Hello everyone, I hope you enjoy the Summer Newsletter as it was compiled over the course of several months with a tremendous amount of help from our Director, Randy Hauer. It has been evolving as we move through the years. We have been trying to add more human interest stories, interviews, award notifications as well as technical content and up and coming events. As always we like to hear from you. Send me your stories, your comments, and your suggestions. We review them and the content is approved by the Director before appearing in the newsletter. We welcome your input and acknowledge those that continually contribute.

If you would like to contribute to the newsletter or advertise, please email me at: Annie.Crabtree-Smith@c-a-m.com.

See You Soon!

Annie

Annie B. Crabtree-Smith, Newsletter Editor

Cameron’s Measurement Systems, Process Analytics
Ph: 832-275-5298
League City TX (April 10-14). We had perhaps the largest attendance in our history but it is not just numbers which we measure our Symposia, it is the quality of the technical program, the companionship and the well being of our profession. In those terms we enjoyed a great success.

The team deserves to be mentioned again; Dale Merriman and Cindy Cauthen as Conference Co-chairs knocked themselves out as usual. Shana Kiser did an outstanding job as Vendor & Hospitality Chair organizing 41 vendors in a new format so we could accommodate everyone who applied. Dr Paul Barnard and Mike Chaney provided us, once again with an outstanding slate of peer reviewed papers, coaching and cajoling 30+ authors to give their best. In addition to the regular technical program, Don Nettles our Education Chair accommodated over 50 attendees for the Fundamentals of Process Analytics and Tracy Dye had another 90 people for a full day workshop; NeSSI after 10 Years. Rodney Jones of ISA was at the registration desk from morning to night taking care of every detail, we could not have pulled it off without having Rodney in the counting house. The Analysis Division rides on the reputation of the annual symposium and it is fitting that we recognize the generous contribution of time these people make to our profession. To say Thank You is hardly enough. Visit the website to take a look at the pictures (www.adsymposium.org).

Now that we have the website up and running we have turned our attention to the newsletter. Annie has been working towards arriving at a consistent look and editorial content for the members. We will start by running only two letters per year, this is more than enough to convey the important information and it keeps the newsletter lively. This Summer newsletter will have highlights of the symposium (GTFK winners, innovative product of the year) and the recent Honors & Awards announcements from ISA. It also has an interview with Bob Saltzman as he looks back on his sixty years in the profession. We have added a section for supporting vendors, take a look, it is for a good cause and we are grateful to our selected vendors for doing this. The Winter newsletter will have highlights from Automation Week, the call for papers for the upcoming symposium and the announcement of our member of the year. In addition, we will do some human interest stories.

Don Nettles has been putting in lot of effort to the Technical Interest Groups (TIGs) so we can develop new material for the fundamentals session as well as use the TIGs to give Q&A comment on the web site. To spread this over more than one person and in the interest of broadening the technical perspective Don is setting up co-chairs for each one of the TIGs. Take a look at the web site and consider a role that you may be able to play in a technical interest group, find Don before he has to find you.

Finally, we would like to draw your attention to Automation Week in Mobile Alabama (Oct 17-20). The Analysis Division is organizing a full track of 6 sessions, you will find the details here in the newsletter and we hope to see you there. The ISA has a full program in place and the emphasis is on technical content.

Enjoy your Summer, we wish you and your families a safe and relaxing vacation as you take a short break from the lifelong pursuit of process analytical skills and learning.

Randy Hauer, Director ISA Analysis Division (2011-2012)
E-Mail: randy.hauer@ametek.com

2011 Spring AD Symposium In Review:

Sessions and Displays: It was a very full 5 days from beginning to end. We had a total of 279 individual registrants with 176 people in the general session. On Sunday there were 53 in the Fundamentals course plus another 13 in the Advanced course on pH by Greg McMillan. Thursday was set aside for a very lively workshop on the technology and direction of NeSSI with over 90 people in attendance. The vendor display was fully subscribed, but we managed to accommodate 41 vendors and leave sufficient room for the hospitality area.

Demographics and Venue: We had attendees from USA, Canada and 8 other countries including a contingent of 11 people from Saudi Arabia (SABIC and Aramco), we very much appreciate the support from our international members. This was the first time we used the South Shore Harbor facility as
our venue and we were very pleased. We are already booked to come back there in 2013 after AD 2012 in Anaheim. Having a hotel that fits our needs and gives us the attention means everything to the host chair and committee.

The Banquet: A sell out crowd of 155 people came to enjoy the hospitality and fellowship. Phil Harris provided the keynote dinner speech. Phil regaled us all with his description of “what it means to be an analyzer specialist” and how exactly to tell your friends, neighbors and family what it is you do for a living; which brought much laughter. Many of you asked for a copy of Phil Harris’ dinner speech. Phil has generously posted his slides and text under the “Banquet” tab (in the Symposium 2011 tab) but we do not know if just the words and slides can convey the mirth and sense of swelling pride one experiences when you see it live.

Pictures: Take a look at all of the pictures on the web site at www.ADSymposium.org. There are over 150 pictures (Symposium 2011 tab), if you were at AD 2011 you will find yourself in a Bob Farmer photo (Bob thanks for doing this again, great job).

2011 GTFK Award Winners:

Every year the Analysis Division presents an award for the best 3 papers at the Spring Symposium. The award was originally named the GTF Award (Gilmer, Thomasson and Fowler) after 3 of the original division directors. In 2009, the award was re-named GTFK to recognize Ken Konrad as a division director and for the work Ken did in establishing the paper review committee. Dr. Paul Barnard is the current chair for the AD paper review committee, and Mike Chaney is the Technical Chair. Other members of the paper review committee are: Dr Jerry Clemons, Dr. Jimmy Converse, Roy Muston and Bac Vu. The winner receives a cash award and a plaque is presented to them at the AD luncheon at Automation Week in October. The 2011 award recipients were:

1st Place: Advancing TDL Technology: Applied Spectroscopy in Service of Process Control Objectives, Xiang (Sherry) Liu, Wenhai Ji, Alfred Feitisch, Marc Trygstad & Bill Jenko

2nd Place: Mass Transport in Sample Transport Lines – Adsorption Desorption effects and their influence on process analytical measurements. Phil Harris and Kirk Mankin

3rd Place: Column Switching Simplification In Process Gas Chromatography, Ulrich Gokeler

2011 Innovative New Product of The Year Award:

This component was added to the AD in 2009. Each and every one of the 41 vendors were interviewed by a judging panel and asked to demonstrate what they considered to be their most innovative new product introduction in the last year. The award went to Cameron, Measurement Systems Division, Process Analytics for their Intelligas Pygas Sampler. The award includes rights to display the ISA logo in advertising and an insertion in the AD Newsletter, you can see details on page 10.
2011 Honors & Awards:

Each year the AD takes care to see that deserving members are nominated for the Honors & Awards program. ISA provides a widely respected forum for recognizing personal achievement, service, and technical accomplishment to hundreds of dedicated professionals. This year we are proud to announce that two of our own were honored for the following; these individuals are most deserving of recognition. In addition, the Analytical Division was awarded the honor of “Outstanding Division”.

- Jimmy Converse was the recipient of the Luft Award which recognizes outstanding contributions in the analytical technology field. The award is named after the recognized inventor of the first process analyzer, Dr. Karl F. Luft. When you see the list of accomplishments submitted to the committee for consideration you get a sense of how much Jimmy has contributed to our profession. The Analysis Division is very pleased to see Jimmy recognized for his body of work and he has our collective gratitude.

- Bac Vu was made an ISA Fellow, this is ISA’s most distinguished membership grade, conveyed to qualified members to recognize exceptional engineering or scientific attainments in the field of automation. Bac was acknowledged for his years of yeoman service on the Standards & Practices SP76 committee as well as for his publications and technical accomplishments.

- The Analytical Division was awarded the honor of “Outstanding Division”. This is awarded each year to one of the Automation and Technology Divisions for outstanding activities and communications with it’s members (Symposium, Newsletter and Web chairs...take a bow !)

Automation Week:

ISA Automation Week 2011 / Analyzers Track Sessions

This is the program outline for the six sessions that compose the Analysis Track at Automation Week in Mobile, Alabama. Jim Tatera is the Track Chair, he has a full program put together on a diverse list of process analytical subjects.

Tuesday, October 18, 2011:
1:30 - 3:00pm - GTFK Award Papers Session - The 3 Award Winning Papers from this spring's AD2011 Symposium (Session Moderator; Don Nettles)
3:30 - 5:00pm - Tutorial - Analyzer Technician Opportunities Project (ATOP) - Curriculum & Internships, John Purdin, Lee College (Session Moderator; Milton McDaniel)

Wednesday October 19, 2011:
1:30 - 3:00pm - Advances in Spectroscopy Session - 3 papers (Session Moderator; Yoav Barshad)
3:30 - 5:00pm - Tutorial - Gas Chromatography Khushbu Parmar (Session Moderator; Dave Novak)

Thursday October 20, 2011:
1:30 - 3:00pm - Environmental and Process Monitoring Issues and Answers - 3 papers (Session Moderator, Randy Hauer)
3:30 - 5:00pm - Tutorial - pH Measurement and Control Opportunities, Greg McMillan (Session Moderator; Jim Tatera)

AD 2012 Anaheim:

Calling all Vendors !! Vendor Training Opportunity at the 57th Analysis Division Symposium Anaheim April 22-26, 2012

We will be adding a new education component to the Symposium this coming year. In addition to the Fundamentals and Advanced courses normally offered the AD will feature a series of hands on training courses aimed at the technician level conducted by the vendor member companies. The classes will be run on the Thursday / Friday (April 26 / 27) so as to not to conflict with the other training courses or technical sessions.

We need to hear from interested vendors at your earliest convenience so we can commence with the preparations and as such will impose an initial deadline of Sept 30. Please contact our vendor training chair, Paul Otteman (potteman@summitfluidtech.com) to reserve a place. Allocations will be done on a first come first served basis and if we are fully subscribed we will
impose a limit of one class per company. We envision the classes to be 4, 8 or possibly 16 hours in duration, analyzer type is left to the discretion of the vendor company. These classes can provide in depth training for end users and give the vendors an opportunity to gather valuable information from a composite cross section of users.

**Local Announcements:**

The Local Houston Analysis Subsection has announced the annual Shrimp Boil is set for Friday September 9th. It will be held at the Pavilion at Clear Lake Park 5001 NASA Road One (FM 528), get your tickets early. This is the antitheses of the AD Symposium, let your hair down, eat some shrimp have a cold drink and talk shop. For Vendor Sponsorship opportunities please contact Dale Merriman, dcmerriman@mertechinc.com.

If you have an announcement for your Chapter, please let us know. We would like to include it in our Newsletter. Send your information to: Annie.Crabtree-Smith@c-a-m.com

**A Talk With Bob Salzman:**

We conducted an interview with Mr. Salzman and asked him a few questions about his career and the industry from his point of view. Here is a brief background on Mr. Salzman, some of his accomplishments in our Industry and some really good advice from someone who has been in this field for over 60 years.

Robert “Bob” Saltzman is an ISA Fellow, elected in 1974, and he has been an active ISA member for 60 years. In 2010, Bob Saltzman was awarded the ISA Analysis Division Luft Award. The award recognizes outstanding contributions in the analytical technology field. He received recognition for exceptional work in the development of UV photometric analysis systems for sulfur recovery and other processes and in the education regarding the use of these systems. His work experience in the industry includes: Hercules Inc. as a physicist (1950–1955); DuPont (1955–1990), starting as an application engineer and after a series of promotions as a research fellow in the Instrument Products Division; Ametek Process Instruments Division (1990–1994) as a research fellow; and as an independent consultant (1994–2010).

**On expectations of the industry:** "I thought that the process liquid chromatography would have been as prevalent now as the gas analysis and it has not." "In my opinion, liquid chromatography primarily has remained in the labs and not been given a chance in the field due to not having Champions to maintain and see the testing through". "Another hindrance to the use of the liquid chromatography in the field was the requirement of the use of solvents for the analysis, which was more than the traditional gas chromatography."

**On improving the quality of our business and industry:** "In my opinion, analyzers have to become more and more reliable, and over the years I think that they have." "Another improvement would be to be able to monitor these analyzers in remote areas where signals are not available."

**On what has changed and stayed the same in our industry:** "When I started out, analyzers were not that accepted and today they are more accepted. It was always an ongoing battle to keep them maintained and have the technicians that could do the work." "When we could finally do closed loop analysis and cascade control in the industry, this was the biggest change along with the computerization of analytical equipment." "What has stayed the same in our industry is the fact that a reputation of being reliable is the biggest selling point for any company."

**On Advice to a newcomer in our industry:** "The process analyzer systems business is a wonderful way to have a great career. It is very satisfying with time and dedication to it. It will always be evolving, especially in pharmaceuticals." "If you
have an interest or background in Electronics, Mathematics, Physics, Engineering or Chemistry you will do well in this industry”. "This field is very diverse and has room for growth." "One major recommendation I would suggest is that you take a class in Humanities, as communication is very important in this field." ...."talk to the operators, they have incredible insight into the process and their insight is invaluable”.

On Education: “There are some very talented technicians in the field, however most advancement usually depends on whether or not you have a degree and not what you know." "I would recommend taking classes in Chemistry, Physics, Mathematics, Electronics and of course Psychology."...."and don't ignore the Humanities, even when you know everything there is to know....you have to communicate”

On how Du Pont got into analyzers:......"In the early 50s Dupont was made to divest their equity in General Motors, they took this money and invested it into relatively new areas of technology; medical and process analytical technology amongst others....and the rest as they say is history".

Here are a couple of papers that Bob Salzaman has authored and presented over the years. You can find them on the website at: www.ADSymposium.org.

“A Photometric Analyzer System For Monitoring And Control Of The [H2S]/[S02] Ratio In Sulfur Recovery Plants” – 1972, ISA AID 72413 (55-60). By Robert S. Saltzman-ISA Senior Member, Senior Application Engineer, E.I. du Pont de Nemours & Co. (Inc.) Instrument Products Division Wilmington, Delaware 19898 and Dr. Elton B. Hunt, Jr., Research Associate, Amoco Production Co, Amoco Production Research Center Tulsa, Oklahoma 74100

The other paper is called “Simplifying Sampling Problems With A Versatile Photometric Analyzer”, by R.S. Saltzman, R.G. Jackson, E.S. Taylor, Engineering Service Division, E.I. du Pont de Nemours & Company, Newark, Delaware.

Our Supporting Sponsors

You may wonder why we have solicited supporting sponsors for the Newsletter. The Analysis Division contributes to Automation Week each October in the form of organizing a full technical track and this is a considerable amount of work. The best way for us to recruit a Track Chair is to call on one of our retired members and it is only fair we cover their basic travel expenses. Also, our Luft Award winner is usually a retired member and we like to offer travel assistance to them as well so they can bring a spouse or family to the H&A banquet or the Symposium and witness a celebration of their life achievement. It doesn't stop there; the AD invited two of the “ATOP” professors from Lee and San Jacinto College to present a tutorial at Automation week and that requires travel funding. ATOP provides technicians training specifically for our industry, the AD is committed to publicizing the program and supporting the students.

With this in mind we went to our vendors and asked if they would consider a modest amount to support these initiatives and we received a full slate for this Newsletter. We would like to thank each and every one of our supporting vendors for doing this. We know how much competition there is for their marketing communications budget and they have chosen to support our most deserving members and students to travel to Automation Week. Sponsorships will be made available to any vendor who have displayed at the Symposium, the Newsletter is distributed to approximately 4000 people (all members + past Symposia attendees) and is posted on our web site. Please contact our editor (Annie.Crabtree-Smith@c-a-m.com) if your company is interested in being listed in the Winter Newsletter.

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