Rethink METHANE

removing the fossil from the fuel

FEBRUARY 21-22, 2017 | SACRAMENTO, CA

Sheraton Grand Sacramento Hotel

SYMPOSIUM PROGRAM

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LETTER FROM THE ORGANIZER

On behalf of our sponsors, endorsing organizations, and expert speakers, welcome to the 3rd annual Rethink Methane Symposium. We are excited to have gathered stakeholders from the bioenergy, dairy, hydrogen, electric, natural gas and fuel cell industries to continue this important discussion about the role renewable gas can and should play in achieving California's air quality, climate protection and economic development goals.

As you will hear from today's speakers, by harnessing our state's vast organic waste streams (e.g., food and green waste, livestock manure, wastewater, forest biomass), we can capture fugitive methane emissions and maximize the opportunity to produce RNG. This will help us immediately and cost-effectively mitigate harmful and potent short-lived climate pollutants (SLCPs), as well as dramatically reduce smog and emissions of toxic air pollutants. In addition, in-state production of RNG will provide thousands of local jobs—2 to 6 times as many jobs as their fossil fuel equivalents.

California has an exciting opportunity to successfully develop its renewable gas market following the passage of new, RNG-friendly legislation in 2016:

- **SB 32 and AB 197** - recommitted the state to reducing GHG emissions, focusing efforts on environmental, public health and economic development benefits for residents in the state's most disproportionately impacted communities.
- **SB 1368** - targets SLCPs, with emphasis on addressing emissions from dairy operations and organics recovery and recycling.
- **AB 1613** - appropriates $900 million in Greenhouse Gas Reduction Funds (GGRF) to GHG reducing programs, many of which will impact the production and consumption of RNG.
- **SB 840** - tackles issues related to the standards for injecting biogas in to the natural gas pipeline and removes barriers to the development of small scale forest bioenergy projects.
- **AB 2313** - increased the CPUC's incentive for pipeline interconnection from $1.5 million to $3 million per project, and up to $5 million of dairy digester cluster projects.

While these policies have provided exciting market momentum, regulatory agencies must now effectively implement standards, requirements, incentives, and regulations to realize the ambitious agenda established by the legislature and Governor. If successful, these policies will lay a strong and sustainable foundation for California's energy future; an established renewable methane supply can help ensure the state meets its renewable electricity mandates (50% of electricity sourced from renewable fuels by 2030) and pave the way for a carbon-free, hydrogen supply for transportation that doesn't rely on fossil fuels.

Our intent today is to demonstrate to Sacramento's policymakers how they can support the production and consumption of this clean, low-carbon energy resource and help proactively remove any barriers that impede RNG market growth in California. We hope today's agenda spurs a robust and engaging dialog, and inspires continued progress.

Cliff Gladstein
President
Gladstein, Neandross & Associates

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Rethink Methane Symposium

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Symposium Agenda

Tuesday, February 21, 2017

8:00 am – 8:30 am Sponsored by WM Waste Management	**Continental Breakfast**
8:30 am – 8:45 am	**Symposium Welcome** • *Cliff Gladstein, President, Gladstein, Neandross & Associates*
8:45 am – 9:00 am	**Introductory Keynote – Renewable Gas: A New Lawmaker's Perspective** • *Senator Henry Stern, Senate District 27, California State Senate*
9:00 am – 10:00 am	**Panel 1 – What do we do now? Policymaker Perspectives on the Legislative Success of 2016 and the Challenges of Implementation in 2017** *Moderator: Jena Price, Legislative Affairs Manager, California League of Conservation Voters* • *Kip Lipper, Chief Policy Advisor on Energy and Environment, Office of Senate President Pro Tempore Kevin de Leon* • *Tina Andolina, Senior Policy Consultant, Office of State Senator Ben Allen* • *Martha Guzman-Aceves, Commissioner, California Public Utilities Commission*
10:00 am – 10:30 am	**The Path to a 50% RPS: Realizing a Renewable Energy Future through Power-to-Gas** • *Jack Brouwer, Associate Director, National Fuel Cell Research Center/ Associate Professor, UC Irvine*
10:30 am – 11:30 am	**Panel 2 – Making Climate Progress through Renewable Gas at the Local Level: How California's Air Districts Plan to Respond to New Climate Legislation** *Moderator: George Minter, Regional Vice President, External Affairs and Environmental Strategy, Southern California Gas Company* • *Ryan McCarthy, Science and Technology Policy Advisor, California Air Resources Board* • *Wayne Nastri, Executive Officer, South Coast Air Quality Management District* • *Jack Broadbent, Chief Executive Officer/Air Pollution Control Officer, Bay Area Air Quality Management District*
11:30 am – 1:00 pm Sponsored by Trillium CNG	**Networking Luncheon:** *Welcome: William Zobel, Vice President of Market Development and Strategy, Trillium CNG*
1:00 pm – 2:00 pm	**Panel 3 – Challenges: Addressing Regulatory Barriers to the Development of a Robust Market for Renewable Gas** *Moderator: Julia Levin, Executive Director, Bioenergy Association of California* • *Jon Maurer, Managing Director, Fortistar* • *Harrison Clay, President, Clean Energy Renewable Fuels* • *Roberta Larson, Executive Director, California Association of Sanitation Agencies*
2:00 pm – 3:00 pm	**Panel 4 – Achieving Deep Decarbonization with Renewable Hydrogen** *Moderator: Lorraine Paskett, Owner, Cambridge LCF Group* • *Jack Brouwer, Associate Director, National Fuel Cell Research Center/ Associate Professor, UC Irvine* • *Bryan Pivovar, Fuel Cell Group Manager, Chemistry and Nanosciences Center, National Renewable Energy Laboratory*
3:00 pm – 3:15 pm	**Break**
3:15 pm – 4:15 pm	**Panel 5 – Focus on Dairies: Implementing SB 1383 and the Strategy for Effective Methane Reductions** *Moderator: Johannes Escudero, Chief Executive Officer & Executive Director, Coalition for Renewable Natural Gas* • *Ryan McCarthy, Science and Technology Policy Advisor, California Air Resources Board* • *Michael Boccadoro, President, West Coast Advisors* • *Ross Buckenham, Chairman/Chief Executive Officer, California Bioenergy, LLC*
4:15 pm – 5:15 pm	**Panel 6 – Converting Policy in to Progress: Impacts of 2016 Legislation on Growing the California Renewable Gas Industry** *Moderator: Jonathan Parfrey, Executive Director, Climate Resolve* • *Lawrence Lingbloom, Chief Consultant, Committee on Natural Resources, California State Assembly* • *Paul Relis, Senior Vice President, CR&R Waste and Recycling Services*
5:15 pm – 5:30 pm	**Where We Go From Here** *Introduction: Mallik Angalakudati, Vice President Corporate Strategy, Pacific Gas & Electric Company* • *Mary Nichols, Chair, California Air Resources Board*
5:30 pm – 7:00 pm Sponsored by AGA American Gas Association	**Networking Reception**

South Coast Air Quality Management District

Cleaning The Air That We Breathe...

South Coast AQMD

The blueprint for cleaner air in Southern California includes renewable natural gas as part of a diverse portfolio of less-polluting energy resources

South Coast AQMD is co-sponsoring the Rethink Methane Symposium 2017 to explore ways that **renewable natural gas** (biomethane) can be an important part of the portfolio of less-polluting energy resources helping our communities to:

reduce smog, air toxics, and greenhouse gases
increase supplies of carbon-neutral domestic energy, and
promote resilient, sustainable economic development.

Renewable natural gas is not a fossil fuel, it's a contemporary fuel derived from the natural decomposition of organic waste in 'resource streams' such as urban landfills and wastewater treatment plants. The energy from these waste materials is captured and processed, to harvest a sustainable, ultra-low carbon, domestic form of natural gas usable by heavy-duty vehicles as an alternative to diesel, or used to generate electricity. Renewable natural gas can also serve as a feedstock for producing hydrogen fuel used in zero-emission fuel cell vehicles.

On behalf of more than 16 million Southern Californians, South Coast Air Quality Management District is working toward a clean-energy future where every resident can breathe cleaner air and benefit from a more resilient economic future.

Speaker Biographies

KEYNOTE SPEAKER | Senator Henry Stern, Senate District 27, California State Senate

Henry Stern is a California State Senator representing the 27th District. An expert on climate change, clean energy and water policy, Senator Stern practiced environmental law and served as a Senior Policy Advisor to former State Senator Fran Pavley prior to his election to the legislature. Senator Stern played a pivotal role in constructing landmark climate change legislation such as SB 32, new testing and safety standards for oil and gas fracking operations, and recent emergency measures to halt operations at Porter Ranch and prevent future gas leak disasters. A graduate of Harvard University and UC Berkeley Law, Senator Stern is the first millennial ever to be elected to the State Senate and brings breadth of experience and forward vision to shape energy security and sustainability in California. Senator Stern chairs the Elections and Constitutional Amendments Committee and also serves on four other key committees—Energy, Utilities and Communications, Environmental Quality, Judiciary, and Natural Resources and Water.

FEATURED SPEAKER | Mary Nichols, Chair, California Air Resources Board (CARB)

Mary Nichols is chair of the California Air Resources Board (CARB), a post she has held since 2007. She also served as chair of the Air Resources Board from 1979-1983. Ms. Nichols has devoted her entire career in public and nonprofit service to advocating for the environment and public health. In addition to her work at CARB, she has served as assistant administrator for the US Environmental Protection Agency's Air and Radiation program under President Clinton, secretary for California's Resources Agency from 1999 to 2003, and director of the Institute of the Environment at the University of California, Los Angeles. Her priorities as chair include moving ahead on the state's landmark climate change program (AB 32), steering the Board through numerous efforts to curb diesel pollution at ports and continuing to pass regulations aimed at providing cleaner air for Southern California and the San Joaquin Valley. She values innovation, partnerships, and common-sense approaches to addressing the state's air issues.

Tina Andolina, Senior Policy Consultant, Office of State Senator Ben Allen

Tina Andolina is currently the senior policy consultant for State Senator Ben Allen. Prior to this role, she had been director of legislation and regulation at California Department of Pesticide Regulation since September 2012. Ms. Andolina has served as legislative consultant for Senator Lois Wolk since 2010. She served as legislative director at the Planning and Conservation League from 2007 to 2010. She was campaign associate at the Coalition for Clean Air from 2005 to 2007. She served as Outreach Director at the California Wilderness Coalition from 2000 to 2005 and campaign director at the Friends of the Trinity River from 1997 to 2000.

Mallik Angalakudati, Vice President Corporate Strategy, Pacific Gas & Electric Company

Mallik Angalakudati serves as vice president, corporate strategy for PG&E. He oversees investment planning, resource planning, strategy and process excellence, contract management, and QA/QC teams. Mr. Angalakudati comes to PG&E with more than 15 years of experience in the energy industry. Prior to joining PG&E, Mr. Angalakudati worked in National Grid in both operational and process leadership positions. His experience also includes management consulting and energy pricing and risk management. He holds a MBA from the University of Michigan, an MS in environmental engineering from University of North Carolina, and a BS in civil engineering from Indian Institute of Technology - Madras. Mr. Angalakudati earned an executive education certificate in Leading Change and Organizational Renewal from the Harvard Business School and a Lean Six Sigma Master Black-belt certification from Villanova University.

Michael Boccadoro, President, West Coast Advisors

Michael Boccadoro is president of West Coast Advisors, a Sacramento-based government affairs consulting firm whose clients include California's dairy industry.

Speaker Biographies

Jack Broadbent, Executive Officer/Air Pollution Control Officer, Bay Area Air Quality Management District

Jack Broadbent serves as the chief executive officer/air pollution control officer for the Bay Area Air Quality Management District. Under Mr. Broadbent's direction, the Air District strives to provide a healthy breathing environment for every resident in the nine county San Francisco Bay Area region. Mr. Broadbent joined the Air District after serving as Air Division director at the United States Environmental Protection Agency (US EPA), Region IX. In that position, Mr. Broadbent was responsible for overseeing the implementation of the Clean Air Act as well as indoor air quality and radiation programs for the Pacific Southwest region of the United States. Before serving at the US EPA, Mr. Broadbent served as the deputy executive officer of the South Coast Air Quality Management District as well as the director of planning and other senior management positions. While at the South Coast Air District, Mr. Broadbent directed the development of a number of landmark programs that contributed to significant improvements in air quality in the Los Angeles region. In the 1980s, Mr. Broadbent served as corporate environmental programs manager for the largest private employer in California: Hughes Aircraft Company. Mr. Broadbent holds a master's degree in environmental administration and a Bachelor of Science in environmental science—both from the University of California, Riverside.

Jack Brouwer, Associate Director, National Fuel Cell Research Center

Through Dr. Brouwer's leadership, the National Fuel Cell Research Center (NFCRC) and the Advanced Power and Energy Program (APEP) are focusing research, education, beta testing, and outreach on high-efficiency, environmentally preferred energy conversion and power generation technology advancement with fuel cell and gas turbine systems as the principal targets. Current research projects address ultra-high efficiency and ultra-low emissions high temperature fuel cell systems, integrated hybrid fuel cell gas turbine systems, renewable power intermittency and integration, battery electric and plug-in hybrid electric vehicle evaluation and infrastructure development, advanced fuel cell and gas turbine dynamic operations, hydrogen and electricity infrastructure development, and power electronics and energy conversion devices for the smart grid. Prior to joining UCI, Dr. Brouwer was on the faculty at the University of Utah, a senior engineer at Reaction Engineering International, and a staff scientist at Sandia National Laboratories.

N. Ross Buckenham, Chairman/Chief Executive Officer, California Bioenergy, LLC

Ross Buckenham is a 25-year general management veteran and builder of technology ventures both public and private. His experience spans the renewable energy technologies of biogas, wind, and solar. He has also built and run software and wireless technology companies, being a board member, chief executive officer, or general manager in companies such as WebLink Wireless, Retek, CellStar, and Advanced Oxygen. He was previously a consultant with Bain & Company. Mr. Buckenham is passionate both in his pursuit of California Bioenergy's mission to become a large California-focused renewable energy and clean tech company leveraging agricultural waste streams and also in developing "Level 5" leadership, operational excellence, and exceptional customer service in himself and his management team. He has been an active member in the Bioenergy Association of California since its founding. Mr. Buckenham has an MBA from Harvard Business School and a bachelor's degree in chemical engineering from Canterbury University, New Zealand.

Harrison Clay, President, Clean Energy Renewable Fuels

Harrison Clay, president of Clean Energy Renewables, is responsible for leading Clean Energy's efforts to produce and sell renewable natural gas (or biomethane) that is derived from the anaerobic decomposition of organic waste. Clean Energy entered the biomethane production business with the acquisition of a landfill gas processing facility in Dallas, Texas, at the McCommas Bluff landfill in 2008. During Clean Energy's ownership, the McCommas Bluff biomethane production plant grew to be one of the largest of its type in the world. Clean Energy has developed additional biomethane production plants located outside of Detroit and Memphis. Clean Energy sold over 14 million gasoline gallon equivalents of Redeem in 2013 and over 21 million gasoline gallon equivalents in 2014. Clean Energy is actively pursuing additional opportunities to develop biomethane production sites and acquire biomethane for sale as Redeem, including biomethane projects located at waste water treatment plants or that incorporate agricultural and industrial waste digesters. Prior to joining Clean Energy in 2008, Mr. Clay worked at the San Francisco investment bank WR Hambrecht + Co. Mr. Clay has extensive experience in structuring and trading environmental commodities, venture capital, corporate and project finance, and the clean tech and energy industries. Mr. Clay has a JD from the University of Virginia and a dual AB in anthropology and English from the University of Georgia.

SoCalGas® is proud to recognize **Rethink Methane** for taking the lead in decarbonizing pipeline gas to meet California's 2050 greenhouse gas reduction goal. We are inspired to continue working toward a cleaner and greener environment. For 150 years, SoCalGas has been providing clean, safe and reliable energy.

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Speaker Biographies

Johannes Escudero, Chief Executive Officer & Executive Director, Coalition for Renewable Natural Gas

Johannes Escudero is the founder and chief executive officer of the Coalition For Renewable Natural Gas, Inc. (RNG Coalition). The RNG Coalition is an international 501(c)(6) organization providing public policy advocacy and education on behalf of the renewable natural gas industry. The RNG Coalition was formed in 2011 around a mission to advocate for the advanced application of renewable natural gas from cellulosic waste streams so that present and future generations have access to clean, domestic, renewable fuel and energy supply. Mr. Escudero has more than fifteen years of organizational leadership experience, with a diverse background in non-profit management, business development, higher education, politics, governmental, legislative, and regulatory affairs. Prior to founding the RNG Coalition, Mr. Escudero served as legislative director in the California State Assembly, serving ranking members of the Transportation, Utilities and Commerce, Natural Resources, and Environmental Safety & Toxic Materials committees.

Cliff Gladstein, President, Gladstein Neandross & Associates

Cliff Gladstein is the founder and president of Gladstein, Neandross & Associates (GNA). For over 22 years, he has been a local, state, and national leader in the effort to develop cost-effective policies, programs, and products to reduce pollution from transportation, relieve the nation's dependence on petroleum, and create innovative public-private partnerships to pursue market-based solutions for environmental problems. Mr. Gladstein is the founder of the Interstate Clean Transportation Corridor (ICTC), the nation's first and most successful public-private partnership to accelerate the commercialization of clean alternative fuel vehicles in the interstate movement of goods. He has used his knowledge and experience to develop and implement clean transportation and power generation technology deployment programs and incentive programs. Mr. Gladstein is on the board of the Bioenergy Association of California, chairs the Education Fund of the California League of Conservation Voters, and teaches air quality policy at the UCLA Institute of Environment and Sustainability. He has been an advisor to the University of Southern California's Sustainable Cities Program and Duke University's Nicholas Institute for Environmental Policy Solutions. He is a graduate of Duke University and holds three graduate degrees from the University of Texas, Austin, and the University of California, Los Angeles.

Martha Guzman-Aceves, Commissioner, California Public Utilities Commission

Martha Guzman-Aceves has 18 years of policy experience in Sacramento. She was recently appointed to the California Public Utilities Commission by Governor Jerry Brown and previously held the position of Deputy Legislative Affairs Secretary. Her portfolio includes natural resources, environmental protection, energy, and food and agriculture. She has led many environmental and natural resources reforms including sustainable groundwater management, drinking water organization, and forest management. From 2004 to 2011, Ms. Guzman-Aceves represented the California Rural Legal Assistance Foundation (CRLAF) on legislative and regulatory issues related to community health issues, farm worker health and safety, environmental justice, and previously on education. From 2004 to 2007, she also worked with Swanton Berry Farm where she helped on many human resources issues including establishing an employee stock ownership program. In 2003, she served as the legislative coordinator for the United Farm Workers (UFW) AFL-CIO covering a range of labor and environmental issues. Ms. Guzman-Aceves has an MS in agricultural and resource economics from the University of California at Davis and a BS in international economics from the School of Foreign Service at Georgetown University.

Roberta Larson, Executive Director, California Association of Sanitation Agencies

Roberta (Bobbi) Larson was appointed California Association of Sanitation Agencies' (CASA) executive director in July 2012. She is responsible for overall management of the association. Ms. Larson has worked to raise the level of professionalism and leadership that CASA offers its members through building a high-functioning and cohesive team of staff and consultants, strengthening conference programs, and delivering balanced budgets each fiscal year. Her goal is to position CASA as the most trusted, credible and effective advocate for California wastewater agencies. Prior to assuming her current role, Ms. Larson served as CASA's contract director of legal and regulatory affairs as a shareholder with Somach Simmons & Dunn, a Sacramento law firm where her practice emphasized water quality law. She earned her JD at the University of the Pacific, McGeorge School of Law, and her BA in political science from the University of California at Riverside.

Mike Levin, Director of Government Affairs, FuelCell Energy, Inc.

Mike Levin is the director of government affairs for FuelCell Energy, Inc. (Nasdaq: FCEL), a leading integrated fuel cell company that designs, manufactures, sells, installs, operates, and services ultra-clean and highly efficient stationary fuel cell power plants for distributed power generation. Mr. Levin is a passionate believer in clean technology and has over a decade of experience in government affairs and business development in the industry. Previously, he was part of the management team at a venture-funded startup developing new technology to generate clean power from waste gases. In addition to sitting on the board of the Center for Sustainable Energy, Mr. Levin is also a co-founder of CleanTech OC, Orange County's clean technology trade association, where he served as the initial executive director. Prior to industry, he worked as an attorney at Bryan Cave LLP, where he assisted clients with environmental and energy regulatory compliance, project development, and government advocacy. Mr. Levin has a BA in political science from Stanford University and a JD from Duke University School of Law. While at Stanford, Mr. Levin served as student body president. He has also completed the CORO Fellows Program in Public Affairs.

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Julia Levin, Executive Director, Bioenergy Association of California

The Bioenergy Association of California's executive director is Julia Levin, who served until recently as the deputy secretary for climate change and energy at the California Resources Agency. In that position, she chaired the Governor's Inter-Agency Bioenergy Working Group and led development of California's 2012 Bioenergy Action Plan. Ms. Levin has also served as a Commissioner on the California Energy Commission, where she was the presiding Commissioner on renewable energy and the associate Commissioner on energy efficiency. She presided over the adoption of RPS eligibility rules, power plant siting cases, and other issues. Previously, she was the Global Warming director of the National Audubon Society, where she coordinated its policy advocacy and public education on global warming and energy issues. Ms. Levin received a law degree from the University of California, Hastings College of Law in 1991 and a BA in international relations from Brown University in 1985.

Lawrence Lingbloom, Chief Consultant, Committee on Natural Resources, California State Assembly

Lawrence Lingbloom is chief consultant to the California Assembly Committee on Natural Resources, the Assembly's primary environmental committee with a broad jurisdiction including climate change, air quality, renewable energy and the California Environmental Quality Act. Mr. Lawrence has served as an advisor to the California Legislature on energy and environmental issues for over 20 years, with primary responsibility for negotiating, drafting, and analyzing environmental and energy legislation. Prior to his current position, Mr. Lingbloom served as consultant to the Senate Committee on Energy, Utilities and Communications. During his tenure in the California Legislature, Mr. Lingbloom has contributed to the formulation and enactment of landmark laws regarding utility regulation, renewable energy, energy efficiency, climate change, and consumer protection. Mr. Lingbloom holds a BA in political science from the University of California at Davis.

Kip Lipper, Chief Policy Advisor, Energy, Natural Resources, and Environment, Office of CA Senate Pro Tempore Kevin de Leon

Kip Lipper is chief policy advisor on energy, natural resources, and the environment to California State Senate President pro Tempore Kevin De Leon (D-Los Angeles). Mr. Lipper has worked in the California Legislature for over 38 years under various senate and assembly members and as consultant for various committees. Mr. Lipper has drafted and analyzed legislation on a broad array of environmental matters, including the state's landmark Renewable Portfolio Standard, energy conservation, electric vehicles, public interest energy research, and energy-agency reorganization and reforms. Mr. Lipper was the lead Senate staffer on the drafting of AB 32, as well as on companion landmark legislation establishing the nation's first greenhouse gas emission performance standard for energy generation (SB 1368--Perata). He has been deeply involved in the implementation of GHG laws passed and enacted by the California Legislature. His extensive experience in these matters has lead him to participate as a guest lecturer on environmental and energy legislation at the Stanford University Law School, Boalt Hall (UC Berkeley) Law School, King Hall (UC Davis) Law School, Loyola Law School (Los Angeles), UCSD, and at California State University Sacramento.

Jonathan Maurer, Managing Director, Fortistar

Jonathan Maurer has been with Fortistar since 1989. Mr. Maurer co-leads the acquisitions and financing activities at Fortistar and leads Fortistar Methane Group and the Biomass Group. Prior to Fortistar, Mr. Maurer's background is financial consulting and commercial banking.

Ryan McCarthy, Science and Technology Policy Advisor, California Air Resources Board

Ryan McCarthy is the science and technology policy advisor to the Chair at the California Air Resources Board, where he focuses on transportation, energy, and climate policy issues. He is heavily involved in climate policy discussions related to 2030 targets and planning, and is also helping to develop a plan to reduce emissions of short-lived climate pollutants in California, as required by SB 605. Prior to his appointment at ARB by Governor Jerry Brown, Dr. McCarthy was chief writer of a strategic plan for plug-in electric vehicles in California and a science and technology policy fellow in the office of California Assembly Member Wilmer Amina Carter. Dr. McCarthy received his master's and doctorate degrees in civil and environmental engineering from UC Davis and bachelor's degree in structural engineering from UC San Diego.

Speaker Biographies

George Minter, Regional Vice President, External Affairs and Environmental Strategy, Southern California Gas Company

George Minter is regional vice president of external affairs and environmental strategy for SoCalGas. He leads the company's public affairs, environmental and energy policy, community relations, and media and employee communications efforts. Mr. Minter is a long-time public policy professional specializing in energy and environmental affairs, policy development, communications, and political advocacy. Before re-joining SoCalGas in 2013, Mr. Minter was managing principal for L.A.-based public affairs firms Greer/Dailey/Minter and GM/Public Affairs. There he managed strategic communications programs and public policy initiatives to approve large land use and energy projects. Prior to that, he was the director of public affairs for SoCalGas. Mr. Minter has served as a board member of numerous civic associations and community organizations, including the Central City Assoc., Valley Industry and Commerce Assoc., L.A. Family Housing Corp. (as board chair), Coro Foundation, Pat Brown Institute of Public Affairs at Cal-State L.A., Center for the Study of L.A. at Loyola Marymount University, Campaign to Clear the Air, and the California League of Conservation Voters. He was one of the founders of the Business Council for Sustainable Energy, a federal energy trade association and of the California CCS Coalition, a statewide energy advocacy organization.

Wayne Nastri, Executive Officer, South Coast Air Quality Management District

Wayne Nastri was unanimously appointed by the SCAQMD Governing Board as acting executive officer in April 2016. Previously in his career, he served as US EPA's regional administrator for Region 9 – Southwest Region. In that position, he was responsible for policy development and operations, exercising management oversight for nearly 1,000 employees and an annual budget exceeding $700 million. He worked closely with the public, industry, and all levels of government in a wide variety of voluntary pollution prevention programs and energy conservation efforts, including development of diesel emission reduction efforts through development and implementation of the West Coast Diesel Collaborative, in which SCAQMD actively participates. Mr. Nastri also focused Region 9 efforts on development of strategies to address emissions associated with ocean-going vessels and marine ports. Before his federal position, he served as Governor's appointee on the South Coast AQMD Governing Board. Earlier in his career, Mr. Nastri served on the site mitigation external advisory committee for Cal/EPA's Department of Toxic Substances Control (DTSC), the zero-emission vehicle implementation advisory committee for the California Air Resources Board, and the site manager's advisory committee for the Office of Environmental Health Hazard Assessment (OEHHA). He also served as the legislative director for the California Environmental Business Council. In his earlier private sector experience, Mr. Nastri served as co-president of E4 Strategic Solutions, Inc., a consulting firm focused on negotiating mutually effective solutions for complex environmental & energy issues faced by regulatory authorities, elected officials, and executive management at local, state, and federal levels. Mr. Nastri holds a bachelor's degree in biochemistry from the University of California, Irvine.

Jonathan Parfrey, Executive Director, Climate Resolve

Before founding Climate Resolve, Jonathan Parfrey served as a commissioner at the Los Angeles Department of Water and Power (2008-2013). Mr. Parfrey is also the immediate past-president of the Los Angeles League of Conservation Voters. He is a founder and vice chair of CicLAvia, the popular street event, as well as the founder of the Los Angeles Regional Collaborative for Climate Action and Sustainability, and the statewide Alliance of Regional Collaboratives for Climate Adaptation. He served as director of the GREEN LA Coalition (2007-2011), and as the Los Angeles director of Nobel Peace Prize-winning organization Physicians for Social Responsibility (1994 to 2007). Prior to that, Mr. Parfrey founded and directed the Orange County Catholic Worker (1987-1993). He was appointed to Governor Schwarzenegger's Environmental Policy Team in 2003. Mr. Parfrey received the Paul S. Delp Award for Outstanding Service, Peace and Social Justice (1992), and was awarded a Durfee Foundation Fellowship (2002), a Stanton Fellowship (2010), and was appointed a senior fellow at the USC Marshall School of Business (2011). He is currently a fellow at the Los Angeles Institute for the Humanities, a member of the State of California Climate Adaptation Technical Advisory Committee (2016), and a member of the steering committee for the US Climate and Health Alliance (2016). In April 2016, he was received the Los Angeles County Board of Supervisors Chair's Green Leadership Award.

Lorraine Paskett, Owner, Cambridge LCF Group

Lorraine Paskett has more than 25 years in the energy, water, and environmental sectors. Ms. Paskett graduated from McGeorge School of Law in 1995 and began her legal career as an assistant public defender in Sacramento County. Ms. Paskett also worked in state government, serving as senior staff advisor to the Assembly Speaker and Assembly Majority Leader. In the past 15 years, Ms. Paskett served as a director for a California investor-owned utility leading a team through the California energy crisis, sponsoring a suite of initiatives including energy market reform, climate change policy, renewable energy market development, and corporate tax reforms. Ms. Paskett served more recently as a senior executive for the largest U.S municipal utility—Los Angeles Department of Water and Power—leading a comprehensive approach for sustainable utility practices. The focus of her service included revamping utility programs to support accelerated adoption of alternative vehicle fuel sources in Southern California, overseeing electric system transmission permitting, new wind and solar electric generation project permitting, all energy efficiency and water conservation

Speaker Biographies

programs, and managing greenhouse gas emissions programs across the utility operations. She also supported long-term permanent transition from coal energy to renewable energy. Currently, Ms. Paskett owns and manages Cambridge LCF Group which works with conventional and emerging energy companies which promote alternative energy and expand related markets, and supports comprehensive policies to address climate change. Ms. Paskett has been honored by the California League of Conservation Voters (CLCV), the California State Legislature and the City of Los Angeles for her work to improve the environment and pursue projects that reduce the impacts of climate change and air pollution.

Bryan Pivovar, Fuel Cell Group Manager, Chemistry and Nanosciences Center, National Renewable Energy Laboratory

Bryan Pivovar is Fuel Cell Group Manager in the Chemistry and Nanosciences Center at the National Renewable Energy Laboratory (NREL) in Golden, Colorado, where he oversees NREL's electrolysis and fuel cell R&D. He has been a pioneer in several areas of fuel cell development for vehicle applications, taking on leadership roles and organizing workshops for the Department of Energy in the areas of sub-freezing effects, alkaline membranes, and extended surface electrocatalysis. Since June of 2015, he has been leading a multi-National Laboratory team pursuing "hydrogen at scale" as a pathway for deeply decarbonizing our energy system that explores the importance of hydrogen in transportation and other energy sectors. He received his PhD in chemical engineering from the University of Minnesota and led fuel cell R&D at Los Alamos National Laboratory (LANL) prior to joining NREL. He received the 2012 Tobias Young Investigator Award from the Electrochemical Society and has co-authored over 100 papers in the general area of fuel cells and electrolysis.

Jena Price, Legislative Affairs Manager, California League of Conservation Voters

Jena Price is a principle at TrattenPrice Consulting, a firm focused on representing environmental, consumer protection, and social justice-focused clientele. Prior to opening up a firm with her partner, Ms. Price served as the California League of Conservation Voters Legislative Affairs Manager where she advocated for a broad suite of environmental and environmental justice issues. Prior to coming on board at CLCV, she was the Legislative Director at California's longest running environmental non-profit, the Planning and Conservation League. During her time there, she worked closely with the executive director and members of the legislature to protect one of California's keystone environmental laws, California Environmental Quality Act (CEQA) as well as working on legislation pertaining to water, land use, and environmental health. Before moving back to Sacramento, Ms. Price worked with ICLEI- Local Governments for Sustainability, based in Oakland, helping local governments achieve their sustainability goals to reach the 2020 reduction targets mandated under the Global Warming Solutions Act of 2006 (AB 32). Ms. Price attended San Francisco State University, receiving a degree in political science and a minor in environmental studies with an emphasis in California environmental policy.

Paul Relis, Senior Vice President, Director of Environmental Affairs, CR&R Incorporated

Paul Relis is senior vice president of CR&R Incorporated, an environmental services company that provides recycling and waste services to 40 cities in Southern California. He leads the company's efforts to develop technology to convert the organic fraction of the municipal solid waste stream to renewable natural gas, a zero carbon fuel, and soil products for California agriculture. This technology will be the first of its kind in the United States. In this capacity Relis works closely with the state's major regulatory agencies, environmental organizations, industry associations and local government. Prior to his private sector position, Mr. Relis served as an executive in the California Environmental Protection Agency as the Governor's environmental appointee to the California Integrated Waste Management Board (now CalRecycle). He oversaw California's solid waste system, including recycling composting, landfills and incinerators, working closely with the state's other major regulatory agencies including the California Air Resources Board, the California Energy Commission, the Department of Agriculture, and the Department of Commerce. He was a US Information Services speaker to the People's Republic of China and Germany. In 1970, while still a student at University of California, Santa Barbara, Relis was at the forefront of the fledgling environmental movement. He became the first executive director of the Community Environmental Council, an NGO that pioneered recycling, waste minimization, renewable energy, and sustainable agriculture. Forty years later, the Council is working on a multi-decade effort to wean the region from its dependency on fossil fuels.

William Zobel, Vice President of Market Development and Strategy, Trillium CNG

William (Bill) Zobel is vice president of market development and strategy for Trillium CNG. Trillium designs, builds, and operates a network of compressed natural gas (CNG) refueling stations across the US. Mr. Zobel has almost 30 years of experience in the energy sector covering a wide range of issues and responsibilities. Prior to Trillium, Mr. Zobel managed the Sempra natural gas and electric vehicle clean transportation program, and managed environmental and climate change policy for Sempra Energy. Mr. Zobel served as director of strategy and business analysis for BP North America where he helped develop BP's national presence following the merger of BP and ARCO. In 15 years with ARCO, Mr. Zobel successfully served in a variety of management positions where he was instrumental in developing and promoting landmark regulatory programs including RECLAIM, the nation's first multi-pollutant emissions trading program. Mr. Zobel serves on the board of Natural Gas Vehicles for America (NGVA) and the California Natural Gas Vehicle Coalition (CNGVC), which he chaired from 2007 to 2009. Mr. Zobel holds a BS in chemical engineering from California State University, Long Beach, and is a graduate of Columbia University's executive business program.

Partners & Sponsors

American Gas Association

The American Gas Association (AGA) is committed to leveraging and utilizing America's abundant, domestic, affordable and clean natural gas to help meet the nation's energy and environmental needs. AGA represents companies delivering natural gas safely, reliably, and in an environmentally responsible way to help improve the quality of life for their customers every day. AGA's mission is to provide clear value to its membership and serve as the indispensable, leading voice and facilitator on its behalf in promoting the safe, reliable, and efficient delivery of natural gas to homes and businesses across the nation.

www.aga.org

Applied LNG

Applied LNG is a producer and distributor of liquefied natural gas (LNG) for alternative fuel use in North America and Northern Mexico. Established in 1995, with two strategic locations in Topock-Arizona and Midlothian-Texas, Applied LNG distributes LNG, LCNG, and RLNG to trucking, oilfield, marine, mining, construction, rail, industrial, and agricultural customers. Applied LNG provides turnkey fuel solutions that include LNG supply, delivery from a fleet of 45+ LNG trailers, temporary or permanent fueling stations, equipment leasing, and training.

www.appliedlng.com

Bay Area Air Quality Management District

Since 1955, the Bay Area Air Quality Management District has been the public agency entrusted with regulating stationary sources of air pollution in the nine counties that surround San Francisco Bay: Alameda, Contra Costa, Marin, Napa, San Francisco, San Mateo, Santa Clara, southwestern Solano, and southern Sonoma counties. The Bay Area air basin is home to seven million people. As the region continues to grow, there is an even greater need to reduce pollution in the region. The Air District is working to encourage cleaner transportation, better building practices, and emissions reductions from industrial sources. With a mission to protect and improve public health, air quality, and the global climate, the Air District encourages everyone in the Bay Area to join in the region's efforts to improve air quality.

www.baaqmd.gov

Bioenergy Association of California

The Bioenergy Association of California (BAC) represents more than 60 private companies, public agencies, local governments, and other members working to convert organic waste to renewable electricity and fuels. BAC members are building bioenergy projects in every region of the state, helping to reduce greenhouse gas emissions, protect public health and safety, create jobs, and meet the state's clean energy and waste reduction goals.

www.bioenergyca.org

California Association of Sanitation Agencies

For over 60 years, CASA has been the leading voice for public wastewater agencies on regulatory, legislative, and legal issues. We are an association of local agencies, engaged in advancing the recycling of wastewater into usable water, generation of renewable energy, and other valuable resources. Through these efforts we help create a clean and sustainable environment for Californians.

www.casaweb.org

California Hydrogen Business Council

California is where hydrogen gets down to business. And the California Hydrogen Business Council (CHBC) is the vital link between hydrogen-technology developers, businesses, energy leaders, government, and infrastructure providers. Its mission is to advance the commercialization of hydrogen in transportation and stationary sources to reduce emissions and dependence on oil.

www.californiahydrogen.org

California Natural Gas Vehicle Coalition

The California Natural Gas Vehicle Coalition (CNGVC) is an association of natural gas vehicle and engine manufacturers, utilities, fuel providers, and fleet operators serving the state. We support new initiatives, provide up-to-date information on NGV technology and market developments, and work with legislators and regulators to develop policies that will increase alternative fuel and vehicle use.

www.cngvc.org

Partners & Sponsors

California Natural Gas Vehicle Partnership

The California Natural Gas Vehicle Partnership (CNGVP) is an alliance of air quality, transportation, and energy agencies; vehicle and engine manufacturers; fuel providers; transit and refuse hauler associations; and other stakeholders interested in increasing and strengthening the deployment of low-emission natural gas vehicles throughout California. Through the CNGVP's efforts in California, the organization has helped to deliver the promise of clean transportation by promoting the research and development, demonstration and deployment, accessibility and commercializing, and legislative support for natural gas vehicles.

www.cngvp.org

Clean Energy

Clean Energy Fuels Corp. (Nasdaq: CLNE) is the largest provider of natural gas fuel for transportation in North America. We build and operate compressed natural gas (CNG) and liquefied natural gas (LNG) fueling stations, manufacture CNG and LNG equipment and technologies for ourselves and other companies, and develop renewable natural gas (RNG) production facilities.

www.redeem.cleanenergyfuels.com

Climate Resolve

Climate Resolve is a Los Angeles-based nonprofit, founded in 2010, that is dedicated to creating real, practical solutions to meet the climate challenge while building a better city for Angelenos. With our work, we reduce greenhouse gas emissions; keep LA cool; find better ways to get around; share and contextualize climate science that affects Southern California; protect our land and resources; and connect with Angelenos, policy-makers, and other local leaders helping us with climate mitigation and adaptation efforts.

www.climateresolve.org

Coalition for Clean Air

The Coalition for Clean Air (CCA) is California's only statewide nonprofit dedicated exclusively to advocating for healthy air. Our unique collaborative model brings all interested parties together to find cooperative solutions to California's most pressing air quality issues. For more than 40 years, we have made significant improvements to California's air by advocating innovative policy solutions within legislative and regulatory avenues, encouraging the early adoption of new technologies, advising businesses on regulatory compliance and clean air practices, empowering our allies with technical and policy expertise, and educating decision-makers and the public on air pollution solutions. Our current work focuses on electric vehicle development, ensuring California's AB 32 funds are spent equitably, and developing a sustainable freight system.

www.ccair.org

Coalition for Renewable Natural Gas

The Coalition for Renewable Natural Gas (RNG Coalition) provides leadership, a public policy platform, advocacy, and education voice for the renewable natural gas industry in North America. The RNG Coalition advocates for increased development, deployment, and utilization of renewable natural gas (RNG, biomethane, or upgraded biogas) so that present and future generations will have access to this domestic, renewable, clean fuel and energy supply. The RNG Coalition's membership is international, include waste collection, waste management and recycling companies, renewable energy developers, engineers, financiers, service and technology providers, manufacturers, gas/power marketers, gas/power transporters, environmental advocates, research organizations, organized labor, law firms, independent consultants, and investor-owned and municipal utilities in the United States, Canada, Denmark and the UK. RNG Coalition members produce 90% of the RNG in North America, 98% of the cellulosic biofuel under the federal RFS, and nearly 100% of the biomethane participating in California's LCFS and RPS programs.

www.rngcoalition.com

CR&R Incorporated

CR&R Incorporated is a comprehensive environmental services company based in Southern California that provides waste collection, recycling, transfer and disposal, composting, and anaerobic digestion services to more than 2.5 million people and 5,000 businesses throughout Orange, Los Angeles, San Bernardino, Imperial, and Riverside counties. CR&R has completed the first of a four-phase anaerobic digestion facility that processes source-separated municipal organic waste into renewable natural gas (RNG) and soil products. This RNG will power many of the waste collection fleets that CR&R operates for its local governments, making these fleets the cleanest in the world.

www.crrwasteservices.com

Partners & Sponsors

FuelCell Energy, Inc.

FuelCell Energy, Inc. is an integrated fuel cell company that designs, manufactures, installs, operates, and services stationary fuel cell power plants. As a leading global fuel cell company, we provide ultra-clean, efficient, and reliable baseload distributed generation for electric utilities, commercial and industrial companies, universities, municipalities, government entities, and other customers around the world. Direct FuelCell® power plants manufactured by FuelCell Energy can utilize a variety of fuels, including renewable biogas from wastewater treatment and food processing as well as clean natural gas, directed biogas, and propane.

www.fuelcellenergy.com

Grind2Energy

Grind2Energy™ is a groundbreaking product developed by Emerson, a global leader in bringing technology and engineering together to provide innovative solutions for customers in industrial, commercial, and consumer markets around the world. Grind2Energy™ is a non-sewer-based system installed at commercial sites such as supermarkets to divert food waste from landfills and recover resources at anaerobic digesters in the form of clean water, energy, and fertilizer. Emerson is based in St. Louis, Missouri (USA), and is comprised of five business segments: Process Management, Industrial Automation, Network Power, Climate Technologies, and Commercial & Residential Solutions.

www.grind2energy.com

Harvest

Harvest enables communities to produce renewable energy and high-value soil, mulch, and organic fertilizer products from organic materials. The company harnesses the full potential of organic materials by recycling energy and nutrients back into local communities through its energy gardens and its production of nutrient-rich soils, mulches, and fertilizers. Harvest owns and operates facilities throughout North America in British Columbia, Ontario, California, and throughout the Mid-Atlantic, Midwest states, and Northeastern US.

www.harvestpower.com

Pacific Gas and Electric Company

Pacific Gas and Electric Company, incorporated in California in 1905, is one of the largest combination natural gas and electric utilities in the United States. Based in San Francisco, the company is a subsidiary of PG&E Corporation. There are approximately 20,000 employees who carry out Pacific Gas and Electric Company's primary business—the transmission and delivery of energy. The company provides natural gas and electric service to approximately 15 million people throughout a 70,000-square-mile service area in northern and central California.

www.pge.com

Puregas Solutions

With more than 20 years' experience, Puregas Solutions design and deliver biogas upgrading solutions using the unique CApure process. Raw biogas is upgraded to biomethane / renewable natural gas and injected directly into the grid, compressed for vehicle fueling, or liquefied to provide bioLNG. Puregas Solutions works in partnership with our customers to ensure our fully integrated upgrading solutions provide the highest revenues possible and maximize returns.

www.puregas-solutions.com

Sacramento Clean Cities Coalition

Sacramento Clean Cities is affiliated with the Department of Energy's Clean Cities Program, a government-industry partnership designed to reduce petroleum consumption in the transportation sector. There are currently almost 100 coalitions nationwide that work with government agencies and private companies to identify mutual interests and meet the objectives of reducing the use of imported oil, developing regional economic opportunities, and improving air quality.

www.cleancitiessacramento.org

Sacramento Municipal Utility District

As the nation's sixth-largest community-owned electric service provider, SMUD has been providing low-cost, reliable electricity for about 70 years to Sacramento County (and small adjoining portions of Placer and Yolo Counties). SMUD is a recognized industry leader and award winner for its innovative energy efficiency programs, renewable power technologies, and sustainable solutions for a healthier environment.

www.smud.org

Partners & Sponsors

Southern California Gas Company

Southern California Gas Company (SoCalGas) has been delivering clean, safe and reliable natural gas to its customers for more than 145 years. It is the nation's largest natural gas distribution utility, providing service to 21.6 million consumers connected through 5.9 million meters in more than 500 communities. The company's service territory encompasses approximately 20,000 square miles throughout central and Southern California, from Visalia to the Mexican border. SoCalGas is a regulated subsidiary of Sempra Energy (NYSE: SRE), a Fortune 500 energy services holding company based in San Diego.

www.socalgas.com

South Coast Air Quality Management District

The South Coast Air Quality Management District (SCAQMD) is the regional air pollution control agency for the combined urban areas of Los Angeles, Riverside, and San Bernardino counties and all of Orange county. The SCAQMD works to accelerate deployment of low-emitting vehicles, technologies, and products so that more than 16 million Southern California residents can breathe cleaner air and live healthier lives. SCAQMD's technology advancement program is internationally recognized for its comprehensive portfolio of public-private collaborations to demonstrate and deploy cleaner technologies including battery-electric, plug-in hybrid, fuel cell, and ultra-low NOx engines running on renewable natural gas.

www.aqmd.gov

Trillium CNG, a Love's Company

Trillium CNG, part of the Love's Family of Companies, brings over two decades of compressed natural gas (CNG) expertise to serve customers at more than 150 CNG facilities across the country. Trillium CNG specializes in designing, building, maintaining, and operating CNG facilities for various types of professional fleets nationwide. Trillium CNG provides fuel for thousands of natural gas vehicles daily and delivers more than 70 million gallons of CNG per year. Combined, Love's Travel Stops and Trillium own 65 public-access CNG facilities.

www.trilliumcng.com

TruStar Energy

TruStar Energy is a leading designer and constructor of CNG fueling infrastructure throughout the US. TruStar Energy also provides unique no-cost fuel station options that allow fleets to focus on their core competencies with little to no up-front station capital investment. We've been providing CNG fueling solutions to customers throughout the US and Canada since 2009 with products that are consistently on budget, on time, and on target. Trustar Energy's commitment to the environment extends to RNG and landfill gas management. TruStar Energy. Fueling Success. Driving Change.

www.trustarenergy.com

Young Professionals in Energy (YPE)

Young Professionals in Energy (YPE) is a non-profit organization with more than 40,000 members worldwide. By providing a forum for networking and career development through social, educational, and civic service opportunities, YPE aims to facilitate the advancement of young professionals in the global energy industry. YPE runs a year-round calendar of events in 40 chapters around the world. In California, YPE has chapters in Los Angeles, Bay Area, and Sacramento, and has recently launched a San Diego chapter.

www.ypenergy.org/los-angeles

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