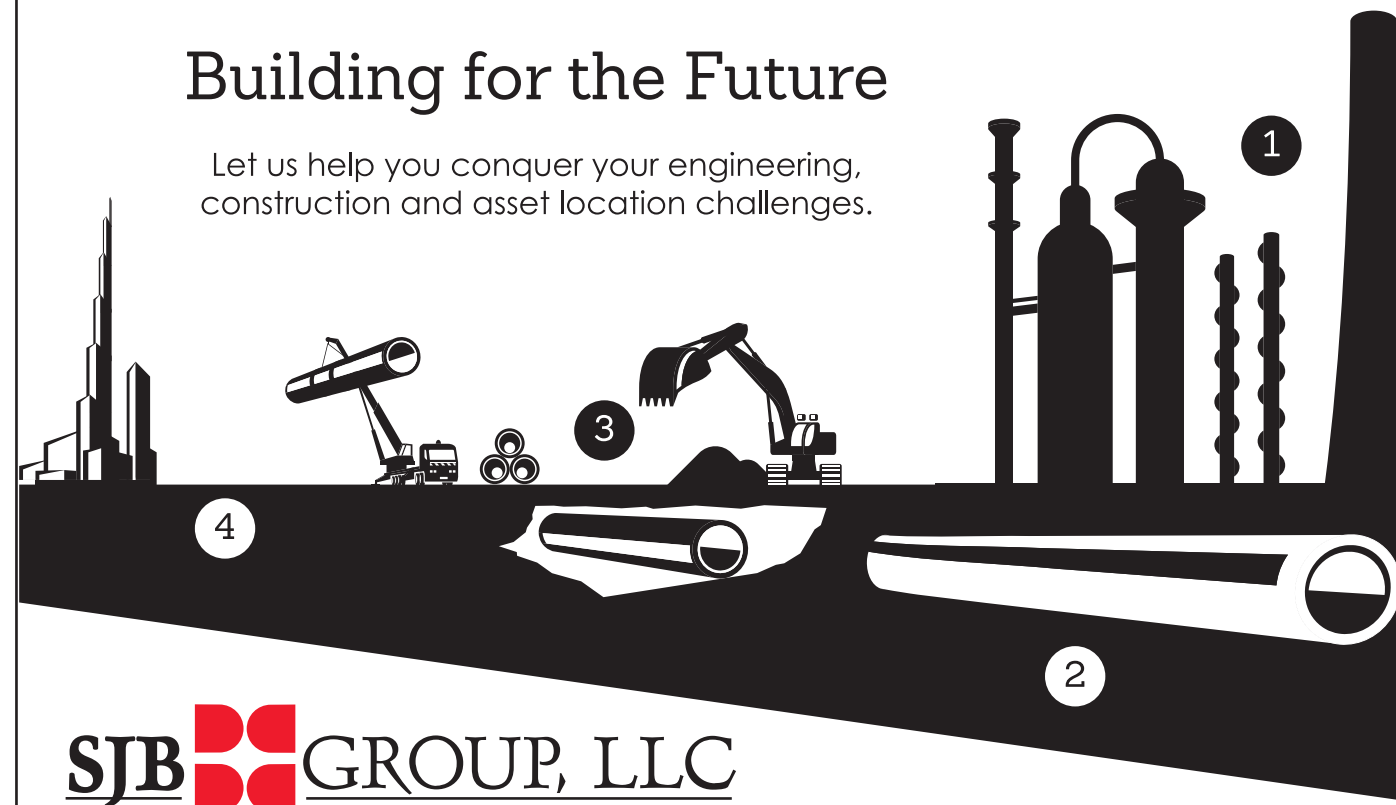
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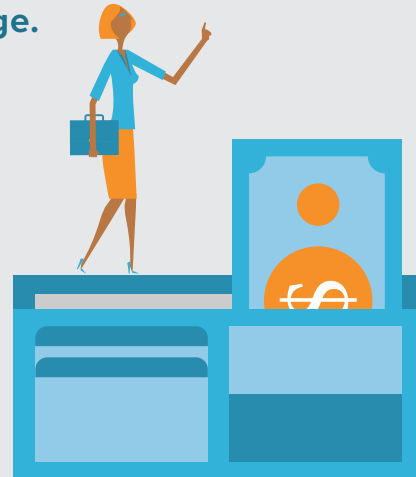
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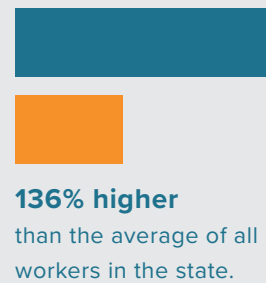
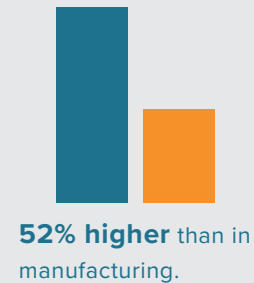


The chemical industry is the **#1 producer of direct jobs** in Louisiana's manufacturing sector, employing **29,109 people**.

On average, Louisianians working in the industry earn **\$2,050 every week**. This is **\$1,180 more than the statewide average**.



The weekly wage in the chemical industry is...



The highest of any industry in the state with more than **\$2.9B** total wages paid annually.



Each year, the industry generates more than **\$79.7B** in sales at businesses located in the state.



The chemical industry supports nearly **\$15.7B** in annual household earnings for state citizens – approximately **12.4%** of all earnings in the state that year.



Supports **267,601 jobs** in Louisiana.

9.3

The chemical industry job multiplier. Meaning for every job created in the chemical industry, **8.3 jobs are created elsewhere in the state**.



1 in every 7 jobs in Louisiana can be traced back to the chemical industry.

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Each year, the chemical industry generates more than **\$1.1 billion in taxes and fees for the state treasury**, an amount comparable to the \$1.1 billion the state collected from all its gaming and tobacco taxes in that year.

The chemical industry generates at least **\$959.5 million – nearly a billion dollars – in taxes and fees** for local governments annually. This is enough local government revenues to pay the salaries of **40% (19,266)** of the public school teachers in the state.

The Industrial Tax Exemption Program (ITEP)



In order to expand businesses and create jobs in our state, Louisiana offers the Industrial Tax Exemption Program (ITEP). In exchange for bringing new jobs and economic investments to Louisiana, ITEP provides property tax exemptions for a specified number of years. Once the contract has expired, these investments will come onto the local property tax rolls, bringing economic revenue to help pay for teacher salaries, law enforcement and infrastructure. With the help of ITEP, the chemical industry has brought thousands of jobs and millions of dollars in investments to local communities.

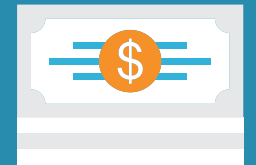
ITEP helps communities to prosper:



The top 8 ITEP parishes collect **more than \$1,000 per person in property taxes** – the statewide average is \$941.



Teachers in 6 of the top 8 ITEP parishes earn **more than \$2,000 above the statewide average**.



In the next five years, as ITEP contracts expire, **more than \$14 billion in industry investments** will come onto the local property tax rolls.

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ITEP

Making Louisiana Better

The Industrial Tax Exemption Program (ITEP) is a short-term, partial property tax deferral that is used to incentivize companies to invest in Louisiana.



ITEP is an 80%, 5-year property tax deferral that can be renewed for an additional 5 years.

100% of property goes onto the local tax rolls once the contract is over.

In the next 5 years, nearly **\$14.6 billion** from ITEP projects will go on the local property tax rolls.



Louisiana's tax burden is unlike any other in the country, ranked above the national average.

ITEP is needed to help compete with other states for economic development projects.



Compared to Louisiana, Texas has:



- A much lower local sales tax rate
- No taxes on manufacturing utilities or equipment
- A unified sales tax collection and
- No corporate OR personal income tax

More than 30 other states in the country offer some form of similar property tax exemption. Several southern states offer up to a 100% property tax exemption for manufacturers.

Communities That Embrace Industry Have:



HIGHER TEACHER SALARIES



HIGHER EMPLOYMENT



STRONGER ECONOMIES

Without ITEP, Louisiana is behind the curve.

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These top ITEP parishes ranked in the top 1/3 for property tax collections per capita.

In these top ITEP parishes businesses paid up to 86% of all property taxes.

AND the same parishes ranked in the top 25% of highest average teacher salaries in LA.

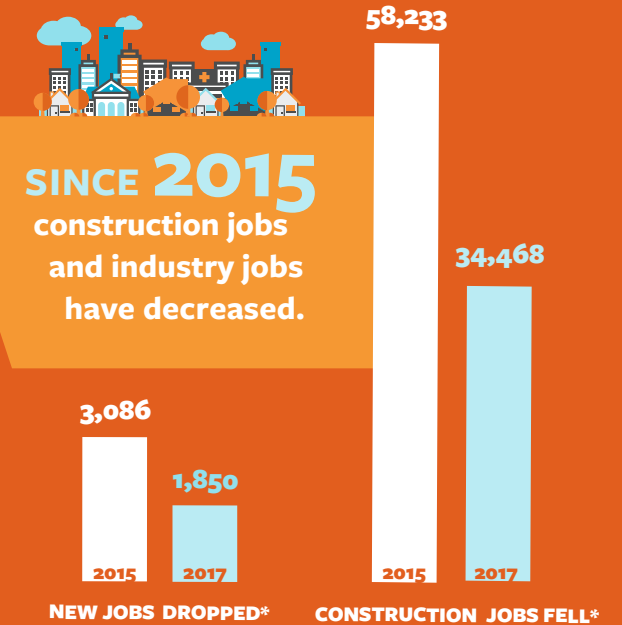
In fact, the chemical industry contributes enough money to local governments to pay the salaries of **40% of Louisiana's public-school teachers.**

The current structure of ITEP is hurting our economy and threatening future growth.

2016

Gov. John Bel Edwards made sweeping changes to ITEP. These changes made it more difficult for companies to receive the incentive, **resulting in less investments in Louisiana.**

Previously, ITEP granted 100% property tax deferral to companies. **Now, it's an 80% property tax deferral** that requires additional layers of approval from several different governing bodies.



*JOBS THAT WERE RELATED TO ITEP

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The **public/private partnership** between the Port of Greater Baton Rouge and SEACOR Marine continues to produce increases in the number of containers handled at the Inland Rivers Marine Terminal at the Port's North Line Road facility. In 2017, SEACOR handled 8,018 containers there, and in 2018 a total of 13,685 containers were handled at the IRMT.

Due to this increase in container movement, the Port has undertaken an expansion of the Inland Rivers Marine Terminal's container storage yard. The expansion is estimated to cost approximately \$4.5 million and will include 3.5 acres of concrete poured to expand the Port's container storage capacity.

Port Executive Director Jay Hardman said, "We are excited about the success of the COB service and the opportunity to expand our capacity. Every container that goes down the Mississippi River to New Orleans for export is one less 18-wheel truck on our roads and bridges."

For more information, contact Greg Johnson: 225-342-1660.



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