

What's Watt



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Spring 2007

Director's Message

By Dan Lee



Dan Lee

Hello to all Power Industry Division (POWID) Members from your new ISA Power Industry Division Director. Your POWID Executive Committee (EXCOM) met at ISA Headquarters in Research Triangle Park, NC on 19 February to plan our Division agenda for 2007 and to prepare for our 17th Annual ISA POWID/EPRI Controls and Instrumentation Conference (50th POWID Symposium). While the EXCOM meeting minutes will be issued separately, I would like to summarize some of the plans and goals for our Division in this newsletter.

First, I would like to acknowledge the excellent work and countless contributions of Gary Cohee for his role as POWID Director for 2005 and 2006. Gary was very instrumental in your Division activities for the last two years and his leadership was recognized by ISA awarding POWID the "Outstanding Division" award for both years. Also, I would like to thank the efforts of our Executive Committee Members who volunteer their time and effort in support of the many activities and services that benefit our Division Members. In recognition of these individuals, and as information to our Division Members, this newsletter starts a series of articles to introduce you to an Executive Committee member and his/her committee duties. In this newsletter, you will hear from Don Christopher (Historian) who will inform us of our Symposium history and historian duties, and we will also have information from Gordon McFarland and the Standards and Practices Awards Recognition from the October Honors & Awards Banquet.

Our 17th Annual Joint ISA POWID/EPRI Controls and Instrumentation Conference (50th Anniversary ISA POWID Symposium) will be held on 10-15 June 2007, at the Sheraton Station Square Hotel, Pittsburgh, PA. Mike Skoncey (General

Chair), Allan Zadiraka (ISA Co-Program. Chair) and Aaron Hussey (EPRI Co-Program. Chair) have put together a very exciting program, for our upcoming conference. Besides the technical paper session, Mike's plans include a special 50th dinner party with a live band, a full spouses program, keynote speaker, training classes, standards meetings, and vendor exhibits. The theme for this conference is "A Golden Celebration of Innovations and Technologies Visiting the Past, Examining the Present, and Looking to the Future." This conference is an opportunity to hear many excellent papers, and an opportunity to network with your peers both old and new. Please review the program. information in this newsletter for our upcoming 17th Annual Joint ISA POWID/EPRI Controls and Instrumentation Conference in Pittsburgh, PA. Registration for this conference and all conference details can be found on our Conference website at www.isa.org/powersymp.

The 2007 events schedule for the POWID Division is shown below. If you are interested in presenting a technical paper for the ISA EXPO please contact Gordon McFarland (POWID Fall Coordinator - gordon.mcfarland@emersonprocess.com).

10-15 June	17th Annual Joint ISA POWID/EPRI Controls and Instrumentation Conference (Pittsburgh)
23-27 June	ISA Summer Leaders Meeting (Phoenix)
2-4 October	ISA EXPO (Houston)

To facilitate electronic communication with POWID Members, I will be using the ISA Lyris service to broadcast an occasional email and our electronic newsletter. The Lyris service has been set up so that Members cannot "reply to all." Thus, you will not be flooded with excessive e-mail. As I only expect to broadcast quarterly or for specific announcements, I ask that you do not unsubscribe from this e-mail. However, the Lyris database is not linked to ISA membership database thus, Members must subscribe to the POWID Lyris database. If you received my first director message on 16 February then, you are subscribed in the POWID Lyris database. If you are a new POWID Member or

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Director's Message, continued from page 1

if you are uncertain whether you are in the POWID Lyris database please subscribe per the following steps:

- 1) Connect to www.ISA.Org/Lyris
- 2) Select "ISA Technical Division"
- 3) Select "powid"
- 4) Select "Join POWID" and register

POWID annually awards the Robert N. Hubby scholarship (\$4,000.00) to a student currently enrolled in an undergraduate program in a Power Industry related field. If you know a student candidate, please have the student submit the Robert N. Hubby scholarship application to one of the Executive committee members. All of POWID award applications can be found on our POWID web page at www.isa.org/~powid.

For 2007, POWID has started a few new initiatives. First our bi-annual update of the Power Industry Manual of Operating Practices (MOP) is just about completed. The proposed MOP updates will be submitted for EXCOM vote soon. At our February meeting, EXCOM Members started discussing a marketing strategy for POWID with ISA staff. Also, I have requested a formation of an EXCOM task group to review and update our website. And last, the POWID Division is, in collaboration with ISA Global Operation Manager, exploring how our Division can better serve and support our international Members. You will hear more about these initiatives in future newsletters.

Last, it is my privilege to report that POWID EXCOM has voted a new member to the Executive Committee. Timothy J. McCreary (HF Controls Corp) has an extensive power industry background, has presented numerous technical papers, and has supported POWID activities in the past. Speaking for the other EXCOM Members, we look forward to Tim's involvement with POWID in the future.

In conclusion, I look forward to serving as your Division Director for the next two years. If you have any questions or suggestions, please send an e-mail message at dan.lee@us.abb.com.

Best Regards,

Daniel Lee
2007-2008 ISA Power Industry Division Director

Future ISA/POWID International Conferences:

Joint POWID/EPRI Conferences:

- Pittsburgh, PA 10-15 June 2007 (Sheraton Station Square Hotel)
- Phoenix, AZ 8-13 June 2008 (Scottsdale Hilton Hotel)

ISA EXPO

- Houston, TX 2-4 October 2007

17th ISA POWID/EPRI Controls and Instrumentation Conference

50th POWID Symposium

Sheraton Station Square, Pittsburgh, PA
10-15 June 2007

Theme: A Golden Celebration of Innovations and Technologies

Visiting the Past, Examining the Present, and Looking to the Future



Pittsburgh is electrified in anticipation of having POWID celebrate its 50th Symposium in Pittsburgh, Pennsylvania. What better place to celebrate this event than the birthplace of this fine organization. The conference committee is proud to present a stimulating conference with over fifty-four papers to be presented, twelve training courses to advance your knowledge in the industry, and a gathering of exhibitors waiting to show off their new technologies and services to the attendees. In addition, the conference will provide attendees and spouses with an unprecedented evening of fun, food and entertainment at the Anniversary Dinner. When you leave the "Burgh" you will be glad you had attended this gala event.

The paper session areas are as follows: Power Plant Simulation & Modeling, Power Plant Instrumentation, Advanced Control Techniques, Plant Asset Management, Advanced Plant Technologies, Nuclear Plant Issues and Technologies, Power Plant Performance Improvement with Advanced Monitoring Systems, Instrumentation Networking, Installation & Commissioning, and I&C System Security.

The training courses to be conducted are as follows: Introduction to Boiler Control Systems, Ethernet and TCP/IP on the Plant Floor, Implementing Enterprise/Control Integration, Instrumentation Best Practices, Control Valve & Regulator Sizing and Selection, Power Plant Data Quality Assessment, Boiler Burner Management Systems-Meeting NFPA Standards, OPC-The Windows to the World are Open, Advances in Continuous Emission Monitoring (CEMS) Techniques, Control Valve for Severe Service Applications, and Changing Work Practice to Enable Smart Technology.



In addition, we would like to extend an invitation to you to attend the Executive Committee meeting Sunday afternoon and the Standards and Practice meetings on Thursday. We look forward to seeing you and hope you will be able to attend and benefit from this monumental occasion. And don't forget your spouses. We've planned one heck of a spouse's tour package that will acquaint them with some of the best that Pittsburgh has to offer.

Michael Skoncey, 2007 POWID General Chair

**17th ISA POWID/EPRI
CONTROLS & INSTRUMENTATION CONFERENCE
50th ANNUAL
ISA POWID SYMPOSIUM**

**10-15 JUNE 2007, SHERATON STATION SQUARE,
PITTSBURGH, PENNSYLVANIA**

**A Golden Celebration of Innovations
and Technologies**

Visiting the Past, Examining the Present,
and Looking to the Future



Technical Program

Monday, 11 June

8:45 a.m.–9:30 a.m.

Keynote Speaker/Other Welcome Speakers
(Grand Stations I and II Ballrooms)

Morning Sessions: 10:00 a.m.–Noon

Power Plant Simulation and Modeling

(Grand Station II Ballroom)

Session Developer—Alex Lekich

Dynamic Modeling of Flue Gas Desulphurization, *Jitesh Zanwar and Ankush Sood*

Real Time Estimation of Heat Pickup in Super-Heaters, *Erik Ydstie, Richard Kephart and Xu Cheng*

Control System Design Using Dynamic Simulation, *Greg M. Kosowski, Dale Evely and Kent M. Kozak*

Effective Use of Simulators to Provide Flexible and Maintainable Training and Engineering Tools, *Erin Flannery*

Power Plant Instrumentation

(Grand Station I Ballroom)

Session Developer—Jimmy Thorton

Plugged Chute Detection for Coal Fired Power Plants, *William P. Sholette*

Level Measurement on Boiler/Steam Applications, *Ravi Jethra and Rob Vermeulen*

ASME Code Considerations Associated with Steam Drum Level Measurement, *Dale Evely and Al Moody*

Implementation for a Flow Measurement Solution for Stable Operation of Parallel Pumps in Norte Fluminense Power Plant, *Edson da Costa Bortoni*

Gibson Method for Flow Measurement in Hydro Power Plants, *Edson da Costa Bortoni*

Noon–2:00 p.m.

Awards Luncheon

Luncheon Guest Speaker

Recognition of POWID Leadership—People, Facilities and Authors
(Reflections and Waterfront Rooms)

Afternoon Sessions: 2:15 p.m.–5:00 p.m.

Advanced Control Techniques

(Grand Station II Ballroom)

Session Developer—Nancy Polosky

One Button Start with Advanced NOx Control for CCGT, *Jason E. Ford*

A New Direct Energy Balance Control Concept for PC-Fired Boiler-Turbine Unit Bases on Radiant Energy Signal, *Huai Chun Zhou*

Model Predictive Main Control for a Once-Thru CFB Unit, *Jari Leppakoski and Kalle Anttonen*

Applications of Model Predictive Control (MPC) to Steam/Water System in a Gas Fired Boiler Simulator, *Abhinaya Joshi, Xinsheng Lou, and Carl Neushaefer*

Model Based Fault Diagnosis Approach for a Steam Turbine of a Combined Cycle Power Plant, *Sanchez Parra Marino, Flores Angel and Verde Cristina*

Advanced Drum Level Control on a Combined Cycle Heat Recovery Steam Generator, *Joe Baas, Pascale Bendotti, John Sorge, and Cyrus Taft*

Plant Asset Management

(Grand Stations I Ballroom)

Session Developer—Susan Maley

Estimating the Value of Changes to the Operating Characteristics of Power Generating Units, *Tom Snowdon*

Upgrading to Human-Machine Interface Systems for Modern-Day High-Speed and Effectiveness for Aging Steam and Gas Turbine Controls, *Philippe Lanniel and Tom E. Laird*

Old Fashion Control Systems Engineering Plus: A Must in the Times of Auto Design, Central Databases, Fieldbuses and All That Jazz, *Jan Jekielek*

Distributed Control System Management, *Aaron L. Castor*

Improving Overall Equipment Effectiveness and Increasing ROA with Asset Monitors, *Marc Antoine*

You Can't Teach Me Nothing: Preparing Energy Professionals for Tomorrow, *Matt Sadinsky*

5:00 p.m.–7:00 p.m.

Vendor Exhibits (Admiral Room and Grand Stations III, IV and V Ballrooms)

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Tuesday, 12 June

Morning Sessions: 8:00 a.m.–11:00 a.m.

Advanced Plant Technologies

(Grand Station II Ballroom)

Session Developer—John Sorge

A New Holistic Approach to Generator Diagnostics and Monitoring, *Thomas E. Laird and Michael Drpic*

On-Line Control of Burner Air/Fuel Ratios for NO_x Control, *David J. Earley*

Control of Pulverized Coal Oxy-Combustion, *Allan Zadiraka and Denny McDonald*

Facilities for the Validation of Line-of-Sight Combustion Gas Monitors for Coal-Fire Boilers, *Ronald K. Hanson, Jeremiah Haswell, Richard Himes, Jay B. Jeffries, Jessica Muncy, Ernie Padgett, and John Sorge*

Bumpless Transfer with and without Controller Uncertainty: Resolution of Key Implementation Issues, *J. Bentsman, K. Zheng, and C. W. Taft*

Soot Blow and NO_x Optimization Enhance Once-Thru Unit Performance, *Don Labbe, Don Andrasik and Andy Speziale*

Nuclear Plant Issues and Technologies

(Reflections Room)

Session Developer—Aaron Hussey

Monitoring Sensor Drift Using Digital Systems, *Lionel D. Bates*

Processing of Redundant Measurements, *Sergey Anikanov*

Successful Replacement of I&C within 13 Months, *Edmund Berger and Roman Krempf*

Nuclear Digital Control Upgrades Lessons Learned, *Richard G. Ewing*

Neutron Detector Life Extension Through Predictive Maintenance, *H. M. Hashemian, B. D. Shumaker, C. D. Sexton, D. D. Beverly and G. M. Morton*

11:00 a.m.–1:00 p.m.

Lunch (Reflections and Waterfront Rooms)

Vendor Exhibits (Admiral Room and Grand Stations III, IV and V Ballrooms)

Afternoon Sessions: 1:00 p.m.–4:00 p.m.

Power Plant Performance Improvement with Advanced Monitoring Systems

(Grand Station II Ballroom)

Session Developers—Tim Fuller and Tom Flynn

Statistical Analysis in Performance, *Jeffery Williams and Konrad Swirski*

Development of Data-Driven Modeling Methods for Monitoring Coal Pulverizer Units in Power Plants, *Belle R. Upadhyaya, Fan Li and Richard Kephart*

A Novel Approach to Predictive Condition Monitoring and Knowledge Management in Power Systems, *Peter J. Millett*

Web Enabled Artificial Intelligence (AI) Software, *Peter Francino and Glen Foster*

Importance of Accurate Air Control for Combustion Optimization, *Richard W. Vesel and John R. Gregory*

Instrumentation Networking

(Reflections Room)

Session Developer—Susan Maley

Wi-Fi Protected Access for Protection and Automation, *Dennis K. Holstein and Thomas E. Kropp*

Trends in Electronic Data Acquisition—Moving Away from Paper Recorders, *Ravi Jethra*

Wireless Instrumentation Enables NEW Best Practices in Monitoring and Automation For the Power Industry, *Gene T. Yon*

Fieldbus Applications in Power Generation: Project Examples and Experience, *John K. Blaney and Jim D. Murray*

Wireless Technology for Power Industry Process Monitoring Applications, *John Perry*

Media Converters: Extending the Life of Legacy Equipment and Easing the Integration of Fiber Optics into Copper Based Architectures, *Todd Duberstein*

4:00 p.m.–6:00 p.m.

Vendor Exhibits (Admiral Room and Grand Stations III, IV and V Ballrooms)

Wednesday, 13 June

Morning Sessions: 8:00 a.m.–10:45 a.m.

Installation and Commissioning

(Grand Station II Ballroom)

Session Developer—Tim Blackburn

Improvement of Reliability of the Power Plant DCS, *Kwan Sik Bae*

VFD Applied Power Boiler FD Fan's Control Reliability Improvement Through DCS Tuning, *Lee San Jin*

Tracking and Reporting of Critical Plant Data in a Timely Manner, *Jody Damron and Laura Lewis*

Value Added Engineering: An Account of the Customization that Goes into DCS, *Radhakrishnan Sarangapani and Ashok Kumar Panda*

Cost Justification and Benefits for Converting a Mechanical Hydraulic Control to an Electro-Hydraulic Control, *Edson da Costa Bortoni*

Process Control Tuning Software Demonstration at Greene County, *Henry Ellis, Dale Evely, John Sorge and Cyrus Taft*

I&C System Security

(Grand Station I Ballroom)

Session Developer—Joe Weiss

Security and Stability of DCS/PLC Based Control Systems in a Power Plant, *Alok Shrivastava*

Study on Safety Instrumented System for Burner Management System (BMS), *Alok Shrivastav and Ashok Kumar Panda*

Providing Secure Remote Access to Digital I&C Systems Using Commercial Off-the-Shelf Products, *James Bingham, Bradley Yeates and Harold Douglas Hester*

SIL and IPF Evaluation—For Upgrade/Revamp Control System Projects/Jobs Prospective, *Harendra Jayant Relwani*

Securing Your Control System, *Kim Fenrich*

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11:00 a.m.–Noon
Closing Comments
(Grand Stations I and II
Ballrooms)

Noon–1:00 p.m.
Conference Critique
Meeting
*Note: open only to
Conference Committee
and EXCOM Members
(Ellwood I and II Rooms)*

1:00 p.m.–2:30 p.m.
ISA-SP77 Committee Meeting
(Ellwood I and II Rooms)

3:00 p.m.–8:00 p.m.
EPRI I&C Interest Group Meeting and Dinner
(Ellwood I and II Rooms and Fountainview Room)

Thursday, 14 June

8:00 a.m.–5:00 p.m.

Standards and Practices Meetings
(Pointview Room)



Conference Sponsors

On behalf of the 2007 ISA POWID / EPRI Conference Committee and the entire POWID Executive Committee, please accept our sincere gratitude for your conference sponsorship.



ISA Training Courses

Monday, 11 June

ISA Training (Prices are per course)
Price: \$395 ISA Member, \$445 List

14 June

Introduction to Boiler Control Systems (ES15C)

Instructor: Jerry Gilman
Time: 8:00 a.m.–4:00 p.m. (7 hours)
CEUs: .7

When working with boilers, regardless what process control system is used or fuel being burned, you must control five basic functions -- furnace draft, drum level, feed water, fuel air, and steam temperature. This seminar will teach you what must be controlled and how the control systems operate.

Ethernet and TCP/IP on the Plant Floor (FG21C)

Instructor: Larry Thompson
Time: 8:00 a.m.–4:00 p.m. (7 hours)
CEUs: .7

Ethernet is fast becoming the new standard for industrial control networking worldwide. Using process control concepts, this seminar explains both Ethernet and TCP/IP as they apply to the plant floor. Included are topics such as the various types of copper and fiber based Ethernet, how to design Ethernet cabling systems and principles of network security. You'll also look at the differences between repeaters, bridges, switches, and routers and how to correctly implement them. Real life examples and case histories will help you understand the truth about Ethernet and TCP/IP and how to use both effectively in your plant.

Implementing Enterprise/Control Integration Using ANSI/ISA-95 Standards (IC55C)

Instructor: Cameron Kamrani
Time: 8:00 a.m.–4:00 p.m. (7 hours)
CEUs: .7

This seminar defines an approach to integration of manufacturing systems with other business logistics systems using the models defined in the ISA-95 Standards. You will be better prepared to integrate your manufacturing systems into the corporate supply chain. The seminar defines the activities associated with manufacturing control business logistics systems and describes, in detail, the information that must be shared between enterprise and control systems.

15 June

Boiler Burner Management Systems-Meeting NFPA Standards (ES16C)

Instructor: Jerry Gilman
Time: 8:00 a.m.–4:00 p.m. (7 hours)
CEUs: .7

Boiler explosions have resulted in loss of major facilities as well as loss of life. With emphasis in the industry on process safety, the design of Burner Management Systems is now more important than ever. This seminar provides an understanding of the boiler burner standards and why they are so critical to this industry.

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OPC: The Windows to the World are Open (IC50C)

Instructor: Larry Thompson
Time: 8:00 a.m.–4:00 p.m. (7 hours)
CEUs: .7

Sharing data between current control system offerings requires a myriad of hardware, software drivers, and configuration tools from each vendor. OLE for Process Control (OPC) is an industry-wide standard that breaks this proprietary lock by offering open connectivity based on principles adapted from MS Windows integration standards. Using case studies and an OPC client/server demonstration, this seminar shows you the benefits and drawbacks of using OPC in your plant, how to link diverse industrial equipment into an effective plant-wide communications network, securely share plant data on the Internet, and how to justify the economics to move to OPC.

Advances in Continuous Emission Monitoring (CEM) Techniques (SP05PC)

Instructor: Jim Jahnke
Time: 8:00 a.m.–4:00 p.m. (7 hours)
CEUs: .7

This seminar reviews the regulatory and technical issues in the field of continuous emissions monitoring (CEM). You will benefit from the seminar by learning about new developments in CEM systems and monitoring instrumentation and how current regulations impact that development.

**For program updates please visit
www.isa.org/powersymp**

Non-ISA Training Courses

14 June

Control Valve and Regulator Sizing and Selection

This course reviews different types of control valve architectures and how they are best applied in process applications with the use of digital valve positioners.
Time: 8:00 a.m.–4:00 p.m.
Price: \$395 ISA Member, \$445 List

Power Plant Data Quality Assessment

This course is intended for power industry engineers interested in evaluating the accuracy of power plant performance measurements.
Time: 8:00 a.m.–4:00 p.m.
Price: \$395 ISA Member, \$445 List

14–15 June

Instrumentation Best Practices

This two day course discusses technology selection, advantages and limitations of the key technologies, while reviewing pressure, temperature and level application examples.
Time: 8:00 a.m.–4:00 p.m.
Price: \$795 ISA Member, \$890 List

15 June

Control Valve for Severe Service Application

This course reviews choosing the right control valve for severe service applications to make improvements in operating efficiencies, heat rate and unit availability.
Time: 8:00 a.m.–4:00 p.m.
Price: \$395 ISA Member, \$445 List

Changing Work Practices to Enable Smart Technology

This course will focus on best practices for enabling plants to better adapt current work processes to fully take advantage of “Smart” technology.
Time: 8:00 a.m.–4:00 p.m.
Price: \$395 ISA Member, \$445 List



Spouses/ Family Program

(NOTE: Applicable admission fees, transportation, and food costs will apply)

Greetings Potential Pittsburgh Visitors!

I hope to eliminate the potential and turn all of you into excited visitors by the end of my tour brochure. I a.m. looking forward to having the opportunity to share my hometown with all of you. And what makes me even happier is that we will be touring some of my favorite places in and around the city. These places are very unique to Pittsburgh and after viewing my tour brochure I hope you realize that these tours are designed to give all visitors a "taste" of the many different specialties that Pittsburgh has to offer. I know that these tours will provide something for everyone and much more!

I can't wait to meet you and I look forward to sharing my city with each of you.

Cheers,

Danielle Skoncey Marvit
skoncey_dm@yahoo.com
(773) 527-9626

Monday, 11 June:

After breakfast we will take to the hills and ride the **Duquesne Incline** up to **Mt. Washington**.

This is the perfect vantage spot to experience "the point" where the 3 rivers come together

at downtown Pittsburgh. This is also where you will understand why we are called the "City of Bridges!" www.incline.cc



Photo courtesy of Tom Pollard and the Duquesne Incline

After a breathtaking view of my city we will head over to the **Northside** where we will spend the morning bird watching at the **National Aviary**. This institution is a national gem that even many Pittsburghers don't know exists! It is home to over 250 different species of birds from around the globe. www.aviary.org

After bird watching, we are sure to be hungry so we will head over to the **Church Brew Works** in **Lawrenceville**. As I a.m. sure you guessed this place was once a church and now it is a real functioning brewery! But, don't hesitate to enjoy this wholesome tavern, since the brew masters here reassure you that some of the world's best and oldest breweries were in abbeys, and monks were the original brew masters! www.churchbrew.com



Photos courtesy of the Church Brew Works

After we fill our bellies full of delicious food we will head over to the **Strip District** for an afternoon at the **Heinz History Center**. This historical museum is home to an array of fun and informative exhibits that walk you through some of Pittsburgh's most memorable moments. If you are a sports fan, then the **Western PA Sports Museum** will interest you as you cheer your way through regional high school moments to Pittsburgh's professional sports highlights and achievements! www.pghhistory.org

Tuesday, 12 June:

Once we are fully caffeinated and ready to start the day we will take a drive out to **Bear Run**, home to one of the most acclaimed architectural wonders-**Fallingwater**. This house was designed by **Frank Lloyd Wright**, for one of Pittsburgh's finest families, the Kaufmanns. This perfect example of Wright's organic architecture illustrates how man and nature can truly become integrated works through innovative design. www.paconserve.org



Photo courtesy of the Western Pennsylvania Conservancy

After our drive back to the city we will head over to **Pittsburgh's Downtown** area for our annual **Three River Arts Festival**. Hundreds of exhibitors, a multitude of food vendors, street entertainers, and much more await you at this spectacular summer event! www.artsfestival.net

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Wednesday, 13 June:

We will start our day off on the right foot as we stroll our way through some of the area's finest and trendiest local shops in the **Southside** neighborhood. Some of my favorite shops include the *E House Company* (recycled items, natural fiber clothing, unique jewelry and innovative household goods), *Yesterday's News* (vintage clothing and goods), *Silver Eye Center for Photography* (www.silvereye.org (photography gallery)), *City Books* (one of the best book stores in the area), and so much more!



Photo courtesy of the University of Pittsburgh

www.pittsburghneighborhoodtours.com/pr13/neighborhoods/default.asp?nHood=6



Photo courtesy of the University of Pittsburgh

After a morning of shopping we will gather together for a lovely buffet (vegetarian) lunch at **Zenith Tea House**. This cool and unique café also houses one of the best collections of antiques including glassware, furniture, household goods, linens, and toys! There is always something for everyone at this hip little place on the **Southside**. www.zenithpgh.com

Once we are full we will cross the *Hot Metal Street Bridge* and head over to **Oakland**. This "city within a city" neighborhood is home to the area's colleges and universities. This is where we will explore some of Pittsburgh's ethnic past through a tour of the 26 **Nationality Rooms** in the **Cathedral of Learning** at the *University of Pittsburgh*. Everyone will have the opportunity to share in their own ethnic pride as we experience the fine craftsmanship of our ancestors. www.pitt.edu/~natrooms



Photo courtesy of Phipps Conservatory and Botanical Gardens

We find our day wrapping up at **Phipps Conservatory**, where we will surround our tired selves in the tranquility of beauty and fragrance. This newly expanded Victorian style glass greenhouse is home to some of the most unique collections of gardens, including the brand new Tropical Forest: Thailand, the Orchid Room and the Sunken Garden. www.phipps.conservatory.org

Thursday, 14 June: (Extension)

For those of you able to join me for even more fun, we will spend the majority of the day at one of **Frick Park's** most well preserved estates. The *Frick estate* is home to several fine museums, including the "**Clayton**" home of Henry Clay Frick, the *Car and Carriage Museum*, the *Frick Art Museum*, the *Greenhouse* and the family gardens. We will explore these



Photo courtesy of the Frick Art and Historical Center

buildings from the past and enjoy a delightful lunch at the award-winning **Café at the Frick**. This lovely café is known for creating gourmet specialties and delightful pastries amidst the backdrop of the Frick gardens.

www.frickart.org/home/

If all that is not enough then I have more to offer! We can spend the rest of the afternoon in my favorite neighborhood, **Squirrel Hill**. This is where I spent most of my time and I love this community for so many reasons. Shopping is always fun here. There is a volunteer-run shop called *Ten Thousand Villages* www.tenthousandvillages.com (fair-trade products from around the globe), *Casablanca Gallery* www.casablancagallery.com/imports/index.php (Moroccan gallery of lamps, furniture, jewelry, glassware and more), *Little's Shoes* (one of the best shoe stores in Pittsburgh), *Orr's Jewelers* www.orrrocks.com, the *Chocolate Moose* www.thechocolate-moose.com (unique specialty candy shop) and so much more! www.shuc.org/sq-hill-business.html

And last but definitely not least, we will adjourn our adventure over a café au lait at my personal favorite spot in the entire city, the **61c Café**. This is the perfect place to relax our tired feet and gab about all the fun things we enjoyed in Pittsburgh and to celebrate the new friendships that we made with each other!

www.61ccafe.com



Photo courtesy of 61c Café

2007 Conference Committee

GENERAL CHAIR

Michael Skoncey

FirstEnergy
Sammis Power Station
P.O. Box 176, Rt. 7
Stratton, OH 43961
(740) 537-6324
mjskoncey@firstenergycorp.com

PROGRAM CO-CHAIR

Allan J. Zadiraka

The Babcock & Wilcox Company
20 S. Van Buren Avenue
P.O. Box 351
Barberton, OH 44203-0351
(330) 860-1376
ajzadiraka@babcock.com

PROGRAM CO-CHAIR

Aaron Hussey

EPRI
ahussey@epri.com

PROFESSIONAL DEVELOPMENT CHAIR

Thomas W. Stevenson
Constellation Energy
(410) 787-5260
Thomas.w.stevenson@constellation.com

EDITORIAL REVIEW

Tim Hurst

Hurst Consulting, Inc.
P.O. Box 1756
Angleton, TX 77516
(409) 849-5068
timh@hursttech.com

PUBLICITY

Joe Vavrek

Sargent & Lundy
55 E. Monroe St. 25W53
Chicago, IL 60603
(312) 269-2270
joseph.m.vavrek@sargentlundy.com

ISA POWID SUPPORT

Rodney Jones

ISA
P.O. Box 12277
Research Triangle Park, NC 27709
(919) 990-9418
rjones@isa.org

Let's Celebrate 50 years!

17th Annual Joint

ISA POWID/EPRI

Controls and Instrumentation Conference

50th Annual

ISA POWID Symposium

10-15 June 2007

(Conference Sessions 11-14 June)

Sheraton Station Square Hotel

Pittsburgh, PA

Register by 1 May 2007

and Save \$100

Call **(919) 549-8411**

Visit **www.isa.org/PowerSymp**

In its 50th year, the ISA POWID/EPRI Controls and Instrumentation Conference

will focus on control and instrumentation for the electric power industry. This event will feature presentations and training sessions on:

- Power Plant Control Systems
- Advance Technologies
- Fossil Plant Issues and Technologies
- Power Plant Safety
- I&C System Security
- Other Power Industry Issues
- Nuclear Plant Issues and Technologies
- ISA Standards Meeting

AND

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For more information on sponsorships and exhibit opportunities, contact Rodney Jones at rjones@isa.org

Sponsored by the ISA Power Industry Division and The Electric Power Research Institute (EPRI)

Call For Papers

18th ISA POWID/EPRI Controls & Instrumentation Conference The Pathway to Power Automation for the 2010 Decade 8–12 June 2008 - Phoenix, Arizona

The 18th Annual Joint ISA/POWID/EPRI Controls and Instrumentation Conference (also the 51st Annual ISA POWID Symposium) will take place in 8–13 June 2008 at the Scottsdale Hilton Hotel. We will review all submissions and publish accepted papers in the Conference Proceedings via CD. The proceedings will later be available to the general ISA membership through the ISA POWID website.

Some of the topical areas for this conference are listed below. Focus on some aspect of the theme, "The Pathway to Power Automation for the 2010 Decade", is encouraged, and application to some aspect of the power industry is necessary.

Power Plant Control System Advances

- Power Plant control system new & retrofit projects
 - Boiler, turbine, and balance of plant
 - SO_x, NO_x, particulate and mercury capture
 - Emissions instrumentation innovations
- Novel control strategies, calibration and tuning aids
- Integration of disparate control systems
 - Wireless networks
 - Fieldbus
- Optimization systems; continuous and discrete
 - Neural Net
 - Model Predictive
 - Expert System
- Advances in process measurements, calibration and maintenance
- Operator/technician training

Productivity Technologies

- Integration of automation systems to
 - Business Systems
 - Maintenance management systems
- Computer aided design and engineering
- I&C design and records management

Nuclear Plant Issues and Technologies

- Digital upgrade experiences and developments
- Advances in process measurements and calibration
- Human factors & control room design
- Operator training advances
- I&C related technical and licensing issues

Power Plant Safety & Training

- Burner management and safety systems
- Hazardous material monitoring and control
- Electrical Safety
- Other safety regulations and requirements

Control and Information Systems Security

- Regulatory requirements - NERC 1200, 1300, CIP-002-01 Cyber Security Standard
- Application of security standards - ISA 99 and others
- Vendor adoption/rejection of standards

Other Power Industry Related Issues

- Automation life cycle
- Automation for environmentally friendly power
 - IGCC
 - CO₂ sequestering
 - Accelerating Nuclear deployment
 - Wind, solar, fuel cells
 - Power for electric automobiles
- Aging workforce

Submission Guidelines, applications, deadlines, and more details may be found at ISA's website.

Questions – Contact

Denny Younie
(Denny.Younie@WoodGroup.com)
General Chair

Don Labbe
(Donald.Labbe@IPS.Invensys.com),
Program Chair

Rodney Jones (Rodney.jones@isa.org),
ISA Division Support, (919) 990-9418

ISA Power Division Member Receives Prestigious Award

The Standards and Practices Award

To recognize and stimulate individual accomplishments and contributions to standards and practices in instrumentation, systems, and automation.



Mr. Gordon R. McFarland
Emerson Process Management
Eatonton, GA

Citation: For leadership in the initial formulation of the fossil power plant standards development, and for 25 years of continuous support and direction of those standards.

During his 37 year career Gordon McFarland has made a significant contribution to the creation development and application of technical standards and practices for power generation industry. He has served as both chairperson and Standards and Practices managing director of ISA-SP77. He was responsible for establishing the eight author subgroup writing committees, a structure that is still retained and utilized in ISA-SP77. His leadership roles also include chairing the ISA-SP77 40 Boiler Control Standard Committee, the ISA-SP77 41 Combustion Control Standard Committee and the ISA-SP77 Feedwater Standard Committee, and serving as a voting member of numerous subcommittees

Mr. McFarland works as a marketing consultant in the North American Power Marketing group for Emerson Process Management Power & Water Solutions. An ISA member since 1973, and a senior life member since 2002, Mr. McFarland has held a variety of leadership positions including Director of the Power Industry Division (POWID), member of the Image & Membership Development Department membership committee, and President of the Atlanta Section. He received the POWID Achievement Award in 1988.

Mr. McFarland is the author of several technical papers regarding power plant control systems. He is a member of the Southeastern Energy Society (SES), and holds a bachelor's degree in Electrical Engineering Technology from Southern Polytechnic State University in Atlanta, GA.

POWID Historian

Description of Duties and History

On 21 May 1958, the Power Industry Division of ISA held the first Power Industry Symposium at the Henry Hudson Hotel in New York City. The Symposium drew 50 participants and was an immediate success. The next year the annual symposium in Kansas City drew 235 participants. The Symposium has been held every year since that time in cities all across the US and Canada.



Don Christopher

In 1974, the POWID Executive committee voted to create the position of POWID Historian. The duties of the historian were to collect and maintain files documenting the work of the Power Industry Division of ISA. RA Russell, with Black & Veatch, was the first POWID Executive Committee member to hold the Historian position. Subsequent Historians were:

Ted Reitz	1985 – 1989
Harold Hopkins	1990 – 1998
Robert Webb	1999 – 2004
Don Christopher	2005 – Present

Don Christopher has been a member of ISA since 1973. In 1975, he has served on the Host Committee for the POWID Symposium held in Houston, and in 1977 became a member of the POWID Executive Committee. Don has held many POWID positions including Secretary, Program. Chairman, Session Developer, Editorial Review Chairman, Paper Reviewer, and Standards Committee member.

Currently, Don is working with ISA Headquarters to develop a plan for converting the many boxes of paper files to electronic files that can be made available on the internet. Scanning nearly 50 years of paper files is no small task, but it will be really nice to have POWID history made easily available to all POWID members.

ISA EXPO 2007

2–4 October

Reliant Center, Houston, TX

www.isa.org

NEW POWID MEMBERS

1 November 2006 to 23 February 2007

The Power Industry Division (POWID) of ISA would like to welcome all of the new POWID members since 1 November 2006 through 23 February 2007. We hope you will take advantage of everything POWID has to offer for your work and your career including the opportunity to network with power industry professional colleagues across the globe. Our primary goal is to provide a means for information exchange among engineers, scientists, technicians, and managers involved in instrumentation and control related to the production of electricity. POWID is active in developing industry safety and performance standards, working closely with two ISA standards committees—ISA-SP67, Nuclear Power Plant Standards, and ISA-SP77, Fossil Power Plant Standards. The Division also conducts technical training and sponsors awards for power plants and individuals advancing instrumentation and control within the power industry. POWID welcomes your involvement in our Division activities. Opportunities are available to provide information for our newsletter and Web site, to develop papers for presentation at our annual conference, and to participate in our Division's management structure. It's a great way to get to know other industry professionals, to gain professional recognition, and to keep informed!

New Members

Mr. Charles W. Allison
Control & Power Inc
Mr. John M. Arcenas, P.E.
US Bureau of Reclamation
Mr. Raul E. Aviles, Jr., PE
Mr. Eric C. Bergsman
Marvel Consultants Inc
Mr. John W. Bigland, Jr., PE
Mr. James R. Bostwick, CCST
Mr. Olin G. Bundy, CCST
Schneider Electric
Ms. Brenda Cooper
Horner Ireland Ltd
Mr. Bohdan Dackow
US Power Generating Co
Mr. Brian A. Delcorio
Midwest Generation
Mr. Matthew Dorval
Meridian PVF
Ms. Jacqueline Durante
Altech Environment USA
Mr. Emaddeldeen Abdelhady Essa
White Nile SB Petroleum Operating Co
Mr. Arthur F. Gagney
Hess-Reynolds Sales
Mr. Julian Gonzalo V
CA Electricidad de Caracas
Mr. John A. Harvey
Mr. Thomas W. Hollen
DTE EES Coke Battery LLC
Mr. Dennis P. Houghton, CCST
Mr. Sungil Jang
Mr. Tom Kaplan
Southwest Engineering & Contractors
Mr. Robert Neil Knight, Jr.
Mr. Stephen M. Krchnavy
Mr. Anthony P. Lennon
Mathworks

Mr. Tim Millican
Stratcor Inc
Mr. Sam C. Mudd
EON US
Mr. Tamer E. Nassar P.E.
AMEC Paragon
Mr. Frank A. Nederhand
Mr. Kevin F. Nolan
Scaler Sales Co
Chimaobi Oji Oji
Mr. Gary R. Osborn
Rich Products Corp
Mr. Roger Ramirez
Mr. Jody Richardson
ABB
Mr. Daniel J. Rucinski
Mr. Scott Salio
Mr. David Schroeder
Mr. Henry T. Thompson
Mr. Steve Vuco
Sargent and Lundy
Mr. James Gregory Waldrop
Mr. Frank Wilson
The Pacific Lumber Co
Mr. Fred R. Young, P.E.
Southern California Edison Co

Mr. Raju Gavurla
LiiivEN Inc
Mr. William Heidenreich
Mr. Frederick C. Huff
Mr. Stephen C. Kozma
Foster Wheeler Energy Corp
Mr. Rex A. Kreig
Mr. Frank B. Maher
Mr. J. Troy Martel
Mr. Peter T. McGourty
McGourty Controls & Instrumentation Ltd
Mr. Jagannath Mohapatra
National Thermal Power Corp Ltd
Mr. Richard C. Nelson
Mr. Robert M. Queenan
Sciencetech NUS Instruments
Mr. Gregory J. Read
Mr. Wayne R. Salsiccia, Jr.
Hanover
Mr. Warun Santhakarn
SolutionTech Co Ltd
Mr. James T. Swansey
Mr. Al Woodford
AKA Group

Returning POWID Members

Mr. Osman A. Azzam
Arab Consulting Engineers
Mr. James L. Beall
Southern Co
Mr. Brett E. Benson
Duke Energy
Mr. Gary Colin Boreham
Mr. Renato Baccili Castilho
Duke Energy
Mr. William J. Dugary
Mr. Don E. Ehrlich, II

New Student Members

Mr. M. Abdullah
MAM College of Engineering
Mr. M.A. Kader Mohamed
MAM College of Engineering
Mr. Peer Mohamed Abdullah
MAM College of Engineering
Mr. R. Muthukumar
MAM College of Engineering
Mr. A. Siraj Ahamed
MAM College of Engineering
Mr. Mohammed M. Muzzamil
MAM College of Engineering
Mr. Jabir Ahamed
MAM College of Engineering

Mr. Tommy Wayne Myrick
Mr. K.J. Basith Ahamed
MAM College of Engineering
Mr. T. Naresh
MAM College of Engineering
Mr. Irshath Ahamed
MAM College of Engineering
Mr. Ahamed Nivas
MAM College of Engineering
Mr. Sabeer Ahamed
MAM College of Engineering
Mr. Marcos Ochoa
Mr. Ali M. Akbar
MAM College of Engineering
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Mr. Daniel Alberto Osuna Lizarraga
Mr. Andy Andreas
Mr. Nitin Virjibhai Patel
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MAM College of Engineering
Mr. Alfredo Perez Lechuga
Mr. Himanshu Rasikbhai Baldha
Mr. P. Piridish
MAM College of Engineering
Mr. Allan R. Brown
Mr. V. Prabakaran
MAM College of Engineering
Mr. Guilherme Cabrine
Mr. R. Prabhakaran
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Mr. H. L. Abdul Rahman
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Mr. Ajith Firasali
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Mr. A. R. Raja
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Mr. Carlos Garcia Reyes
Mr. P. Raja
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Mr. M. A. Abdul Ghany
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Mr. K. Rajasekar
MAM College of Engineering
Ms. Gaury Dilip Gogte
Mr. K. Rajasekar
MAM College of Engineering
Ms. Leticia Hernandez Del Angel
Mr. M. Rajesh
MAM College of Engineering
Mr. Ismael Hernandez Rojas
Mr. Razik Fareed
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Mr. M. Mohamed Ibrahim
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Mr. R. Rengaprabhu
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Ms. R. Sharon Rubini
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MAM College of Engineering
Ms. S. Sunandha
MAM College of Engineering
Mr. K. Karthick
MAM College of Engineering
Mr. Udhya Saravanan
MAM College of Engineering
Mr. K. Karthickeyan
MAM College of Engineering
Mr. U. Sarayu
MAM College of Engineering
Mr. N. Karuppusamy
MAM College of Engineering
Mr. Ibrahim H. Sathack
MAM College of Engineering
Mr. A. Abdul Khader
MAM College of Engineering
Mr. Sangu Selvan
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Mr. Mohideen Abdul Khadir
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MAM College of Engineering
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Mr. Jamal Mohamed
MAM College of Engineering
Mr. Antony Y. Ziskin

ISA-SP77 Fossil Fuel Power Plant Standards

Minutes of Meeting

Chairman: David Roney
Recorder: Loanna Overcash / Dan Lee
Date: 17 October 2006
Location: ISA EXPO 2006, Houston, TX
Distribution: ISA-SP77 Committee / Subcommittee Members

Attendees:

Dan Lee	Gary Cohee
Gordon McFarland	Goray Mookerjee
Jim Olson	Cyrus Taft
David Roney	Bob Hubby
Jerry Gilman	Allan Zadiraka
ISA Staff: Loanna Overcash	

Call to Order

The ISA-SP77 Fossil Fuel Power Plant Standards Committee meeting was called to order at 3:19 p.m. by ISA-SP77 Chair, David Roney.

Introduction of Attendees

Introductions were made by all present. The attendance list and ISA-SP77 committee roster were circulated for signature.

Review and Approval of Agenda

The following change was made to the agenda: Gordon McFarland will report on the ISA S&P Board Meeting that was held on Sunday, 15 October 2006.

Action Item: Change Chair name from Wayne Holland to Dave Roney.

(Note from L. Overcash – David Roney is now listed as the ISA-SP77 Chairman; Wayne Holland remains listed as the Managing Director until further action is taken either by the S&P Board to remove him or by the ISA-SP77 committee to the S&P Board to elect a new managing director.)

The agenda was approved as amended.

Approval of Previous Meeting Minutes

The minutes from the June 2006 meeting in San Jose, Ca. were approved as written.

ISA-SP77 Chair Opening Remarks

David Roney introduced himself as the new chair of ISA-SP77 and thanked Dan Lee for putting together the agenda for him.

ISA-SP77 Active Subcommittee Reports

ISA-SP77.14 – Jim Olson reported that the working group subcommittee (dubbed the "Super Committee" by Bob Hubby), consisting of Jeff Schleis, Andy Gavrilos and himself, has made a lot of progress within the past year with bimonthly Web meetings. The document was submitted to the ISA-SP77 committee for review and lots of comments have been received that will be taken back to the Super Committee for further discussion and fine tuning. Draft 9 will be sent back to ISA-SP77 for another round of balloting and review.

ISA-SP77.13 – Loanna Overcash reported that she had recently received Jeff Schleis's response to comments from the reaffirmation process. No technical changes were accepted and Loanna will follow-up to let each commenter know of the response. She will also follow-up on the next review phase of this document.

ISA-SP77.20 – Allan Zadiraka reported that there has been no activity and that the revision on this document is at a standstill.

ISA-SP77.40 – Dan Lee reported that the ISA-SP77.40 Working Group has been inactive in 2006 due to his other ISA roles. It is expected that once the Steam Temperature (ISA-SP77.44) standard is reaffirmed, the ISA-SP77.40 WG1 will resume work on this standard.

ISA-SP77.42 – Jerry Gilman reported that he has spent a considerable amount of time looking at the draft of TR77.42.02 and that he needs input from other people. The document is currently on Draft 3. He hopes to have a meeting with this subcommittee in February to further work on the document.

ISA-SP77.43 – Cyrus Taft reported that the standard will be up for reaffirmation in 2007. Loanna will send out the ballot in early January.

ISA-SP77.44 – The ISA-SP77.44.01 (Steam Temperature Control for Drum and Once-Through Boilers) held a physical meeting on 8 June 2006 after the POWID Symposium in San Jose, CA. After the 8 June meeting, the meeting minutes and draft 4 were distributed and posted on the committee Web site. The last physical meeting was on 17 October during the ISA EXPO 2006 held at the Houston Reliant Center. The committee worked on resolving a few outstanding issues. These meeting comments will be incorporated into draft 5 which will then be distributed for ISA-SP77.44 and ISA-SP77 committee ballot. Based on the closing date for the ISA-SP77.44 balloting, ISA-SP77.44 will hold a Web meeting to resolve any outstanding ballot comments. If necessary the ISA-SP77.44 committee will hold a physical meeting during POWID's February meeting at RTP.

ISA-SP77.60 – Bob Hubby reported that ISA-RP77.60.05 will go out for ISA Public Review following this meeting.

ISA-SP77.70 – Goray Mookerjee reported that the document is current and there is no subcommittee activity at this time.

ISA-SP77.82 – Cyrus Taft reported that the subcommittee has held a number of Web meetings and they are now on Draft 5d – moving toward Draft 6 after another Web meeting.

S&P Board Activities

Gordon McFarland reported that the biggest news to come from the S&P Board meeting on Sunday, 15 October is that as of 1 January 2007, all ISA Standards will become available for free to ISA Members.

Liaison Reports

ISA SP5.1 – Dan Lee reported since the last ISA-SP77 committee meeting on 8 June 2006, there have been no activities or correspondence with ISA-SP5.1 committee. The ISA-SP5.1 Instrumentation Symbols and Identification chairman (Jim Carew) is working on responding to comments from Draft 5 ballot and incorporating these comments into Draft 6. According to Charley Robinson, draft 6 will be distributed before the end of 2006. There has been no further dialog with Jim Carew to address individual comments.

NFPA 85 – The NFPA 85 is in the 2007 reaffirmation cycle. All NFPA 85 committee work has been completed. The new NFPA 85 2007 edition should be published early 2007 and available for purchase through NFPA. The NFPA 85 committees agreed to go on a 4 year revision cycle meaning that committee work will probably start late 2008 with a new edition in 2011.

IEC TC65 WG9 Liaison Report – Dan Lee reported there have been no activities or correspondence from the IEC TC65 committee or the IEC TC65 WG9 committee. The WG9 committee seems to have gone dormant in completing their proposed technical reports (Unit Load Control and Fuel/Air Control).

ISA-TR84.00.05 – Gary Cohee sent a drafted letter to the POWID Executive Committee to see if they want to take a stand on this issue. Gary will collect comments for further discussion in February.

ISA-SP101 – Loanna Overcash will include meeting minutes as an attachment.

Old Business

a) ISA-SP99 Liaison position is still open – Goray Mookerjee volunteered to be the ISA-SP77 liaison to this committee.

b) Subcommittees have been marked inactive as requested and ISA-SP77.21 roster will be rolled into the ISA-SP77.20 roster. Subcommittee chairs need to send in a "Word from the Chairman" to Loanna Overcash for respective Web-sites.

c) ISA-SP77 Committee membership listing – No report.

d) ISA-SP77 Web page folder structure - Due to time constraints this item was put on hold.

New Business

Issue of Voting Members who do not actively participate

a) ASME Liaison position open - Cyrus Taft volunteered for the position.

b) MOP Subcommittee membership - Dan Lee reported that the MOP subcommittee was reviewing the requirement of ISA-SP77 and ISA-SP77 committee membership. This topic will be discussed further at the next EXCOM and ISA-SP77 meeting.

ISA-SP77 Web page folder structure – Dan Lee was looking into making the pages more consistent. No decision at this time, but we will continue to discuss and look at this issue.

Next Meeting

The ISA-SP77 committee will meet in RTP in February 2007.

Adjournment

The meeting was adjourned at 5:21 p.m.

Power Industry Division Officers

DIRECTOR

Daniel Lee

ABB, Inc.
29801 Euclid Avenue
Wickliffe, OH 44092
(440) 585-6063
dan.lee@US.ABB.com

PAST DIRECTOR

Gary Cohee

Applied Control Systems
P.O. Box 5847
Beaumont, TX 77726
(409) 790-1945
garycohee@aol.com

POWID NEWSLETTER EDITOR

Dan Antonellis

IPS - Foxboro
33 Commercial St., C41-2K
Foxboro, MA 02035
(508) 549-6344
dan.antonellis@ips.invensys

DIRECTOR-ELECT

Cyrus Taft

EPRI I&C Center
Kingston Fossil Plant
714 Swan Pond Road
Harriman, TN 37748
(865) 717-2017
ctaft@contractor.epri.com

MEMBERSHIP CHAIRMAN

Gordon McFarland

Emerson Process Control
125 Shelby Dr., NE
Eatonton, GA 31024-8889
(706) 484-0570

ISA
67 Alexander Drive
P.O. Box 12277
Research Triangle Park, NC 27709

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