

Southwind

VOLUME 18 ISSUE 2

2nd QUARTER 1999



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Electric Motor Repair Shops
for Co-operative
Self-Improvement

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The President's Column

I would like to take this opportunity to introduce myself as your current Southeastern Chapter President, and the last President (*time flies!*) to serve a full term in the 20th century. My goal in this particular column is to bring you up to speed on what has recently happened in our chapter, and to let you know about the many activities planned for the near future.

1999 Spring Technical Forum, April 22-24, 1999 — Greenville, SC

Many thanks go to co-chairmen Vice President Shawn Venable, and South Carolina State Director Charles Wilson, for their work in putting together an excellent forum. "Position and Drive your Company into the 21st Century" was the appropriate theme for the servo-based training seminars and plant tours.

Originally planned for 50 attendees on Thursday only, the Baldor servo seminar attracted so much interest that a second seminar was scheduled for Friday as well to accommodate overflow registrations. In addition to lessons in servo operation and repair theory, Baldor also had several servo equipment stations set up so that attendees could get practical, hands-on experience in disassembly and diagnosis of common servo problems. Thanks to the Baldor staff for their hard work in squeezing their normal servo course material into our 1-day time slot. Course evaluation by attendees was consistently positive.

A common suggestion made by some attendees was for the chapter to offer an expanded version of the servo course some time in the future. This request has been forwarded to our new Southeastern Chapter Training Committee, appointed as a standing committee during the Greenville forum. Read more about this committee and its mission later in this column. Also look for information about upcoming training opportunities included in this issue of *Southwind*.

Friday's schedule included a full day of plant tours to the BMW auto plant, GE Gas Turbine, and National Carbon. The new, modern BMW auto assembly plant for worldwide Z3 roadster production certainly had a large number of servos in action, but I was surprised at the amount of hand fitting and assembly that BMW still considers necessary to meet their quality standards. As Chapter President, I was fully prepared on behalf of the membership to accept a loaner Z3 for evaluation during the next year. However, I can only assume that some snags in the paperwork must have occurred since my trip home was in a Dodge and not a BMW.

Stock tip: Buy GE! Our little tour group at the GE Gas Turbine plant was led by an executive who reported that last year, GE received \$500 million in *net profit* from this one plant. This year, the executive reported that this plant was on track to produce \$2 billion in *net profit* for GE with a current order delivery of 2 years. The amount of zeroes that they throw around is amazing. One titanium casting about 6 inches thick and 3 feet in diameter that ultimately winds up as an endplate on a turbine rotor starts at about \$250,000 *before* machining (talk about pressure). We also got a peek at

Continued on Page 2

the prototype for the largest gas turbine in the world weighing in at 410 tons. The two 175 ton cranes in that part of the plant were not big enough to move it so, at this point, they are rolling it around on railroad cars.

National Carbon literally rolled out the red carpet for our EASA visit to their facility in Greenville. The President of National Carbon was on hand to greet our Southeastern Chapter as we got off the bus. He gave an interesting overview of the company and its current business operations. A complete tour of the Greenville facility included carbon block treatment, the "tamping" approach to brush lead attachment, and a tour of the R&D laboratory where environmental testing under different temperature and humidity conditions is done for all brush grades. I really did appreciate the hospitality extended to our chapter by the folks at National Carbon. Great job!

Continuing with the servo theme, the Greenville forum concluded on Saturday with a series of informative speakers from Lenze, BEI, and National Carbon. With a lot of hard work on the part of our conference chairpersons and their committees, these Technical Forums keep getting better and better! As part of your Southeastern Chapter membership, make sure you take advantage by attending the Spring 2000 Technical Forum in Atlanta, Georgia. Watch for details.

1999 Fall Conference, October 21-23, 1999 - Raleigh, NC

Following a great effort by the Greenville Tech Forum committee, we are well under way to what is expected to be a record setting Fall Conference in Raleigh, NC this October. Conference co-chairmen James Snow and Kenneth Randall, Jr., North Carolina State Director, are finalizing plans for an informative and fun-filled time for all. Some of the best conferences in our chapter's history have been planned and executed by Jim Snow and I expect no less from Jim and Kenneth for the Raleigh Fall Conference.

Look for more information about the upcoming Fall Conference later in the next edition of *Southwind*.

This year's conference in Raleigh is being held during the same period as the North Carolina State Fair, recognized as one of the best state fairs east of the Mississippi. In addition to a very large area of arcade and midway style rides and games, this fair offers much, much more:

- (1) All types of livestock shows, judging, and auctions;
- (2) Horse shows in a state-of-the-art horse facility for Walking & Racking, Hunters & Jumpers, Paints, Palominos, Pintos, Appaloosas, Arabians, etc;
- (3) Many types of on-site technology and agriculture exhibits and contests;
- (4) A Folk Festival;
- (5) Grandstand shows every day including Tractor Pulls, Demolition Derbies, and the Garcia Circus;
- (6) Various contests and competitions in Electrical, Carpentry, and Plumbing;
- (7) FREE Arena shows every night with big name groups like Merle Haggard, The Shirelles, The Florida Boys, Lonestar, The Wilkinsons, Blackhawk, The Oak Ridge Boys, KC & The Sunshine Band, and others;
- (8) Large fireworks shows every evening at 9:45 PM.

Adult admission is a whopping \$6.00 at the gate, children 6-12 years old is \$1.00, and children 5 and under are free.

Dates for our Fall Conference are October 21-23. Dates for the State Fair are October 15-24. You may want to come to the Raleigh area a couple of days early for a family vacation and enjoy the fair. The next edition of *Southwind* will include a detailed program of all fair events so that you can plan for activities that interest you most.

I look forward to seeing all of my Southeastern Chapter friends at the Fall Conference. Be sure to register as early as possible. We have reserved what we feel will be adequate rooms at the Embassy Suites, but with the fair in town, you may not want to push your luck.

The Southeastern Chapter Training Committee and Upcoming Classes

At the Greenville Technical Forum, a new standing committee for Southeastern Chapter Training was appointed and given the following charter:

- (1) Select high-quality courses relevant to the Southeastern Chapter membership utilizing ideas submitted by the members,
- (2) Use EASA International courses and instructors when appropriate but consider other course material and instructors beneficial to the membership,
- (3) Bring all courses to the Southeast region to minimize travel and lodging costs with a goal of having all courses available to the membership within a 4-hour drive,
- (4) Arrange for at least 3 training courses per year for the Southeastern Chapter membership,
- (5) Minimize and standardize the cost of courses for all attendees to simplify the registration process.

I am pleased to announce that David Horton of Darby Electric Company has agreed to chair this committee. David has had a lot of experience in implementing training courses and has agreed to use his talents to help our chapter. David informs me that the Southeastern Chapter Training Committee consists of the following members:

| | |
|------------------------|------------------------|
| David Horton, Chairman | Darby Electric Company |
| Chris Raines | Porter's Electric |
| Bret McCormick | Belle Glade Electric |
| Marvin Alford | TAW – Jacksonville |
| Brenda Cole, Planner | SE Chapter Meeting |

I would encourage anyone with ideas about course topics to contact one of the above committee members or you can send your ideas to our Chapter Exec-Secretary, Raymond Paden. With a goal of having 3 to 4 training courses each year, the committee can definitely use your suggestions.

Training sites have been selected in Charlotte, NC, Atlanta, GA, and Orlando, FL. A different course would be offered at each location at approximately the same time. Then these same courses would rotate to each training city so that all members would have an opportunity to attend all courses in a city near them.

One-day schools would be scheduled on Fridays and cost each member attendee a standard fee of \$75. Two-day schools would be scheduled on Friday and Saturday and cost each member attendee a standard fee of \$100. Class sizes will be limited to make sure each attendee receives adequate attention from the instructor.

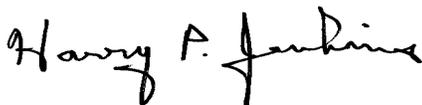
Our first training courses should kick off this year in late August or early September. Check for a detailed listing of the course schedules in this edition of the *Southwind* and be sure to send in your registrations early or you might miss the class that is taught in your local area and end up having to travel to one of the other training cities.

Announcement for the Georgia Membership

Last month, I accepted the resignation of the Georgia State Director, Scott Smith, from the Southeastern Chapter Board of Directors. Scott told me that he would be leaving his current position at Southern Industrial Electric for a job in a different industry and that it would be necessary for him to resign his position in EASA. I thanked Scott for his contributions to our association and wished him the best with his new career.

As established by long standing precedent and with the unanimous consent of the nominating committee, I have appointed Brenda Cole as the new Georgia State Director to serve out the current director's term through April 2000. Brenda was a close runner-up in the last Georgia State Director election and is undoubtedly one of the most qualified people to serve in this position with her many years of dedicated service to the Southeastern Chapter. We will soon begin a nominating and election process for the Georgia State Director term beginning in April 2000. In the meantime, Welcome to the Board, Brenda!

That's all for now.



Harry Jenkins
Chapter President

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From the desk of Brenda Cole

Our 45th annual Technical Forum, **POSITION AND DRIVE YOUR COMPANY INTO THE 21st CENTURY**, was held at the Airport Marriott in Greenville, South Carolina on April 22 – 24. On Thursday, prior to the Tech Forum, Baldor representatives, Jim Nanney, Jim Aubuchon, John Mazurkiewicz, Jerry Hernandez, and Mike Kunde held a Servo Seminar in which participants actually received “hands-on” servomotor training. Due to the heavy demand for this seminar, Baldor agreed to stay over and repeat the class on Friday. Attendees were quick to point out the need for additional training not only in the area of servomotors, but many aspects of our industry. Our many thanks to Baldor and their fine representatives who spent a great deal of time and effort compressing a three-day seminar into one day. We will look forward to PART TWO.

Those Servo Seminar attendees were able to see servomotors in action on Friday when we toured the very impressive BMW plant. What a place! It was so interesting to see one-by-one the steps to building the Z3 sports car. It was equally fascinating to learn the cars are built to order. The tour guide was very informative and offered answers to all our questions regarding wages, benefits (the parking lot was full of Z3s), environmental issues, employment opportunities (not than any of us were looking for new careers) and many more. But, I was just blown away to see how little time it takes to put the entire engine assembly in one of those cars. What workmanship! Not a bad “drive” into the 21st century. At National Carbon, it was very interesting to see the processes that go into creating small carbon brushes we take for granted every day, while the GE Gas Turbine plant was simply incredible! Thanks so much to all of these folks for their hospitality.

In between our tours, Reliance Electric was busy back at the Marriott making sure we had a delicious relaxing lunch break by the pool. Not only was the food great, the weather was beautiful, and some of us even received door prizes. Thank you Reliance, for your generosity.

In keeping with the servomotor theme, Saturday’s program consisted of seminars conducted by Mr. Derald Sanchez, servo division of Lenze Corporation, Mr. Jay Goree, encoder supplier for Baldor, and Mr. Roland Roberge, National Carbon who enlighten the audience on identification of servo carbon brushes. All three speakers were interesting and well received by the attendees. Our many thanks to each of them.

There is one sure way of saying THANK YOU to our many suppliers and exhibitors. Let me emphasize -- ***these meetings are only possible through their generous support and dedication to our association.*** Please consider these companies when searching for new products, equipment and services.

New chapter officers were sworn in on Saturday morning following our business breakfast. The officers for 1999 – 2000 are as follows:

| | |
|-----------------|-------------------------------|
| Harry Jenkins | President |
| Shawn Venable | Vice President |
| Brett McCormick | Secretary-Treasurer |
| Leo Letourneau | Florida State Director |
| Scott Smith | Georgia State Director |
| Kenneth Randall | North Carolina State Director |
| Charles Wilson | South Carolina State Director |
| Rick Lloyd | Virginia State Director |
| Norman Rose | Director-At-Large |
| David Horton | Director-At-Large |
| Steve McAbee | Affiliate Representative |

Our congratulations and thanks to each and every one of our officers for their dedication and volunteerism.

In conclusion of the business meeting, Tech Forum Co-Chairmen Shawn Venable and Charles Wilson, recognized their committee by presenting each with a momento of thanks for their dedication and commitment. Chris Raines, Carl Unrue, David Horton, Steve McAbee, and Woody MacDonald received commemorative plaques. Our newly sworn in chapter president, Mr. Harry Jenkins, presented Shawn and Charles with plaques also and thanks for a “job well done.”

If you attended this Tech Forum, we would love to hear feedback from you. Enclosed you will find a brief survey. Please take a few moments to complete it and fax it over to me. Our goal is to provide informative meetings for you, the member. We need to hear your voice in order to accomplish this.

For those of you who were unable to come to Greenville, please consider joining us in Raleigh for the 62nd Annual Fall Conference, October 21-23. Jim Snow, Ken Randall and their committee have been hard at work for the past year and promise a meeting like none we’ve experienced. (And for those of you who know Jim, you can bet on it!) Look for more information on this exciting meeting in the next issue of *Southwind*.

1999 TECHNICAL FORUM EVALUATION

The Southeastern Chapter is striving to offer meetings that will be beneficial to all members. Please take a few moments to complete an evaluation for the Technical Forum that you recently attended in Greenville, South Carolina. This information will be useful in planning future seminars that better meet your needs and expectations. ***Please return by fax to 770 787-9598 or mail to the Chapter Office.***

Did you find the tour to BMW useful and interesting? Yes No

Comments: _____

Did you find the tours to National Carbon and GE useful and interesting?
 Yes No

Comments: _____

Did you find the speakers for Saturday morning informative and interesting?
 Yes No

Comments: _____

What was your primary motivation for attending this meeting?
 Location Program Tours Exhibits Golf

Other (Please explain) _____

Which part of the meeting benefited you the most?

Which part of the meeting benefited you the least?

Additional comments _____

Thank you and best regards,

Brenda Cole
Meeting Planner

New Chapter Training Schools to Commence August 27

During the Spring Technical Forum in Greenville, Chapter President Harry Jenkins appointed a training committee to schedule and provide training for the chapter members. The committee has agreed to try having concurrent schools in locations such as Charlotte, Atlanta, and Orlando. These classes would rotate quarterly from one location to another, giving each geographical section of the chapter the opportunity to attend. Schools would consist of (but not be limited to) the following:

- DC Theory and Test Procedures
- Mechanical Repair
- Organizing & Maintaining a Sales Program
- Professional Selling
- Centrifugal Pump Repair
- Spin-Casting and Rebuilding Bearings
- Transforming Your Company
- Bearing Basics 1
- Bearing Basics 2

Class sizes will be limited to achieve optimal student/instructor ratios. One-day schools will be held on Friday with tuition set at \$75 per person, and two-day schools will be held on Friday and Saturday with tuition set at \$100 per person. Since the chapter will be subsidizing these classes, tuition for non-Southeastern Chapter members may be significantly higher.

The first two training sessions will be **Centrifugal Pump Repair in Charlotte, North Carolina on August 27-28** and **Bearing Basics 1 in Atlanta, Georgia on August 27**. Please use the forms inserted into this issue of *Southwind* to register today.

David Horton
Training Committee

1999-2000 Chapter Handbooks are “In the Mail”

If yours hasn't arrived yet, look for it soon. Please check your company and contact data and report any errors or omissions to the Chapter office immediately. A future edition of *Southwind* will include a list (hopefully very short) of “corrections and additions.”

Extra copies are available at \$7.50 to Chapter members and \$12.50 for non-members, which includes standard mail delivery.



Remembered ...

Mr. Carl Haywood Venable

Founded Electric Motor Service of Clinton, South Carolina, in 1969 and served as President of that company until his death on May 25, 1999. Our special consolation and best wishes are extended to Southeastern Chapter Vice President Shawn Venable, son of the deceased.

Mrs. Sarah Hall Andrews

With her husband, Carl, owned and operated Jones Electric Repair in Charlotte, South Carolina. Her husband, Carl, served as Southeastern Chapter President in 1957, and as EASA International President in 1965-66. Mrs. Andrews served as Southeastern Chapter Executive Secretary/Treasurer for many years during the 1960's and 70's. She passed away on February 28, 1999.



1999 BEARING SEMINAR

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August 27

EASA Southeastern Chapter
 1999 Training Program
 1397 Blashfield Street SE
 Atlanta, GA 30315
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 (404) 622-0461 FAX

Photocopy this form for additional registrations

| |
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| FAX |

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Lodging *is not* included in seminar registration. Please contact the hotel for reservations.
Questions? Call David Horton at (864) 224-2131 or Raymond K. Paden at (404) 622-1441

| REGISTRATION FOR: | Registration |
|--|---------------------------|
| ATLANTA BEARING SEMINAR – August 27 Presented by Billy Potts of Bartlett Bearing Company Inc. | \$75 SE Chapter member |
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- I. Materials & Manufacturing
 - A. Rolling Element Types: Ball, Cylindrical Roller, Spherical Roller & Needle Roller
 - B. Inner and Outer Rings
 - C. Retainers: Steel, Brass, Phenolic & Plastic
 - D. Manufacturing Process
- II. Features & Modifications
 - A. Shields (ZZ) & Seals (LL)
 - B. Lubrication Grooves & Oil Holes (W33)
 - C. Taper Bore (K)
 - D. Greases Common to Pre-Lubricated Bearings
- III. Part Numbers & Interchanges
 - A. Standards: ABMA & ISO
 - B. Bearing Part numbers
 - C. Interchanges
- IV. Tolerances & Clearances
 - A. Tolerances: ABEC 1, 3, 5, 7 & 9
 - B. Clearances: C2, C3, C4
 - 1. Ball vs. Roller
 - 2. Unmounted, Mounted & Operating
- V. Bearing Types & Functions
 - A. Deep Groove
 - B. Wide Cartridge
 - C. Felt Sealed
 - D. European Double Row
 - E. Max Type Double Row
 - F. Angular Contact
 - G. Thrust, Cylindrical, Spherical, Tapered Roller

Registration fee includes lunch and coffee/soda breaks

Class Hours
9:00 AM – 4:00 PM

What to Bring
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METHOD OF PAYMENT: Check VISA MasterCard

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EASA Southeastern Chapter
1397 Blashfield Street SE
Atlanta, GA 30315



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| SIGNATURE | |

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Authorized Signature - Executive Vice President
Raymond K. Paden
Authorized Signature

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Presented to the Southeastern Chapter at the 1999 EASA International Conference
Final Banquet in Toronto, Canada,
for having more members on May 1, 1999 than on May 1, 1998



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