

TECHNOLOGY AFFECTING THE BOTTOM LINE WAS THE FOCUS FOR THE TAPPI/ISA-PUPID PCE&I CONFERENCE

MARY BETH BENNETT

PROFIT OR LOSS? EFFICIENCY OR WASTE? INNOVATION OR RENOVATION?

IN TODAY'S BUSINESS WORLD, PERFORMANCE IS THE BOTTOM LINE.

TECHNOLOGY IS THE FORCE THAT CAN MAKE increased productivity and profitability a reality. The 1997 TAPPI/ISA-PUPID Process Control, Electrical and Information (PCE&I) Conference & Exhibit held in Birmingham, AL, brought the TAPPI/ISA-PUPID groups together to discuss the latest applications and technical developments to improve information transfer, measurement, and control for the paper and related industries. The conference offered 18 technical sessions with 50 presentations, nine panels, five tutorials, and 26 committee meetings plus an exhibit with 31 exhibiting companies. Over 500 people from around the world attended the four-day event.

haeuser, TAPPI president's representative for the event, presented a few words on behalf of the TAPPI Board of Directors. Thomas E. Murphy, PCE&I Division vice chairman, accepted the gavel from Phelps. Murphy will be the next TAPPI PCE&I Division chairman.

During the opening session Theodore C. Kennedy, chairman of BE&K, Inc. presented the keynote address. In 1972 Kennedy, along with two colleagues, formed BE&K.

In an entertaining and motivating speech Kennedy offered the following challenges to the engineering profession: "Communicate the value of your profession to the business, talk your talk so that everyone hears and understands, and most importantly continue on with your work, it is important."



The conference newcomers orientation

OPENING SESSION

During the business section of the opening session, Thomas A. Phelps, Bowater, Inc., TAPPI PCE&I Division chairman and conference co-chairman, thanked everyone for attending and offered his appreciation to the group for their help with the conference. Then he turned the meeting over to Martin G. Schweers, ISA-PUPID director and conference co-chairman, for a few words about ISA's participation in the event. William S. Fuller, Weyer-

AWARDS

David A. Bossen, chairman emeritus, Honeywell-Measurex, received the 1997 Process Control, Electrical and Information Division Technical Award and the 1997 Process Control, Electrical and Information Division Pioneer Award. (See the sidebar on page 238 for an interview with Bossen.)

Ronald O. Meihof, Eurotherm Drives, Inc., received a Special Recognition Certificate for his service as Division

CONFERENCE REPORT



Thomas F. Murphy, PCE&I Division vice chairman and incoming Division chairman

awards and recognition chairman. George S. Krc, Mead Corp., was honored for his services as Division membership chairman with a Special Recognition Certificate. Hazen W. Danforth, Georgia-Pacific Corp. received a Certificate of Appreciation for his work as the Process Control Committee chairman. Phelps received a Certificate of Appreciation for his dedicated service as the Process Control, Electrical and Information Division Chairman.

PROGRAM OVERVIEW

This year saw the development of a new presentation format, the hands-on tutorial. The U. S. Department of Energy presented the tutorial on the Motor Challenge Program. The use of laptop computers was encouraged and copies of the MotorMaster+ software were loaded onto the laptops and modelled in the tutorial.

The Motor Challenge tutorial was part of a new track in this year's program on learning for life and career. Other parts of the track were better, faster, results on the World Wide Web; electromagnetic effects on control systems; variable frequency drives, principles, and practices; and process safety management.

Other subjects covered during the four-day conference included: field instrumentation: economy, reliability and flexibility; motors, controls and drives—the future is now!; raceways, enclosures, supports and fasteners: corrosion in the mills; control valves come up to date; system design; generation and distribution—power to process; consistency measurement and control; old friends revisited: a review of what's old, what's new, what's tried and true in four basic control systems measurements; PLC/DCS roundtable; paper machine sensors and controls; programmable logic controls—does faster



Thomas A. Phelps, PCE&I Division chairman and conference co-chairman (left), with William S. Fuller, TAPPI president's representative



From left: George S. Krc, Mead Corp.; Hazen W. Danforth, Georgia-Pacific Corp.; Thomas A. Phelps, Bowater Inc.; and Ronald O. Meihofer, Eurotherm Drives, Inc. These individuals received PCE&I Division Certificates of Recognition and Appreciation.

and bigger equal better and safer?; DCS—here, now, and in the future; instrument person's roundtable; and safety control systems.

Special thanks to Raytheon Engineers & Constructors, Inc. for providing the data/video projectors and laptop computers for the power point presentations.

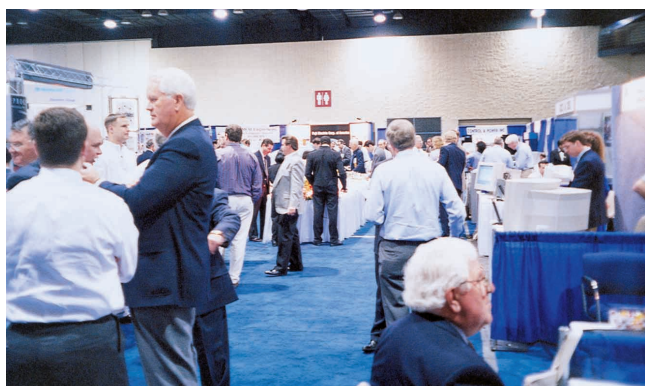
Copies of the *1997 TAPPI Process Control, Electrical and Information Conference Proceedings* are available on CD-ROM or in bound-volume format from TAPPI PRESS for US\$ 90 (US\$ 60 for TAPPI members), plus shipping and handling. The order no. is 01055597 for the bound volume and 010555CD97 for the CD-ROM. For more information contact TAPPI's toll-free Service Line at +1 800 332-8686 (U.S.), +1 800 446-9431 (Canada), or +1 770 446-1400. Or try TAPPI's Insta-fax at +1 770 209-7329 or TAPPI's Web page: www.tappi.org.

NETWORKING OPPORTUNITIES

The conference offered several opportunities for the attendees to get to know one another. The committee meetings were actively promoted at the registration desk so that regular members knew what was going on and



Opening session presenter Theodore C. Kennedy, chairman of BE&K, Inc. (left) with William S. Fuller, TAPPI president's representative



Networking during the 1997 TAPPI Process Control, Electrical and Information Exhibit

new attendees understood that they were welcome. The newcomers' breakfast was well attended, offering committee officers and TAPPI representatives another chance to encourage participation and to get to know first-time conference attendees. The 1997 TAPPI PCE&I Exhibit was held so that the hours of the exhibit and the conference program rarely overlapped; thus exhibitors could participate in the sessions and the committee meetings while attendees were able to get the full benefit of the exhibit. The 1997 TAPPI/ISA-PUPID PCE&I Conference and Exhibit Reception held in the exhibit hall allowed extra early evening time to get to know the exhibitors. The coffee breaks were frequently used as short networking sessions, especially when a session was in mid-stream and questions and comments were ongoing. Special thanks to BE&K Inc.; Orion CEM, Inc.; GE Fanuc Automation; Rockwell Automation—Allen Bradley/Reliance; and The Foxboro Co. for contributing to the coffee breaks.

The following companies exhibited their latest products and services: ABB Industrial Systems, Inc.; Lake Shore Cryotronics; Triconex Systems, Inc.; Chemtrac Systems, Inc.; IMA Plus; Powell Electric Manufacturing Co.; ISA;



Martin G. Schweers, ISA-PUPID director and conference co-chairman

Siebe Control Valves Division—NAF Group; Liberty Technologies, Inc.; Howard K. Avery & Associates, Inc.; Horiba Instruments Inc.; Carotek, Inc.; KETT; Pavilion Technologies Inc.; Basler Electric Co.; *Pulp & Paper Magazine*; BLH Electronics, Inc.; Fisher-Rosemount; Entech Process Control, Inc.; Temco Engineering; Fuji Electric Corp. of America; Valmet Inc.; ESKO Industries, Ltd.; U. S. DOE's Motor Challenge Program; Graseby STI; The Foxboro Co.; GE Motors & Industrial Systems; Texas Controls, Inc.; Bailey Controls Co.; BTG, Division of Spectris Technologies Inc.; and Rockwell Automation—Allen Bradley.

1998 CONFERENCE

The 1998 TAPPI Process Control, Electrical and Information Conference will be held at the Westin Bayshore Hotel in Vancouver, BC, Canada, March 16–19. ISA's Pulp & Paper Industry Division (PUPID) will join TAPPI's PCE&I Division as a cosponsor. A call for papers has been issued for the conference. The program will focus on process control, process design, millwide control, information systems, systems integration, electrical engineering, and quality control. Technical papers involving design strategy, implementation, and case studies are of particular interest. Authors interested in presenting a paper on these or related topics should contact William Stafford at TAPPI Headquarters, +1 770 209-7201. For more information on the conference please contact the TAPPI Service Line by calling +1 800 332-8686 (U.S.), +1 800 446-9431 (Canada), or +1 770 446-1400. Or try TAPPI's Web site at www.tappi.org.

Bennett is editorial director, TAPPI JOURNAL.

DAVID A. BOSSEN, A PIONEER IN THE PROCESS CONTROL INDUSTRY

WEBSTER'S DICTIONARY DEFINES A PIONEER AS SOMEONE who goes before, preparing the way for others. David A. Bossen is truly a pioneer in the process control field. And to honor his pioneering spirit TAPPI's Process Control, Electrical and Information Division presented him with both its Pioneer Award and its Division Award. A TAPPI member since 1958, Bossen was named a TAPPI Fellow in 1991 and is a founding member of the TAPPI Process Control, Electrical and Information Division. Bossen is a co-founder of Measurex and is currently chairman emeritus with Honeywell/ Measurex. Bossen has been awarded several patents, including 12 since the founding of his company in 1968. The following interview took place with Bossen after he received his awards.

TJ: Who contributed the most to your career through mentoring?

BOSSEN: I consider three people my mentors. First would be my aunt, Carolyn Eberhart. She was very unusual for her day. She was a manufacturing vice president for a diesel engine company, Climax Engineering, during World War II, in Clinton, IA. My aunt was very interested in management. Second would be my mother, Rose, my Aunt Carolyn's sister. And third would be R. T. Grau, my high-school principal.

TJ: How did TAPPI influence your career?

BOSSEN: I learned more about the paper industry through TAPPI. I wanted a place to meet impor-

tant and nice people and TAPPI offered that. During a TAPPI meeting in 1952, I persuaded Ronald G. MacDonald, then chief staff officer of TAPPI, to give me permission to set up a booth in the lobby of the Commodore Hotel. I wanted a place to show the new marvelous device, the beta gauge, so I worked with TAPPI and the hotel to do something a little out of the ordinary. This lobby demonstration was the forerunner of TAPPI exhibits.

TJ: What challenges face process control within the paper industry?

BOSSEN: A big challenge is the accelerating rate of technical developments in measurement and control. The first Measurex system was 32 Kilobytes of memory. Now each operator's station is 16 Megabytes plus a one Gigabyte hard disk. This means more power, more number crunching. As a result of this power there will be

more advanced cross-correlation models for strength and other properties. I believe that in a few years it will be very difficult to justify a test lab because online testing will be available for all key parameters. The paper industry is far ahead of other industries such as the steel industry in measurement and control. The paper industry started early with integration and is stronger as a result of the long history. Information systems will continue to expand the measurement controls for basis weight, color, ash content, and on through the process including business and management measurements like real-time accounting.



From left: Thomas A. Phelps, Bowater Inc.; Darlene Bossen; and William S. Fuller, Weyerhaeuser Co., with David A. Bossen (second from right), Honeywell/Measurex. Bossen was winner of the 1997 Process Control, Electrical and Information Division Award and the 1997 Process Control, Electrical and Information Pioneer Award.



William S. Fuller, TAPPI president's representative (left), presents David A. Bossen, Honeywell/Measurex, with the plaque and pen that are part of the 1997 Process Control, Electrical and Information Division Award.

TJ: What would you consider your most career-changing moments?

BOSSEN: From 1951 through 1967 I worked for Industrial Nucleonics. I resigned on Jan. 9, 1967, my 40th birthday. I think I went through early male menopause, I saw the opportunity to build digital computer based systems for measurement, control, graphic operator interfaces, as well as MIS.

TJ: What are your plans for the future?

BOSSEN: I am working full time through 1997 for Honeywell/Measurex. In addition I have a three-year agreement through 2001 working at quarter time. I plan to spend time on things that are fun. And I plan to be active in the industry.



The TAPPI PCE&I Division Pioneer Award