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Editor’s Message:
Hello there and welcome to the spring edition of the ISA AD newsletter from your friendly editor.

As it always seems to do, once again the Symposium has crept up on us all and is just around the corner. This is of course a fantastic annual surprise but it does mean that everyone needs to get ready, make time in their busy schedules and get booked for the event of our calendar year. This year we have once again spread our wings and departed from our home field in Galveston and will encamp ourselves on the west coast in southern California. Back in 2012 we had an excellent symposium in Anaheim, California so we thought we should head back to the area and we find ourselves this year in the beautiful location of Pasadena, California.

Most of the preparations are well in hand for another fabulous action packed week, from what is now the well-oiled machine of the AD committee (led this year by our incoming director Dr. Paul Barnard). In addition to the usual program format for which all the details are contained within this newsletter, there are a number of events to draw attention to here.

The first is for a special workshop session on the Thursday, “The Process Enterprise in 2020 and Beyond”. Led by a veritable analyzer industry who’s who of experts, this mini symposium explores the implications of Industry 4.0 for online stream analysis, led by keynote speaker, Mel Koch of Washington University. As noted in the announcement for the workshop (to be found on the website),

“The reality of Industry 4.0 means that the process analytical paradigm will be removed from its current silo and integrated into the broader cyber-physical production context. As yet, what that means is quite uncertain. However, what does seem certain is that process monitoring enterprise will change.”

The subjects for discussion will include: an holistic approach to process analyzer selection, procurement, and deployment, analyzer systems of the future, the role of digitalization...
in analyzer system design, implementation, training, and maintenance and control:ics: fusion of technologies for control/optimization and process analysis.

Please take the time to review the details and sign up for this very exciting workshop. It's a rare opportunity to listen and interact with a number of leading analyzer experts in the industry.

Secondly, we have a fantastic speaker for the banquet on Tuesday evening. This year we have procured the service of Kevin Debruin from the NASA Jet Propulsion Laboratory. Kevin works as a systems engineer at JPL in Pasadena, CA, working in Project Formulation. His focus is in the Advanced Design Engineering group working on advanced mission concept studies. In his free time he engages in public outreach programs to students and children and gives guided tours of NASA-JPL. This will be a highly entertaining and illuminating speaker for our banquet – and certainly not to be missed!

Finally, following on from the success of last year’s foray into international AD symposiums with a two day event in the UAE, we are happy to report on not only the return if this event in the UAE for 2017 but also a new AD event to be held in Singapore this year. More details on both these symposiums within the pages to follow.

So, if you have not signed up yet please peruse all the details for the symposium contained herein or visit the new AD website – then grab your shorts, book your flights and see you in Pasadena. And without further ado please dive into the Spring edition of our newsletter.

Stuart Simmonds
ISA Analysis Division Newsletter Editor

Message from the Director:

Have you ever looked at today’s date, and said silently to yourself, wow – is that really the date already? I have, and folks - it is spring of 2017.

I look forward to continuing the success of my predecessors in the role of Director of the ISA Analysis Division. And what success that has been. I want to thank Tracy Dye for his outstanding leadership over the 2015-16 term for Director. Our last symposium in Galveston, TX drew a record number of registrations and a record number of exhibitors to the Technology Hall.

Since we transitioned from a small hotel based event to a larger convention center style format in 2011, this symposium has grown to the point where we are limited to fewer sites by the sheer size we now require. Tracy gave a keynote speech at the inaugural AD Symposium in 2016 in the UAE, and there are events now planned for Singapore in 2017. The Analytical Division was also honored with the ISA Outstanding Division of the Year for 2015, a testament to the quality and dedication that the Symposium Organizing Committee presents to our community each spring. I feel truly humbled by this flexible group of stalwarts, please reach out to them and give them your personal thanks for the effort they give each year.

I want to acknowledge those who have volunteered for many years, and you know who you are. I also want to recognize that we have some volunteers who contribute when they can. Maybe a turnaround this year, or a new plant starting up, some other business reason that prevents their participation – they too are part of the evolving group of dedicated professionals that allow this symposium to occur.

This year, 2017, we are headed to California for the first time since 2012. The mission of the ISA is to take its voice to the corners of the world, and at the AD we try to embrace that by locating the symposia in different regions. I have attended the AD symposia since the event in Charleston, West Virginia, and have been to those in Anaheim, Calgary, Baton Rouge, Houston, Galveston and New Orleans. We have Edmonton and Florida on the horizon. All it takes is a team of local volunteers to fill in the blanks, and off we go. So, I encourage you to raise your hand, and ask “What can I do?”

And see you in Pasadena.

Paul Barnard, Ph.D.
Director ISA Analysis Division (2017-2018)

Message from the Symposium Chair:

We’re on the home stretch, everyone! Very excited for this year’s ISA AD Symposium as we welcome our Analyzer Community to sunny Southern California and our beautiful location of Pasadena. Having visited the symposium location and surrounding area over the past several months, the organizing committee is confident that we have put together another home run event! The convention center is an amazing location with a modern look and feel, yet nestled in a quaint, small town environment at the foot of the San Gabriel Mountains that meet the northern edge of Los Angeles. Our central location makes for a convenient week with the symposium, hotels, restaurants and shopping all within walking distance.

The Technical Program is all set and is packed with a full 3 day program. As customary, we will bookend the symposium with training programs on both Sunday and Thursday. There are several options to choose from regarding training that will cover a variety of topics and analyzer technologies. The symposium will also conclude with a separate day long discussion on the topic of Analyzers and Automation Control.

As a native Californian, I’m excited for all of you to come enjoy the weather, the friendly people and spend an awesome week with our community. We very much look forward to seeing you April 23rd through April 27th!

Ryan Mead
Symposium (General) Chair

Message from the Technical Chair:

The 62nd Annual Symposium of the Analysis Division Technical Program provides a complete array of Process Analyzer events.

Beginning on Sunday, three training courses are offered in parallel sessions: “Fundamentals of Process Analysis”, “Increasing Sample System Reliability” and “Chemometrics for Analyzers”.

Monday through Wednesday, 31 peer reviewed papers are presented in 12 sessions covering topics such as “Chromatography”, “Emerging Technology”, “Applications in Refining”, “Spectroscopy” to name a few.

There is extensive scheduled time for visiting Vendor Exhibits beginning Sunday night and continuing through Wednesday afternoon. We anticipate 80+ manufacturing booths displaying hardware and engaging in one on one discussion regarding your applications and needs.
Thursday’s agenda offers two parallel venues. One session is an awesome AD Workshop, “The Process Enterprise in 2020 and Beyond”. This is a mini symposium exploring the implications of Industry 4.0 for online stream analysis and will be led by industry analyzer experts.

The second venue is composed of 9 Manufacturer Hands-on Training classes which involve instruction on vendor specific hardware and software, operation, troubleshooting and maintenance. This year training is offered by ABB, Ametek, Emerson, PAC, Process Instruments, Servomex, Siemens, ThermoFisher Scientific and Yokogawa.

In addition to these many events, a banquet is offered, with a guest speaker from NASA’s Jet Propulsion Laboratory.

Finally, the annual Analysis Division Business Meeting is held and is open to all attendees.

Don Nettles, Ph.D.
Technical Chair

Message from the Education Chair:

Our 2017 symposium will have several training opportunities that complement the symposium program. On Sunday, April 23rd we will offer three training classes.

The Fundamentals of Process Analytical course contains modules for technology that cover Analyzer Engineering, Spectroscopy, Oxygen Analysis, Chromatography, Sample Systems, and Systems Integration. This class is developed by AD leadership and volunteers that are technical experts in the subject areas. New and repeat attendees are sure to find the course valuable.

Back by popular demand this year is Tony Water’s Sample System Design course, focusing on key attributes of analyzer sample system design and reliability.

A new advanced training class this year is Chemometrics for Analyzers by Brian Rohrback and Michael Roberto. This course examines a series of algorithmic approaches with the goal of streamlining chemometric model construction to make the analyzers significantly more robust when put into routine practice.

Our Thursday training classes are returning this year with 9 vendors offering half and full day training for some of the newest or highest demand equipment that they offer.

For 2017 Vendor Training on Thursday

Siemens – Maxum Edition II
Emerson – 700XA
Servomex – 2700
ThermoFisher – Prima Pro
Yokogawa – TDLS8000 & GC8000
ABB - PGC5000
PAC / Antek - PyroTube Replacement
Process Instruments – On line / Lab Raman

The purpose of the hands-on training is for AD attendees and also to attract end users to the AD symposium who may not otherwise attend and to offer education opportunities for the general process analytical community. These vendors donate their training to ISA AD in support of this mission and the Thursday Hands-On Training sessions have quickly become a highly successful part of the symposium.

Mike Chaney
Education and Training Co-Chair

2017 ISA AD Workshop: The Process Analytical Enterprise in 2020 and Beyond:

A mini-symposium exploring the implications of Industry 4.0 for online stream analysis in the upstream, downstream, refining, and petrochemical industries.

April 27, 2017 ISA Analysis Division Symposium, Pasadena, California

The reality of Industry 4.0 means that the process analytical paradigm will be removed from its current silo and integrated into the broader cyber-physical production context. As yet, what that means is quite uncertain. However, what does seem certain is that process monitoring enterprise will change. The purpose of this mini-symposium is to gain a vision for Process Monitoring 4.0.

More details on this event at the ISA AD Website.
AD-2017 Pasadena, CA Headline News:

Ryan Meads is our Symposium (General) Chair. Further details of the 62nd annual AD Symposium are posted on the web site.

Call for Papers:

See the web site for details (www.adsymposium.org). We have a full complement of papers for this year’s event (+ a small wait list).

Hotel(s)

The conference hotel is the Sheraton Pasadena, situated right next door to the conference centre. Book early if you expect to have space here. As with other conferences we will have overflow space at adjacent properties

Technical Program

Don Nettles will head up the technical program. Further details are available on the web site. There is the usual three full days of peer reviewed papers. Rod Spiter is the chair of the Technical Review committee.

Educational Programs:

The Fundamentals and Advanced courses will be held on Sunday. The schedules are posted to the web site.

The Hands-On courses will be held on the Thursday, details again posted to the web site.

Vendor Technical Forum:

Tim Kuiken is our Vendor Chair. We expect 70+ vendors, registration. More information available on the web site or from Tim directly.

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.
Two Additional International AD Symposiums in 2017

We were very gratified with the technical and commercial success of the first ever international AD Symposium held in Abu Dhabi UAE Oct 16, 2016. As a follow up to this ISA has helped the Analysis Division organize two additional symposia in 2017.

Singapore will be the host location for the first ever AD symposium in the Pac Rim (August) and the second UAE AD symposium will be held in Abu Dhabi (October again). Please note the respective dates for call for papers (June 15 for Singapore, August 15 for UAE). Exact dates and venue will be announced at AD 2017 Pasadena when Mr. Mo Loch of DMS will present details during the Tuesday afternoon presentation session.

Randy Hauer
Marketing Co-Chair

1st ISA Analysis Singapore Symposium

www.isa-analysis-singapore.org

August 2017

Singapore

Call for Technical Papers

The Analysis Division aims to contribute to the professionals involved in every aspect of process stream and laboratory methods of analysis, from theory and development to application, training, calibration, and others.

Our role at the ISA Analysis Division is to facilitate program development, implementation and effectiveness through integrated planning, measurement, evaluation and interventions; and to support your specialty: such as spectroscopy, chromatography, electrochemistry and sample handling.

CONFERENCE TOPICS

• Analytical Techniques
• Best Practices
• Environmental

IMPORTANT DATES

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- Gas Chromatography
- Water Analysis

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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 year’s recipient is VUV Analytics. They carry title to the award for one full year and receive a full page space in the Newsletter which you see following.

We thank all of our supporting sponsors for their generosity and innovation. If your company is interested in a placement please contact the newsletter editor.

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