



Setting the Standard for Automation™

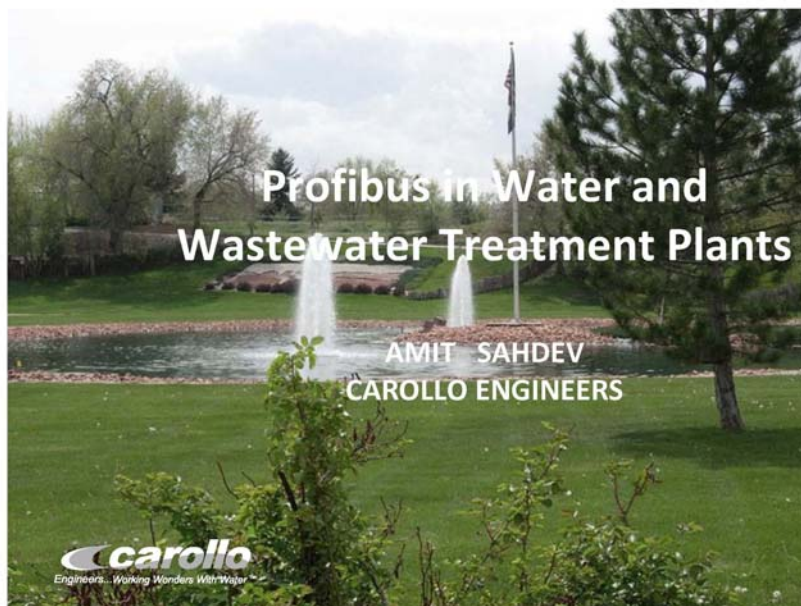
ISA is a nonprofit organization that helps its 30,000 worldwide members and other automation professionals solve difficult technical problems, while enhancing their leadership and personal career capabilities.

Profibus in Water & Wastewater Treatment Plants

Amit Sahdev, *Carollo Engineers*

Tuesday Night December 13, 2011

Brooklyn's Restaurant @ Sports Authority Field



2644 W. Colfax Ave.
Denver, CO 80204
(303) 572-3999

5:30pm - Registration
6:30pm - Dinner
7:15pm - Presentation

Only \$15.00 for Members
& \$20.00 for Non-Members

Please RSVP by 12/09/11 to :
rsvp@isadenver.org
Or Call : (303) 853-3970

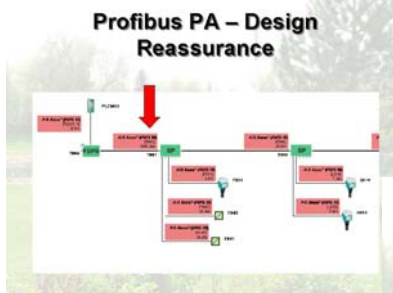
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Profibus – Digital Network

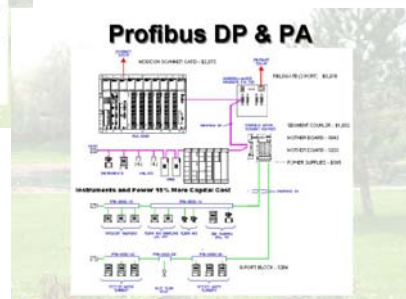
- Two-way digital communication system
- "LAN" for instruments
- Two types of Profibus
 - Profibus DP – Decentralized Peripherals
 - Faster communication
 - Direct communication with PLC
 - Profibus PA – Process Automation
 - Sub network to Profibus DP
 - Also used to power instruments
- Open Protocol System
- Regulated by PTO – Profibus Trade Organization



Profibus PA – Design Reassurance



Profibus DP & PA





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Summary:

The presentation will discuss the use of Profibus fieldbus technology as applied to water and wastewater treatment. Actual design references will be provided and the presentation will revolve around the practical implementation of the fieldbus and will discuss related issues.

Presentation Discussion Points:

1. Design overview (Unmanned sites, reduces plant downtime, improves plant operations and efficiency, minimizes field wiring)
2. Profibus DP/PA Guidelines (Digital two-way network, Decentralized peripherals, process automation,
3. Profibus vs Analog (High speed, more capability like diagnostics than 4-20ma, single cable communication)
4. Additional Information over Profibus (Valves, Pressure Transmitters, flow Meter, Level sensing)
5. Smart MCCs (Parameters available, motor starters, FVNR, NFDs etc)
6. Plant Design Example-City of Fort Collins
7. Lessons Learned (Don't trust anyone!, vendor sales pitches, usefulness, not plug and play)

Speaker Bio:

Amit Sahdev – Carollo Engineers

MS Electrical Engineering, CSU Long Beach, 2007

BE Instrumentation Technology, India 2003

The speaker has more than 4 years of experience in instrumentation and control systems design, construction support services and development of control strategies. He has worked for Jacobs Engineering and has worked on-site at British Petroleum's Carson, CA petrochemical refinery and is currently working with Carollo Engineers in the capacity of an instrumentation and control system engineer.

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