



International Society of Automation
Cleveland Section

Setting the Standard for Automation™

FEBRUARY PROGRAM

Wednesday, February 21, 2024

Social: 5:30 – 6:00 PM

Dinner: 6:00 – 7:00 PM

Program: 7:00 – 8:00 PM

**Synchronous Motor Operations
Extraction Methods and Diagnostic Techniques**

**Don Brown, P.E.
Electrical Process System Manager
Large Motor Controls**

Technical Development Hours: 1 PDH.

About the Topic:

Our program will focus on industrial synchronous electric motors, how to start, control and excite this type of motors. In addition on line condition based monitoring (CBM) of Large HP Synchronous Electric Motor diagnostic techniques (Motor Circuit Evaluator MCE, infra-red thermography, and vibration analysis) can be used to detect the early onset of problems. It will be shown how this technique lends itself to prescriptive maintenance techniques.

About the Speaker:

Don Brown, PE, is a lifelong resident of northeastern Ohio, and graduated from Fenn College of Engineering of the Cleveland State University BEE class of 85. Don is also a registered engineer (PE) in the state of Ohio. He has worked at Cleveland Machine Controls, and United States Steel Lorain Works prior to working at the NASA Glenn Research Center for the past 35 years in the Facilities Division. He is currently the Electrical Process System Manager responsible for the Large Electrical Motors, and associated motor control systems, and emergency and backup power supply systems including UPS systems and Generators. He is also responsible for managing the Variable Frequency Power system located in the Glenn Research Center Engine Research Building. As a system manager, Mr. Brown spearheaded numerous projects to implement solid state excitation systems, automate the variable frequency power system, and monitor and control the Power demand via automatic power factor controls to aid with overall Glenn Research Power demands while supporting the research customers.

Mr. Brown has also been very active in the International Society of Automation and Control by serving as the local Cleveland Section education chairman, secretary, president, national delegate, and on several power division standards committees over his 25 years of membership. He has presented several papers on topics such as Solid State Excitation Control for Synchronous Motors, Using Synchronous Condensers for automatic power factor control, and online condition monitoring of electrical motors at the ISA at various national symposiums and section meetings.

ISA Cleveland Section Agenda

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Presentation: 7:00 – 8:00 PM

Location: Tavolo 72 and Microsoft Teams

Tavolo 72 is located in the lower level of the Crowne Plaza Hotel, 7230 Engle Road, Middleburg Heights, 44130. Phone 440-243-4040. If you do not have Microsoft Teams installed on your device, you may download Microsoft Teams [here](#).

Cost: Dinner: Individual Checks from Menu. No charge for downloading and use of Microsoft Teams.

Menu: Tavolo 72 menu

Meeting Recording: For archival purposes, this program may be recorded and be made available for later viewing.

Reservations: Please make your reservation with your name, email address, and indicate in the comments if you need to attend virtually via Microsoft Teams. A link will be sent to you after the close of reservations. Please make your reservations at ISAcle.org no later than 5:00 pm on Monday, February 19th. Late reservations, please call 440-668-6165.