

MEMSA 2010 Annual Meeting and Technical Symposium, September 8,9,10, 2010

Wednesday, September 8, 2010

7:30AM **Meeting Check in and Registration Open**

9:00AM - 11:00AM **Exhibits Open**

9: 50AM – 10:00AM **Welcome-Meeting, Opening by MEMSA President Steve Rudolph**

Steve is the Account Manager for Progress Energy's South Central Region. He has served in various engineering positions in central Florida for over 30 years.

10:00AM - 10:50AM **Green Peak Energy Savings for Excavators**

Presented by Mr. Walter Koellner of Siemens Industry, Inc. Mr. Koellner is a field leader in excavator and AC drive design and technology. This paper will explore ways to save energy by exploiting the energy peaking present during the operation of excavators.

11:00AM - 11:50AM **Florida Utility Incentives for Industry**

Presented by Mr. Steve Rudolph. Steve's paper will discuss Florida Utility Incentives for Industry - A review of the rebates available from Florida electric utilities for energy conservation measures. Steve is the Account Manager for Progress Energy's South Central Region and is the MEMSA President 2010. He has served in various engineering positions in central Florida for over 30 years. Steve is the recipient of the Pinnacle Award, Progress Energy's highest employee honor. He holds a BSEE from University of Arkansas. Steve is a longtime member of MEMSA.

12:00PM - 12:55PM **Lunch Buffet**
Lunch buffet is included for registered technical session attendees and registered trade show booth holders.

1:00 PM - 1:30 PM **Practical Safe Use of Meters, Procedures and Safety Concerns**

This presentation is by Mr. John Balasis of Penn Pro Engineering Services. John is an Electrical Engineer with forty years of engineering and mining experience. John has a BSEE from Bluefield State University in Bluefield, WV. His presentation will demonstrate safe field procedures using electrical test meters along with some graphic results of what happens when safety is neglected, ignored, or just overlooked.

1:30 PM - 3:30 PM **Safety Presentations and Forum with Mr. Ben Hart**

Mr. Ben Hart, MEMSA Director of Safety, will chair the safety forum and presentations. Ben is Manager of Florida Mine Safety, Florida Department of Environmental Protection and is a Certified Mine Safety Professional (CMSP), and the first in Florida to be certified January 2000. Ben is a much sought-after presenter at many state, regional, and national safety conferences & seminars. Ben is founder of the Annual Florida Safety, Health, and Environmental Conference that attracts speakers and attendees from many parts of the Southeast, becoming a major influence in safety and health in the state of Florida.

4:00 PM - 7:00 PM **Hospitality Suite and Networking Session Open**

The sponsored hospitality Suite will open at the conclusion of the safety forum and presentations. Sponsored by Flanders Electric, Siemens Automation-Mining, Drives & Control Services, and Tampa Armature Works, everyone is invited to attend this great networking opportunity. Finger food and refreshments will be served. Mixed drinks will be from a cash bar. This a great networking opportunity to visit with friends.

Thursday, September 9, 2010

7:00 AM - 8:30 AM **Registration Desk Opens**
8:00 AM - 8:05 AM **Opening Remarks and Welcome: President Steve Rudolph**

Steve Rudolph, MEMSA's 2010 President, is the Account Manager for Progress Energy's South Central Region. He has served in various engineering positions in central Florida for over 30 years. Steve's a long time member of MEMSA.

8:05 AM - 8:55 AM **Keynote Address Mr. Timothy Sullivan, President and CEO of Bucyrus International**

8:30 AM - 10:00 AM **Spouse Breakfast at Rusty's For Registered Spouses**

Registered Spouses or Registered Significant Other, Your Breakfast Voucher and Name Tag is Required. There will a be drawing for door prizes

9:00 AM - 9:50 AM **Automating Mining Equipment Issues, Successes, and Challenges**

Paper is presented by Mr. Curtis Stacy. Curtis is Manager of Flanders Electric advanced Products Group. He has more than 18 years in the mining industry serving coal, copper, gold and iron mining. Expertise in mining machine control systems including electric rope shovels and blast hole drills. Curtis is lead developer of the ARDVARC drill control system, the world's first fully autonomous drill control system. Currently Curtis manages Flanders Electric's mining technology research and development; focusing on customer driven solutions to common mining problems.

9:50 AM - 10:00 AM **Coffee Break (Sponsored), Exhibits Are Open**

The exhibits will open again at this time. Please visit the exhibit booths and all the sponsors.

10:00 AM - 10:55 AM **Advances in Synchronous Motor Excitation and Operation**

Presented by Mr. Bill Horvath with TMEIC_GE. Bill will discuss the operation and control of synchronous motors often a misunderstood staple of the electrical and mining industry. He will present some new and high tech methods for excitation control. Bill is a Senior Application Engineer for TMEIC GE Automation Systems in Roanoke, Virginia, USA. He selects and applies variable speed drives solutions to a wide variety of industrial processes, including cement, mining processing, mining excavators, rubber, plastics, and utility balance of plant systems. Bill gained his drives and systems application engineering experience with General Electric at a variety of USA locations since joining them in 1969. Bill He has been closely involved with surface mining applications and excavators since 1977 and has been a member of MEMSA for many years.

11:00 AM - 11:50 AM **Collector Rings and Brush Issues With Synchronous Motors, Wound Rotors Motors and Turbine Generators**

Presented by Mr. Rich Hall. Carbon brushes are commonly used on DC or AC applications such as commutators and slip rings. Slip ring applications have been widely used on high speed turbine generators, slower speed synchronous motor/generators and wound rotor motors. This presentation addresses the common modes of failure for carbon brushes and slip rings and the root cause analysis for these failures. The intent of this paper is to assist the technician with the evaluation of the slip rings and carbon brushes in order to reduce maintenance cost and increase uptime. Rich Hall graduated with a Bachelor of Science in Mechanical Engineering from Pennsylvania State University. He began his career with General Electric in Erie, PA in the design engineering group working on direct motors and generators used on draglines, shovels and blast hole drills for the mining industry. Rich moved to General Electric's Carbon Products Operation as an application engineer for carbon brushes used in the mining, steel, power generation, paper and other industries, and continued in that function after the purchase of Carbon Products by Morgan Crucible. Rich has participated in the mining organizations such as the Open Pit Mining Association and MEMSA for nearly forty years.

12:00 PM - 1:00 PM **Lunch Buffet**

Lunch buffet is included for registered technical session attendees and registered trade show booth holders.

1:00 PM - 1:50 PM **Recommended Routine Maintenance and Testing of Microprocessor Protective Relays**

Presented by Mr. Craig Wester. Craig will present new recommended methods for testing modern IED microprocessor protective relays. He will cover annual recommended testing and discuss how the modern protective relays have changed the landscape with accuracy and increased reliability. Craig Wester is the southeast US regional sales manager for GE Digital Energy Multilin in Norcross, Georgia. Born in Belgium, Wisconsin, Craig received a B.S. in Electrical Engineering with a strong emphasis on power systems from the University of Wisconsin-Madison in 1989. Craig joined General Electric in 1989 as a utility transmission & distribution application engineer. He is a member of the IEEE.

2:00 PM - 3:00 PM **Trips and Faults Effectuated by Voltage Dips Caused by Widely Varying Loads**

Presented by Mr. Wayne Hartman from Power Secure Corporation. Wayne Hartman is Vice President of Marketing for PowerSecure. He provides Customer and Industry linkage for Interactive Distributed Generation, SmartStation and other grid optimization solutions to Utilities and large power users. Wayne has been application, sales and marketing management capacities with General Electric, Siemens Power T&D and Alstom T&D. During the course of Wayne's 25+ years in the Industry, his focus has been on the application of power automation systems for energy production, transmission, distribution and utilization. He is a Senior Member of the IEEE and serves on the Power System Relaying Committee as a Main Committee Member and is Chair Emeritus of the Rotating Machinery Protection Subcommittee ('06- '09). and has contributed to numerous IEEE Transactions, Tutorials, and Guides, as well as guest lecturing at various IEEE PES/IAS local chapters. He is also an author/editor for McGraw- Hill's "Standard Handbook of Power Plant Engineering, 2nd Ed."

- 6:15 PM - 7:00 PM **Cocktail Social Hour Sponsored by MEMSA**
- All Full Session and Banquet Registered Attendees, Complementary Wine, Domestic Beer, and Soft drinks, Cash Bar for Other Drinks. Wear Your Badge.
- 7:00 PM **Banquet Dinner**
- Banquet For all Fully Registered Attendees and Those That Have Purchased tickets for the banquet.
- 8:00 PM - 9:00 PM **Special After Dinner Speaker Tim Williams From Gatorland.
"Dean of the Alligator Wrestlers"**
- "Fun With Tim and Friends". Tim Williams will educate you and entertain you with his assortment of "critters". Tim is the "Dean of Alligator Wrestlers" from Gatorland in Kissimmee, FL. For over 30 years, Tim and his many critter friends have entertain and educated with appearances on Good Morning America, The Jay Leno Show with alligators and many other critters. Show, the Today Show among others. Tim is truly a legend in the land of the reptile!
- 9:00 PM - 11:00 PM **Hospitality Desert Bar**
- Desert Bar and Hospitality. After dinner hit the sugar with deserts of all kinds. Music, beer, wine sponsored. A cash bar for mixed drinks. A great after dinner evening.

Friday, September 10, 2010

- 7:30 AM **Off Site Golf Tournament**
- Please check the MEMSA web site for more information and course site.