

## Dan Spohn

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**From:** ARM, Inc. <dspohn@arminc.com>  
**Sent:** Wednesday, July 20, 2016 10:15 AM  
**To:** dspohn@arminc.com  
**Subject:** High Purity Updates & Info from ARM Inc.



Advanced Research Manufacturing 719-538-5959  
Innovative High Purity Gas Supply System Solutions

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Dear Dan,

Lá Fhéile Pádraig, St. Patrick's Day in Irish, but to be exact it translates to "the Day of the Festival of Patrick". Patrick was Romano-British missionary sent to Ireland in the 5th century. Seems it wasn't his first visit to the Emerald Isle having been kidnapped by Irish raiders and kept a slave shepherd for 6 years. After escaping back to England he took to the cloth following in his father's and grandfather's footsteps. He returned to Ireland, to convert the Irish pagans to Christianity. With much effort he drove the druids (snakes) out of Ireland. Seems Ireland has never actually had any real snakes. Regardless of actuality or allegory, tradition says he died on March 17th, in the year 461, and remains one of the most celebrated Saints in Ireland, and most of the world as well.

Some interesting facts thanks to the Internet...

- The first St. Patrick's Day parade was held in New York City in the 1762 by Irishmen serving in the British military.
- There are 34.7 million US residents with Irish ancestry, second only to German, and more than 7 times the population of Ireland today.
- Until the 1970s pubs in Ireland closed on St. Patrick's day.
- There are currently over 144,000 Irish born residents in the US.

Having been to Ireland numerous times, I can honestly say I've never seen green beer in a pub, corned beef and cabbage on a restaurant menu, or a leprechaun (either in person or on a poster). But I hope you had a festive and safe Lá Fhéile Pádraig.

## [Success at Pittcon-Atlanta](#)

### [A Safer Purifier?](#)

### [Flow test panel ships!](#)

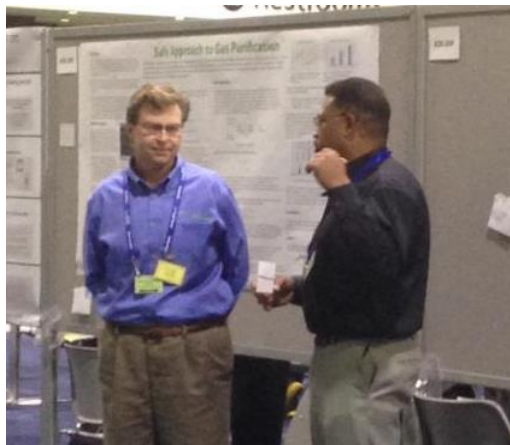
## **Success at Pittcon-Atlanta!**

Exhibiting at Pittcon 2016 was a first for ARM, Inc. The conference took place in Atlanta, GA March 7-10. ARM promoted our Nova GC purifier, as well as the rest of our products to some 15,000 attendees over the 4 days. Booth traffic was brisk. We were able to meet with many potential customers, and made time to meet with some current customers and suppliers. All-in-all it was a very positive experience and we look forward to repeating our presence at Pittcon 2017 in Chicago next year!



Steve Wright, ARM Sales Manager, manning the booth at Pittcon 2016

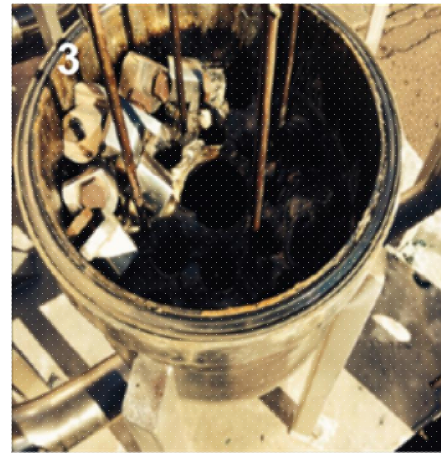
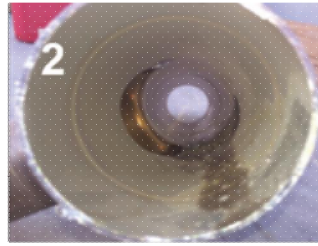
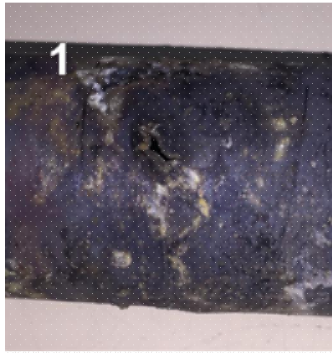
The show floor also held a very extensive section featuring poster papers. ARM Inc. submitted a paper for the poster sessions and our submission "Safe Approach to Gas Purification" was accepted! The paper outlined current catalyst technologies and the risks involved with reactive gases. It also showed results from ARM's research with a much safer catalyst that can produce the same purification performance without the catastrophic exothermic potential.



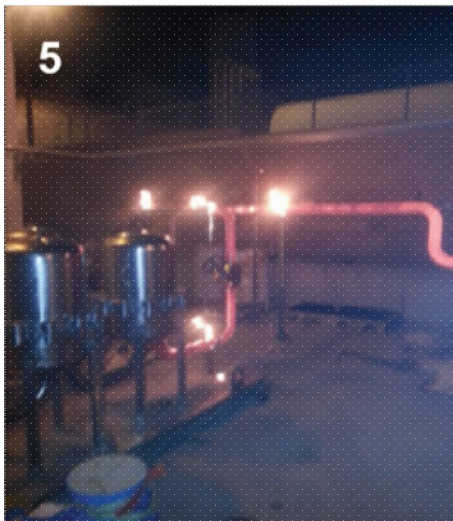
Brian Warrick (at left), ARM's VP and chief technologist at the poster session

## **A Safer Purifier?**

Safety is always a concern with catalysts and reactive gases. ARM has been researching different catalysts looking for a safer alternative, one that has lower risk of catastrophic failure from exothermic reactions. The pictures below offer a glimpse of what can happen when reactions, between certain catalysts and high concentrations of reactive impurities in a gas stream, go exothermic.



## Exothermic Damage



- 1) Breach of a purifier vessel wall.
- 2) HCl formation and tube wall damage downstream of an exothermic reaction.
- 3) Filter housing damage.
- 4) PTFE filter element damage.
- 5) Glowing tubing downstream of a bulk purifier on a gas pad.

Read the complete white paper which was the subject of our poster presentation at Pittcon.  
[Safe Approach to Gas Purification](#)

## Latest Installation & Start-up!

ARM does more than just point-of-use, micro-bulk and bulk purifiers. We recently fabricated the build-to-print UHP valve manifold shown here. This panel will be used to safely deliver flammable gas. ARM's in-house CAD, welding, fabrication, and testing capabilities far exceed those of traditional panel shops. When your next project requires high purity fabrication give ARM a call as we will fabricate to your design or we will design to your specifications.



## Thanks for reading this far!

We understand that there is very little time in the day to read all the newsletters that make it to your inbox. We will strive to not be 'that company' spamming the world with useless information seemingly every other day for no better reason than some webinar told them that is what they should do.

As noted above if you opt out we will honor your request. If you do tho, you may want to like us on Facebook or follow us on LinkedIn so you can keep your inbox clear, but still keep in touch with what is going on with ARM Inc. in the gas world.

Sincerely,

**Dan Spohn**  
**ARM, Inc.**



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