



# The Tool Box

Serving the Electrical, HVAC & Plumbing Industries Since 1912

Volume 1, Issue 48 July 5, 2004

## Hurricane Preparedness Alone Isn't Such A Good Idea

By: Tom Frisby

If you were standing in the middle of a desert somewhere with no trees or structures around you when a substantial earthquake hit, your chances of survival would be very high. But if you happen to live in a city, drive on a highway and cross bridges, live near a body of water, especially on sandy/clay soils...well, your odds of survival have dropped a bit.

In the 7.1 -magnitude Loma Prieta earthquake in 1989, 42 people were killed when a half-mile long section of an elevated double-decker freeway collapsed in Oakland, Calif. However, parts of the freeway withstood exactly the same force and did not collapse. The reason, of course, was that the portion of the freeway that collapsed was built on manmade fill over soft mud, whereas the portion that withstood the quake was built on older, firmer sand and gravel deposits.

Earthquakes can produce a condition known as liquefaction. Simply stated, it means that soil will lose its firmness and transform into a more liquid status and not be able to carry the loads (structures) on top of it. Structures built along coasts, particularly the East Coast, are vulnerable to the catastrophic damage liquefaction can cause. They are also vulnerable to the strong possibility of tidal waves that often accompany earthquakes, even less severe ones.

In addition, the ground shakes during an earthquake. Shaking near the source of a quake is more severe than scientists once thought. Obviously, shaking is more intense on softer ground than firmer soil. What happens when there is violent shaking? Sometimes, the building is "shaken apart." But things inside the structure move as well as fall down, like walls and light fixtures, while appliances are sent scurrying across the room to cause property damage or personal injury. School children often suffer the greatest injury when an earthquake hits a populated area during school hours where unreinforced concrete masonry units topple into the classrooms or into the corridors.

Earthquakes are, unquestionably, pretty scary natural events. Do those of us in the Lowcountry have reason to be frightened by the prospect of another devastating earthquake hitting our area? We had the "big one" on the evening of August 31, 1886; I understand that not a building in the city was spared damage to some extent and that around 80 to 90 people were killed. Widespread liquefaction did occur as well.

The odds are that we will experience another quake of similar magnitude sometime in the future. But this is not to predict that such a catastrophic event will happen or to raise the alarm level. It is to say that in any earthquake prone area, we should be aware of the possible risks, because as we admire Charleston's historic homes, the earthquake medallions on those buildings should be a reminder that "it has happened here and it can again."

With that in mind, I recently asked the Red Cross for a copy of its Earthquake Disaster Plan. Guess what? The Red Cross doesn't have one because, as I was told, we "don't have many earthquakes in Charleston."

I suppose that makes sense. Prepare for those events most likely to occur - like hurricanes, which always occupy everyone's attention around this time of the year. While I am not being critical of the Red Cross, it seems to me that if the prudent people responsible for developing and enforcing building codes are including steps to prevent significant damage in the event of an earthquake (and they are), it might be wise for the Lowcountry to have its own Earthquake Readiness Plan.

But instead of inventing one anew, may I recommend to you, and to local officials, that you review the web site of the Alaskan preparedness group, which has done an (cont'd Page 8)

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### SUMMER CONVENTION

### VIVA LAS VEGAS!

JULY 22-25, 2004

THE VENETIAN RESORT HOTEL CASINO

LAST CHANCE! IF INTERESTED, CALL STATE OFFICE

SEE YOU THERE

**MCASC GREATLY APPRECIATES THE COMPANIES GENEROUS SUPPORT OF THE SANTEE SCHOLARSHIP TOURNAMENT.**

**THANK YOU FOR YOUR SUPPORT!**

**Associate Member:  
Parker Insulation, Inc.**

Parker Insulation, Inc. was formed in 1992 by Ken Parker and has enjoyed over 12 years in this business.

Parker Insulation, Inc. (Pii) started as a marine insulation company servicing not only Charleston but traveling up, down and across the USA. Due to the Naval base closure we had to learn how to get competitive in the commercial and industrial fields. We then decided to concentrate in the Charleston and surrounding areas.

Pii's safety program is second to none and they have won four consecutive Presidential awards and most recently the prestigious Summit Award from the Carolina's AGC for zero lost time accidents in the workplace.

Local industries, plants, hospitals, municipalities and building managers/owners who are planning new construction, or facility upgrades, can contact Ken Parker or Jay Clune, at (843) 744-0027 and find out how to reduce energy costs by properly insulating mechanical systems.

Their administrative and field supervision team has over 60 years of supervision and project management experience to their credit.

***Parker Insulation, Inc.***  
***1021 E. Montague Avenue, N. Charleston, SC 29405-4918***  
***Phone: (843) 843-744-0027***  
***Fax: (843) 745-0027***  
***Email: kpa542@yahoo.com***



***JULY BIRTHDAYS***  
***Happy Birthday!!***

Greg Berry	July 2	Ferguson Enterprises, Inc.– Plbg.Div. –Columbia
Meredith Sloan	July 2	Hoffman & Hoffman
Al Simpson	July 3	Cullum Mechanical Constr./Charleston
Josephine McWilliams	July 4	Columbia Cooling & Htg.      Wife of Reece
Margaret Allen	July 8	H.R. Allen, Inc.                      Wife of Rod
Glenn Greer	July 9	Gregory Electric
Earl Martin	July 14	E.F. Martin Mechanical
Cindy Daniel	July 20	The Deciding Factor
Anne Campbell	July 21	Carrier Enterprises                      Wife of Bill
Wayne Kimball	July 21	Kimball's Plumbing, Heating & Electrical
Harold Dunagin	July 23	Temporary Services      Husband of Robbie Stephens
Michael "Scat" Scaturro	July 28	Eastern Industrial Supplies, Inc. - Florence
Leigh Zimmerman	July 29	Charlotte Pipe & Foundry      Wife of Billy
Ray Merritt	July 31	Cullum Mechanical - Lexington

**HAPPY BIRTHDAY MEMBERS! WE WOULD LIKE TO ANNOUNCE YOURS!**  
**PLEASE CALL THE BIRTHDAY HOTLINE AT (803) 772-7834 OR EMAIL TO [mflowers@mcasc.com](mailto:mflowers@mcasc.com)**

# PROJECTS FOR BID & BID FORECAST

MECHANICAL CONTRACTORS ASSOCIATION OF SOUTH CAROLINA  
 P.O. Box 384, Columbia, South Carolina 29202 · 1504 Morninghill Drive, Columbia, South Carolina 29210  
 PHONE (803)772-7834 · FAX (803)731-0390 · E-MAIL: [mflowers@mcasc.com](mailto:mflowers@mcasc.com) WEBSITE: [www.mcasc.com](http://www.mcasc.com)

JOB TO BE BID THROUGH THE MCASC BID PROCEDURE.  
 ALL MECHANICAL CONTRACTORS WHO ARE NOT MEMBERS OF THIS ASSOCIATION BIDDING ON THESE ADVERTISED JOBS ARE INVITED AND URGED TO UTILIZE THE MCASC BID PROCEDURE PUBLISHED HEREIN.  
 INFORMATION PUBLISHED BY THE MECHANICAL CONTRACTORS ASSOCIATION OF SOUTH CAROLINA

## NOTES:

1. ALL JOBS LISTED WITHOUT REFERENCE TO THE MCASC FOUR-HOUR DESIGNATION ARE EITHER ZERO OR TWO-HOUR BID JOBS.
2. ALL ASPECTS OF THE MCASC FOUR-HOUR BID PLAN APPLY TO JOBS DESIGNATED AS EITHER ZERO OR TWO-HOUR JOBS WITH THE EXCEPTION OF TIME & BID PROCEDURE OFFICE/SIGNATORY GENERAL CONTRACTOR INTERFACING.

**\*MCASC BID PROCEDURE SIGNATORY GC'S INDICATED WITH "O"**

## PIEDMONT AREA

CHAIRMAN DESIGNATING COMMITTEE  
 DAVID BISHOP  
 TEL: (864) 578-7252 FAX: 578-341

NO JOBS LISTED

## MIDLANDS AREA

CHAIRMAN DESIGNATING COMMITTEE

1. **COLUMBIA** Re-Adv. New Crayton Mid. Sch., Richland County School District #1, Owner. Jumper Carter Sease, Archts, West Columbia  
**PREBID CONF: 4:00 PM, July 26, Off. Own. CM: Southern Management Group**

August 10	BIDS DUE MCASC: 4:00 PM Bidders Include: o Contract Construction, Inc., Ballentine H. G. Reynolds Company, Inc., Aiken China Construction America, Inc., Columbia	GENRL OPEN: 4:00 PM o Construction Company, Florence Martin Engineering, Inc., White Rock Thompson Turner Construction, Sumter
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## PEE DEE AREA

CHAIRMAN DESIGN, COMMITTEE WILLIAM L. SELF TEL: (803) 432-8519 FAX: 432-3845	PAUL PREVATTE G'TOWN HRY & MARION TEL: (843) 272-4915 FAX: 272-6071	JIMMY LEE FLO, DAR, DIL, C'FLD & M'BORO TEL:(843) 669-8243 FAX: 673-0826
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NO JOBS LISTED

## COASTAL AREA

CHAIRMAN DESIGNATING COMMITTEE  
 RON RUNYON  
 TEL: (843) 556-\*5636 FAX: 763-3091

NO JOBS LISTED

## MCASC WEBSITE UPDATE

The new MCASC website is scheduled to launch July 1st. Anyone who has not subscribed and would like to do so, please send your check for \$300 to the State Office in order to be issued your user name and password to enter your company data and job opportunity postings.

Only paid subscribers will have access to the contractors search and job opportunities posting functions. Those of you who have already subscribed have been sent your user name and password. If you have not completed your company data sheet, please do so as soon as possible. Should you have any questions please feel free to contact the MCASC State Office at 803-772-7834 or email Mona at [mflowers@mcasc.com](mailto:mflowers@mcasc.com).

WEEK OF AUGUST 9, 2004—AUGUST 13, 2004

<u>DAY</u>	<u>JOB NO.</u>	<u>4/HR</u>	<u>LOCATION</u>	<u>NAME</u>	<u>BID DATE</u>	<u>TIME</u>
Tuesday	2-4054		Columbia	Re-Adv. New Crayton Mid. Sch.	08/10/04	4:00 PM

WELCOME NEW MEMBERS

CONTRACTING SOLUTIONS — CHARLESTON — JAIME LYN ATKINSON  
 HERTZ EQUIPMENT RENTAL—COLUMBIA—JOHN COVINGTON  
 PORT CITY ELECTRICAL CO., INC.— N. CHARLESTON— RANDY LAIL

## SPECIAL ANNOUNCEMENT

ARE WE ON YOUR EMAIL ADDRESS LIST?

IF NOT, PLEASE INCLUDE US AT OUR NEW EMAIL ADDRESS

mflowers@mcasc.com

SYMPATHYMCASC would like to extend sympathy to the following family:

Ida Shealy, wife of G. Lanier Shealy, Shealy &amp; Sons Electric, West Columbia

Tim Crosby, step son-in-law/son-in law to Duwayne &amp; Sylvia Jacobs/Ed Fripp respectively

Randy Clark, Vista Engineering, Columbia

Lelia Mae Pate of Florence, sister of Montez Self, Self's Heating &amp; Air Conditioning, Camden

CONCERNSMCASC would like to extend thoughts and prayers to the following families:

Chuck McDonald, Robinson, McFadden &amp; Moore, Columbia, at home (Lexington

Dr. Terry Frame, Husband of Dr. Terry Frame (Human Resources) Columbia, at home

Carol Coleman, Wife of Harvey Coleman (Walker-White) Columbia, at home (Chapin



GOLF  
TOURNAMENT

**COLUMBIA ELECTRICAL COUNCIL****1st Annual Golf Tournament**

**Oak Hills Golf Club**  
**Columbia, SC**

September 7, 2004

7:00 AM Registration—8:30 AM Shot Gun Start

**\$300.00 per Four Man Team Prior to September 1st (\$400 after September 1st)**

Captain's Choice Scoring, 4 Man-Bring Your Own Team

Green Fees, Cart, Range Balls, Drink Cart, Lunch Buffet, Trophies and Door Prizes

**CONTACTS: Jan Welch, Carolinas AGC Training Consultant-(803) 799-5380**

or

**Brent Whitener, Maddux Supply Company, General Manager—(803) 936-1800**

# **MCASC 2004 COURSE REGISTRATION**

**COMPLETE AND FAX OR MAIL TO MCASC**  
 P.O. BOX 384, COLUMBIA, SC 29202  
 TELEPHONE #: 803-772-7834 FAX 803-731-0390  
 EMAIL: [mflowers@mcasc.com](mailto:mflowers@mcasc.com) WEBSITE: [www.mcasc.com](http://www.mcasc.com)

Name: \_\_\_\_\_ Company: \_\_\_\_\_

Address: \_\_\_\_\_ phone: \_\_\_\_\_ FAX \_\_\_\_\_

City: \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_ Email Address: \_\_\_\_\_

NAME ON LICENSE: \_\_\_\_\_ LICENSE NO.: \_\_\_\_\_ STATE \_\_\_\_\_

**Payment Method**

Please Invoice

Check Enclosed for \$ \_\_\_\_\_

Credit Card (Circle) VISA, Master Card  
# \_\_\_\_\_ N/A At This Time

Expiration Date: \_\_\_\_\_

Authorized Amount: \$ \_\_\_\_\_

Name on Card: \_\_\_\_\_

Card Billing Address: \_\_\_\_\_

\_\_\_\_\_

Authorized By: \_\_\_\_\_

**NOTE:**

We Offer A Discount  
 If Your Company Registers  
 Three (3) Or More  
 For The Same Course.  
 Send 3...The 4<sup>th</sup> Is **Free!!**

**NOTICE:**

Anyone failing to withdraw from a course two  
 weeks prior to its start will be billed  
 for the entire cost of the course.

Please Place A Check Beside Each Course You Wish To Register For:

**NC, GA, & AL APPROVED**

Hydronic Systems One  
August 18, 2004 - Columbia  
Time: 9:00 AM - 4:00 PM  
Member: \$ 50.00 Non-Member: \$ 100.00

**NC, GA, & AL APPROVED**

Hydronic Systems Two  
September 15, 2004 - Columbia  
Time: 9:00 AM - 4:00 PM  
Member: \$ 50.00 Non-Member: \$100.00

**NC, GA, & AL APPROVED**

Steam Systems  
October 13, 2004 - Columbia  
Time: 9:00 AM - 4:00 PM  
Member: \$50.00 Non-Member: \$100.00

**NC & GA APPROVED**

Measuring & Maximizing  
Employee Productivity  
November 3, 2004 - Columbia  
Time: 9:00 AM - 4:00 PM  
Member: \$175.00 Non-Member: \$225.00

**NC, GA, & AL APPROVED**

Cooling Tower & Chiller  
Plant Piping Systems  
November 17, 2004 - Columbia  
Time: 9:00 AM - 4:00 PM  
Member: \$50.00 Non-Member: \$100.00

**NC & GA APPROVED**

The 3 Things Contractors  
Must Do To Succeed &  
101 Ways To Do Them  
December 8, 2004 - Columbia  
Time: 9:00 AM - 4:00 PM  
Member: \$175.00 Non-Member: \$225.00

**NOTE:**

All Courses Will Be Held At The  
 MCASC State Office  
 Training Facility  
 1504 Morninghill Drive  
 Columbia, SC  
 Unless Otherwise Indicated!

## 2004 Santee Tournament Winners

### 1<sup>st</sup> Place Team:

Travis Hoffman

Mona Flowers

Craig Brunson

Chris Brumback

### 2<sup>nd</sup> Place Team:

Mike Hough

Sam White

Travis White

Guy Rogers

### 3<sup>rd</sup> Place Team:

Mike Scaturro

Fred Gibbs

Stacey Beeler

Bill Self

### Long Drive Hole # 7:

Mike Scaturro

### Closest To Pin:

#### FRONT NINE:

#3 Darlene McGee

#8 Travis Hoffman

#### BACK NINE:

#11 Chris Brumback

#15 Bill Self

### Best Dressed:

Male

Bob Jacques

Female

Beth Higdon

### Poker:

Blake Anderson

### Largest Fish By Weight:

Heather Barfield

### Most Fish Total Weight:

Trae Barfield

### No Fish or Fewest Fish by Weight:

Justin McKeown

### Best Fish Tale:

Ervin Whitten

### Best Dressed:

Tom Brock

### Entertainer of the Day:

John Varnadore

# Congratulations To All The Winners!

**Mechanical Member:  
E. F. Martin Mechanical Contractors, Inc.**

E. F. Martin Mechanical Contractors, Inc. located in Columbia, S.C. was founded and incorporated by Earl F. Martin in 1976 originally under the name of Filter Clean. The Company performed filter changes and general maintenance of commercial and residential HVAC systems.

The company name was changed in 1981 to E. F. Martin Mechanical Contractors, Inc. and Earl F. Martin serves as president of the company.

E. F. Martin Mechanical Contractors, Inc. has an unlimited HVAC license in S.C. and is a full service HVAC mechanical contractor with experience in commercial new construction and design-build projects as well as custom residential new construction projects and residential replacements. The company also provides 24-hour residential service.

E. F. Martin Mechanical Contractors, Inc. is dedicated to providing excellence in service to all of their valued customers.

***E. F. Martin Mechanical Contractors, Inc.***

***4233 W. Beltline Boulevard, Columbia, SC 29204***

***Phone: (803) 799-1717 Fax: (803) 799-1801***

***Note New Email: efmartinmech@bellsouth.net***

**Congratulations to our next Associate & Mechanical Members who will be highlighted in the upcoming issue of "The Tool Box":  
G-M Mechanical Corporation—Greenville  
HSS RentX—Columbia**

**JULY—SEPTEMBER 2004 MONTHLY AREA MEETINGS**

**MIDLANDS AREA**

Thursday, September 9, 2004 @ 6:00 PM  
Location: Millcreek Hunt Club, Bluff Road  
Sponsored By: Control Management, Inc.

**ALL AREAS INVITED TO ATTEND  
Topic: Legislators to Speak on Pending  
Legislation As It Relates To Our Industry  
STATEWIDE RALLY**

**PIEDMONT AREA**

Tuesday, September 14, 2004 @ 6:00 PM  
Location: The John B. Cleveland Event Center/Cleveland Park  
Sponsored By: Waldrop Heating & Air Conditioning

**Topic: Legislative Forum  
to Discuss Industry Issues**

**PEE DEE AREA**

Thursday, September 16, 2004 6:30 PM  
Location: TBA  
Sponsored By: TBA

**Topic: TBA**

**COASTAL AREA**

Tuesday, September 28, 2004 6:00 PM  
Location: 7320 Cross County Road, N. Charleston  
Sponsored By: Atlantic Electric Company

**Topic: TBA**



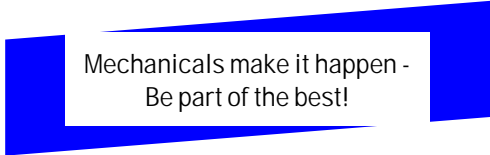
P.O. Box 384, 29202  
 1504 Morninghill Drive, 29210  
 Columbia, SC  
 Phone: (803) 772-7834  
 Fax: (803) 731-0390  
 E-mail: mflowers@mcasc.com  
 www.mcasc.com

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*Serving mechanical contractors in  
 South Carolina since 1912.*

**MCASC Executive Board & Staff**

- Ned Forsberg, President**
- Darlene McGee, Vice-President**
- Steve Brewer, Treasurer**
- Tommy Burkett, Secretary**
- Billy Starrett, Associate President**
- Mona Flowers, Managing Director**
- Carol Fore, Administrative Assistant**



**(Continued from Page 1)**

excellent job of setting forth in simple terms the things one needs to do to prepare for an earthquake, what to do during an earthquake and afterward, plus some special considerations, such as what to do if an earthquake hits and you are in your car, on the beach, or in a building. It outlines some common sense things to do about your house, such as making sure it is anchored into the foundation, tying down the appliances, and knowing how to turn off gas, water and electricity.

Best practice is to be prepared, so visit the Alaskan web site [www.uaf.edu/seagrant/earthquake/prepare3.html](http://www.uaf.edu/seagrant/earthquake/prepare3.html).

*Reprinted with permission from June 14-27, 2004 edition of Charleston Regional Business Journal/Real Estate & Construction. Lawyer, mediator, author, consultant and educator Tom Frisby has managed Charleston-based construction-consulting firm Frisby Consulting for 40 years. He can be reached at [thomasfrisby@msn.com](mailto:thomasfrisby@msn.com).*

**ALL AREAS INVITED**

**STATEWIDE RALLY AT MILLCREEK HUNT CLUB  
 ON LEGISLATIVE ISSUES PERTAINING TO THE INDUSTRY**

**MARK YOUR CALENDAR FOR THURSDAY, SEPTEMBER 9th  
 TO COME MEET WITH YOUR LEGISLATORS**

**LOOK FOR DETAILS AND REGISTRATION IN FUTURE MAILINGS**

**BBQUE & RIBS—COME EARLY, STAY LATE!!**