



TRANSDUCER

FEATURE EVENT:

Section Meeting –
Wednesday, April 16, 2003
⇒ All invited, including non-members! ⇐

HVAC Control of Critical Environments



Speaker:

Kent B. Silveria, Northeast Regional Business Manager – Voltec, Inc.

Introduction to creating specific Control System design criteria early in a project, the importance of selecting proper instruments / controllers / software to achieve this criteria, and methods to test and verify design criteria has been achieved for typical cGMP validated environments and all other mission-critical HVAC applications. Presentation will cover:

1. Establishing meaningful Environmental HVAC Design Criteria.
2. Selecting proper controllers and instruments with accuracies to achieve design criteria.
3. Discussions of space pressurization control techniques used in critical HVAC applications.
4. Demonstrate a Dynamic Live Computer Simulation of Active Pressure Control and discussion of mechanical design effects.
5. Cost Analysis of various pressurization techniques with advantages and disadvantages of each.
6. Control Loop Tuning Methods & Concepts.
7. Instrument Calibration Equipment and their significance.
8. Commissioning/Validation Support Documentation and Services.

For nearly 20 years, Kent B. Silveria has been active in many facets of HVAC control systems including system architectural design, software control strategies, budgeting, and field project management responsibilities. Voltec is a HVAC control systems manufacturer specializing in the design of pharmaceutical, biotechnology, and other facilities with mission-critical applications. Mr. Silveria seeks new opportunities and manages existing customer relationships for Voltec through his Consulting Engineering and Owner contacts throughout the Northeast region. He is also liaison for overseeing project management and field engineering for regional clients and Voltec's corporate headquarters in Duquesne, PA. Previously, Mr. Silveria has been Account Manager for Honeywell's H&BC Division office in S. Plainfield, NJ; an Energy Management & Control System Engineer (EMCS) for CUH2A Inc., Princeton, NJ; and Systems Account Engineer and Service Engineer for Siemens in PA. Mr. Silveria authored a feature cover article in the January 1992 issue of Consulting Specifying Engineer Magazine titled, "The New EMCS Generation has a Lot to Offer". The article technically described pneumatic control systems and Energy Management & Control Systems using Direct Digital Controls, showing advantages and disadvantages for both types of systems, along with integration techniques with other building systems, and future technology advancements at that time. Mr. Silveria holds a B.S. degree in Mechanical Engineering from Bucknell University, and is presently a member of the International Society of Pharmaceutical Engineers.

DATE & TIME: Wednesday April 16, 2003; social at 6 PM; presentation at 7 PM .
Food & drinks will be provided during social time prior to the presentation.

LOCATION: Siemens Offices (look for large sign on outside of building),
1015 Virginia Drive, Fort Washington, PA (West of Honeywell)

DIRECTIONS: PA Turnpike Exit 26 (Fort Washington at Route 309), follow signs over several streets toward Expo Center, also on Virginia Drive; From Trnpk/309, will be on right prior to Expo Center/Honeywell; from Susquehanna Rd/Limekiln Pike, will be on left after them. **Easy pass exit** at Virginia drive now in operation! [Westbound only]

Also: Get map from our website

COST: A modest \$10.00 for a commonsense light meal, but plenty for "seconds."
If eating, please register by Monday, April 14th, by calling Lynn Swan at Advanced Controls: Phone: (215) 674-4777
E-mail: <mailto:ace1afp1@aol.com>

NOTE: Also see Philadelphia Section Website: <http://www.isa.org/~phila/phillyisa/index.htm>

To remember how to find us at any time: Just merely go to [www.isa.org], select [sections], then [Philadelphia]

ALSO: Type "philadelphia isa" into any major search engine, such as GOOGLE and we are the first or second entry that appears!

⇒ Copy this notice for posting at your company; pass it on to anyone else you feel is interested! ⇐