March 2015 Calendar

Technical Societies Council Officers
President: Art McKinnon (BEAM)
Vice President: Al Ker (ASME)
Treasurer: Frank Kizilk (AIChE)
Secretary: Jim Schraven (ASQ)

TSC website – www.eng.buffalo.edu/tsc/

Calendar of Upcoming TSC Activities:
- Monday, March 9, 2015 at 6:00 PM:
  TSC Delegate's Meeting, UB @ Davis 208
- Wednesday, March 18, 2015 at 6:00 PM
  TSC Joint Meeting
  All members of all Societies (Salvatore’s)
- Monday, May 11, 2015 at 6:00 PM:
  TSC Delegate’s Meeting, UB @ Davis 208

TSC Members

ABCD  Association for Bridge Construction and Design
ACEc of WNY  American Council of Engineering Companies
AFE  Association for Facilities Engineering
AIChE  American Institute of Chemical Engineers
APICS  Association for Operations Management
APWA  American Public Works Association
ASCE  American Society of Civil Engineers
ASHRAE  American Society of Heating, Refrigerating and Air Conditioning Engineers
ASM  The Materials Information Society
ASME  American Society of Mechanical Engineers
ASQ  American Society for Quality
AWMA  Air & Waste Management Association
BAPG  Buffalo Association of Professional Geologists
BEAM  Buffalo-Area Engineering Awareness for Minorities
CHMM  Certified Hazardous Material Managers
CSI  Construction Specifications Institute
ESB  The Engineering Society of Buffalo
IEEE  Institute of Electrical and Electronic Engineers
IES-Buffalo  Illuminating Engineering Society of Buffalo New York
ISA  International Society of Automation
ITE  Institute of Transportation Engineers
NACE  NACE International, the Corrosion Society
NYSATE  New York State Association of Transportation Engineers
NYSSPE  New York State Society of Professional Engineers
SME  Society of American Military Engineers
SWE  Society of Women Engineers
UBAEAsA  UB Engineering & Applied Sciences Alumni Association
VINF  Vibration Institute, Niagara Frontier

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IEEE - Institute of Electrical and Electronic Engineers

Topic: IEEE WNY Consultants Network
Meeting ("Your net worth is your Network")
Date: March 9th 2015
Time: 6:30 PM
Location: Pairings Restaurant
5893 Main Street
Williamsville, NY 14221.

Speaker Information: The speaker will be Bill Knoche, Effective Communications and Sales Coach for over 37 years. Bill Knoche, will reveal his BIGGEST secret for driving your business sales through the roof ... and it's not what you think!

Cost: None, wine and food available from the menu at attendees cost

Contact for reservations:
VonHeckler@aol.com

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CSI Buffalo/WNY

Topic (or Tour): Reflective Roof Coatings
Date: March 12, 2015
Time: 12:00pm
Location: Ramada Hotel and Conference Center, 2402 North Forest Road, Getzville, NY 14068

Speaker Information: Bruce Werner, Sherwin-Williams for Uniflex

Cost: Free for CSI members; $10 for non-members

Contact for reservations:
dpezzimenti@conexbuff.com
**TSC Joint Dinner Meeting**

**Topic:** The Collaborative Human-Robot Team, The New Work Force

**Date:** Wednesday, March 18, 2015

**Time:** Cocktail social hour starts 5:30 pm  
Cash Bar, Dinner at 6:30 pm

**Location:** Salvatore's Italian Gardens  
6461 Transit Road, Depew, NY

**Speaker Ron Brown... See bio below.**

**Speaker Information**
Competitive pressures drive industry to continuously innovate and develop new products and processes. Today, more than ever before, companies are integrating robots to help meet these challenges. Robot manufactures are relentlessly developing new robotic capabilities to meet the demand for innovation.

"The Collaborative Human-Robot" is one of the new class of robots that is just now coming out of the laboratory onto the factory floor. Until now robots required costly safety guarding to protect humans. The collaborative robot has no safety guarding but rather new technology to make it safe for humans to be in the same proximity as the robot. This allows humans to work alongside the robot as a team. In this team the robot would be assigned tasks that are tiresome or repetitive while the human would concentrate on tasks that require dexterity or ingenuity.

We will explore some of these new safety technologies and some of the current and potential applications of the Collaborative Human-Robot Team.

**Cost:** $30 per person members  
$35 per person non-members/guests

**Credits for Education:** 1 PDH, pending

**Contact for Reservations:** Each individual society collects reservations for its group and calls them in with entrée selections no later than 3/16/15 to Frank Kizlik, TSC Treasurer, at 773-1652 or fjkizlik@roadrunner.com; slight adjustments to above number can be made and called in no later than 3/16/15 (Final count deadline). Each organization will collect their own monies and provide a check (or cash) to the TSC treasurer on the night of the dinner. As a reminder, if member of more than one society of TSC, just reserve thru one please

**ASQ contact:** asqbuffalo0201@gmail.com

**ASM Contact:** Stan Biernat,  
sbiernat@moog.com,  
or Jayne Spanos  
jayne.spanos@materion.com

**Entree Choices:** Chicken Parmigiana / Penne alla Roma / Poached Salmon / Prime Rib 10oz

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**TSC Joint Meeting Speaker**

![Ron Brown](image)

Ron Brown  
Technology Leader, Flexible Automation & Controls

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**INDUSTRY FOCUS**
Throughout his 39-year career in systems engineering, product engineering, and research and development, Ron Brown has played a significant role in a variety of successful industry initiatives. As EWI's Technology Leader of Flexible Automation and Controls, he focuses on delivering effective and innovative solutions for his clients' manufacturing automation challenges. His deep understanding of automation technologies is based upon his involvement and leadership in the engineering and integration of assembly and manufacturing automated systems for American automobile and consumer product manufactures.

**TECHNICAL EXPERTISE AND PROJECT EXPERIENCE**
Ron has extensive experience leading cross-functional teams with comprehensive responsibility for product concept, planning, cost, manufacturing, testing/validation, commercialization, and launch. Prior to his role as Technology Leader he served as EWI's
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Business Development Manager for Automotive and Advanced Energy. Before joining EWI, he owned a consulting firm that specialized in engineering and product design for weld monitor products. Ron gained broad managerial experience earlier in his career through positions as VP of Engineering and General Manager for a manufacturer of weld process-monitoring systems, and as VP of Engineering, Research and Development for an automated systems original equipment manufacturer serving Fortune 500 companies.

EDUCATION
A.S.M.E. Mechanical Engineering, Keene State College
B.S. I. E. Industrial Education, Keene State College

PATENTS
U.S. Patent 6,903,299, "Resistance Welding Tip Assembly"
U.S. Patent 6,573,470, "Weld Gun Heat Removal"
U.S. Patent 6,359,249, "No-Wat Welding System"

Vibration institute, Niagara Frontier
Topic: 2015 Regional Vibration Institute Training Conference
Date: April 30 (Thurs) & May 01 (Friday)
Location: Peek’n Peak Resort Hotel
1405 Olde Road
Clymer, NY 14724
(716) 355-4141

Location Description: Peek’n Peak is an all-seasons resort located approximately 30 miles from Erie PA International Airport (ERI). Visit www.pknpk.com for more information about facilities & amenities of Peek’n Peak.

DAY #1
8:00 - 8:30 am Welcoming Address
David A. Corelli, President, The Vibration Institute
8:30 - 10:00 am Vibration Analysis of Induction, Synchronous & DC Electric Motors
Nelson Baxter, PE (ABM Technical Services)
10:30 - Noon High Frequency Data Acquisition & Analysis
David A. Corelli (PCB Piezotronics, Inc)
Noon - 1:00 pm Lunch (provided)
1:00 - 2:15pm Stories about Working with Art Crawford
Robert J. Sayer, PE (Applied Structural Dynamics)
"The Art of Troubleshooting" Video containing interviews with and captions of lectures & presentations by Art Crawford
2:45pm - 5:00pm Case Study Presentations
Field Balancing of Bowed Steam Turbine Rotor
Stanley Bognotz, PE (M&B Engineered Solutions)
Vibration Analysis of Multiple Pump Problems
Bob Morgenstern & Jay Marchi (ProPump Services)

DAY #2
8:00 - 10:00 am The Practical Application of Signal Processing Nelson Baxter, PE (ABM Technical Services)
10:30 - Noon Vibration of Induction Motors Operating with VFD Drives
Mikhail Tsypkin (Vibration Specialty Corporation)
Noon - 1:00 pm Lunch (provided)
1:00 - 3:00pm Case Study Presentations
Integrating ODS Models, Vibration Analysis & Lubrication Parameters to Improve Rolling Mill Reliability
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Bill Stan (Stan Engineering & Analysis)
Using Principals of Time Waveform, Frequency
Spectra &ODS Analysis to Solve a Fan Vibration
Problem Robert J. Sayer, PE (Applied Structural
Dynamics)
3:30pm - 5:00pm Vibration Analysis of Centrifugal
Fans
Robert J. Sayer, PE (Applied Structural Dynamics)
Attendees are responsible for making their own
room arrangements. A Special Room Rate of $99 is
available for this training conference. Call Peek’n
Peak Reservations (716) 355-4141 and mention
the Vibration Institute when making your room
reservation.

CERTIFICATE OF ATTENDANCE:
A certificate for 16 PDH will be provided upon
completion of the training conference.

REGISTRATION: Register on-line @
http://bit.ly/1BgoNRK
or at Upcoming Events on the VI website
(www.vi-institute.org)
or Send registration form & payment to:
The Vibration Institute
2625 Butterfield Road, Suite 128N
Oak Brook, IL 60523

COST
Vibration Institute Members $295
Case History Authors $150
Non-Vibration Institute Members $350
Faculty & Students $100

AWMA- Air & Waste Management
Association

Topic: Erie County DEP Speakers Bureau
The Erie County Department of Environment
and Planning, as part of an enhanced outreach
effort, offers a variety of program presentations
for local organization meeting speakers. The
Department is making these presentations and
presenters available in order to increase
awareness of the County role in economic
development, local planning and the
environment. Topics include Brownfield
Redevelopment, Household Hazardous Waste,
Business Sustainability, Stormwater Pollution
Prevention and the Greenway Funding
Process The attached link connects you to the

Erie County Department of Environment and
Planning Speakers Bureau listing which
includes topics and staff contact information.
http://www2.erie.gov/environment/index.php?q
=speakers-bureau

VINF- Vibration Institute, Niagara
Frontier

Course: Practical Aspects of ODS & Modal
Analysis Testing
Location: The Conference Center, Niagara
Falls, NY
Dates: April 27 - May 1, 2015 (Mon. – Fri. noon)
Aug 31 – Sept 4, 2015
Instructor: Tony DeMatteo, 4x Diagnostics,
LLC
Price: $1700 Discount Hotel Rate
Special Hotel Rate Available!

Course Description:
This 4.5 day course teaches students how to
do ODS and Modal Analysis testing using
ME’scope software. After completing the
course you will be familiar with the use of
ME’scope software, the process involved in
ODS and Modal testing and the types of data
that must be collected. Each student will
complete several ODS & Modal projects during
class.

Course Outline:
1. The decision making process – what goes into
planning ODS and Modal
testing.
2. Making ODS and Modal measurements (analyzer
specific information may be
available for your analyzer).
3. Using ME’scope software (drawing structures,
numbering points, importing
data, shape tables, animating the structure, curve
fitting).
4. Interpreting ODS and Modal Analysis results.
5. Documenting test results.
Join us in Niagara Falls, NY for Operational
Deflection
VINF - Vibration Institute, Niagara Frontier

Course: ME'scope VES Advanced Drawing Workshop Course Information:
Join us in Niagara Falls, NY for the ME'scope VES Advanced Drawing Workshop.
Course name: ME'scope VES Advanced Drawing Workshop
Location: The Conference Center, Niagara Falls, NY
Dates: June 16 – June 19, 2015 (Tuesday – Friday noon)
Instructor: Tony DeMatteo, 4x Diagnostics, LLC
Price: $1450
Special Hotel Rate Available!
Course Description:
This 3.5 day course will improve students ability to draw advanced structures using ME'scope software. After completing the course you will be familiar with ME'scope structure drawing techniques, tips, tools and animation methods. Each student will be working with examples from several real job case histories from a variety of different industries.

- Improve your ability to draw advanced structures in ME'scope software.
- Emphasis on ME'scope structure drawing techniques tips and tools.
- Working with examples from real job case histories from a variety of industries.

For a course flyer, registration form and additional information about Niagara Falls hotels and attractions visit www.4xdiagnostics.com and click on the Training Tab or contact:
AJ
Technical Consulting Manager
585-820-8039
ajd@4xdiagnostics.com