



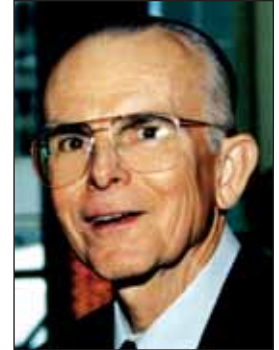
ISA Division Newsletter
 Summer 2005
 Steve Marrano, Editor

Water & Wastewater Division

- Standards
- Certification
- Education & Training
- Publishing
- Conferences & Exhibits

Director's Message

By Henry (Hank) R. Hegner



Hello to all of our ISA Water and Wastewater Industries Division (WWID) Members. The WWID had a successful 2004. See the 2004 I & S Department WWID Annual Report and the Guidelines for an Active and Inactive Division.

As a Member of the ISA Society Honors and Awards (H&A) Committee and past chair of the Admissions Committee, I encourage you to consider nominating a friend or associate for an ISA Society H&A or Fellow grade. An article is included in this newsletter on the ISA H&A technical and service awards. The bylaws change to Fellow grade requirements was approved at the ISA President's Fall Meeting in October 2004 in Houston, Texas, and it is included in this newsletter.

I urge all Members, if possible, to attend ISA EXPO 2005 and visit the exhibits and WWID technical sessions. The WWID will be supporting technical sessions in Chicago at ISA EXPO 2005.

We also have a number of vacant and support WWID board positions available, including Associate Director, Program, Symposium, Historian, H&A, Publicity, Section/Division Liaison, Marketing, Education, Web Master and Technical Paper Review. Please consider volunteering for these or other support positions by contacting me at (540) 721-2114, fax (540) 721-1648 or by e-mail: hrhegner@aol.com. Steve Valdez, Director-Elect, and I will need "help" in 2006 to complete **Plans for Accomplishment and Areas for Improvements** in the attached 2006 WWID Division Business Plan.

Remember, the WWID board continues to remind you that through your efforts WWID Members support one of the planet's most precious and critical resources, WATER. Therefore, as a Member you should be proud of what you do, as well as your association with WWID. I look forward to meeting with you at ISA EXPO 2005.

Hank Hegner

IN THIS ISSUE:

Director's Message	1
Annual Report	2
Business Plan	2
Guidelines for Active/Inactive Division	3
Society Honors and Awards	3
ISA Bylaws Change	4

2004 I&S Department WWID Annual Report

By Henry (Hank) R. Hegner, Director

I was the Water and Wastewater Industries Division (WWID) Facilitator in 2004. I agreed to become the WWID Director in May 2004 after Dan Evans resigned as the 2004 WWID Director. I thanked Dan for his efforts as Director and Director-elect. Past WWID Director, Joe Provenzano, become the 2004 Automatic Control Systems (ACOS) Division Director. He completed his very successful tenure as the WWID Director in December 2003. I thanked Joe, Dan, and the other officers and associate directors for what they have accomplished in 2003 and 2004, including the first 2003 Water and Wastewater Instrumentation Symposium, ISA EXPO 2003 and 2004 technical session programming, and technical paper, tutorial and panel sessions at the 2004 Automation West Conference.

I also thanked the officers, associate directors and Members for all their efforts in WWID being named the 2003 Industries and Sciences (I&S) Department Most Improved Division. I, along with Director-elect Steve Valdez, will be working with WWID officers, Associate Directors and Members to continue the successful accomplishments of the Division.

As a Member of both the ISA Society Honors and Awards (H&A) and Admissions Committee, I encouraged WWID Members to consider nominating a friend or associate for a ISA Society H&A or Fellow grade. Articles were included in the 2004 summer newsletter on the ISA H&A technical and service awards and the proposed bylaws change to Fellow grade requirements for the ISA Delegates to consider at the Council of Society Delegates meeting at the ISA President's Fall Meeting in October 2004 in Houston, Texas.

I urged all Members, if possible, to attend ISA EXPO 2004 and visit the exhibits and WWID technical sessions. The WWID programmed technical sessions and held a luncheon at ISA EXPO 2004 in Houston.

We had a number of vacant WWID board positions, including treasurer, historian, H&A, publicity, section/division

liaison, education & training, and technical paper review. I requested volunteers for these positions to contact me in the 2004 newsletter.

Joe Provenzano continued to remind WWID Members that their efforts support one of the planet's most precious and critical resources, WATER, and that Members should be proud of what they do, as well as their association with WWID.

The WWID had a successful 2004 in continuing to improve service to its membership, and to improve its guidelines for an active and successful Division within the I&S Department. The WWID improved its Division Member services and operations. See the 2004 Division Member Service Performance Data form, 2006 Business Plan, and 2005 and 2006 Budget. A

summary of the primary WWID 2004 activities follow:

- Supported Division services.
- Prepared detailed summer newsletter on Web site.
- Supported programming.
 - Programming at ISA Automation West Conference (27 technical paper sessions, 6 tutorials, and 2 panels).
 - Programming two (2) technical sessions at ISA EXPO 2004.
 - Supported section/division liaison activities.
 - Provided Division Web site information .
 - Provided Division report submittals.
 - Submitted nominations for society officers and Fellow members.
 - Supported Division organization.

2006 WWID Division Business Plan

A. Plans for Accomplishment

1. Symposium & Conference Programming

- ISA Automation West Conference
- ISA ASD/TMD International Instrumentation Symposium (IIS)
- ISA EXPO 2006

2. Publications & Communications

- Summer Newsletter (Content)
 - Division Director and Director-Elect Messages
 - ISA EXPO 2006 Program
 - WWID Division Luncheon Information
 - ISA Fellows Award Information
 - ISA Honors & Awards Information
 - Three (3) Technical Papers/Articles
 - WWID Division Board of Directors List
- WWID Email List
- WWID Web site
- American Water Works Association (AWWA) Products & Events

3. Membership & Membership Services

- Summer Newsletter
- New Member Welcome Letters
- Certification Program Information

4. Honors & Awards Recognition

- Society Officer Nominations
- Fellow Member Nominations
- Technical Award Nominations
- WWID Member Awards
- Student Scholarship

5. Meetings

- President's Spring & Fall WWID Meetings (PSM & PFM)
- Standards Meetings (PSM & PFM)
- Cooperation with Machinery Failure Prevention Technology (MFPT) Society
- Director and/or Director-elect Participation in PSM & PFM Meetings
- Sponsorship of MFPT Society Meetings

Continued on page 3

Continued from page 2

6. Education & Training

- Certification Program Training Information in Newsletter
- Technical Papers and Articles in Newsletter
- Division Officer Training at PSM
- WWID Training at MFPT Meeting

7. Standards & Practices

- Standards Committee Review and Preparation of WWID Related Standards

8. Leadership Development

- WWID Officers Participation in PSM Training Seminar
- WWID Division Roster Filled

9. Special Projects

- Update WWID MOP
- Plan second WWID Symposium
- Award Student Scholarship

B. Areas for Improvements

1. Weaknesses

- Only Free Technical Papers and Articles to Members in Newsletter
- Participation in ISA Endowment Foundation
- Award of Student Scholarships
- Member Email List
- Section Programming
- WWID Recommended Reading List

2. Plans for Correction

- Offer Free Papers/Books/Proceedings in Newsletter

- Participate in ISA Endowment Foundation
- Award Student Scholarship
- Update E-mail List and Use It
- Program at Section Meetings
- Prepare Recommended Reading List

3. Objectives

- The 2006 primary plans for accomplishment and areas for improvements are provided in A, B1 & B2 above.

Respectfully Submitted,

Hank Hegner
WWID Director

Guidelines for an Active and Inactive Division

Active Division

1. Publish at least one newsletter per year. If the Division produces only one newsletter, it should be prior to ISA EXPO. The minimum Division Director newsletter/Web page input shall include the following:
 - Director's message for posting on the Division Web site summarizing all significant Division activity at ISA EXPO. Include a look forward to future Division plans including sessions planned for the next year's ISA EXPO.
 - A significant technical article for posting on the Web site.
 - Maintain up-to-date roster of Division officers, as required under item 2 below, for posting on the Division Web site.
2. Maintain a slate of officers
 - Director
 - Director Elect
 - Newsletter Editor and/or Webmaster
 - Program Coordinator, the Director and Elect can serve in this position if needed.
3. Program at least one session for the annual EXPO.
4. Officers participate in at least one president's meeting per year.

5. Prepare an annual business plan and budget.
6. Produce an annual report. This should be submitted prior to the President's Spring Meeting (PSM) and it helps in the consideration for Division Performance Awards.
7. Produce content for your Division Web site, including at least two (2) Director's messages per year.
8. Roster of at least 100 dues paying Members.

Inactive Division

1. After a two-year period of not achieving the above goals, a Division shall be declared inactive.
2. The Facilitator of an inactive Division shall inform the Division Members of the inactive status and request volunteers to assume officer positions. A generic newsletter shall be produced requesting leaders.
3. At the discretion and assignment of the I&S Department VP, the inactive Division shall become a committee of an existing active Division.
4. If the committee continues to be viable, a Division meeting the above criteria could be reformed. After a two-year period as an inactive committee, the Division, of which it is a part, may disband the committee.

ISA Society Honors & Awards

One of the best ways to honor your ISA peers is to nominate them for an ISA Society Award. ISA has a number of awards to offer both for technical contributions to the ISA world and for service to the society. Each year some awards are not presented. It is not because of the lack of qualified people, but because of the lack of nominations. Nominations will be due the first part of 2006. Therefore, take some time and think of someone you know who is deserving of ISA recognition, and then, nominate them. Go to www.isa.org and look under "Members & Leaders: Honors & Awards" for more information and nomination forms. Also, attend the Honors and Awards Banquet at ISA EXPO 2005 in Chicago.

Technical and Service Awards available include:

TECHNICAL AWARDS

Douglas H. ANNIN Award: The award is open to any person. It recognizes an outstanding achievement in the design or development of an automation control system from the input measurement through the final control element.

E.G. BAILEY Award: The award is open to any person. It recognizes excellence

Continued on page 4

Continued from page 3

in the design, development, or application in instrumentation and control systems in the utilities or process control industries.

Arnold O. BECKMAN Founder

Award: The award is open to any person. It recognizes a significant technological contribution to the conception and implementation of a new principle of instrument design, development, or application.

Donald P. ECKMAN Education

Award: The award is open to any person. It recognizes an outstanding contribution(s) toward education and training in the science, engineering, and technology of instrumentation.

Kermit M. FISCHER Environmental

Award: The award is open to any person. It recognizes an outstanding achievement in the conception, design, and/or implementation of an application of instrumentation and/or automatic control in the field of environmental science.

Albert F. SPERRY Founder Award:

The award is open to any person. It is the Society's outstanding achievement award and recognizes an outstanding technical, educational, or philosophical contribution to the science and technology of instrumentation.

Standards & Practices Award: This award is open to ISA Members only. It recognizes an outstanding contribution to the Society's Standards and Practices effort. This award is presented to recognize and stimulate individual accomplishments and contributions to Standards and Practices in instrumentation.

UOP Technology Award: This award is open to any person. It recognizes an outstanding achievement in the conception, design, or implementation of instrumentation and/or process control in an area of activity covered by the scope of the Society's Automation & Technology Department.

SERVICE AWARDS

Honorary Member: Honorary membership is the highest honor bestowed by the Society and is reserved for individuals (Members or Nonmembers of

the Society) whose support of, and/or contributions to, the advancement of the arts and sciences of instrumentation, systems, and automation are deserving of this special recognition.

Distinguished Society Service: This award recognizes Society Members who have at least fifteen (15) years of accumulated, devoted service and contribution to organizational units of the Society and its Members.

Golden Achievement: The award is open to any Member, any grade. It recognizes

long and continuous dedication to the Society and its ideals.

Life Achievement: The award is open to any Member, any grade. It recognizes individuals with a history of dedication to the instrumentation, systems, and automation community.

Don W. Thompson: The award is open to any person. It recognizes exemplary efforts and achievements to encourage and support Student Activity and to Mentor Students.

ISA Bylaws Change

The Council of Society Delegates controls the general policies of the Society through its powers to nominate and elect officers, to amend the bylaws, and to review the annual report of officers. Society Delegates fulfilled these duties when they met in Houston on 4 October 2004. The Council voted on an amendment to the ISA bylaws that deals with ISA Fellow requirements.

Because Members sometimes question the requirements for Fellow Grade, particularly the five years as a Senior Member requirement, the Admissions Committee that recommends to the Executive Board which Members should be admitted as Fellows decided on a full review of all requirements. The most significant change is requiring a Member be Senior Grade for an unspecified time. In current practice the nominee must have been an ISA Senior Member for at least five years.

The requirement of five years as a Senior Member prior to election to Fellow Grade has been a stumbling block for otherwise qualified Fellow candidates. The key to election has been, and will continue to be, possession of outstanding and acknowledged engineering or scientific attainments in a field related to Society objectives. The Admissions Committee determined that years-in-grade as a Senior Member does not impact one's engineering or scientific accomplishments and shouldn't become a barrier to consideration for Fellow Grade.

You must be a Senior Member to hold a society level office, including

District or Department Vice President, Society President, Treasurer or Parliamentarian. For Members attuned to the various levels of membership, they reflect career progression and level of expertise. ISA encourages Members to anticipate the next level of membership and apply for upgrade when applicable. To become a Fellow, you will need a nomination from another Member to assure your peers are recognizing you for your contributions.

The revised bylaws change is as follows:

What's a Fellow?

A Fellow is a Senior Member who meets the following criteria and has been elected by a majority vote of the Executive Board of the Society:

- Possession of outstanding and acknowledged engineering or scientific attainments in a field related to Society objectives;
- Senior Membership in the Society;
- Membership in the Society for at least five years;
- At least ten years of active work in a field related to Society objectives;
- Nomination by a Society Member;
- Recommendations by a minimum of five Members of Fellow, Life Fellow, or Honorary Member classes or alternatively, a combination of nine Members of Senior, Fellow, Life Senior, Life Fellow, or Honorary Member classes; and
- A recommendation of election by the Society Admissions Committee.



Technical Conference Session-at-a-Glance

Tuesday, 25 October by Industry Track

P = Paper Session, PL = Panel, T = Tutorial

10:00 a.m. - 11:30 a.m.	2:00 p.m. - 3:30 p.m.	3:45 p.m. - 5:15 p.m.
Automation & Control Strategies		
Advanced Control-Regulation - P Device Data Communication - P Process Data Quality: What it is, How to Know When you don't Have it, and How to Get it Back - T	Applications of Advanced Nonlinear Control - P Model and Modular Controls - P	Advanced Controls Applications - P Advances in Nonlinear Control - P
Emerging Technologies		
	Advances in Communications - P	Advances in Plant Operations and Control - P
Field Devices--Sensing & Measurement		
		Flow Measurement - P
Industrial Networking & Communications		
Ethernet I/O Panel - PL Integrating Industrial Networks and the Enterprise - P Wireless Practices - P	Data Sharing Across Networks - P Industrial Wireless in Plant Environment - P OPC and Unified Architecture - T	Device Data Communications - P Fieldbus Foundation and OPC Joint Activities Potential - PL Wide Area Applications of Wireless - P
Productivity & Asset Management		
Advanced Asset Management Tools - P Plant Optimization: Saving Energy through Advanced Automation - T	Asset Management Technology - P	Asset Management: Reaping the Rewards of Strategic Maintenance - T
Safety & Reliability		
ISA-SP84 - Guideline Development for S84.01 (IEC 61511) - PL	Safety in Hazardous Areas - P ISA-SP84 Separation under S84.00.01-2004 - P	ISA-SP84 Final Elements, Valves, Diagnostics & Testing - P ISA-SP84 Reliability and Availability - P
Manufacturing & Control Systems Security		
Update on Standards for Control Systems Cyber Security - P Cross Sector Interdependencies - P	Business Justification for Control Systems Cyber Security - P Separation as a Strategy for Control Systems Cyber Security - P	Threat Assessment of Control Systems and Networks - P Hardening of Control Systems Networks - P
Managing in Automation		
A New Force in the Controls Industry - The Growth of Independent Control and Information Systems - PL Teambuilding and Motivation - T	Developing Professionals - P	When is a Lead a Lead? Acquisition and Lead Conversion Strategies for the Industrial Markets - T

Technical Conference Session-at-a-Glance

Wednesday, 26 October by Industry Track P = Paper Session, PL = Panel, T = Tutorial

10:00 a.m. - 11:30 a.m.	2:00 p.m. - 3:30 p.m.	3:45 p.m. - 5:15 p.m.
Automation & Control Strategies		
Man-Machine Interface - P PID Controllers - P	Beyond PID Here Comes MFA - T Process Monitoring - P	Advanced Controls and Efficiency - P Innovative Defense Strategies for Securing Manufacturing & Control Systems - T
Emerging Technologies		
Advances in Manufacturing Automation - P		
Field Devices—Sensing & Measurement		
AD GTF Award Papers - P Valves/LDAR - P	Level - P Ultrasonic Flow - P	Field Devices - P Electromagnetic Flow - P
Industrial Networking & Communications		
Foundation Fieldbus Applications - P Security in SCADA Applications - P	Fieldbus Network Design - P Improvements in SCADA Communications - P	Factors Affecting Fieldbus Configuration - P SCADA Network Integration - P
Productivity & Asset Management		
Case Studies in Asset Management - P Prediction Based Diagnostics - P	Diagnostic Systems Integration - P	Economics of Asset Management - P
Safety & Reliability		
Safety Instrumented Burner Management - PL	ISA-SP84 Grandfather, FMEA Application, and Life Cycle - P ISA-SP84 Oil & Gas, Fluid Catalytic Cracking & Toxic Chemical Applications - P	ISA-SP18 Alarm Management and ISA-SP84 Burner Management under S84.00.01-2004 - P ISA-SP84 Compliance, Certification, and Proven Measurement - P
Manufacturing & Control Systems Security		
Integrating Control Systems Security into Existing Business Processes - P Status of Current Control Systems and Networks Security Technology - P		Future Trends in Controls Systems and Networks Security Technology - P Measuring the Effectiveness of Control Systems Cyber Security - P
Managing in Automation		
Project Management - P Technology and Intellectual Property - P	Managing Professionals - P	Industry Marketing - T

Technical Conference Session-at-a-Glance

Thursday, 27 October by Industry Track P = Paper Session, PL = Panel, T = Tutorial

10:00 a.m. - 11:30 a.m.	2:00 p.m. - 3:30 p.m.
Automation & Control Strategies	
Global Control Connectivity Solution - P	Automation in Discrete Manufacturing - T
Emerging Technologies	
Advances in Instrumentation - P The OPC Unified Architecture Delivers Secure Reliable Interoperability for Moving Data/ Information from the Factory Floor to the Enterprise - T	Best Practices in Designing Wireless Sensor Networking - T
Field Devices–Sensing & Measurement	
Flow - P Temperature - P	Analyzers - P Analyzers – Applications - P Analyzers/CEMS - P Hydrocarbon Custody Transfer - PL Pressure - P
Industrial Networking & Communications	
Fieldbus in the Automation Environment - P Industrial Network Protocols 1- P Web Based HMI's Panel - PL	Adapting Industrial Networks to their Application - P Industrial Network Protocols 2 - P
Productivity & Asset Management	
Maintaining Your Investment System Migration Techniques - P	Performance Management - P
Safety & Reliability	
Safety Equipment Applications - PLCs, Analyzers and O2 Sensors - P ISA-SP84 - Fieldbus Guideline for S84.01 - PL	ISA-SP84 - Future Guidelines for TR84.02-03 - PL
Manufacturing & Control Systems Security	
no sessions	
Managing in Automation	
IT in Control - P	Managing Technology - P

**Visit www.isa.org/isaexpo2005
for the latest Technical Conference updates!**

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Joint A&T and I&S Awards Luncheon at ISA EXPO 2005

Join us in honoring your Division colleagues at the Joint A&T and I&S Departments Annual Awards event, which will feature awards from each department. The luncheon will be held Tuesday, 25 October at 11:30 a.m. at McCormick Place Lakeside Center.

A&T and I&S Departments annual luncheon cost is \$34.00.

In addition, members from the WWID Division will join members of the ACOS Division for a luncheon on Wednesday, 26 October at 11:30 a.m. at the McCormick Place Lakeside Center; luncheon cost is \$26.00.

ISA EXPO 2005. Automation. Control. Inspiration.

- Batch/Discrete/Process Control
- Cybersecurity
- Data Acquisition
- Hard/Soft/Remote Sensing
- Instrumentation & Measurement
- Networking & Communications
- Predictive Maintenance
- Productivity & Asset Management
- Safety Systems & Equipment
- Standards & Regulatory Compliance
- Systems Integration
- Wireless Technologies

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