

SPEAKER

Mr. Samuel M. Herb, P. E. is presently Manager of Distributed Control Systems Marketing at Leeds and Northrup, North Wales, PA. He has worked in the utility and industrial process field for over three decades and his activities have spanned the range from design and use of sensors to microprocessor-based process control systems. Mr. Herb holds a B. S. in Electrical Engineering from Drexel University Evening College and has authored several technical papers. With Mr. J. A. Moore he co-authored the textbook **UNDERSTANDING DISTRIBUTED PROCESS CONTROL**. He is a senior member of the Instrument Society of America.

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DISTRIBUTED PROCESS CONTROL SYSTEMS

Instrument Society of America
Course T450



Sponsored by
Lake Area Industries/McNeese Engineering
Partnership

November 7, 8, 9, 1990
Stream Alumni Center

(Located at the corner of McNeese and Common
Streets)

McNeese State University Campus

DISTRIBUTED PROCESS CONTROL SYSTEMS

About the Seminar:

The participant will explore the concepts of distributed process control systems, as well as terminologies and relationships of distributed control to the architecture of traditional instrumentation. Several systems will be investigated to help explore various methods of execution. Learning these methods will aid in understanding what systems might be of benefit to your company. Although the participant will analyze some specific manufacturers' equipment, every effort is made to provide a comprehensive overview of the available systems and their applications.

Intended Audience:

Engineers, purchasing agents, managers, technical support personnel, and sales representatives. Some familiarity with automatic control is recommended.

The seminar is limited to 40 attendees.

Seminar Fees:

\$200 per individual for members of the Lake Area Industries/McNeese Engineering Partnership.

\$500 per individual for non-members.

Seminar fees include registration, ISA class materials, lunch each day of the seminar, and refreshments.

Make checks payable to M.S.U. Foundation, Account No. 0123.

PROGRAM

SCHEDULE

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|-------------|-----------|--------------|
| ● Wednesday | 8:00-8:30 | Registration |
| ● Wednesday | 8:30-4:00 | |
| ● Thursday | 8:00-4:00 | |
| ● Friday | 8:00-3:00 | |

TOPICS

- Control Room Philosophy-Operator Interface Needs
- Controlling Functions and Process Needs
- Role of Microprocessors and System Hierarchies
- Some Schemes of Controller Designs
- An Explanation of Control Theory and Strategy With the Relationship to Configuration of System
- Configuring Loop and Signal Flow
- Discussion of Various Distributed Control Systems
- Operator Station Functions: Keyboard Operation and Displays
- Configuring the Operator Station to View and Manipulate Loops
- Interconnections and Highways, Problems of Standardization
- Role of Computer and Computer Interface
- System Security, Recordkeeping, Reporting, and Add-ons
- Comparisons of Approaches to System Structures and Selection
- Influence on Plant Management
- Role of Artificial Intelligence