Hello there and welcome to the Fall edition of the ISA AD newsletter from your friendly editor. Firstly it has been a tough year for all our fellow colleagues, friends and families in the southern US this hurricane season. Our thoughts and prayers are with all those folks that has suffered through the storms and struggled to get back on their feet. We wish all those concerned a speedy recovery in both their private and professional lives. We have some further details in the newsletter pertaining specifically to Hurricane Harvey – so please read on and we send to all those affected our heartfelt best wishes.

On a much happier note, the ISA AD symposium took to the road again this year, and with much success had a fantastic event in Pasadena, CA in the spring time. A great deal of credit (and no short amount of thank yous) goes to our local on the scene team of Ryan Mead (of Andeavor LA Refinery formally known as Tesoro LA Refinery) and Tim Kuikens (formally of Cemtek and now of M&C). Three solid days of technical papers, an excellent vendor technical forum, training courses and special technical workshops, plus a very fine banquet guest speaker (Kevin Debruin) from NASA. The
symposium was considered by all to be a roaring success.

As many of you folks know, ISA AD has an excellent home base in Galveston, Texas but we are always on the hunt for some suitable alternative locations to expand our reach. Over the years, as we have grown in size and scope, this has proved somewhat challenging. The juggle of finding a location large enough to handle our symposia requirements within suitable reach of our core base of members all too often proves very difficult. So, it is particularly pleasing when we do find such a location and are able to continue with our winning formula. As always we remain on the hunt for other such suitable alternatives to the Galveston home base. (All such location ideas are welcome).

As we mentioned in our last newsletter out we are continuing to expand our global reach (with the excellent help of Mo Loch and his team at DMS Global). The second UAE AD symposium took place in early October with expanded coverage and increased attendance (There was even a front page, pride of place, article for our very own fellow Randy Hauer in the regional ME Automation magazine). Please read on in this newsletter for more details on the event.

Mo and his team will also be putting on our inaugural ISA AD event in Singapore in December. We will have a detailed round up from the event in the spring edition of the newsletter.

Finally, as many of you know (or indeed have in your possession), the ISA AD committee has been collating and archiving past symposia papers for many years now. Starting with our new edition of the newsletter in the spring we are planning to highlight some of the past papers that we think might be of interest in one way or another to our readers. Be it the first paper on a now established technique or technology once ubiquitous but now neglected, we hope to not only pique your interest in the breadth of knowledge within the ISA AD family but also to highlight its longevity. As members of this special band of folk we are truly lucky to be surrounded by a wealth of experience and knowledge that has been preserved and made available. We will be reviewing the archive to highlight one or two papers in each of the forthcoming newsletters. (Again all recommendations will be warmly received).

So, as we look ahead to the spring, the details for our return to Galveston are starting to formulate. We have some preliminary information on the event and the call for papers details in this newsletter. Plus we urge you to check in regularly with our website (http://www.adsymposium.org/) for more information and updates on the spring symposium.

And so without further ado please dive into the Fall edition of our newsletter.

Stuart Simmonds
ISA Analysis Division Newsletter Editor

Message from the Director:

I want to continue to talk about something that my predecessor, Tracy Dye, put out in the 2016 Fall Newsletter. He mentioned that he remembered presenting his first ISA Paper, and that if you enjoy what you do, then it isn’t hard work at all. The first paper I gave at an ISA Symposium was in Calgary in 2003, quite an experience for me. Authoring the paper, getting legal to approve it, making sure the reviewers were happy. I have to admit it wasn’t easy for me as a rookie. Those of you who have authored many papers will probably roll your eyes, but the whole process from writing the title to that final round of applause can be quite daunting. It was hard work, and I want to acknowledge the effort our presenters put in to getting that PowerPoint and Word Document delivered in a timely manner, and in the format required, and with the technical content we strive to maintain. But it does get easier and more enjoyable as that first pain threshold is reached and passed. Having worked on the AD Symposia organizing Committee for what will be my 11th time in 2018, I have found the tasks rewarding. There are times, however, when the demand on a person’s time can become too much. It is at these times when the power of many makes the job manageable. We had two great first time folks involved this past year, Ryan Mead and Tim Kuiken, who jumped into the fire for 2017 in Pasadena, CA and came out the other side unsathed and fully deserving of our heartfelt thanks for their time and efforts. Maybe this could be your turn? Could you put together the program, or help track the volunteers who teach the Sunday and Thursday training classes? You might just enjoy the time engaged on the team. Let us know.

We continue to excel, we have once again been nominated for the ISA Division Excellence Award, a trophy hoisted by Tracy last year, something I would love to emulate. If I do, it is on the backs of the many, many people who have built this Analytical Division into the strong family that exists today. In 2016 the first AD event in UAE was successfully held, followed by a 2nd Symposium in 2017. Plans are well underway to expand this to an event in Singapore. We heard from Mo Loch at our Symposium in Pasadena about the opportunities at those international events, and remind our Exhibitors that this can be a wonderful way to reach out beyond the confines of North America and Europe.

In April, we once again held a one day event on Thursday, completing what is now effectively a very full 5 day Symposium. Thanks to Marc Trygstad and Dave Novak for cajoling attendance to discuss the impact of Industry 4.0 and its impact on analyzers. It’s important we stay ahead of the game, see what is trending, and try to provide timely solutions to our customers – the plants we work in and support. There were even some obscure references to The Hitchhikers Guide to the Galaxy in there somewhere, the presentations certainly were thought provoking, and I hope will sustain interesting discussions in next year’s symposium. Wherever you are, and whatever you do, enjoy what this community can add, and get active, see you all in Galveston in 2018.

Paul Barnard
Director ISA Analysis Division (2017-2018)
Second Annual UAE Analysis Division Symposium:

The second annual ISA Analysis Division Symposium was held on October 3rd & 4th at the St Regis Hotel in Abu Dhabi. The first event in October 2016 was a sound success and the regional on-line process analyzer community in the Gulf Region was most enthusiastic to reconvene and see it grow. To accommodate the demand for more technical presentations the event was expanded to two days and was oversubscribed with the abstracts that were submitted. The Vendor Forum was expanded from 12 to 18 Exhibitors and also had a waiting list. The true measure of an Analysis Division event is the growth in attendance and the measure of this was a doubling from 150 attendees in 2016 to over 300 registered attendees this year.

We were honoured to have Mr. Abdul Nasser Al Mughairbi (Senior Advisor ADNOC Executive Office & President ISA UAE) to give the keynote address on opening Day. Mr. Al Mughairbi addressed how the ADNOC group of companies is addressing the new reality of hydrocarbon exploration and downstream processing and how ADNOC looks to automation to cut costs.

The conference organizer DMS works closely with ISA Headquarters to arrange all of the details that go into a conference of this size and the Analysis Division is grateful for the stewardship of our Symposia outside of North America. Planning for the 3rd annual ISA-AD UAE 2018 is already underway and we look forward to supporting this event.

Message from the Standards and Practises Chair:

The SC65B WG 14 meeting was held at the GAMBICA facilities in London, UK. October 2, 2017.

Eleven participants, from six countries, attended this WG-14 meeting and several other individuals (some from additional countries) submitted electronic reports/inputs for discussion and consideration.

SC65B WG 14 is currently directly impacting ISA standards in primarily four areas. Three of them involve IEC to ISA transfers through SP76 and one an ISA to IEC transfer.

The WG meeting was held in London and in addition to ANSI/ISA was supported by attendees representing European Instrument and Standards related organizations like EEMUA, NAMUR, the Dutch Process Analyzer Platform, BAM - a German government research institute, the Chinese National Committee, plus individual vendor and user businesses. In addition to just working on specific documents, these meetings are an excellent opportunity for us to learn more about international trends in standardization and technology, both during the meeting and more informally during our breaks. Our participation and networking at these meetings is also a good way to enhance and keep the ISA name more visible within the other involved organizations and countries. It gives an opportunity to promote ISA products and events like the AD Symposia, standards, publications, training, and others.

International support for WG14 activities is growing with significant recent increased participation and interest from China, Japan, Canada, and Europe (particularly Holland, Spain, and France). The USA, UK, and Germany have been major supporters of our activities for over 20 years.

The meeting was attended by James F. Tatera - SC65B Co-Technical Advisor, WG 14 Convener, and WG 14 Expert

Wes Carter
Standards and Practises Chair

Message from the Membership Chair:

AD Membership continues to remain quite steady at around 900 members, fluctuating plus or minus 50 members every couple months with an uptick that coincides with the annual symposium. AD have remained at this level for a number of years, which is positive in light of the overall change in ISA membership numbers, though they too have stabilized recently.

A change that has been recently instituted has been to replace the New Member Welcome letter and Active Grace letter questionnaire with a SurveyMonkey link thus making it easier for the individual to provide feedback to the Division while also making it easier for us to compile on our end as well. This change will start with the September distribution.

Adoption Affiliate Member: 2
Active: 12
Life Fellow: 15
Active Community Member: 18
Affiliate: 24
Senior Members: 80
Students: 252
Members: 857

Adoption Affiliate Member: 2
Active: 12
Life Fellow: 15
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China 1
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Asia 18
Latin America 41
Middle East 18
Europe 248
Indian Subcontinent 45
Canada 19
United States 344
One other item, is to remind our members that if they are in the unfortunate situation of being unemployed, ISA continues to offer forgiveness of member dues for 1-year. Information on how to take advantage of this benefit can be found at https://www.isa.org/unemployedmembers.

Ian Verhappen
Membership Chair

Analysis Division at the Honors & Awards:

Please submit your candidates for Honors and Awards Technical or Service Awards beginning January 1, 2018. The candidates for Fellow Membership Grade can also be submitted on that date. If you have question about the submission process for these Awards or Fellow Membership please do not hesitate to send me an email or give me a call. It is very important for the Analysis Division to have names of deserving members named as Fellows and to have at least, two candidates for the Excellence in Analytical Innovation Award sponsored by our Division.

The following awards were bestowed in this past year:

ISA Fellow

Gerald Combs, Ph.D.
Analysis Division, Retired (Siemens Industry), Kemp, Texas, USA
For contributions to process analytical technologies for environmental monitoring.

A 33 year industrial-technical career focused on: conceptualizing, designing, manufacturing, and managing technology and business development in the process analytical technology industry. Working with a diverse group of multi-disciplinary engineers, account managers and combined multi-national technologies, developed strategic plans, industry-leading novel products, and market development aimed at existing as well as new markets in Environmental, Pharmaceutical, Petrochemical, and Chemical industries.

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/or implementation of an innovative product, process, and/or service in the analytical technology field.

Dale Harrison, Ph.D.
VUV Analytics, Cedar Park, TX USA
For his contributions in the development of vacuum ultraviolet absorption spectroscopy instruments.

Division Excellence
Recognizes an ISA Division for development and/or execution of programs and/or services to advance the mission of the Society.
The division will be revealed at the Gala. The top three nominees are:

ISA Analysis Division
ISA Food & Pharmaceutical Industries
ISA Process Measurement & Control Division

Jerry Clemons
Honors and Awards Chair

Gilmer, Thomasson, Fowler, Konrad (GTFK) Award for AD 2017:

Each year at close of the AD Symposium, the award is made for the top three papers from the Symposium. The GTFK award is named after four distinguished and significant contributors to the technical content of the Analysis Division. We must never lose site of the fact that without the papers there would be no symposium. For that purpose I would like to give thanks to all of the authors and especially those who presented for their first time. I would also like to thank the peer review committee of six very experienced analyzer professionals; Dr. Jerry Clemons (ISA Fellow, Past Director), Roy Muston (Past Director), Dr. Jerry Combs, Dr. Paul Cammarata, Michael Singletary, Dan Podkulski, Manny Alvarez and Rod Spitler (Coordinator).

The written papers are first graded in advance of the symposium by the review committee for; technical merit, originality, completeness, applicability, clarity and illustrations accounting for 70% of the overall score. During the symposium the audience is asked to participate in the scoring based on; presentation, technical merit and impact accounting for remaining 30% of the overall score. This year the scoring was particularly close and the audience score closely matched that of the committee. After the final tally only 5 points separated the top 12 papers and only 0.71 points separated of the top three winners which were:

First Place
Near Infrared Analysis of Hydrocarbon Composition and Properties in Natural Gas Applications
Phil Harris
Insight Analytical Solutions
Second Place
A Novel Design for a Non-Ideal Axially Mounted Tunable Diode Laser Application on a Catalytic Regeneration Process
James Osprey, Stuart Simmonds, Stephen Whitney
Novatech Analytical Solutions and Shell Canada Ltd

Third Place
Making Chromatography More Robust
Brian Rohrback and Scott Ramos
Infometrix

Innovative Product of the Year Award
ABB LGR-ICOS 950 Series Analyzer

In closing I will add as I do every year; the AD community can consider the call for papers now open. It is not too early to consider a position for AD-2018.

Paul Cammarata
Publications Chair, ISA Analytical Division Director Elect (2017-2018)

Message from the Symposium Chair:
ISA's Analysis Division Symposium draws more than 300 attendees to explore the latest technical findings, share best practices and gain training.
At the 2017 AD in Pasadena, CA more than 300 process and analytical professionals, industry experts, and over 70 vendors participated in the technology Forum and Exhibition to explore and discuss the latest advances in analytical processes, techniques and applications at the ISA Analysis Division Symposium.

I want to thank the many hours our team of volunteers put into this long-running symposium, now in its 62nd year. We have heard so many positive comments regarding the symposium and the benefits we truly believe that this is a one of a kind event that promises education/industry understanding, new and innovative ideas, and networking/socializing amongst analyzer professionals with all types of backgrounds.

I look forward to seeing everyone, once again in Galveston, Texas for our 63rd annual ISA AD Symposium April 22-26, 2018.
Stay tuned for more information.

Cindy Cauthen
Symposium (General) Chair

Special Note on Hurricane Harvey:
Hurricane Harvey, a category 3 storm ravaged the greater Houston area and other cities along the U.S. gulf coast. According to some reports, the storm was responsible for a 500-year flood, which produced very high water levels rising very rapidly in many areas. The storm itself was the direct cause of more than 60 fatalities, many more injuries, and untold human suffering. Reports have categorized this storm and its outcome as the costliest one in U.S. history, with damage and rebuilding estimates greater than 100 billion dollars.

The storm also extensively battered the chemical, oil, and gas industry. The approaching storm, and the storm itself, caused industry all along the gulf coast to come to a grinding halt, forced shutdowns, and a stoppage of production. Chemical plants are designed to withstand all kinds of scenarios, including hurricane-force winds and floods; however, the severity of Harvey (characterized by some as a 500-year event) has thrust the industry into uncharted territory.

The Houston Analysis Subsection has elected to contribute funds to the recovery efforts from Harvey’s destruction. Checks in the amount of $ 30,000.00 have been distributed to organizations in the local area to assist with Harvey Flood Relief. Consideration was given to the funds being used in the local area, no administrative fees, and assistance on a personal basis. National organizations were considered and found unacceptable due to the preceding reasons.

Checks in the amount of $ 10,000.00 each have been provided to Life Bridge Church, Southeast Church of Christ, and Bethel Church of Houston. We have been assured these funds will directly benefit victims of the Harvey devastation. Our thanks to the volunteers, sponsoring vendors, and all who participate in the activities of the Houston Analysis Subsection.

Dale Merriman
Message from the Program Chair:

As the 2018 AD Program Chair I welcome you to attend or present at the 2018 Spring AD symposium. We plan to offer a full three-day slate of papers and two days of training scheduled. Our technical program and our vendor showcase will allow you to present to or learn from a global audience. The technical papers presented are all peer reviewed by a Paper Review Committee and will cover many topics of interest to the process analytical community. These papers are from the newest technology coming into the market, innovative approaches to solve issues, lessons learned from a new application to name a few topics. We offer technical papers from end users, EPC’s, integrators and manufacturers. Training on Sunday will be fundamentals or an advanced topic. Thursday training is on several analyzer vendor equipment types and is an outstanding value for a variety of half to full day training classes.

For the best information come look at the web site www.adsymposium.org for the details. We expect to have 70+ companies registered for the showcase and will have the equipment and technical support for answers on your toughest analytical needs. If you are not an ISA member we welcome you to come to see what we offer and be open to contribute to the process analytics industry. We always welcome you to join and help us in our contributions to the process analytics industry.

Mike Chaney
Program Chair

Symposium Call for Papers:

The 63rd Analysis Division Symposium will be 22-26 April 2018 at the Galveston Island Convention Center. Galveston, Texas, USA.

This symposium is recognized as the outstanding forum for discussions of new and innovative analytical techniques, developments, and applications for process and laboratory. Speakers and attendees to the symposium are world-wide and share the opportunity to speak to an international audience, participate in informal discussions and social gatherings, and acquire the latest information about analytical sciences.

Papers are accepted which address topics in chemical analysis including methods, applications, hardware and software, systems and operation, and maintenance. Subject content may concern technology in development or technology applied in industry practice.

General subject areas of interest

- Chemical Analyzers
- Systems Integration
- Physical Properties
- Maintenance
- Spectroscopy
- Chromatography
- Gas Detectors
- Sampling Systems
- Emerging Technologies
- Validation / Calibration
- Environmental
- Site Acceptance Testing / Cutover

Submission guidelines

All papers are reviewed by the Analysis Division Paper Review Committee and must conform, or be modified to conform, to Analysis Division and ISA format and content guidelines. Papers must address the technology and may not be commercial in nature.

All papers must be submitted in electronic format (Microsoft Word) suitable for publication in the proceedings by the deadlines indicated below. All overhead slides or presentation materials used at the symposium must be provided in electronic format (Microsoft PowerPoint) prior to the symposium for review and approval. A publication release form is required by ISA for all papers.

To submit

An “Intent to Present” is due immediately to Mike Chaney, the Technical Program Chairman, at mikechaney251@gmail.com, with abstracts submitted by 08 December 2017 to both Mike Chaney and the Paper Review Committee Chairman, Paul Cammarata at PCammarata@dow.com.

Draft Paper to Review Chairman: 19 January 2018

Reviewers’ Comments to Authors: 23 February 2018

Final Paper for Publication: 9 March 2018

Papers Sent to Publisher: 23 March 2018

Oral Presentation Electronic Materials: 13 April 2018

Symposium Presentation: 23-25 April 2018

Mike Chaney / Paul Cammarata
AD-2018 Galveston, TX Headline News:

Cindy Cauthen is our returning Symposium Chair and is in the process of forming her team.

Details of the 63rd annual AD Symposium will be posted on the web site shortly with the following information as it becomes available;

Call for Papers:
See the web site for details (www.adsymposium.org). Abstracts will be accepted in the order they are received and a waiting list will form when the program is filled.

Hotel(s)
The conference hotel is the Hilton Galveston Island Resort, right next door to the convention center. Book early if you expect to have space here.
As with other conferences we will have overflow space at adjacent properties

Technical Program
Mike Chaney and Paul Cammarata will have the preliminary program on the web site in February. There will be the usual three full days of peer reviewed papers.

Educational Programs:
The Fundamentals courses will be held on Sunday as well as the Advanced course(s). The schedule will be posted to the web site in the spring.
The Hands-On courses will be held on the Thursday, details will be posted to the web site in the spring.

Vendor Technical Forum:
Shana Kiser is our Vendor Chair. We expect 80+ vendors, registration information will be available on the web site in January.

Banquet and Keynote Speaker:
The banquet will be held on Tuesday night. The Banquet sold out early last year, be sure to sign up for your tickets when you register.

Spouses Program
There will be a full spouses program; details will be available on the website
Our Supporting Sponsors

The AD invites vendors who participate in the technical forum at the AD to support the newsletter. We know there is keen competition for their promotion budget. They have chosen to contribute to the Newsletter and underwrite the special projects we fund with the proceeds. In addition, each year at AD a standing committee makes an award for the “Innovative Product of the Year” and this years recipient is ABB’s LGR-ICOS™ 950 Series Analyzer. They carry title to the award for one full year and receive a full page space in the Newsletter which you see following.

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Contact Rod Merz or Randy Hauer for details
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