Hello there and welcome to the summer edition of the ISA AD newsletter from your newly minted but not so fresh off the boat editor. Time to step up and give a little back, I was reminded, to an organization that represents not only all of my career to date, but also many of my trips and travels (or perhaps in some cases travails?), my successes and err not quite successes and my mentors and friends. …with the odd quick country exit, passport change, fake ID and disguise thrown in for good measure.

So, there I was amongst my colleagues raising my hand to step into the fray, assured by my colleague and friend Randy Hauer that the ‘load is not onerous’, and two of the great orators of the 20th century filter into my brain. The first of Mark Twain who said “I am not the editor of a newspaper and shall always try to do right so that God will not make me one” but then followed closely by Winston Churchill’s “history will be kind to me for I intend to write it”.

These are of course better men than I (Gunga Din) and I bow to their superior wit and intellect but then they were not in the world of analysis. We are indeed a rare and interesting breed and I, for one, am happy to call it home, as I’m sure are most of you. So over the coming editions I will try to offer a few brief interludes from our world; some funny, some serious, maybe a little ribald in places (sources held to account of
course) but always to keep ISA AD in the forefront as your place in the world.

As such I am honoured to step in as your friendly newsletter editor and to do my part in keeping the wonderful and ever growing ISA Analysis Division moving forward.

So, please dive into the summer edition, pepper us with your comments, suggestions and feedback and remember there are a plethora of resources within ISA AD that are more than willing and able to help you in your hours of need.

Stuart Simmonds
ISA AD Newsletter Editor

Introduction Message from the 2013-2014 Director:

Since you are reading this Newsletter, there is a high probability you are involved in the process analyzer industry and the Analysis Division. So, first, thank you for being part of this organization. Secondly, in case you haven’t been reminded recently, this group of end-users, EPCs, educators, manufacturers and sales & service providers, is your professional family. A family can be defined in different ways but a true characterization of a functional family usually includes a degree of participation. Attending the annual symposium, communicating remotely [LinkedIn], working in the Standards subcommittee or volunteering in one of numerous AD activities define participation and this involvement is a key strength of AD. Thank you for participating and let’s keep the involvement going!

We had an outstanding 58th Analysis Division Symposium held at the Galveston Island Convention Center and I’ll defer the detail information and statistics to the Symposium General Chair report. The groundwork of this annual event begins months prior to the five day meeting with a team of volunteers [who have day jobs] and ISA support staff. This team plans and refines the contracts, location, training sessions, technical program, exhibition format, menu selections, paper reviews, facility configurations, registration and advertisement. During this time, many of you were busy drafting and modifying technical presentations or working on hardware display setups and logistics. The web site administrator was actively churning out updates as registration instructions and updated program information were evolving. A vast number of decisions were discussed and finalized from selection of the location to design of the symposium slogan and everything in between. The time investment is significant but the reward is continuity of a premier professional society which is maintained and improved by our membership. Farmers have demonstrated the harvest principle for years, the more seed you plant, the greater the harvest. We’re all very pleased with the quality of the AD Symposium and our record attendance, highest exhibition space and increasing number of students in the classes in 2013 indicate the model and effort are meeting our goals.

I mentioned goals and will expand on what these should include from an Analysis Division perspective. We must influence the way we practice of our skills in the utilization of process analysis / process analyzers to meet industry requirements. These requirements typically involve operational efficiency, product quality and meeting or exceeding regulatory requirements. ISA AD must actively participate in setting standards which govern the design and implementation of our technology. Our SP-76 committee is an example. Another goal is in educating our membership including both individuals new to this technology field as well as experienced engineers. To this end, our manufacturers and suppliers provide presentations on analytical principles, hardware function and applications during the symposium and through one-on-one discussions around the exhibit tables. In addition, AD annually offers the volunteer led basic course [Fundamentals of Process Analysis] which covers process analyzer principles at an introductory level. The advanced courses offered are designed to provide higher level information for experienced engineers and are instructed by industry subject matter experts in the chosen field. Examples of these courses are Sample Conditioning Systems and Statistics. For a second year,
“hands on” vendor training was provided for site engineers and maintenance staff and the number of participating companies and students increased in 2013. Expanding the base of this society is another goal as our process automation world continues to evolve. Major projects continue to be located globally requiring a world-wide work force which is involved in design, engineering, procurement, fabrication, installation, startup, operation and on-going support of the vast array of process analyzers. Our division must continue to grow as an international organization. I’m pleased to report that the 2013 symposium had attendees representing 17 different countries. The utilization of the web site is key for communicating on a continuous basis with a global community. Another critical area for expansion is in the younger engineer generation where we need to attract, recruit and assimilate their media skills and communication styles into our division while we educate them on our technology. Again, the inclusion of a student symposium session track in 2013 is a step in the right direction as well as hosting FIRST at the open house night. Our survival as a discipline and organization depends upon our success in demonstrating the value of our division to the next generation in a way that they become a part. They are the future.

In closing, we encourage you to increase your involvement as much as you are able, you’ll find the rewards are great. We want to ensure the sustained performance and quality of the Analysis Division and to modify as needed to be a viable, pertinent and “organization of choice” in the field of process analyzer technology.

Don Nettles
Director ISA Analysis Division (2013-2014)
E-Mail: dnettles@chevron.com

Education Chair Message:

Training classes at AD 2013 in Galveston set a new attendance record for this ISA community. These classes continue to be well attended year after year, which is clearly a great testament to their value and the quality of instruction.

The advanced courses this year included the sample system course by Tony Waters, and a new course on statistical concepts by Alex Lau. It is important that we recognize the group of volunteer instructors who each year cover the various topics in the fundamentals class. We thank all of the instructors for giving back to the community.

This year we also had help from Paul Hromadka, who made his debut as the AD Education Co-chairman. Paul provided invaluable assistance coordinating the Sunday courses. This was the second time the vendor hands-on training was provided at the end of the conference. We thank all those who participated and gave their time and effort to make this educational experience valuable and rewarding. Also, a most sincere thanks, to all the many businesses that support these activities.

Manny Alvarez
Education and Training Chair

Symposium Chair Message:

Thank you for attending the ISA Analysis Division Symposium in Galveston, TX. The conference, with its technical content, courses, and vendor displays, attracted diverse and committed participants from around the globe. Now that AD 2013 has concluded for another year, I’d like to take this opportunity to thank everyone who played a part in making AD2013 the success that it was.

To the presenters—of papers, of panels, keynote speaker, and trainers: your contributions are what made the content of AD2013 so rich. You provided attendees the opportunity to learn about technology and research relevant to our careers. You gave some insight to our professional society and how it is evolving. To the vendors: The Technology Forum was a success and your support enhanced the conference by providing additional learning and networking opportunities.
during the day and evenings—we couldn’t have done it without you! Your support for AD is greatly appreciated, and we thank you. To members of the organizing committee: The teamwork and commitment of the volunteers was incredible. Many long hours went in to the development of the program, the website, the planning of vendor technology forum, the coordination for the spouses program, registration, and all the logistics that are part of managing a conference of this magnitude;

Special Thanks to the Following:
Dale Merriman, Don Nettles, Randy Hauer, Rodney Jones, Paul Barnard, Michael Chaney, Manny Alvarez, Phil Harris, Shana Kiser

Again, thank you to everyone who supported AD 2013. I sincerely hope that you enjoyed the conference. It was great seeing familiar faces and meeting new friends. We hope to see you at AD 2014 in Baton Rouge, Louisiana! Until then, I wish you the best.

Cindy Cauthen
AD 2013 Conference Chair

Publication Chair Message:

The 2013 ISA Analytical Division Symposium once again held to the high standard now expected in this first class event relating to process analyzers and their use in multiple industries. There was an excellent combination of established authors and first time presenters from nations in the Americas and Europe. The paper review team had a difficult task when they read and critique the 35 papers that were delivered to the audience. Not only must they be aware of the technology being discussed, so that pertinent technical questions can be asked, but they also lean on the author who merely wishes to present a sales pitch to make them change the content to reflect our non-commercial guidelines. It is a time consuming task, and I am sure the Symposium does not fully realize the time and effort it takes. It is however, a very rewarding endeavor, and I would like to re-iterate my thanks to those individuals who have been on the team for many years, or for the first time. It is interesting to observe that a large number of papers are centered around measurement of analytes involved in water and air emissions. I like to think that this helps keep our community safer than the good old days when anything and everything was pumped into the atmosphere and rivers.

Congratulations to our awardees for 2013 – we had a first this year with a tie, two papers could only be separated by the second decimal place, so we awarded both papers third place.

The winners are:
Joint 3rd Place:
Utilizing Online Oil in Water Analysis for Process Management and Prevention of Environmental Incidents – Challenges & Successes
By Frank Richerand Jr. & Bailey Brubacher

Joint 3rd Place:
Hot Boxes for Sample Conditioning.
By Martin Hess, INTERTEC-Hess GmbH

2nd Place:
Comparative on-line Atmospheric Distillation and Total Sulfur Analysis Methods in the Gasoline Blender
By Susan P. Harris, PAC, Randy Ridge, Marathon Petroleum

1st Place:
Advancements in Trace Moisture Measurement of Desiccant Dryer Output Reduce Various Operating Costs in Natural Gas Cryogenic Process
By Xiang (Sherry) Liu, Greg Lankford, Hsu-Hung Huang, Kuan-Ting Yeh – SpectraSensors, Inc. Charles Bates – DCP Midstream

Dr. Paul Barnard
Publications Chair
Book Signing Event – *Industrial Sampling Systems* by Tony Waters:

At the invitation of the Analysis Division Tony Waters launched the release of his encompassing text book project *Industrial Sampling Systems*. After his Sunday advanced course Tony took up station to distribute and sign copies. The book is a magnum opus of process analyzer technology. Tony reports 180 books were sold during the symposium and total sales to date have exceeded 1,100 copies. The Analysis Division has benefitted in 2012 and 2013 to have Tony conduct a one day advanced course on Sampling Systems for our Sunday session, compressing as best he can the essence of his full five day course into a one day format. We are grateful for this contribution and launching the book at AD 2013 was an honor for all of us. Swagelok sponsored the book and if you are interested in purchasing a copy, contact your local Swagelok distributor (cite part number MS-02-469).

Webmaster’s Message:

The website continues to grow and attract more hits year over year. The lead up to the 2013 Analysis Division Symposium saw record web activity in January, February and March - and the month of the conference was almost identical to that of the previous year. In the next few months - we will be updating the site with information about the 2014 symposium as well as posting more proceedings from past conferences.

Our presence on LinkedIn continues to grow as we approach 800 members. Join us now by clicking here [http://www.linkedin.com/groups?gid=4152367&trk=myg_ugrp_ovr](http://www.linkedin.com/groups?gid=4152367&trk=myg_ugrp_ovr)

It is especially gratifying to see the number of international members we draw. Keep visiting at [http://www.adsymposium.org](http://www.adsymposium.org) regularly as you never know when the latest update has been done!

...And International coverage remains strong. This shows where our recent web traffic has come from and our international impact.
**Phil Harris BSc MSc, Webmaster**  
Manager, Applications Engineering  
AMETEK Western Research

**AD-2014 Baton Rouge / Call for Papers:**

The organizing committee for the 59th Analysis Division Symposium has released the call for papers for AD 2014. Full information can be found by clicking on the link below which will take you to the www.ADSymposium web site. In summary:

An “Intent to Present” is due immediately to Mike Chaney (Technical Program Chairman, at michael.chaney@lyondellbasell.com). Abstracts need to be submitted by 20 December 2013 to Paul Barnard (Paper Review Committee Chairman at, paul.barnard@lyondellbasell.com).

- Intent to Present: Due immediately
- Deadline for abstracts: 20 December 2013
- Draft Paper to Review Chairman: 24 January 2014
- Reviewers’ Comments to Authors: 28 February 2014
- Final Paper for Publication: 14 March 2014
- Papers Sent to Publisher: 28 March 2014
- Oral Presentation Electronic Materials: 16 April 2014
- Symposium Presentation: 04-08 May 2014

[http://www.adsymposium.org/Call_For_Papers/Call_For_Papers.htm](http://www.adsymposium.org/Call_For_Papers/Call_For_Papers.htm)

The AD has been oversubscribed for the past three years and the protocol has been "abstracts first in are first on the list". Once the program is full abstracts go on a waiting list pending the subsequent author deadline dates. Get your abstract in early if you want to be on the program.
2013 ISA Honors & Awards:

**ISA Automation Week (Orlando):**
Under the guidance and direction of our H&A chair, Dr Jerry Clemons AD had 7 of our members who won honors & awards;

1) **Excellence in Analytical Technical Innovation, (Endowed by the ISA Analysis Division)**
Recognizes an individual who has played a critical role in the conception, design, and implementation of an innovative product in the analytical technology field. This year’s award was given to **Dr. Malcolm "Sam" Langridge**, Buxted, Sussex, UK (at that time AMETEK Process Instruments, currently with Servomex working on business development)

Sam started out as a chemistry teacher, joined Servomex, then went to work for Applied Automation, then ABB Process Analytics another stint at Servomex, next with ASI (Yokogowa), then AMETEK Process Instruments and back to Servomex (something of a 1-2-1-2-1 rhythm there with Servomex). His resume covers groundbreaking work in IR, UV, TDL, Paramagnetic and GC analytical technologies. He is being specifically honored for the development and application of novel Zirconia based sensors, CO equivalent sensors, extractive Zirconia analyzers for combustion analysis and control. Sam is known to all as a Boffin of the analyzer industry. An innovator who weaves high science to practical experience who can make you laugh at it all. This is the highest accolade for our profession. As with the four previous winners of this award (recast from the "Luft Award") Sam is a native son of the Analysis Division and he honors us all with his lifetime achievements

2) **Excellence in Technical Presentation**
Recognizes the author(s) of the most outstanding paper published presented on behalf of ISA that introduces a new technology or explains an existing automation process. The Award went to a group of colleagues from Siemens. What makes us most proud is the paper is of general benefit to all analyzer manufacturers as well as users. This speaks to the intellectual generosity of the authors and the high standards of our paper review committee

**Robert L. Farmer** (Siemens Industry Inc., Bartlesville, Oklahoma, USA) Tulsa Section

**Udo Gellert** (Siemens Industry Inc., Bartlesville, Oklahoma, USA) Non Member

**Ty Campbell** (Siemens Industry Inc., Bartlesville, Oklahoma, USA) Non Member

For the paper "**Ambient Temperature Testing Issues for Process Analyzers**," presented at the 2012 Analysis Division Symposium, Anaheim, California.
3) Enduring Service:
The ISA recognizes outstanding individuals for their dedicated volunteer service to the Society at the grassroots level. The Analysis Division was honored to have three of our members singled out.

**Mike Chaney**
Known for his tireless work as technical chair for the Symposium. His leadership as the Director of the Analysis Division (2008-2009). For originating and securing funding of the Luft award that honors lifetime contributions to our profession. For his many years of active service to the Will Du Page section in the Chicago area. He has given generously of his time to mentor every successive AD Director, to provide guidance whenever asked.

**Dutch Keen**
A member of ISA going on 40 years, Dutch has held two VP positions including the A&T department that guides the Analysis Division. A long standing and active member of the AD Houston Section.

**Bill Johnson**
Our member chair since 1995, our longest continuing service position who has never asked for relief. Thirty years in AD. Symposium Chair for AD 2010 (New Orleans), Symposium Co-Chair 2014 (Baton Rouge).
Our Supporting Sponsors

The AD solicits vendors who have participated in Symposium to support the newsletter. We know there is keen competition for each and every marketing dollar and they choose to set aside a small sum for the AD and be known for their generosity in support of our special projects. We thank them. If your company is interested in a placement please contact the newsletter editor.

A Special Thank You to Johnny Austin at AMETEK who kindly stepped in to format the Newsletter for us.
SIEMENS

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Siemens Process Analytics has been awarded the prestigious ISA Analysis Division Product-of-the-Year award for 2013 for the Maxum gas chromatograph featuring the new modular oven option and new color touch screen display.

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For more information, please contact:
saasales.industry@siemens.com

www.usa.siemens.com/gc
We hope you enjoyed this issue of the ISA AD Newsletter.

Look for the next issue coming Winter 2014.

Contact the Newsletter Editor if you wish to be a supporting sponsor.
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