Rethink METHANE
removing the fossil from the fuel

JUNE 9-10, 2015 | 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, it is my sincere pleasure to welcome you to our inaugural Rethink Methane Symposium. The Symposium is the first of what we intend will be an ongoing effort to bring together stakeholders in the natural gas, bioenergy, solar, wind, hydrogen, and fuel cell industries to demonstrate to policymakers the importance of developing and implementing policies and incentives that:

• Accelerate and maximize the production, distribution, and consumption of renewable methane produced from a variety of sources (e.g., organic waste, landfills, wastewater treatment plants, agricultural processes); and

• Develop a robust capacity to produce hydrogen and methane from surplus renewable power (i.e., derived from wind and solar), known as “power-to-gas.”

Over the past decade, natural gas has become an increasingly popular energy and fuel source. While the North American shale gas boom has led to an attractive price spread between natural gas and higher-carbon alternatives such as diesel and coal, concerns over fugitive methane emissions and impacts from the extraction process (i.e., fracking) have led some to question whether increased use of methane is wise.

Yet, methane is nature’s most prolific and ubiquitous energy carrier. Prolific because all decaying matter produces methane. Ubiquitous because methane is all around us, being produced in considerable quantities by virtually every human and natural activity. By harnessing and utilizing biomethane, we recapture and recycle carbon that already exists in the biosphere, and avoid releasing carbon that has been sequestered over the eons in the crust of the earth. Increasing the production, distribution, and consumption of renewable methane enables us to reduce our use of fossil methane, and reduces the carbon content of the overall natural gas system. This creates tremendous opportunities to utilize methane appropriately, in those end uses where combustion makes the most sense, including accelerating the displacement of diesel in heavy-duty applications, the primary source of smog and toxic air contaminants in our state.

As the name suggests, the Rethink Methane Symposium aims to provide an educational experience that will provide participants with a new vision for how we can tap this underutilized resource to help California achieve its key air quality, climate protection, economic development, and energy diversification objectives. By rethinking methane, and pursuing renewable methane’s full potential, California lawmakers will harness a powerful tool that will help the state meet its goal of increasing renewable energy to 50 percent and reducing petroleum consumption by 50 percent by 2030.

With an exciting lineup ahead, we hope you leave the Symposium with a comprehensive vision on how renewable methane from biological and synthetic sources can help pave the way toward a cleaner and more sustainable energy future. By advocating for the advancement of renewable methane as both a transportation fuel and as a storage medium for renewably generated power, each of you can play a key role in helping our nation achieve important climate change and air quality improvement objectives. We look forward to making real progress together.

Cliff Gladstein
President
Gladstein, Neandross & Associates
Supporting Zero Emission Vehicles and Renewable Fuels for Clean Air

Protecting & improving air quality, public health & the global climate, since 1955

BAAQMD.gov

The Bay Area Air Quality Management District is proud to sponsor the Rethink Methane Symposium
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<tr>
<td>7:15 am</td>
<td>Registration Open</td>
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| 8:30 am – 9:00 am | Continental Breakfast  
Includes time to browse table top exhibits in the exhibit hall. |
| 8:30 am – 9:00 am | Introduction and Welcome  
Speaker: Cliff Gladstein, President, Gladstein, Neandross & Associates |
| 9:00 am – 9:30 am | Morning Keynote: A Renewable Gas Standard for the State of California  
Speaker: Ben Allen, California Senator, 26th Senate District |
| 9:30 am – 10:00 am | California’s Environmental and Economic Challenges – the Role for Renewable Methane  
Introduction: Jack P. Broadbent, Executive Officer/APCO, BAAQMD  
Speaker: Hector De La Torre, Board Member, California Air Resources Board |
| 10:05 am – 10:20 am | Break  
sponsored by |
| 10:20 am – 11:15 am | Panel: Promise of RNG  
Moderator: Jack P. Broadbent, Executive Officer/APCO, BAAQMD  
Speaker: Julia Levin, Executive Director, Bioenergy Association of California  
Speaker: Johannes Escudero, Executive Director, Coalition for Renewable Natural Gas |
| 11:15 am – 12:00 pm | Promise of Power-to-gas  
Speaker: Dr. Alan Lloyd, President Emeritus, International Council on Clean Transportation |
| 12:00 pm – 1:05 pm | Keynote Luncheon  
sponsored by Applied LNG  
Keynote Introduction: Greg Roche, VP Sales & Marketing, Applied LNG  
Lunch Keynote: The Need to Rethink Methane: Peter Lehner, Executive Director, NRDC |
| 1:05 pm – 2:00 pm | Panel: The Promise of RNG – What RNG Could Mean for My Industry  
Speaker: Dr. Jeffrey Reed, Director, Market Development and Emerging Technology Utilities, Sempra Energy  
Speaker: Stephen Jones, Managing Director, ITM Power Inc. |
| 2:00 pm – 2:35 pm | Rethinking Methane under SB 32 and SB 350  
Speaker: Fran Pavley, California Senator, 27th Senate District |
| 2:35 pm – 2:50 pm | Break  
sponsored by |
| 2:50 pm – 4:00 pm | Panel: Emerging RNG Industry  
Speaker: Harrison Clay, President, Clean Energy Renewable Fuels  
Speaker: Mike Levin, Director of Government Affairs, FuelCell Energy, Inc.  
Speaker: Dr. Stephanie Molloy, Supervisor, Environmental Services Department, City of San José  
Speaker: Daniel LeFevers, Senior Development Leader, Gas Technology Institute |
| 4:00 pm – 4:30 pm | Regulatory Hurdles to RNG  
Speaker: Ashley Conrad-Saydah, Deputy Secretary for Climate Policy, California Environmental Protection Agency |
| 4:30 pm – 5:00 pm | Financial Hurdles to RNG  
Speaker: Evan Williams, President, Cambrian Energy Development LLC |
| 5:00 pm - 5:15 pm | Closing Remarks  
Speaker: Cliff Gladstein, President, Gladstein, Neandross & Associates |
| 5:15 pm | Evening Reception  
sponsored by SMUD, Sacramento Municipal Utility District |

**SPECIAL EXHIBITORS**  
Be sure to visit these special exhibitor tables to learn more about sustainable energy.
## Agenda: June 10, 2015

<table>
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<th>Time</th>
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| 9:30 am – 11:30 am | **RNG Buyers Forum**  
Speaker: Chad Adair, Principal Energy Contracts Specialist, SMUD  
Hear from the Sacramento Municipal Utility District (SMUD), SoCalGas, and Clean Energy about their future plans to purchase renewable natural gas. These potential buyers of RNG will talk about possible future volumes, gas quality specifications, delivery issues, and possible contract requirements. Short presentations will be followed by an audience Q&A session.  
Confirmed Participants include: |  
| 12:30 pm – 1:30 pm | **Off-Site Tour Check-in**  
Participants must be pre-registered to attend the off-site tour. Check-in begins at 12:30 pm at the registration desk located outside the Magnolia Ballroom of the Sheraton Grand Sacramento Hotel.  
The tour bus departs promptly at 1:30 pm.  
Suggested attire: Tour attendees are encouraged to wear casual clothes (jeans, short-sleeved shirts, walking shoes or hiking boots), bring a sun hat, and water. High-heeled shoes are not recommended. Contact Kimberly.klonoski@gladstein.org with any questions or concerns. |  
| 1:30 pm | **Off-Site Tour | New Hope Dairy Digester Facility**  
Visit an innovative waste-to-energy project at a dairy farm just outside of Sacramento. New Hope Dairy features a digester tank that collects and breaks down manure from the farm’s 1,200+ dairy cattle, then sends clean methane gas to a generator. The end product is 450 kilowatts of electricity—enough energy to power 240 single-family homes each day. Learn more » |  

### Redeem by Clean Energy

Thousands of Californian Vehicles are Reducing Emissions and Saving Money by Fueling with Renewable Natural Gas Made From Organic Waste

- **90% CLEANER**
- **$ COST EFFICIENT**
- **RENEWABLE**
- **DOMESTIC**

Learn more at: www.RedeemByCleanEnergy.com
KEYNOTE SPEAKER | Ben Allen, California Senator, 26th District

California State Senator Ben Allen represents the 26th Senate District, which consists of the Westside and coastal South Bay communities of Los Angeles County. A freshman Senator, he serves as chair of the Senate’s Committee on Elections and Constitutional Amendments as well as the state legislature’s Joint Committee on the Arts. He is also a member of the Senate’s Budget Committee – Budget Subcommittee 1 on Education, the Veterans Affairs Committee, the Natural Resources and Water Committee, and the Transportation and Housing Committee. In addition, he has been assigned to serve on the Select Committee on Defense and Aerospace as the Vice Chair and as a member of the Select Committees on Climate Change and AB 32 Implementation and on California-Mexico Cooperation.

Senator Allen is a former board member, and former Board President, of the Santa Monica-Malibu Unified School District where he was a leader on issues of environmental sustainability, financial accountability, and community engagement. The Senator has also served on the executive board of the Los Angeles County School Trustees Association, was the Chair of L.A. County’s Committee on School District Organization, was a voting member of the University of California, Board of Regents as a law student, and was a delegate to the California Democratic State Convention.

Currently, Senator Allen is a senior fellow with the international human rights organization Humanity in Action, is member of a Pacific Council on International Policy, and is a graduate of the Jewish Federation’s New Leaders Project. He is also an attorney with the law firm of Richardson & Patel LLP and is a lecturer at UCLA Law School, where he teaches education law and policy.

Senator Allen holds degrees from Harvard, Cambridge, and UC Berkeley’s Boalt Hall and is fluent in Spanish.

KEYNOTE SPEAKER | Peter Lehner, Executive Director, Natural Resources Defense Council

Peter Lehner is the executive director of NRDC, one of the nation’s leading environmental advocacy organizations. NRDC’s 450 lawyers, scientists, policy experts and other professionals, with the support of more than 1.5 million members and activists, tackle the biggest environmental issues facing the planet today. Peter helps guide NRDC’s work to protect communities from the pollution that threatens our air, water, and climate, defend wildlife and wild places, revive our oceans, curb global warming and hasten a clean energy future, and foster the development of sustainable communities.

Peter served as chief of the Environmental Protection Bureau of the New York State Attorney General’s office for eight years. He supervised all environmental litigation by the state, prosecuted polluters, defeated many Bush administration efforts to roll back environmental safeguards, and developed innovative multi-state strategies for environmental protection, including cases establishing the authority of the EPA to limit greenhouse gases from power plants and leading to new federal rules limiting smog, soot, and toxic pollution.

Peter holds an AB in philosophy and mathematics from Harvard College and is an honors graduate of Columbia University Law School, where he taught for many years. He also has extensive experience in sustainable farming and green business.

FEATURED SPEAKER | Fran Pavley, California Senator, 27th District

Senator Fran Pavley (D) of the 27th Senate District was elected to the Assembly in 2000, the Senate in 2008, and re-elected in 2012. Pavley received her B.A., at CSU, Fresno and her M.A. at CSU, Northridge. Pavley served as Mayor and Councilmember of Agoura Hills, including her role as first Mayor from 1982-1997.

Senator Pavley was also a member of the California Coastal Commission from 1995-2000. She taught for 28 years in California public schools. Her landmark climate change legislation is AB 1493 (Clean Cars Law—which is now national standard) and AB 32, which have become models for other states and countries. Pavley received the 2006 California League of Conservation Voters “Global Warming Leadership Award” with Vice President Al Gore.

Pavley currently serves these committees: Senate Natural Resources and Water (Chair), Budget and Fiscal Review, Budget Subcommittee #2 (Resources, Environmental Protection, Energy, and Transportation), Energy, Utilities, and Communications, Environmental Quality, Governance and Finance, Legislative Ethics and as chair on the Select Committee: Climate Change and Assembly Bill 32 Implementation.
**Jack P. Broadbent**, Executive Officer/APCO, BAAQMD

Jack P. 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 (U.S. 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 U.S. 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 degree in Environmental Science—both from the University of California, Riverside.

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**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, TX, at the McCommas Bluff landfill in 2008. During Clean Energy’s ownership, the McCommas Bluff biomethane production plant grew to 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.

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**Ashley Conrad-Saydah**, Deputy Secretary for Climate Policy, California Environmental Protection Agency

Ashley Conrad-Saydah, the California Environmental Protection Agency’s Deputy Secretary for Climate Policy, was appointed by Governor Edmund G. Brown Jr. in April 2012. She works across sectors and with multiple agencies and stakeholders to achieve the State’s ambitious climate goals and implement climate mitigation strategies throughout the State’s communities, ecosystems and industries.

Prior to joining CalEPA, Ms. Conrad-Saydah served as California’s renewable energy program manager for the United States Department of Interior, Bureau of Land Management, beginning her tenure as a Presidential Management Fellow.

Ms. Conrad-Saydah earned her undergraduate degree from Princeton University and masters degree from the Donald Bren School of Environmental Science and Management at the University of California – Santa Barbara, where she was a Doris Duke Conservation Fellow.

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**Hector De La Torre**, Board Member, California Air Resources Board

Hector De La Torre serves on the California Air Resources Board (CARB) as a gubernatorial appointee, where he focuses on goods movement, mitigation in impacted communities, and bringing the benefits of new technologies to these communities.

Mr. De La Torre is the executive director of the Transamerica Center for Health Studies, a nonprofit focused on empowering consumers and employers to achieve the best value and protection from their health coverage, as well as the best outcomes in their personal health and wellness.

Mr. De La Torre is also a member of the Board of Trustees at Occidental College (his alma mater) in Los Angeles and the Board of L.A. Care, the largest public health plan in the United States. Mr. De La Torre served as a State Assemblymember for California’s 50th District from 2004-2010. Prior to that, he was Mayor and Councilmember in his hometown of South Gate.
Clean air in Southern California depends on methane – as part of a diverse portfolio of less-polluting energy resources

South Coast AQMD is co-sponsoring the Rethink Methane Symposium to explore ways that renewable methane 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 sustainable economic development.

Renewable methane doesn’t come from a drilled well, and there’s no ‘fossil’ in this fuel. Instead, organic gases produced by wastewater treatment, municipal solid waste, and agricultural processes – that could otherwise pollute the air – are captured and processed to harvest a sustainable, domestic form of natural gas usable by heavy-duty vehicles as an alternative to diesel, or used to generate electricity. Renewable methane 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**

**Johannes Escudero**, Executive Director, Coalition for Renewable Natural Gas

Johannes D. 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 nonprofit 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 twenty-two 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 also 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.

**Henry Hogo**, Assistant Deputy Executive Officer, Mobile Source Division Science and Technology Advancement, SCAQMD

Henry Hogo is the assistant deputy executive officer for the Mobile Source Division in the Office of Science and Technology Advancement at the South Coast Air Quality Management District (SCAQMD). Mr. Hogo received a Bachelor of Science degree in Chemistry from the University of California, Berkeley and has been working in the air pollution field for close to 40 years.

As assistant deputy executive officer in the Mobile Source Division, Mr. Hogo is responsible for the implementation of the District’s Clean Fleet Vehicle Rules, development of the mobile source strategies for the SCAQMD’s air quality management plans, analysis of mobile source emissions impacts on air quality, and providing input on California and national mobile source regulations.

Mr. Hogo had previously been responsible for the development of State Implementation Plans for the Los Angeles area including the preparation of emissions inventories and air quality modeling for ozone and particulate matter.

**Stephen Jones**, Managing Director, ITM Power Inc.

Steve Jones joined ITM in 2005 as a research technologist and is currently managing director for ITM Power Inc. based in Irvine, California. Steve has held positions in R&D, product, systems and business development roles and as such has an excellent understanding of the technical and commercial aspects of the business.

Mr. Jones holds a BSc and MPhil in Materials Science from Birmingham University, a MBA from Sheffield University and is a chartered manager.

**Daniel LeFevers**, Senior, Development Leader, Gas Technology Institute

Since 2007, Daniel LeFevers has been appointed Senior Development Leader at the Gas Technology Institute (GTI). He is solely responsible for engaging partners and clients in R&D projects and programs focusing on natural gas, renewables and energy efficiency. Mr. LeFev`ers previously served as the executive director of Washington operations for GTI where focused on obtaining funding, managing project development staff, attaining project objectives, and building relationships with state funding agency staff and potential project partners.
Mr. LeFevers also has over 20 years of experience in the energy field working with scientists and engineers to develop, deploy and demonstrate new energy technologies. The majority of this experience comes from his former position as the vice president of federal public affairs for Waste Management. Mr. LeFevers spent 11 years at Peoples Energy as the legislative director of the Illinois Natural Gas Vehicle Coalition and was instrumental in the passage of Illinois State legislation to provide incentives for the use of alternative fuels.

Mr. LeFevers earned a bachelor’s degree in speech communication and a master’s degree in organizational leadership from Lewis University, with dual concentrations in organizational management and public policy.

**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 B.A. in International Relations from Brown University in 1985.

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

Mike Levin is the Director of Government Affairs for FuelCell Energy, a leading integrated fuel cell company that designs, manufactures, sells, installs, operates and services ultra-clean, highly efficient stationary fuel cell power plants for distributed power generation. He 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, Mr. Levin 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 holds a BA in Political Science from Stanford University and a JD from Duke University School of Law. While at Stanford, Mike served as student body president. He has also completed the CORO Fellows Program in Public Affairs.

**Alan Lloyd, President Emeritus, International Council on Clean Transportation**

As one of the founding members of the International Council on Clean Transportation, and as President Emeritus, Dr. Alan Lloyd’s mission is to dramatically improve the environmental performance and efficiency of cars, trucks, buses and transportation systems in order to protect and improve public health, environment and quality of life.

From 2004 to 2006, Dr. Lloyd served as the Secretary of the California Environmental Protection Agency where he led the Governor’s Climate Action Team (CAT) to implement the reduction of greenhouse gas emissions in California to 80% of 1990 levels. From 1999 to 1004, Dr. Lloyd was appointed as Chairman of the California Air Resources Board before his appointment to Secretary. During his tenure CARB, he passed the first United States regulation to control greenhouse gases from automobiles and light trucks (following the AB 1493 legislation).

Prior to joining CARB, Dr. Lloyd was the Executive Director of the Energy and Environmental Engineering Center for the Desert Research Institute at the University and Community College System of Nevada, Reno, and the chief scientist at the South Coast Air Quality Management District from 1988 to 1996. Dr. Lloyd earned both his B.S. in Chemistry and Ph.D. in Gas Kinetics at the University College of Wales, Aberystwyth, U.K.

**Dr. Stephanie Molloy, Supervisor, Environmental Services Department, City of San José**

Dr. Stephanie Molloy is a Supervisor in the Environmental Services Department for the City of San José. The Environmental Services Department is responsible for the management of solid waste collection and recycling and is instrumental in achieving the City’s goal of zero waste to landfill by 2022.

Dr. Molloy is involved in organics to energy projects, including a gasification demonstration project using biosolids and wood chip as feedstock. Her water and wastewater career has spanned over 25 years. She holds a PhD in Environmental Science from the University of Auckland, New Zealand.
Dr. Jeffrey Reed, Director, Market Development and Emerging Technology Utilities, Sempra Energy

Jeffrey Reed is the director of emerging technology for Sempra Energy Utilities — Southern California Gas Company and San Diego Gas and Electric. In that capacity, he leads development of policies and initiatives aimed at supporting the development and deployment of sustainable energy solutions and leads the natural gas R&D, low-emission vehicle and environmental affairs programs.

He has also lead numerous company initiatives related to renewable low-carbon energy technologies. Prior to joining the Sempra utilities, Mr. Reed was a senior strategy consultant and was an officer with ABB Power Generation in Switzerland.

Mr. Reed holds a doctorate in engineering from the University of California at Berkeley and a masters degree in management from Stanford University.

Greg Roche, Vice President, Sales & Marketing, Applied LNG

Greg Roche is the vice president of Sales and Marketing at Applied LNG. He leads Applied’s efforts to develop onroad, offroad, industrial and commercial markets for LNG.

Mr. Roche has been in the natural gas LNG and CNG fuels business for over 8 years, performing diverse roles in business development, infrastructure expansion, and project development. Mr. Roche previously served as vice president of Sales and Marketing for Cosmodyne and vice president of National Accounts and Infrastructure for Clean Energy. Mr. Roche graduated from Iowa State University and UCLA.

Evan Williams, President, Cambrian Energy Development LLC

Evan Williams is co-founder and president of Cambrian Energy Development LLC that has developed more than 50 landfill gas-to-energy and digester gas-to-energy projects since 1980. He has participated in more than $1 billion in financings for renewable energy projects. He serves as chairman of the Coalition for Renewable Natural Gas, a policy trade organization for participants in the renewable (i.e. pipeline quality) natural gas industry.

Cambrian Energy is a major owner and the manager of RePowered NGV Alliance LLC, North American Repower LLC and related entities that offer the conversion of existing diesel vehicles (trucks and buses) to CNG and RNG with remanufactured to start-of-life condition, dedicated CNG engines at an installed cost much less than the purchase of a new diesel vehicle and substantially less than the purchase of a new CNG vehicle. The group of companies, in affiliation with major NGV market participants, offers all services to allow a diesel vehicle or fleet owner to cost-effectively convert to dedicated CNG, including installation, stationary and mobile fueling station infrastructure, natural gas fuel, and financing.

Mr. Williams is the son of motion picture character actor, Rhys Williams. He was educated at UCLA where he received his Bachelor of Arts in film followed by a Juris Doctorate degree from the UCLA School of Law.
Partner & Sponsors

Applied LNG
Applied LNG is the second largest producer and distributor of liquefied natural gas for alternative fuel use in North America. Established in 1995, the company markets LNG to trucking, oilfield, marine, mining, construction, rail, industrial, and agricultural customers. Applied LNG provides full service solutions that, depending on customer needs, can include LNG supply, delivery from a fleet of 49 LNG trailers, temporary or permanent fueling stations, equipment leasing, and training. Applied LNG supplies LNG produced with renewable natural gas to help customers improve their carbon footprint. The company added a second LNG production train to the Needle Mountain LNG Plant located near Topock, Arizona in 2014. Applied LNG is currently building a new LNG production Plant in Midlothian TX.
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
The California Association of Sanitation Agencies (CASA) is the leading voice for public wastewater agencies regarding regulatory, legislative and legal issues. Along with our member agencies and affiliate organizations, we maximize renewable resources to increase water and energy supplies and ensure clean water 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. A 501(c)(6) non-profit organization, members share a common vision of clean energy and transportation fueled by hydrogen. The California Hydrogen Business Council brings a deeper understanding of the use of hydrogen in energy and transportation to a variety of market segments. California Hydrogen Business Council members are poised to directly implement the technology and service solutions necessary to make the hydrogen economy an environmental and commercial success.
www.californiahydrogen.org

Climate Action Reserve
The Climate Action Reserve is a nonprofit environmental organization that encourages actions to reduce greenhouse gas emissions and works to ensure environmental benefit, integrity and transparency in market-based solutions to address global climate change. The Reserve operates the largest accredited greenhouse gas offset registry for the California cap-and-trade program and has played an integral role in the development and administration of the state’s program. For the North American voluntary carbon market, the Reserve establishes high quality standards for carbon offset projects, oversees independent third-party verification bodies and issues and tracks the transaction of carbon credits (Climate Reserve Tonnes) generated from such projects in a transparent, publicly accessible system. In addition to protocol development and project registration, the Reserve provides thought leadership and technical expertise to governments in support of the development of market-based policies and programs around the globe.
www.climateactionreserve.org
Climate Resolve
Climate Resolve inspires Angelenos to act on climate by making the global challenge of climate change personal and relevant. We enact lasting change in Los Angeles neighborhoods, at City Hall, in Sacramento, and beyond. From our Hot City, Cool Roofs campaign, which helped put a cool roofing ordinance into law that decreases energy use and increases comfort and safety inside homes, to our role as cofounder of the Los Angeles Regional Collaborative for Climate Action and Sustainability as well as the statewide Alliance of Regional Collaboratives for Climate Adaptation, to our events such as 2014’s Decarbonizing California conference, we strive to make Los Angeles a better, more sustainable community.

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) advocates for advanced applications of renewable natural gas derived from cellulosic waste sources so that present and future generations will have access to domestic, renewable, clean fuel and energy supply. The RNG Coalition is a member-led, non-profit trade association providing an education platform and advocacy voice for the renewable natural gas industry. Our members are RNG’s leading companies in North America and around the world, including renewable energy developers, engineers, financiers, gas marketers, gas transporters, technology manufacturers & providers, waste collection, waste management & recycling companies, utilities, environmental advocates, research organizations, organized labor, law firms and consultants.

www.rngcoalition.com

CR&R Waste and Recycling Services
CR&R Waste and Recycling Services is one of Southern California’s most innovative and successful recycling and waste collection companies, serving more than 2.5 million people and 5,000 businesses throughout Orange, Los Angeles, San Bernardino, Imperial, and Riverside counties. Thanks to groundbreaking technologies and pioneering reclamation programs, we are able to recycle over 120,000 tons of materials each year, creating cleaner communities, reducing air and water pollution, conserving landfill space, and extending our natural resources. We’re making your neighborhood a better place to live and work. CR&R is building one of the largest facilities in North America to produce biomethane from source-separated municipal organic waste. The facility, located in Perris, California, will become operational in the fall of 2015. The biomethane will be used as a fuel for CR&R’s heavy-duty truck fleet.

www.crrwasteservices.com

Gas Technology Institute
Gas Technology Institute (GTI) is a leading research, development and training organization addressing global energy and environmental challenges to enable a secure, abundant, and clean energy future. For nearly 75 years, GTI has been providing economic value to the natural gas industry and energy markets by developing technology-based solutions for industry, government, and consumers. From concept to commercialization, our expertise aligns across the entire energy industry value chain. GTI is recognized for its rigorous adherence to independent and impartial testing and quantification of methane emissions. GTI has performed testing and developed methodologies for government agencies, utilities, and private companies with the understanding that the best up-to-date tools and practices will lead to precise conclusions. GTI has also developed and evaluated various leak detection technologies and is currently improving these devices for various applications, ranging from the well head to residential homes.

www.gastechnology.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), 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.

Sacramento Clean Cities Coalition
Clean Cities is a government-industry partnership designed to reduce petroleum consumption in the transportation sector. Clean Cities contributes to the energy, environmental, and economic security of the United States by supporting local decisions to reduce our dependence on imported petroleum. Established in 1993 in response to the Energy Policy Act (EPAct) of 1992, the partnership provides tools and resources for voluntary, community-centered programs to reduce consumption of petroleum-based fuels. In almost 100 coalitions, government agencies and private companies voluntarily come together under the umbrella of Clean Cities. The partnership helps all parties identify mutual interests and meet the objectives of reducing the use of imported oil, developing regional economic opportunities, and improving air quality. Sacramento Clean Cities encompasses fleets in Sacramento, Placer, El Dorado, Yolo, Solano, Yuba and Sutter Counties. We seek to develop cooperative joint ventures that will help businesses and member agencies meet these goals in a cost effective manner.

SMUD
As the nation’s sixth-largest community-owned electric service provider, SMUD has been providing low-cost, reliable electricity for more than 65 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 for its sustainable solutions for a healthier environment. SMUD is the first large California utility to receive more than 20 percent of its energy from renewable resources.

Southern California Gas Company
Sempra Energy is focused on delivering a safe and reliable supply of energy to more than 32 million consumers using a low-carbon model that includes natural gas, energy efficiency, renewable power and innovative technologies. Sempra Energy supports the transition to cleaner burning fossil fuels in the regions we serve with natural gas as a foundation fuel.

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 clean technologies including battery-electric, plug-in hybrid, hydraulic hybrid, hydrogen, fuel cell, and renewable natural gas applications.

Xergi
Xergi designs and builds biogas plants. Based upon more than 25 years of experience, the company has developed plant concepts which are flexible, robust in their construction, reliable in operations, and easy to operate. Xergi focuses on ensuring the customer gets maximum yield on investments. It is our experience that a high quality plant ensures stable operation and a high gas production. As an active partner in all stages of the project, Xergi can assist with project development, dealing with relevant authorities, project design, procurement, construction, commissioning of the plant and its subsequent operation.
SoCalGas® does more than deliver clean, safe and affordable natural gas to its customers. We are committed to the ongoing drive to reduce greenhouse gas emissions and to improve our air quality. We support the development of cleaner technologies to meet our environmental challenges. We're proud to recognize Rethink Methane 2015.