



# ASGE

## American Society of Gas Engineers

### MESSAGE FROM THE PRESIDENT



Hello ASGE members,

I hope that this newsletter finds you healthy and busy. I also hope that all of you are able to be at work and that your business is weathering the storm. (I looked up this idiom and it literally means to stay in one's location until a storm passes). Seems to me to be an appropriate description. Of course, the virus is taking its toll in many ways and the June conference is no exception. The other executives, the Board of Directors, and I had to make a decision on what to do for the conference and the sad decision was to cancel. This was perhaps the low point of my career as the President of ASGE. Eric Bruton had compiled a great list of speakers for this year and I was looking forward to hearing them all speak. Your safety was more important and not knowing the future ahead, we decided cancelation was the right action. We also did not want to cause struggle with your various companies, who may have travel bans in place until this pandemic passes or the corporate sponsors who provide us with their funding to allow the conference to take place.

On the bright side, the speakers have all agreed to present next year and we will be working to make the 2021 conference as great as can be. I hope we will be able to see many new faces as well as those who have supported ASGE for years. In the meantime we are using the website to keep you apprised of any noteworthy items for the gas industry and have opened a new tab with industry news. If you visit, the website the Industry tab can be located adjacent to the Payment and Newsletter tabs. As we receive various information regarding gas industry events, we will add them to this tab for your review.

Before I close, I would like to tell all of you that our Vice President, Eric Bruton, has volunteered to represent ASGE as a member of the AGA BEGS Committee (Building Energy Codes and Standards). This committee is comprised of members from the gas utilities who are trying to fight the Electrification of buildings for heat and cooking and promote the use of Natural gas as a clean and reliable source for homes and businesses. I think Eric will represent ASGE and our interests well.

Thank all of you for your support of ASGE and I look forward to seeing many of you next year at the conference. Please visit the website and look for communications from our Executive director, Nancy Wilson, for any new items that may arise in the coming months.

Cordially,

Ray Maddock

### Platinum Sponsors



#### Officers

- President, Ray Maddock
- Vice President, Eric Bruton
- Treasure, Ellora Larson
- Executive Director, Nancy Wilson

#### Directors

- Director, Mike O'Donnell
- Director, Gary Liljenberg
- Director, Dante Cantal
- Director, William Taylor

# Hydrogen in Our Future - Part 2

By Alex Gafford, Charbroil, LLC

Robert Cowan's article in the 1<sup>st</sup> quarter newsletter was most timely and informative. I would like to add some additional material to the conversation based on work we have been involved in during the last year or so. This has related to the use of a hydrogen methane mix in a gas grill where the ratio was between 70 and 90% hydrogen and the balance methane. This created some challenges but also highlighted some positive benefits. Of course, the big issue is the low energy density of hydrogen compared to propane, the most common gas grill fuel. This was eventually addressed by the concept of using high pressure (ca.3000psi) composite cylinders with two stage regulation to get down to the ½ psi range at the valves. Design of the burners was, of course, the subject of considerable experimental work but a satisfactory solution was found.

In testing two things were most salient; first, the cooking performance at similar BTUs/hr was as good or better with the hydrogen mix as with propane, cooking on two grills side by side, and second, testing of delayed ignition was surprising as we could not get anything other than normal burner ignition no matter how much gas for low long was run into the firebox. That implies that a combustible mixture was only available at the burner ports due to the high diffusivity of hydrogen.

All this work was done in cooperation with Pro-Cyl LLC , a company based in Minnesota that has granted US patents on the gas mix described and their use in cooking appliances. The Pro-Cyl technical team contributed the bulk of the appliance engineering involved and has developed significant expertise in this area.

In any case, my personal opinion is that gas engineers looking into the future need to be considering hydrogen as a thermal fuel both in high and low concentrations. It may be interest to know that in their next meeting the ANSI Z21.58/CSA I.6 Technical Subcommittee will be considering adding hydrogen mix gas to the list of possible fuels of outdoor cooking gas appliances.

## Gold Sponsors



# New ASGE Members

- Paul Sohler - Crown Boiler Company
- Armando Gonzalez - Defendi North America, Inc.
- Paul Julich - PGS+E
- Keith Cappuccio - DMT Plumbing and Heating Corporation
- Nestor Camara - McDowell Owens Engineering, Inc.
- Eric Benstock - McDowell Owens Engineering, Inc.
- Amarjit Das - Reliance Industries, Ltd.
- Mark Masen - Maxitrol Company
- Wes Crabbe - Bond Manufacturing
- Jason Delgadillo - BR Laboratories
- Anthony Gross - Regal Beloit
- Daniel Fabry - L B White Company
- Marcelo Mendez - White Rodgers Emerson Division
- Antonio Morales - White Rodgers Emerson Division
- Todd Hetrick - Exponent Inc.
- Jesus Vazquez - White Rodgers Emerson Division

Let us welcome our new members of ASGE!



# Conference Update

American Society of Gas Engineers

## National Technical Conference

South Point Hotel & Casino—Las Vegas, Nevada June 7-8, 2021

\*\*\*\*\*

### 2021 Conference Presenters

Mark Mason	Maxitrol	Communication Compatibility with HVAC Equipment, IoT
John Gorman	CSA	Non-Metallic Venting
Stuart Saulters	APGA	Battling Electrification, A View From The Gas Utility
Jim Ranfone	AGA	Debunking Commercial Gas Cooking Electrification
Kent Nelson	UL	Gas Control US Safety Standards and International Harmonization
Frank Johnson	GTI	Residential Gas Cooking and Indoor Air Quality



# Angelo Cortes

August 12, 1961 - April 10, 2020

Angelo was born in Mandaue, a 1st class highly urbanized city in the island province of Cebu, Philippines.

He and his family moved to the United States in 1973.

Angelo graduated from California State University, Long Beach in 1993 with a degree in mechanical engineering.

As design engineer he worked at Holmes-Hally Industries, Deutsch Metal Components, Dacor and Hestan.

During his 29 year career, Angelo's personality coupled with his professionalism and genuine desire to always share his engineering knowledge with others earned him the respect and admiration of his colleagues and supervisors. Chris Moy, his supervisor at Hestan, stated that Angelo was a highly experienced engineer who always worked hard to meet strict deadlines but had the ability to handle difficult situations in a calm manner. He will be missed.

Angelo always put family first and so most of his hobbies orbited around his two children. He joined them in every sport activities and events until they reached adulthood.

Angelo is survived by his father Felix Cortes, Sr., his wife of 29 years Marilou and children Sean and Angela. He is predeceased by his mother Angela Cortes.

