



CleanCities

TECHNOLOGIES CONFERENCE

TUESDAY, NOVEMBER 14, 2017

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Welcome to the 2017 CLEAN CITIES Technologies Conference!

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About the Houston-Galveston Clean Cities Coalition

The U.S. Department of Energy originally established the Clean Cities program for national security purposes to reduce dependency on foreign fuels. The goal of the program is to stimulate and expand alternative fuel use and advanced technology markets to reduce petroleum consumption in the United States by 2.5 billion GGEs (gas gallon equivalent) per year by 2020. The Houston-Galveston Clean Cities Coalition (HGCCC) was officially established in partnership with the DOE in 1996 to help make progress towards these goals in the Houston region. The primary mission of the HGCCC is to facilitate the use of alternative fuels, advanced vehicle technologies, and fuel conservation strategies in order to reduce air pollution through the displacement of petroleum.

Coalition administration is funded in part by the Department of Energy Clean Cities program. HGCCC does not require membership dues. Additional support for coalition staffing and administration comes from federal grants provided under existing programs at H-GAC, as well as partnerships with statewide initiatives and alternative fuel alliances. Additionally, many of the HGCCC workshops and events, such as this one, utilize in-kind support from industry partners and financial support through sponsorship agreements, event registration and exhibition fees.

The HGCCC is housed within the Houston-Galveston Area Council (H-GAC), which serves as the region's Metropolitan Planning Organization (MPO) and Council of Governments (COG). The HGCCC works closely with H-GAC's other air quality programs, especially Clean Vehicles, which provides various sources of funding for purchasing and upgrading to newer, cleaner technologies. As a result of this association with the MPO, HGCCC serves 8 southeast Texas counties: Harris, Brazoria, Chambers, Fort Bend, Galveston, Liberty, Montgomery, and Waller – an area classified by the Environmental Protection Agency as the Houston-Galveston-Brazoria (HGB) ozone non-attainment region.

Agenda

8:00 am Registration & Exhibitor Displays – Continental Breakfast

8:30 am Introduction & Welcome from Faust Distributing and H-GAC

9:00 am Panel – CNG

- [Eddie Murray](#), Freedom CNG - Moderator
- [Jorge Gonzales](#), Cummins Westport
"Cummins Westport's Next Generation Natural Gas Engines – Move to Zero"
- [Steven Josephs](#), ampCNG – "CNG and RNG Transportation Fuel Opportunities"
- [Ken Garland](#), Houston Distributing – "CNG experience"

9:45 am Break

10:00 am Panel – Propane Autogas

- [Jackie Mason](#), ProCOT - Moderator
- [Joe Rudolph](#), Roush - "Knock Out NOx with Propane Autogas"
- [Brian Green](#), Blue Flame - "Efficient Commercial Equipment Options for using LPG such as lawnmowers and forklifts"
- [Andres Montes](#), Houston ISD – "Houston ISD Fleet Operations"

10:45 am Break – View Vehicles and Exhibits

11:45 pm Lunch

12:00 pm Keynote Speaker

- [Jeremy Johnson](#), TTI
"Efficiency comparison between Diesel and low NOx Alternative Fuel Engines"

Agenda

1:00 pm Panel – Electric Vehicles

- [David Owen](#), CenterPoint Energy - Moderator
- [Dave Aasheim](#), ChargePoint – “Ready for the EV Revolution”
- [Robert Filosa](#), UPS – “UPS’s Path to Reduced Emissions”
- [Stacy Shutts](#), Johnson Space Center – “Renewable EV Charging and use of EVs”

2:00 pm Panel – Operational Efficiencies to Reduce Fuel Consumption and Emissions

- [Brad Kimball](#), SME – Moderator
- [Shannon Sentell](#), Stealth Power - “Auxilliary Power Units for use in Emergency and Long Term Idling Vehicle Operations”
- [Kyle Kristynik](#), Jetco - “Technology and Transportation: How GPS Assists in Operational Efficiencies”
- [Allen Dennis](#), EPRI - “Reduced Idling Emissions Using Electric Transportation Refrigeration Units (eTRU) and Bucket Battery Racks”

2:45 pm Break

3:00 pm Panel – Funding Grants and Incentives

- [Shelley Whitworth](#), H-GAC – Moderator
- [Steve Dayton](#), TCEQ – “Texas Emissions Reduction Plan Incentives”
- “VW Settlement Trust Fund Discussion – Timeline and Potential Projects”
- [Robert Veazie](#), H-GAC – “Congestion Mitigation Air Quality / Supplemental Environmental Program Funding”
- [Tony Dale](#), Propane Education & Research Council (PERC), TX State Representative - “Propane Autogas Incentives”
- [Ken Gathright](#), POHA – “EPA Diesel Emission Reduction Act (DERA) Projects”
- [Andrew DeCandis](#), H-GAC - “DOE and New Technology”

4:00 pm Close of Conference



MODERATOR

Eddie Murray

Freedom CNG

Eddie Murray has over 30 years of experience in sales, marketing, management and logistics for companies including Labatt and InBev USA. He is a professional with a track record and passion for growing profitable businesses. Throughout his career he has lived in multiple cities and worked in industries including Malt Beverage, Media and Energy. His most recent assignment was with Southwestern Energy where he led the effort to develop Compressed Natural Gas for transportation companies. He is a 1978 graduate of Rider University in New Jersey, with Bachelor's Degrees in Marketing and Management. Eddie has served on the American Natural Gas Association Transportation and Equipment subcommittee and the Greater Houston Natural Gas Vehicle Alliance membership committee.



Jorge Gonzales

Cummins Westport

"Cummins Westport's Next Generation Natural Gas Engines - Move to Zero"

Jorge Gonzalez has been working with Cummins Inc. for 15 years with International experience in Business Development, Supply Chain and Project Management. He currently works for Cummins Westport as Regional Sales Leader for South Central US and Mexico. He has spent the last five years promoting the latest technologies of natural gas engines.



Steven Josephs, P.E.

ampCNG

"CNG and RNG Transportation Fuel Opportunities"

Steve helped found ampCNG to align his work with his belief in the transformation CNG and renewable CNG will enable for heavy trucking in the US. Through compelling economics, this clean American fuel will increase profit margins while improving US air quality and decreasing our dependence on foreign oil.

Steve earned his BSE in Civil Engineering from Princeton University and his MBA from the University of Chicago's Booth School of Business. He is a Professional Engineer licensed by the State of Illinois and the former Research and Training Committee Chair for the Chicago chapter of Engineers Without Borders.



Ken Garland

Houston Distributing

CNG Experience

Ken has been at Houston Distributing, a MillerCoors distributor since 1980, a 37 year career. Ken is the VP of Operations overseeing, drivers, warehouse personnel, warehousing, inventory, vehicles, delivery, maintenance, body shop and all that goes with it. Houston distributing distributes and sells over 1,000 different brands and packages to over 7,500 retail accounts in Houston. Houston Distributing has been on the forefront of innovation in the malt beverage warehousing and fleet management. The very first to automate a beer warehouse and one of the first beer distributors to switch to CNG fuel.

Propane Autogas



MODERATOR

Jackie Mason

ProCOT

Jackie Mason is the Education & Marketing Director at the Propane Council of Texas, where she has worked for the past 15 years. The Propane Council of Texas (ProCOT) is a non-profit 501 (c) 3 educational foundation dedicated to propane education and the commercialization of propane technologies like cleaner-burning propane autogas on-road vehicles and off-road equipment. The Propane Council of Texas is the state arm of Propane Education & Research Council (PERC), which was authorized by the U.S. Congress with the passage of the Propane Education and Research Act (PERA) of 1996.

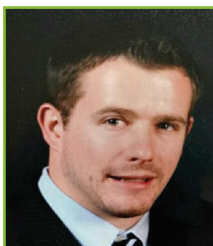


Joe Rudolph

Roush

"Knock Out NOx with Propane Autogas"

Joe Rudolph is a former fleet and operations professional with extensive deployment experience of several different alternative technologies to traditional fuels. Joe now works for Roush CleanTech, Division of Roush Enterprises, where he is focused on enhancing the awareness of these technologies within markets utilizing medium and heavy duty applications to support day to day operations.



Brian Green

Blue Flame

Efficient Commercial Equipment Options for using LPG such as lawnmowers and forklifts

Brian is a native Houstonian and received his Mechanical Engineering degree from Texas A&M in 2009. Upon graduation, Brian spent 6 years in the subsea oil and gas field designing and managing the technical development of subsea products. In 2015, Brian joined the family propane business, Green's Blue Flame Gas, and is focused on the Alternative Fuel side of the business. Green's Blue Flame Gas is a family owned and operated propane company celebrating its 50th year in business. Green's Blue Flame is a leader in the Autogas market and an original member of the nationwide partnership Alliance Autogas. The Autogas program offered by Green's Blue Flame includes ROI estimation, vehicle conversion, infrastructure installation, autogas delivery, tanker delivery, and propane fuel system maintenance and repair.



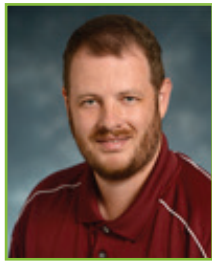
Andres Montes

Houston ISD

"Houston ISD Fleet Operations"

Andres Montes is currently working for HISD as Shop Manager of Barnett Shop, one of the five maintenance location for the last 14 years, have been working with Propane buses since 2012. Served as Fleet Manager of operations for two years. Prior to that Andres worked with CenterPoint Energy for 21 years as a Technician later becoming a Maintenance Planner. He has been ASE Master Mechanic certified on Automotive, Heavy Trucks and Automotive.

Keynote



Jeremy Johnson

Texas A&M Transportation Institute

"Efficiency comparison between Diesel and low NOx Alternative Fuel Engines"

Mr. Johnson has worked for the Texas A&M Transportation Institute (TTI) for over 17 years and has held numerous positions at TTI during that time. Currently, Mr. Johnson is a Research Specialist II in the Air Quality Program at TTI where he manages the Environmental and Emissions Research Facility (EERF), located on the RELLIS Campus of Texas A&M University. The EERF facility is a state of the art environmentally controlled test facility allowing for emissions testing of vehicles under controlled environmental conditions.

During his time at TTI, Mr. Johnson has worked on a wide variety of projects, collecting and analyzing emissions data for various types of vehicles, including both on and off road studies. These projects have included testing within the EERF facility, as well as many in-use field tests. Mr. Johnson is also involved in ongoing PAMS data collection projects, including bus fleets at Texas A&M University and Dallas Area Rapid Transit (DART), and the heavy-duty vehicle activity project under HGAC, TxDOT and the Port of Houston.



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Utility Cargo

Bobtail Trucks

Light-Duty

Forklifts

Electric Vehicles



MODERATOR

David Owen

CenterPoint Energy

David Owen is the manager of Clean Air Technologies for CenterPoint Energy's Energy Solutions organization. Mr. Owen leads a team responsible for the education & outreach of electric technologies to end-use consumers that reduce emissions and improve air quality for the Houston region. He has been with CenterPoint Energy for over 35 years and has been assigned progressive responsibilities in engineering, financial planning, strategic planning, marketing analytics and project management.

Mr. Owen received his Masters in Business Administration and a Bachelor of Science in Civil Technology from the University of Houston.



Dave Aasheim

ChargePoint

"Ready for the EV Revolution"

Dave Aasheim is ChargePoint's Sales Director for South Central US. Responsible for electrifying the great states of Texas, Oklahoma, Kansas, Missouri, Arkansas & Louisiana. Dave is a graduate of UC Santa Barbara and has been involved with alternative fuel vehicles since 2004...he has been in the EV industry since 2010 where he has been the proud owner of two Chevy Volts, a BMW i3 and now a Chevy Bolt.

Dave enjoys his role as an avid EV driver and helping current and future EV drivers find cool places to charge up!



Robert Filosa

UPS

"UPS's Path to Reduced Emissions"

Robert's current assignment is the West Region Automotive coordinator for United Parcel Service. Robert started his career with United Parcel Service in 1985. His area of responsibility is the vehicle maintenance in 26 states serving United Parcel Service's west region. His fleet responsibilities include 38,000 pieces of U.P.S. equipment. During his 31 year career he has held multiple positions throughout the automotive function at U.P.S. Some of his previous assignments include Southern California, Nevada, Florida, Atlanta as well as New York and Connecticut where he served as Director of Automotive maintenance until 2013. Robert also served on the board of Los Angeles Trade Tech Community College in Los Angeles as well as the board of the Southern Nevada Fleet Association in Las Vegas.



Stacy Shutts

Johnson Space Center

Renewable EV Charging and use of EVs

Stacy Shutts joined the Johnson Space Center in 2015 in the Center Operations Directorate, which includes the transportation facilities, planning, and environmental divisions. In conjunction with the sustainability team, she develops pilot projects to address site-specific issues, often applying commercial off-the shelf products to site-specific issues; this year she has been working with code developers to utilize Bluetooth tracking devices for locating free-range bicycles at the Center. In addition, Stacy empowers employees to take action on topics they care about— such as one employee who took the initiative to educate and deploy plans for line installations for electric vehicle charging stations earlier this year.

Operational Efficiencies to Reduce Fuel Consumption and Emissions



OVERVIEW & MODERATOR

Brad Kimball

SME

Overview

Brad Kimball is a Business Development Specialist who partners with companies and organizations working with C-level teams to use their data and systems to increase revenue and decrease cost. With 15 plus years of hands on experience working in the industry, Brad helps to excel companies to leverage existing systems to increasing productivity and decreasing cost, while staying in compliance. By leveraging data allows his customers to create a plan, executing the plan, measuring the plan, and refining the plan, which drives better business decisions.



Shannon Sentell

Stealth Power

Auxiliary Power Units for use in Emergency and Long Term Idling Vehicle Operations

Shannon Sentell is the Chief Operations Officer for Stealth Power – the global leader in mobile power and idle-reduction technology. Prior to joining Stealth Power, Sentell was Director of the Physics Program at the United States Military Academy at West Point, NY where he retired after 24 years of service as an Army officer. Sentell holds a Doctorate in Nuclear Engineering from the University of South Carolina and has graduate degrees from the Massachusetts Institution of Technology and the Fletcher School of Law and Diplomacy at Tufts University.



Kyle Kristynik

Jetco

"Technology and Transportation: How GPS Assists in Operational Efficiencies"

Kyle Kristynik is president of Jetco Delivery, a \$36+ million freight and logistics company based in Houston, Texas. Kyle joined Jetco in 2012, serving as vice president of finance and administration. In that short time, Kyle has helped increase revenue more than 50%, added more than \$6 million in capital to the company's fleet, and transformed the accounting and reporting methods to look at the business as five unique businesses – Jetco Delivery, Heavy Haul, Logistics, Expedited and Warehousing – with their own profit and loss statements. He helped lead the team to expand in San Antonio and Dallas, thus further allowing the company to meet the needs of their customers.



Allen Dennis

EPRI

"Reduced Idling Emissions Using Electric Transportation Refrigeration Units (eTRU) and Bucket Battery Racks"

Allen Dennis is a Technical Executive at the Electric Power Research Institute (EPRI). His responsibilities include implementing EPRI's Electrification program. Allen recently joined EPRI from KCP&L where he had responsibilities for the Company's Product and Services, Economic Development, Market Intelligence and Customer Solutions areas. Allen has 30 years energy experience which includes leading regulated and unregulated sales and marketing organizations, corporate strategic management consulting, and electric and natural gas commodity trading and marketing. Allen holds a Mechanical Engineering degree from Colorado State University.

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Operational Efficiencies to Reduce Fuel Consumption and Emissions



OVERVIEW & MODERATOR

Shelley Whitworth

Air Quality Program Manager, Houston-Galveston Area Council

Shelley Whitworth has been the air quality program manager for the Houston-Galveston Area Council (H-GAC) since 2001. She oversees H-GAC's Air Quality technical analysis program, commute solutions, and clean air program. Whitworth has more than 20 years' experience and began her career working for the Texas Department of Transportation. Before joining H-GAC, she was deputy director of the Alamo Area Council of Governments in San Antonio, where she was instrumental in developing the region's first voluntary air quality program. She holds a bachelor's degree from Texas Tech University and a master's degree from the University of Texas at Austin.



Steve Dayton

TCEQ

"Texas Emissions Reduction Plan Incentives"

Steve Dayton has 31 years of experience working with the state's natural resources and environmental agencies. He currently works as a technical specialist with the Texas Commission on Environmental Quality, helping to implement and administer the Texas Emissions Reduction Plan (TERP), providing grants for projects to reduce emissions from mobile sources. He was one of the staff that helped develop and start the TERP program in 2001. Prior to working on the TERP program, he spent nine years working with the agency's municipal solid waste planning program, including helping to implement the regional solid waste planning grant program. He also spent six years performing water resources planning with the Texas Water Development Board. Mr. Dayton holds a Bachelor's degree in economics from New Mexico State University and a Master of Science in Community and Regional Planning from the University of Texas at Austin.



Robert Veazie

H-GAC

"Congestion Mitigation Air Quality / Supplemental Environmental Program Funding"

Robert Veazie is a Program Manager within the Transportation Department at the Houston-Galveston Area Council of Governments (H-GAC). For the past 8 years Robert has focused his time on the Clean Vehicles and Drayage Programs. These programs provide grant incentives to local, state and private entities to replace heavy-duty diesel vehicles in their fleet with alternative fuels and clean diesel technologies. He is also responsible for administering the Clean School Bus Houston program for the Area Emission Reduction Credit Organization (AERCO). AERCO receives Supplemental Environmental Project Funds (SEP) to be distributed to school districts for the replacement of older school buses. Robert earned his M.B.A. from Texas Southern University in 2008 and a B.B.A. from Texas Southern University in 2005.



Tony Dale

Propane Education & Research Council (PERC), TX State Representative

"Propane Autogas Incentives"

Tony Dale has two decades of experience in the propane gas industry. He is the current president of Spencil Hill Consulting, LLC that assists clients in research and business development in the energy sector. Mr. Dale worked for fifteen years for a major multistate propane company where his roles included Vice President of Business Development, Vice President of International Operations and National Director of Autogas. He represents the Propane Education & Research Council throughout Texas. He is also an elected member of the Texas House of Representatives and serves on the Environmental Regulation Committee and is Chairman of the Texas House Energy Caucus. He and his wife Mary are both U.S. Army veterans and raise their children in Cedar Park, Texas.

Operational Efficiencies to Reduce Fuel Consumption and Emissions



Ken Gathright

POHA

"EPA Diesel Emission Reduction Act (DERA) Projects"

Mr. Gathright is an Environmental Compliance Coordinator in the Environmental Affairs Department at Port Houston. His primary responsibilities are to manage Port Houston's air quality programs. In addition, Mr. Gathright assists tenants and other port users in addressing air quality issues and works with federal, state and local environmental regulatory and legislative agencies. He has managed \$7.7 million in EPA DERA grants and \$1.7 million in Texas Emissions Reduction Plan (TERP) grants and is responsible for grant monitoring and reporting for these grants. Mr. Gathright has a total of 23 years of air quality and transportation planning experience. He has been employed by Port Houston for 11 years. He spent the first part of this career in the private sector working on transportation/air quality issues and then with the Texas Commission on Environmental Quality as an Air Quality Planner where he helped develop air quality regulations and was the lead on general conformity determinations. Mr. Gathright has a Bachelor of Science degree in Marine Sciences from Texas A&M University at Galveston.



Andrew DeCandis

H-GAC

DOE

Andrew DeCandis is an air quality planner who has spent the last fifteen years working with a wide array of partners in a range of disciplines to advocate for environmental-improvement and sustainability strategies. This work has led Andrew to a variety of positions helping governments, non-profits, and corporations to find and implement the best possible environmental solutions. Andrew holds a Master's Degree in Meteorology from Penn State University.



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Thank you for attending the **CLEAN CITIES** Technologies Conference!

Want to learn more?

The Houston-Galveston Area Council would like to thank you for your participation in the Clean Cities Technologies Conference 2017.

We would like to extend a big thank you to all of our speakers, sponsors and exhibitors for helping to ensure the success of this year's conference. As we improve our region's air, it is people like you who provide the effort and step up to the plate in the Houston-Galveston region. Way to go Astros!

If you have any questions, would like more information on any item that you saw here today, or would like to speak with H-GAC, please contact us at: (713) 993-2498 or cleancities@h-gac.com.

For additional information, tools, and reference material,
please visit www.houston-cleancities.org.

Houston-Galveston Area Council
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