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As a longtime TCA member and your current TCA President, please allow me to welcome you to the 2016 Membership Directory edition of Tennessee Concrete magazine. Take note of those companies who are supporting our association with their membership and reward them with your business in the coming year.

I would also like to encourage all of our TCA members to get involved with our association. Your involvement pays dividends for both you and for your organization, and it helps us make our industry better. I have three specific requests for your participation as we enter the second half of 2016.

First, I want to encourage all of our ready mix producer members along with our materials supplier members to attend your local TCA/TDOT Regional Liaison Meeting. TCA and TDOT partner to hold these regional meetings at each of the four TDOT regional headquarters and we need to step up the concrete industry’s participation in these important sessions. These meetings are local (Knoxville, Chattanooga, Nashville and Jackson) and they only last about two hours. Find out when your regional meeting is scheduled and be sure to attend.

Second, I am asking for your support with this year’s Foundation Golf Outing on September 14 in Franklin, Tenn., at Forrest Crossing Golf Club. I shared in my last column about the positive impact that the Concrete Industry Management has made on my family, and I ask that you help support this important TCA event with your presence and your financial support.

Third, I want to mention TCA’s Legislative Breakfast series that will be taking place later this year. We held six such breakfast events last year with 15 state legislators attending. Dates and locations for these breakfasts will be forthcoming later this summer but we need your help to drive attendance of both industry people and your local state legislators. Two thousand seventeen will likely be our best chance in many years of increasing funding for vital Tennessee infrastructure, and all of us need to add our voice to this discussion.

Thank you for your continuing support of TCA!

— Bobby Crass

2016 TCA President
Fall 2016 • Tennessee CONCRETE • 5
Welcome to the 2016 edition of TCA’s membership directory. In addition to a listing of our members and their services, this issue of the magazine contains useful information about certifications along with some solid technical content. Keep this issue handy throughout the coming year and be sure to consult your directory anytime you find yourself in need of products or services that another TCA member can provide—members should do business with members!

In addition to this printed directory, TCA also maintains a searchable online directory that you can access from anywhere by visiting: www.tnconcrete.org. We have just introduced a brand new website (same address, different site) so please visit us online and see what you think. The online directory allows you to search using a number of different variables, and you can even access our members via an interactive map if you prefer a more visual interface.

I also invite you to visit TCA’s Facebook page and to “Like” TCA. This is a great way to keep up on events, people and concrete industry information—you can see our page here: https://www.facebook.com/tnconcrete/. As I write this article, we are close to finishing up a large pervious concrete placement and research project in Murfreesboro. Most of June has been spent placing and testing pervious concrete mixes, along with educating ready mix producers, contractors, stormwater officials and potential customers about this important concrete product. Thanks to Mr. John Manning (III and IV) for making their site available for this extensive research project, and thanks to our research partner Dr. Heather Brown and her staff for all their help with the testing. Results will continue to be generated as the summer progresses and as the project enters Phase Two where both pervious concrete and conventional concrete pavements will be subjected to various deicing chemicals to see how different mixes and different products perform under chemical attack. Look for a comprehensive summary of the project and test results in the fall of 2016. By the way, you can see some photos and even some video taken at the project site by visiting either our website or our Facebook page. Special thanks to TCA contractor member Nsite and Mr. Bill Smith for providing an experienced pervious crew to handle our placement on June 29 for the event.

Finally, I want to mention two important concrete industry events coming up in September—I’ll mention them in chronological order. First is TCA’s annual Foundation Golf Outing that supports our CIM scholarship program at MTSU as well concrete-focused research projects here in Tennessee. We are planning some new features for this year’s event on Wednesday, September 14, and we need your help in attracting new players and new sponsors for the event. The outing will be held at Forrest Crossing Golf Club in Franklin and the fun begins with lunch at 11:30 a.m. (Central). Please mark your calendar and start putting your foursome together!

Next, I want to put in a plug for NRMCA’s Fall Concrete Works meeting that will be taking place in Nashville beginning on September 17. We are excited to have NRMCA bringing this event to Tennessee and I want to urge all of our TCA members to make plans now to attend this conference. The national truck rodeo competition will be part of this event along with excellent speakers and numerous educational sessions. If you consider yourself to be part of the concrete industry, you owe it to yourself (and your industry) to attend this meeting. Visit NRMCA’s website (www.nrmca.org) for more information and to register.

—Alan Sparkman

Alan Sparkman
Executive Director
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OVERVIEW

The Tennessee Department of Transportation (TDOT) is considering two new technologies to determine concrete chloride permeability more efficiently:

A. Surface Resistivity AASHTO TP 95-11 [1]

B. Accelerated Curing as per AASHTO TP 95-11 [1] and ASTM C 1202-12 [2]

This paper is the first in a three part series of technology transfer articles. We hope that you find the information presented helpful in mixture design and evaluation. In Part 1, surface resistivity basics, statistical comparisons, logistical comparisons and correlations between surface resistivity and rapid chloride permeability will be examined. Subsequent articles will examine:

2. Accelerated vs. Normal Curing – Choosing a Curing Method

3. Possible TDOT Surface Resistivity Specifications and Mixture Design Suggestions

INTRODUCTION

AASHTO TP 95-11 surface resistivity (SR) and AASHTO T 277-07 [3] rapid chloride permeability (RCP) both provide an electrical indication of concrete’s resistance to chloride ion penetration. SR measures the electrical resistance while RCP measures the charge passed; therefore, the scales are inverted as shown in Table 1. The categories (column 1) are independent of testing age. The commonly used Wenner probe (shown in Figure 1) incorporates four equally spaced electrodes that apply a voltage between the outer probes while the inner probes measure the potential difference. The handheld device then converts the measured electrical resistance into an apparent resistivity which has been correlated with chloride ion penetration.

CONDUCTING A SURFACE RESISTIVITY TEST

The brief summary presented here will use 4x8-inch cylinders, although 6x12-inch cylinders are allowed by AASHTO TP 95-11. This summary lacks sufficient detail and the reader is referred to AASHTO TP 95-11 for detailed instructions on how to conduct the test. Each set for the test method is comprised of three cylinders. The top of the cylinders are marked at every 90° as shown in Figure 2. After removal from the moist room or curing tank, excess water is blotted off the cylinder and placed in a non-conductive sample holder (see Figure 3). The contact points of the electrodes are moistened prior to each reading. Readings are then taken around the cylinder specimen at 0°, 90°, 180°, and 270° twice, averaging the results for that specimen (see Figure 4). A correction factor of 1.1 is then multiplied by the average of the readings for the lime-water curing condition (see Table 2).
### TABLE 1. CATEGORIES FOR SURFACE RESISTIVITY AND RAPID CHLORIDE PERMEABILITY

<table>
<thead>
<tr>
<th>CHLORIDE ION PENETRATION</th>
<th>SURFACE RESISTIVITY TEST (4X8-INC CYLINDERS WITH α=1.5 INCHES IN KΩ-CM)</th>
<th>AASHTO T 277-07 CHARGE PASSED IN COULOMBS</th>
</tr>
</thead>
<tbody>
<tr>
<td>High</td>
<td>&lt; 12</td>
<td>&gt; 4000</td>
</tr>
<tr>
<td>Moderate</td>
<td>12 – 21</td>
<td>&gt; 2000 – 4000</td>
</tr>
<tr>
<td>Low</td>
<td>21 – 37</td>
<td>&gt; 1000 – 2000</td>
</tr>
<tr>
<td>Very Low</td>
<td>37 – 254</td>
<td>100 – 1000</td>
</tr>
<tr>
<td>Negligible</td>
<td>&gt; 254</td>
<td>&lt; 100</td>
</tr>
</tbody>
</table>

### TABLE 2. EXAMPLE DATA AND RESULT FOR A SURFACE RESISTIVITY TEST

<table>
<thead>
<tr>
<th>SAMPLE ID</th>
<th>0°</th>
<th>90°</th>
<th>180°</th>
<th>270°</th>
<th>0°</th>
<th>90°</th>
<th>180°</th>
<th>270°</th>
<th>Average</th>
</tr>
</thead>
<tbody>
<tr>
<td>D-25-19</td>
<td>23.1</td>
<td>24.9</td>
<td>22.9</td>
<td>22.8</td>
<td>22.9</td>
<td>25.0</td>
<td>22.9</td>
<td>23.6</td>
<td>23.5</td>
</tr>
<tr>
<td>D-25-20</td>
<td>23.3</td>
<td>23.8</td>
<td>24.2</td>
<td>23.8</td>
<td>23.4</td>
<td>23.1</td>
<td>23.9</td>
<td>23.7</td>
<td>23.7</td>
</tr>
<tr>
<td>D-25-21</td>
<td>23.0</td>
<td>23.5</td>
<td>23.3</td>
<td>22.5</td>
<td>21.7</td>
<td>22.7</td>
<td>22.9</td>
<td>22.4</td>
<td>22.8</td>
</tr>
</tbody>
</table>

Set Average 23.3

Curing Condition Correction (x 1.1 lime water tank or 1.0 for moist room) 1.1

Surface Resistivity Test Result 25.6

### TABLE 3. COMPARISON OF AASHTO ALLOWABLE COEFFICIENTS OF VARIATION

<table>
<thead>
<tr>
<th>STATISTICAL PARAMETER</th>
<th>AASHTO TP 95-11</th>
<th>AASHTO T 277-07</th>
</tr>
</thead>
<tbody>
<tr>
<td>Single Operator COV (%)</td>
<td>6.3</td>
<td>12.3</td>
</tr>
<tr>
<td>Multi-laboratory COV (%)</td>
<td>12.5</td>
<td>18.0</td>
</tr>
</tbody>
</table>

### TABLE 4. COMPARISON OF COEFFICIENTS OF VARIATION FROM TDOT PROJECT

<table>
<thead>
<tr>
<th>AGE</th>
<th>CURING</th>
<th>MIXTURE</th>
<th>TEST METHOD</th>
<th>COV (%)</th>
<th>WINNER</th>
</tr>
</thead>
<tbody>
<tr>
<td>28-day</td>
<td>Accelerated</td>
<td>Class D 80/20</td>
<td>RCP</td>
<td>10.7</td>
<td>SR</td>
</tr>
<tr>
<td>28-day</td>
<td>Accelerated</td>
<td>Class D 80/20</td>
<td>SR</td>
<td>6.3</td>
<td>Neither</td>
</tr>
<tr>
<td>28-day</td>
<td>Accelerated</td>
<td>50/35/15</td>
<td>RCP</td>
<td>5.3</td>
<td>Neither</td>
</tr>
<tr>
<td>28-day</td>
<td>Accelerated</td>
<td>50/35/15</td>
<td>SR</td>
<td>5.0</td>
<td>Neither</td>
</tr>
<tr>
<td>56-day</td>
<td>Normal</td>
<td>Class D 80/20</td>
<td>RCP</td>
<td>6.0</td>
<td>Neither</td>
</tr>
<tr>
<td>56-day</td>
<td>Normal</td>
<td>Class D 80/20</td>
<td>SR</td>
<td>6.2</td>
<td>RCP</td>
</tr>
<tr>
<td>56-day</td>
<td>Normal</td>
<td>50/35/15</td>
<td>RCP</td>
<td>5.1</td>
<td>SR</td>
</tr>
<tr>
<td>56-day</td>
<td>Normal</td>
<td>50/35/15</td>
<td>SR</td>
<td>7.8</td>
<td>Neither</td>
</tr>
<tr>
<td>91-day</td>
<td>Normal</td>
<td>Class D 80/20</td>
<td>RCP</td>
<td>12.1</td>
<td>SR</td>
</tr>
<tr>
<td>91-day</td>
<td>Normal</td>
<td>Class D 80/20</td>
<td>SR</td>
<td>5.9</td>
<td>Neither</td>
</tr>
<tr>
<td>91-day</td>
<td>Normal</td>
<td>50/35/15</td>
<td>RCP</td>
<td>10.4</td>
<td>Neither</td>
</tr>
<tr>
<td>91-day</td>
<td>Normal</td>
<td>50/35/15</td>
<td>SR</td>
<td>9.8</td>
<td>Neither</td>
</tr>
</tbody>
</table>
Determining Concrete Chloride Permeability More Efficiently

PART 1: A NEW SHERIFF IN TOWN?

COMPARISON OF SR AND RCP TEST METHODS

Statistical Comparison

Table 3 shows a comparison of AASHTO allowable coefficients of variation for each method. AASHTO allowable coefficients of variation indicate that SR is clearly better. However, Tennessee Technological University (TTU) data (see Table 4) shows that there is no clear winner (2-1 SR with 3 no contests).

Logistical Comparison

RCP requires sawing of 2-inch slices from 4x8-inch cylinders (see Figure 5), epoxy coating of the 2-inch slices (see Figure 6), and chemicals in the cell reservoirs during testing (see Figure 7). SR requires no preparation or additional materials. Table 5 shows an extensive logistical comparison of the test methods and indicates a logistical knockout in which SR is a clear winner in every category.
### TABLE 5. COMPARISON OF LOGISTICAL FACTORS

<table>
<thead>
<tr>
<th>PARAMETER</th>
<th>RCP</th>
<th>SR</th>
<th>ADVANTAGE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Initial Cost</td>
<td>Approx. $12,000</td>
<td>Approx. $3,000</td>
<td>SR</td>
</tr>
<tr>
<td>Recurring Costs</td>
<td>Chemicals, Epoxy</td>
<td>None</td>
<td>SR</td>
</tr>
<tr>
<td>Data Availability</td>
<td>2 days</td>
<td>About 10 minutes</td>
<td>SR</td>
</tr>
<tr>
<td>Time to Conduct</td>
<td>6 hours</td>
<td>About 10 minutes</td>
<td>SR</td>
</tr>
<tr>
<td>Preparation Time</td>
<td>1.5 days</td>
<td>About 15 minutes</td>
<td>SR</td>
</tr>
<tr>
<td>Clean Up Time</td>
<td>2 hours</td>
<td>Minutes</td>
<td>SR</td>
</tr>
<tr>
<td>Safety/Environmental Regulations</td>
<td>Specimen Sawing, Chemical Storage</td>
<td>None</td>
<td>SR</td>
</tr>
<tr>
<td>Sample Reuse</td>
<td>No</td>
<td>Yes</td>
<td>SR</td>
</tr>
<tr>
<td>Technician Training</td>
<td>Considerable</td>
<td>Minimal</td>
<td>SR</td>
</tr>
</tbody>
</table>

### TABLE 6. RCP-SR POINTS FOR CORRELATION PLOT

<table>
<thead>
<tr>
<th>MIXTURE</th>
<th>PROJECT</th>
<th>C ASH (%)</th>
<th>F ASH (%)</th>
<th>SLAG (%)</th>
<th>28-DAY ACCELERATED POINTS</th>
<th>56-DAY POINTS</th>
<th>91-DAY POINTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>50/25/25F</td>
<td>TTU Slag Study</td>
<td>0</td>
<td>25</td>
<td>25</td>
<td>0</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>50/30/20F</td>
<td>TTU Slag Study</td>
<td>0</td>
<td>20</td>
<td>30</td>
<td>0</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>50/35/15F</td>
<td>TTU Slag Study</td>
<td>0</td>
<td>15</td>
<td>35</td>
<td>0</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>50/25/25C</td>
<td>TTU Slag Study</td>
<td>25</td>
<td>0</td>
<td>25</td>
<td>0</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>50/30/20C</td>
<td>TTU Slag Study</td>
<td>20</td>
<td>0</td>
<td>30</td>
<td>0</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>50/35/15C</td>
<td>TTU Slag Study</td>
<td>15</td>
<td>0</td>
<td>35</td>
<td>0</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>50/25/25F</td>
<td>TTU Aggregate Variable Study</td>
<td>0</td>
<td>20</td>
<td>0</td>
<td>0</td>
<td>16</td>
<td>0</td>
</tr>
<tr>
<td>50/35/15F</td>
<td>TTU High Perm TDOT D Study</td>
<td>0</td>
<td>20</td>
<td>0</td>
<td>3</td>
<td>7</td>
<td>0</td>
</tr>
<tr>
<td>50/35/15C</td>
<td>TTU Aborted MS Thesis</td>
<td>25</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>8</td>
<td>10</td>
</tr>
<tr>
<td>TDOT D 20F</td>
<td>TDOT SR Project</td>
<td>0</td>
<td>20</td>
<td>0</td>
<td>20</td>
<td>20</td>
<td>20</td>
</tr>
<tr>
<td>TDOT D 20F</td>
<td>SR Project Redo</td>
<td>0</td>
<td>20</td>
<td>0</td>
<td>4</td>
<td>0</td>
<td>2</td>
</tr>
<tr>
<td>50/35/15F</td>
<td>TDOT SR Project</td>
<td>0</td>
<td>15</td>
<td>35</td>
<td>20</td>
<td>20</td>
<td>20</td>
</tr>
<tr>
<td>50/35/15F</td>
<td>SR Project Redo</td>
<td>0</td>
<td>15</td>
<td>35</td>
<td>0</td>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td><strong>Total Points</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td><strong>47</strong></td>
<td><strong>87</strong></td>
<td><strong>68</strong></td>
</tr>
</tbody>
</table>
Figure 7: Chemical Reservoirs in RCP Test Cells

**CORRELATION BETWEEN RCP AND SR**

SR and RCP both provide an electrical indication of concrete’s resistance to chloride ion penetration and therefore should be related. The research team reasoned that correlations would be more widely applicable if based on larger and more diverse data sets. Therefore, an attempt was made to maximize the amount and diversity of data on which answers were based. One provision made was that the data diversity would be limited to mixtures TDOT would consider using for bridge decks (no water-to-cementing materials ratio (w/cm) > 0.40, no exotic materials, etc.). A summary of all available data sets is provided in Table 6. Brief descriptions of two selected studies are provided in the next paragraph.

The unpublished TTU aggregate variable study was a preliminary attempt to determine the effect of coarse and fine aggregate type on RCP and SR. NASCAR legend Richard Petty said, “You’ve got to have some slow guys to make the fast guys look fast.” The TTU high permeability Class D study was an attempt to provide some “slow guys.” Specifically, to determine how high RCP would rise (and how low SR would sink) if the worst available TDOT approved choices were made for the coarse aggregate and portland cement-supplementary cementing materials (PC-SCM) matrix. It is important to note that the w/cm used met TDOT requirements. The worst available category referred to the poorest performing TDOT approved aggregates in the TTU aggregate variable study.

Figure 8 below shows all 202 TTU data points compared to an equation derived from the AASHTO test method category limits (see Table 1). The TTU data was regressed against the corresponding values generated by the AASHTO equation using the SR values as the independent variable. The intercept term was constrained to a value of 0. The t-test was then used to test the null hypothesis of the slope parameter being equal to 1. Using a 5% level of significance, the equations compared were significantly different from each other. However, on average, TTU data was only 3.7% higher than predicted by the AASHTO equation.

Table 7 below shows TTU correlations of SR and RCP with various data subsets as well as three reference correlations:

1. A correlation equation based off the AASHTO test method category limits (see Table 1)
3. A correlation from the Louisiana Transportation Research Center (LTRC) [5]

All correlations have coefficients of determination greater than 0.89, indicating strong relationships between SR and RCP.
TABLE 7. COMPARISONS OF SR-RCP CORRELATION COEFFICIENTS

<table>
<thead>
<tr>
<th>CORRELATION SOURCE</th>
<th>CORRELATION EQUATION</th>
<th>CORRELATION COEFFICIENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>AASHTO Test Method Category Limits</td>
<td>$RCP=79074(SR)^{-1.206}$</td>
<td>0.9999</td>
</tr>
<tr>
<td>FHWA Turner Fairbank Laboratory</td>
<td>$RCP=98441(SR)^{-1.35}$</td>
<td>0.9200</td>
</tr>
<tr>
<td>LTRC</td>
<td>$RCP=39647(SR)^{0.944}$</td>
<td>0.8922</td>
</tr>
<tr>
<td>All TTU Data</td>
<td>$RCP=99584(SR)^{-1.271}$</td>
<td>0.8944</td>
</tr>
<tr>
<td>TTU 91-day Data</td>
<td>$RCP=125451(SR)^{-1.316}$</td>
<td>0.9168</td>
</tr>
<tr>
<td>TTU 56-day Data</td>
<td>$RCP=104446(SR)^{-1.253}$</td>
<td>0.9601</td>
</tr>
<tr>
<td>TTU 56- and 91-day Data</td>
<td>$RCP=114533(SR)^{-1.285}$</td>
<td>0.9524</td>
</tr>
<tr>
<td>TTU 28-day Accelerated Data</td>
<td>$RCP=81780(SR)^{-1.299}$</td>
<td>0.9772</td>
</tr>
</tbody>
</table>

TABLE 8. SR VS. RCP SUMMARY

<table>
<thead>
<tr>
<th>PARAMETER</th>
<th>ADVANTAGE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Accuracy</td>
<td>Not Known</td>
</tr>
<tr>
<td>Variability (Precision)</td>
<td>Slight Edge SR (AASHTO Allowable)</td>
</tr>
<tr>
<td>Cost</td>
<td>Clearly SR (more than 4:1)</td>
</tr>
<tr>
<td>Time</td>
<td>Clearly SR (minutes vs. days)</td>
</tr>
<tr>
<td>Ease of Operation</td>
<td>Clearly SR</td>
</tr>
<tr>
<td>Safety</td>
<td>SR (no chemicals or sawing)</td>
</tr>
<tr>
<td>Overall</td>
<td>Clearly SR</td>
</tr>
</tbody>
</table>

MTSU CIM is studying abroad! See page 30
Determining Concrete Chloride Permeability More Efficiently

PART 1: A NEW SHERIFF IN TOWN?

CONCLUSIONS
There is a new sheriff in town—SR is clearly superior to RCP as shown in Table 8.

DISCLAIMER
The opinions expressed herein are those of the authors and not necessarily the opinions of the FHWA, the TDOT, the LTRC, or the Tennessee Concrete Association (TCA).

REFERENCES


FHWA-HRT-13-024 Surface Resistivity Test Evaluation as an Indicator of Chloride Permeability of Concrete.


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Sarah Dillon, Ph.D., E.I. is a recent doctoral graduate from Tennessee Technological University. Sarah is a staff engineer at TRC Worldwide Engineering in Brentwood, TN.
Daniel Badoe, Ph.D. is a professor of Civil Engineering at Tennessee Technological University.
Heather P. Hall, P.E. is Assistant Engineering Director of TDOT Materials and Tests Division.

ACKNOWLEDGEMENTS
The authors wish to gratefully acknowledge the support of the TDOT and the FHWA. Special thanks to Gary Head, Jamie Waller, and Bill Trolinger.
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Supported primarily by membership dues, the association is governed by a 15 member board of directors elected annually by members. The board includes 10 ready mixed producer members who direct local promotional programs in each of our three regions.
## Past TCA Presidents

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<thead>
<tr>
<th>Year</th>
<th>Name</th>
<th>Company</th>
<th>City</th>
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<tbody>
<tr>
<td>1986-87</td>
<td>Reid Brown, Ph.D.</td>
<td>Vulcan Materials</td>
<td>Chattanooga</td>
</tr>
<tr>
<td>1988</td>
<td>Richard Jones, Jr.</td>
<td>Southdown, Inc.</td>
<td>Knoxville</td>
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<tr>
<td>1989</td>
<td>Bob Mayfield</td>
<td>Forum-Lannom</td>
<td>Dyersburg</td>
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<td>1990</td>
<td>Craig Kirchoff</td>
<td>Lone Star Industries</td>
<td>Nashville</td>
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<td>1991</td>
<td>Joe Fowler</td>
<td>American Limestone Co.</td>
<td>Knoxville</td>
</tr>
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<td>1992</td>
<td>Ernie Walker, Sr.</td>
<td>Transit-Mix Concrete</td>
<td>Johnson City</td>
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<td>1993-94</td>
<td>E.H. (Sonny) Garrott III</td>
<td>Garrott Brothers</td>
<td>Continuous Mix Galiatin</td>
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<td>1995-96</td>
<td>Joe Bigford</td>
<td>City Concrete Co.</td>
<td>Jackson</td>
</tr>
<tr>
<td>1997-98</td>
<td>Carl Storms</td>
<td>Concrete Materials Inc.</td>
<td>Morristown</td>
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<td>1998-99</td>
<td>Joe Fulks</td>
<td>Harper Construction</td>
<td>Shelbyville</td>
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<tr>
<td>1999-2000</td>
<td>Mike Carrier</td>
<td>Carrier Concrete</td>
<td>Memphis</td>
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<td>2000-2001</td>
<td>Walter Law</td>
<td>Ready Mix Concrete</td>
<td>Maryville</td>
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<td>2002-2003</td>
<td>John Loven</td>
<td>Loven Ready Mix</td>
<td>Greeneville</td>
</tr>
<tr>
<td>2003-2004</td>
<td>Steve Herron</td>
<td>Metro Ready Mix</td>
<td>Nashville</td>
</tr>
<tr>
<td>2004-2005</td>
<td>Greg Garren</td>
<td>Union Concrete</td>
<td>Maynardville</td>
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<tr>
<td>2005-2006</td>
<td>Jim Hughes</td>
<td>Builders Supply Co.</td>
<td>Cookeville</td>
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<tr>
<td>2006-2007</td>
<td>Rick Odle</td>
<td>Southern Concrete Products</td>
<td>Jackson</td>
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<td>2007-2008</td>
<td>Dennie Underwood</td>
<td>Blalock Ready Mix</td>
<td>Sevierville</td>
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<tr>
<td>2009-2010</td>
<td>Phillip Palczer</td>
<td>City Concrete</td>
<td>Memphis</td>
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<tr>
<td>2010-2011</td>
<td>Andrea Childress</td>
<td>Childress Concrete Co.</td>
<td>Lewisburg</td>
</tr>
<tr>
<td>2011-2012</td>
<td>Steve Smith</td>
<td>A&amp;W Ready Mix Concrete</td>
<td>Kodak</td>
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<tr>
<td>2012-2013</td>
<td>Mike Zagula</td>
<td>Metro Ready Mix Concrete</td>
<td>Co.</td>
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<tr>
<td>2013-2014</td>
<td>Derris Johns</td>
<td>Mid-South Concrete</td>
<td></td>
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<tr>
<td>2014-2015</td>
<td>Bate Bond</td>
<td>B.T. Redi-Mix</td>
<td></td>
</tr>
</tbody>
</table>
A&W Ready Mix, LLC
PO Box 578
Kodak, TN 37764
Primary Contact: Steve Smith
Phone: (865) 932-4010
Fax: (865) 365-2734
Website: awreadymix.com
Product/Services: Ready Mix Concrete, Concrete Pumping, Rock, Sand,
Masonry Sand & Rock, NRMCA Certified Plant
Additional Information: Steve Smith, Operations

B & T Redi Mix, Inc.
PO Box 662
Brownsville, TN 38012
Primary Contact: Bill Timbes
Phone: (731) 772-2700
Fax: (731) 772-0483
Website: btredimix.com
Product/Services: Ready Mix Concrete, Rock, Sand, Mulch, & Stained Concrete
Additional Information: Bill Timbes

Baggett Ready Mix
4781 Hwy 41 North
Springfield, TN 37172
Primary Contact: Mac E. Baggett
Phone: (615) 382-9115
Fax: (615) 382-5277
Product/Services: Ready Mix Concrete Services

Blalock Ready Mix
PO Box 4750
Sevierville, TN 37864
Primary Contact: Wes Blalock
Phone: (865) 453-2808
Fax: (865) 428-6083
Website: blalockcompanies.com
Product/Services: Ready Mix Concrete, Concrete Pumping, RediRock Segmental Precast Products, NRMCA Certified Plants, NPCA Certified Precast Plant

B & P & G Materials
4650 Hwy 11E
Bluff City, TN 37618
Primary Contact: Fred Gibson
Phone: (423) 538-8172
Fax: (423) 538-6298
Website: bpgmaterials.com
Product/Services: Ready Mix Concrete, Retaining Wall Blocks

Bradley Concrete Co.
PO Box 3022
Cleveland, TN 37320
Primary Contact: Kirk Lambert
Phone: (423) 479-4541
Fax: (423) 479-4542
Website: lambcon.biz
Product/Services: Ready Mix Concrete Chattanooga, Cleveland, Charleston, Knoxville, Lenoir City, Athens

Builders Supply Co.
50 Scott Ave.
Cookeville, TN 38501
Primary Contact: Clark Simpson
Phone: (931) 526-9704
Fax: (931) 528-8510
Website: bbsupply.com
Product/Services: Ready Mix Concrete, Building Materials, Concrete Block Manufacturer, Brick, & Lumber

Byerley Construction Co. Inc.
P O Box 1102
Kingsport, TN 37662
Primary Contact: Jerry Byerley
Phone: (423) 246-6421
Fax: (423) 246-6421
Product/Services: Ready Mixed Concrete Services, General Contracting, Concrete Finishing, Acid Staining, Decorative, Driveways

C & C Concrete Products, Inc.
193 Towe String Rd.
Jackson, TN 37757
Primary Contact: Bobby Crass
Phone: (423) 562-7425
Fax: (423) 562-5499
Website: cccconcrete.com
Product/Services: Ready Mix Concrete, ICF’s, Block, State approved, Fiber, Rebar, Masonry Supplies & Aggregates

C & C Ready Mix Inc.
5710 Harriman Hwy
Oliver Springs, TN 37840
Primary Contact: Tony Crass
Phone: (865) 435-1445
Fax: (865) 435-0551
Website: www.ccreadymix.com
Product/Services: Ready Mix Concrete Services

Chandler Concrete Co. Inc.
PO Box 131
Burlington, NC 27216
Primary Contact: Ted Chandler
Phone: (336) 226-1181
Fax: (336) 226-2969
Website: chandlerconcrete.com
Product/Services: Ready Mix Concrete Services, Block, Hardscape & Masonry Products, Building Supply Products
Additional Information: Boone
805 State Farm Rd Suite 203
Boone, NC 28607
Phone: (828) 264-8694

Cleveland Ready Mixed Concrete
PO Box 3621
Cleveland, TN 37320
Primary Contact: Mark Moore
Phone: (423) 472-6522
Fax: (423) 472-3599
Product/Services: Ready Mixed Concrete Services, Plastic, Steel, & Rebar
Additional Information: Calhoun
4958 Hwy 11 South
Calhoun, TN 37309
Phone: (423) 336-3814

Cloud #9 Enterprises Inc.
135 Moreland Road
Mooresburg, TN 37811
Primary Contact: Dale Motes
Phone: (423) 272-9293
Fax: (865) 993-3505
Website: cloud9ent.org
Product/Services: Ready Mix Concrete, Concrete Barriers, Concrete Curbs, Septic Tanks, Tile, Rock, Sand & Precast Systems

Cumberland Supply Co. Inc.
PO Box 216
Carthage, TN 37030
Primary Contact: Phillip Hudson, Jr.
Phone: (615) 735-1786
Fax: (615) 735-1475
Website: cumberlandsupplyco.com
Product/Services: Ready Mix Concrete, Lumber, Hardware, Brick, Block, and Building Supplies

Dixie Ready-Mix Concrete Co., Inc.
1414 Old Jacksons Hwy
La Follette, TN 37766
Primary Contact: Raymond Henson
Phone: (423) 562-2277
Fax: (423) 562-0424
Website: cccconcrete.com
Product/Services: Ready-Mix Concrete, Wire Mesh-Rebar, Septic Tanks, Wall Blocks, Masonry Sand

Garrott Bros Continuous Mix, Inc.
PO Box 419
Gallatin, TN 37066
Primary Contact: Daniel Bugbee
Phone: (615) 452-2385
Fax: (615) 452-8952
Website: garrottbros.com
Product/Services: Ready Mix Concrete Services

Harrison Construction Co.
4817 Rutledge Pike
Knoxville, TN 37914
Primary Contact: Doug Brown
Phone: (865) 637-1770
Fax: (865) 546-9744
Website: harrisoncc.com
Product/Services: Ready Mix Services and Aggregate Sales
Additional Information:  
Dandridge,  
1070 Epco Dr.  
Dandridge, TN 37725  
Primary Contact: Tonya Alexander  
Phone: (615) 884-4935  
Fax: (731) 584-2523  
Website: irvmat.com  
Product/Services: Ready Mixed Concrete, Related Products, Aggregate, Sand & Pervious Concrete  

Mid-South Concrete Inc.  
Greater Memphis & Northern Tennessee Mixed Concrete & Related Product/Services:  
Website: midsouthconcrete.com  
Fax: (901) 386-8776  
Phone: (901) 386-8911  

Mid South Concrete Inc.  
PO Box 2389  
Pulaski, TN 38478  
Primary Contact: Dennis Johns  
Phone: (931) 363-0690  
Fax: (931) 363-5326  
Website: midsouthconcrete.com  
Product/Services: Custom Design Ready Mix Concrete, Concrete Related Accessories, Materials, Aggregates, & Culverts  

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128 Natchez Trace Rd.  
Cameron, TN 38320  
Primary Contact: Larry Dobson  
Phone: (731) 584-6991  
Fax: (731) 584-2523  
Product/Services: Ready Mixed Concrete, Blocks and Masonry Supplies, Decorative Concrete Supplies & Brick.  
Additional Information:  
McKenzie  
24 S. Oak St.  
McKenzie, TN 38201  
Phone: (731) 352-3850  

Orgain Ready Mix Concrete Co.  
PO Box 561  
Clarksville, TN 37041  
Primary Contact: John Manning  
Phone: (931) 647-1597  
Fax: (931) 552-2484  
Product/Services: Ready Mix Concrete and Pre-Cast Septic Tanks  

Ready Mix USA  
PO Box 2389  
Knoxville, TN 37901  
Primary Contact: Joe Fowler  
Phone: (865) 573-4501  
Fax: (865) 573-3327  
Website: readymixusa.com  
Product/Services: Ready Mixed Concrete  

Additional Information:  
Bristol  
501 Janie Hammitt Dr.  
Bristol, VA 24201  
Phone: (276) 669-3107  

Chattanooga  
604 Hudson Road  
Chattanooga, TN 37405  
Phone: (423) 892-6444  

Chattanooga  
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Chattanooga, TN 37416  
Phone: (423) 892-6444  

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419 N. Selvidge St.  
Dalton, GA 30720  
Phone: (706) 278-6044  

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Gray, TN 37615  
Phone: (423) 246-7701  

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Greeneville, TN 37745  
Phone: (423) 639-2041  

Greeneville  
1532 Industrial Rd.  
Greeneville, TN 37745  
Phone: (423) 639-2041  

Kingsport  
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Kingsport, TN 37660  
Phone: (423) 246-7701  

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**2016 TCA Membership Directory**

**Ready Mixed Concrete Producer Members**

**Knoxville**
2200 Neyland Dr.
Knoxville, TN 37916
Phone: (865) 544-0320

**Fax:** (931) 553-4501

**Lafayette**
22920 Hwy 193
Lafayette, GA 30728
Phone: (706) 278-6044

**Maynardville**
762 Maynardville Hwy.
Maynardville, TN 37807
Phone: (423) 587-2050

**Morristown**
663 South Sugar Hollow Rd.
Morristown, TN 37813
Phone: (423) 587-2050

**New Tazewell**
PO Box 1050
New Tazewell, TN 37824
Phone: (865) 573-4501

**Rockford**
547 National Dr.
Rockford, TN 37853
Phone: (865) 573-4501

**River City Concrete, Inc.**
9160 Hwy 128 South
Savannah, TN 38372
Primary Contact: Wade Williams
Phone: (731) 925-0271
Fax: (731) 925-9894
Website: rivercity-concrete.com
Product/Services: Ready Mix Concrete, Precast Products, Building Materials, Conveyor Placing, Sand, Gravel, ACI & TDOT Certified

**Screaming Eagle Ready Mix**
490 Barge Point Rd.
Clarksville, TN 37042
Primary Contact: Duane King
Phone: (931) 553-4101
Fax: (931) 553-5011
Website: screamingeagereadymix.com

**Sequatchie Concrete Service**
PO Box 129
South Pittsburg, TN 37380
Primary Contact: Fred Joseph
Phone: (423) 837-7913
Fax: (423) 837-7479
Website: sequconcrete.com
Product/Services: Ready Mix Concrete Production, Precast Concrete, Block, Sand, & Segmented Retaining Walls

**Additional Information:**

**Athens**
3106 Lee Hwy.
Athens, TN 37303
Phone: (423) 744-9049

**Chattanooga**
1400 East 39th Street
Chattanooga, TN 37407
Phone: (423) 867-4510

**Dunlap**
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Dayton, TN 37321
Phone: (423) 775-9878

**Knoxville**
PO Box 11869
Knoxville, TN 37939
Phone: (865) 524-3351

**Lexington**
535 Russell St.
Paris, TN 38242
Phone: (731) 682-6672

**Milan**
266 E. Church St.
Lexington, TN 38351
Phone: (731) 668-9672

**Paris**
86 United Dr.
Jackson, TN 38305
Phone: (731) 668-9672

**Tennessee ConCreTe**
2020 Neyland Dr.
Knoxville, TN 37916
Phone: (865) 544-0320

**Fax:** (931) 553-4501

**Screaming Eagle Ready Mix**
974 Sunset Drive
Trenton, GA 30752
Phone: (423) 837-0838

**South Pittsburg**
PO Box 1050
New Tazewell, TN 37824
Phone: (865) 573-4501

**Additional Information:**

**Bolivar**
18260 Hwy 125 South
Bolivar, TN 38008
Phone: (731) 658-6105

**Henderson**
745 US Hwy 45 S.
Henderson, TN 38340
Phone: (731) 989-9723

**Jackson**
86 Westover Rd
Jackson, TN 38301
Phone: (731) 422-5912

**Johnson City, TN 37605**
Primary Contact: Ernie E. Walker
Phone: (423) 928-2128
Fax: (423) 926-7867
Website: transitmix.com
Product/Services: Ready Mixed Concrete, Stone Slinger Services, Concrete Building Products, ICF Distributor, Retaining Wall Blocks

**Knoxville, TN 37916**
Primary Contact: Wade Williams
Phone: (731) 925-0271
Fax: (731) 925-9894
Website: rivercity-concrete.com
Product/Services: Ready Mix Concrete, Precast Products, Building Materials, Conveyor Placing, Sand, Gravel, ACI & TDOT Certified

**Knoxville, TN 37904**
Primary Contact: Stacey Harvey
Phone: (931) 682-6672
Fax: (931) 686-8001
Website: superiorwallstn.com
Product/Services: Ready Mixes concrete, precast foundation walls, slabs, & sound barrier walls

**Knoxville, TN 37916**
Primary Contact: Rick Odle
Phone: (731) 422-3358
Fax: (731) 427-1604
Website: southernconcrete.com
Product/Services: Ready Mix Concrete, Precast Foundation, Building Materials, & Septic Tanks

**Knoxville, TN 37932**
Primary Contact: Donny Herron
Phone: (901) 466-3030
Fax: (901) 466-3090
Website: superiorwallstn.com
Product/Services: Ready Mix Concrete & Concrete Tools

**Knoxville, TN 37939**
Primary Contact: Jeff VanHoose
Phone: (865) 458-3998
Fax: (865) 458-3494
Website: vanhooseco.com
Product/Services: Roller Compacted Concrete, Self Consolidating Concrete, Pervious Concrete, Precast Products, On Site Certified Lab

**Knoxville, TN 37940**
Primary Contact: Herron Odle
Phone: (901) 466-3030
Fax: (901) 466-3090
Product/Services: Ready Mix Concrete Services

**VanHooseo Ready Mix**
244 Blair Bend Dr.
Loudon, TN 37774
Primary Contact: Jeff VanHoose
Phone: (865) 458-3998
Fax: (865) 458-3494
Website: vanhooseco.com
Product/Services: Roller Compacted Concrete, Self Consolidating Concrete, Pervious Concrete, Precast Products, On Site Certified Lab

**Volunteer Ready Mix**
70 S. Railroad St.
Waverly, TN 37185
Primary Contact: Donny Countrymen
Phone: (931) 296-5121
Fax: (931) 296-4568
Website: volredimix.com
Product/Services: Ready Mixed Concrete & Concrete Tools

**West TN Ready Mix**
380 Pierce Rd.
Oakland, TN 38060
Primary Contact: Herron Odle
Phone: (901) 466-3030
Fax: (901) 466-3090
Product/Services: Ready Mix Concrete Services

**Tri-Count Concrete Products**
100 Eaton St.
Parsons, TN 38363
Primary Contact: Jeremy Pearcy
Phone: (731) 847-6670
Fax: (731) 847-6671
Website: tri-countconcrete.com
Product/Services: Ready Mixed Concrete Services, Septic Tanks, Pipe, Rebar, Wire, Masonry Supplies

**Tri-Count Concrete Products**
244 Blair Bend Dr.
Loudon, TN 37774
Primary Contact: Jeff VanHoose
Phone: (865) 458-3998
Fax: (865) 458-3494
Website: vanhooseco.com
Product/Services: Roller Compacted Concrete, Self Consolidating Concrete, Pervious Concrete, Precast Products, On Site Certified Lab

**Volunteer Ready Mix**
70 S. Railroad St.
Waverly, TN 37185
Primary Contact: Donny Countrymen
Phone: (931) 296-5121
Fax: (931) 296-4568
Website: volredimix.com
Product/Services: Ready Mixed Concrete & Concrete Tools
**Admixture**

**BASF Admixtures**
23700 Chargin Blvd
Cleveland, OH 44122
Primary Contact: Rickey Swaney
Phone: (205) 966-3115
Website: http://basfadmixtures.com

**Products/Services:** Glenium Series of Admixtures, Green Sense Concrete, MasterFiber, x-seed Accelerator, MasterLife 300D Waterproofing

**Additional Information:**
Denny Lind (615) 390-4899
David Parker (865) 255-2964
Drag Yarbro (901) 484-9190

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62 Whitemore Ave.
Cambridge, MA 02140
Primary Contact: Daniel Meine
Phone: (678) 428-4224
Website: http://gcp.com

**Products/Services:** Full Line of Chemical Admixtures for Precast, Masonry & Ready Mixed Concrete, Color & Fiber Products for Ready Mixed Concrete.

**Sika Corporation**
315 North Ebright St
Mesquite, TX 75149
Primary Contact: Chuck Beaty
Phone: (501) 259-4317
Fax: (501) 843-0990
Website: http://usa.sika.com

**Products/Services:** Admixtures

---

**Aggregate**

**Pine Bluff Materials Co.**
1030 Visco Drive
Nashville, TN 37210
Primary Contact: Mike Bohleber
Phone: (615) 254-1956
Fax: (615) 254-1960
Website: http://pinebluff.com

**Rogers Group Inc.**
PO Box 25250
Nashville, TN 37202
Primary Contact: Granville Grant
Phone: (615) 780-5758
Website: http://rogersgroupinc.com

**Stalite Co.**
PO Box 1037
Salisbury, NC 28145
Primary Contact: Paul Hoben
Phone: (704) 637-1515
Fax: (704) 642-1572
Website: http://stalite.com

**Vulcan Materials Co.**
115 East Park Dr.
Suite 100
Brentwood, TN 37027
Primary Contact: Steve McIntire
Phone: (615) 210-6927
Fax: (615) 399-0167
Website: https://vulcanmaterials.com

**Additional Information:**
Kyle Weatherly (704) 640-2788

---

**Cement**

**Buzzi Unicem USA, Inc.**
5545 Murray Rd
Memphis, TN 38119
Primary Contact: Dan Rinke
Phone: (901) 682-8848
Fax: (901) 682-8852
Website: http://buzziunicemusa.com

**Cemex**
PO Box 100813
Birmingham, AL 35210
Primary Contact: Lynn Rasco
Phone: (205) 967-5211
Fax: (205) 967-5266
Website: http://cemexusa.com

**Cotnoir**
PO Box 7755
Staith & Knoxville (423)645-4046

**Continental Cement Co.**
505 Tennessee St. #228
Memphis, TN 38103
Primary Contact: Dave Swanson
Phone: (319) 936-1221
Website: http://continentalcement.com

**Additional Information:**
Mickey Bradley (865) 567-7672
Cody Eaton (615) 478-7594

---

**Fiber**

**Durafiber, Inc.**
301 S. Perimeter Park Dr.
Suite 214
Nashville, TN 37211
Primary Contact: Mike Deaton
Phone: (615) 333-9883
Fax: (615) 333-9882
Website: http://durafiber.com

**Additional Information:**
Mike Gordan, VP Sales & Marketing (800) 625-1144
Terry Martin Terminal Mgr. (901) 525-0311

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**2016 Associate Members**

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**Associate Members**

**MiniFIBERS Inc.**  
2923 Boones Creek Road  
Johnson City, TN 37615  
*Primary Contact:* Dr. Bruce Prezzavento  
*Phone:* (423) 282-4242  
*Fax:* (423) 282-1450  
*Website:* minifibersinc.com  
*Products/Services:* Manufacturer of continuous, cute and fibrillated synthetic fibers

**AFFILIATE MEMBERS**

<table>
<thead>
<tr>
<th><strong>Tennessee ConCréte</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Command Alkon</td>
</tr>
</tbody>
</table>
| 1800 International Park Dr.  
| #400                  |
| Birmingham, AL 35243   |
| *Primary Contact:* Michael Wilson  
| *Phone:* (800) 624-1872  
| *Fax:* (205) 870-1405  
| *Website:* http://commandalkon.com  
| *Products/Services:* Batching Controls, Dispatching and Accounting Software, Production/Quality Control Software and Performance Management Software |

**Flyash**

**Headwaters Resources**  
PO Box 9747  
Fayetteville, AR 72703  
*Primary Contact:*  
*Phone:* (801) 984-9400  
*Fax:* (866) 449-8110  
*Website:* http://flyash.com  
*Products/Services:* Fly Ash Sales, Fly Ash Disposal, Bottom Ash Sales, Bottom Ash Disposal.  
*Additional Information:*  
Bryan Strevel (615) 828-7332  
East & Middle TN  
Greg Thomas (501) 844-6607  
West TN

**Bauer-Askew Architects**  
1615 16th Ave. South  
Nashville, TN 37212  
*Primary Contact:*  
*Phone:* (615) 467-2796  
*Website:* http://baueraskewarchitecture.com  
*Products/Services:* Architectural Services

**American Geothermal, Inc.**  
1037 Old Salem Road  
Murfreesboro, TN 37129  
*Primary Contact:* Jack Womack  
*Phone:* (615) 890-6926  
*Fax:* (615) 890-6926  
*Website:* http://amgeo.com  
*Products/Services:* Air Source Heat Pumps, Chillers, and Hot Water Heaters with Water Source Heat Pumps

**Barnes Industrial Group**  
PO Box 11098  
Murfreesboro, TN 37129  
*Primary Contact:* Chris Davenport  
*Phone:* (615) 957-4600  
*Fax:* (636) 394-1582  
*Website:* http://barnesindustrialgroup.com  
*Products/Services:* Con-E-Co/McNeilus Batch Plants, BFK Reclaimers, Advanced Filtration, Inferno-Therm Hot Water Chiller Systems, Batch Plant Ports/Components, and Dust Control Systems

**CEI Enterprises, Inc. An Astec Co.**  
245 Woodward Rd. SE  
ALbuquerque, NM 87102  
*Primary Contact:* Jim Johnson  
*Phone:* (505) 243-1422  
*Website:* http://ceienterprises.com  
*Products/Services:* Manufacture & Service Concrete & Asphalt Plants, RCC Mixers, Precast Plants & Mixers, Dust Control Equip.

**CEMEX Knoxville Cement Plant**  
6212 Cement Plant Road  
Knoxville, TN 37924  
*Phone:* (800) 352-7582

**Architects**

<table>
<thead>
<tr>
<th><strong>ArChiteCTs</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>bauer-askew architects</strong></td>
</tr>
</tbody>
</table>
| 1615 16th Ave. South  
| Nashville, TN 37212  
| *Primary Contact:*  
| *Phone:* (615) 467-2796  
| *Website:* http://baueraskewarchitecture.com  
| *Products/Services:* Architectural Services |

**Batch Plants & Equipment**

<table>
<thead>
<tr>
<th><strong>American Geothermal, Inc.</strong></th>
</tr>
</thead>
</table>
| 1037 Old Salem Road  
| Murfreesboro, TN 37129  
| *Primary Contact:* Jack Womack  
| *Phone:* (615) 890-6926  
| *Fax:* (615) 890-6926  
| *Website:* http://amgeo.com  
| *Products/Services:* Air Source Heat Pumps, Chillers, and Hot Water Heaters with Water Source Heat Pumps |

<table>
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<th><strong>Barnes Industrial Group</strong></th>
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| PO Box 11098  
| Murfreesboro, TN 37129  
| *Primary Contact:* Chris Davenport  
| *Phone:* (615) 957-4600  
| *Fax:* (636) 394-1582  
| *Website:* http://barnesindustrialgroup.com  
| *Products/Services:* Con-E-Co/McNeilus Batch Plants, BFK Reclaimers, Advanced Filtration, Inferno-Therm Hot Water Chiller Systems, Batch Plant Ports/Components, and Dust Control Systems |

<table>
<thead>
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<th><strong>CEI Enterprises, Inc. An Astec Co.</strong></th>
</tr>
</thead>
</table>
| 245 Woodward Rd. SE  
| ALbuquerque, NM 87102  
| *Primary Contact:* Jim Johnson  
| *Phone:* (505) 243-1422  
| *Website:* http://ceienterprises.com  
| *Products/Services:* Manufacture & Service Concrete & Asphalt Plants, RCC Mixers, Precast Plants & Mixers, Dust Control Equip. |

We invite you to learn more about our integrated network of quality concrete products and services by visiting our web site at [www.cemexusa.com](http://www.cemexusa.com) or contacting your local CEMEX representative.

**CEMEX Knoxville Cement Plant**  
6212 Cement Plant Road  
Knoxville, TN 37924  
*Phone:* (800) 352-7582

<table>
<thead>
<tr>
<th><strong>The SEFA Group</strong></th>
</tr>
</thead>
</table>
| 217 Cedar Rd.  
| Lexington, SC 29073  
| *Primary Contact:* Bert Nunn  
| *Phone:* (803) 520-9000  
| *Fax:* (803) 520-9001  
| *Website:* http://sefagroup.com  
| *Products/Services:* Class F Fly Ash, Technical Services & Engineering  
| *Additional Information:*  
Mark Casey Technical Sales & Service (865) 806-6950  
Clark Gates Technical Sales & Service (615) 202-1001 |

**Waste Management/Fly Ash Direct**  
5128 Grand Oak Way  
Brentwood, TN 37027  
*Primary Contact:* Bill Hunt  
*Phone:* (615) 419-1915  
*Fax:* (513) 871-1974  
*Website:* http://flyashdirect.com  
*Products/Services:* Dry Bulk Fly Ash, TDOT Approved Class C  
*Additional Information:*  
Bill Hunt, Business Dev. Mgr. (615) 419-1915

**Stephens Mfg Co. Inc.**  
PO Box 488  
Thompkinsville, KY 42167  
*Primary Contact:* Greg High  
*Phone:* (270) 487-6774  
*Fax:* (270) 487-8368  
*Website:* http://stephensmfg.com  
*Products/Services:* Portable concrete plants central dust collectors, vents, stationary concrete plants silos conveyors, Precast equipment, Ready mix reclaimers, material handling systems, RCC mixers.

**Systems & Controls**  
1850 Old Hwy 95  
Lenoir City, TN 37771  
*Primary Contact:* Mark McHenry  
*Phone:* (865) 988-0397  
*Fax:* (865) 988-8583  
*Website:* http://systemsandcontrols.com  
*Products/Services:* Stephens Concrete Plants, Control SolutionsBatch Computers, Badger Meters, Hydronix Moisture Probes, Scales Service and Calibration

**Additional Information:**

<table>
<thead>
<tr>
<th><strong>MinifIbERS Inc.</strong></th>
</tr>
</thead>
</table>
| 2923 Boones Creek Road  
| Johnson City, TN 37615  
| *Primary Contact:* Dr. Bruce Prezzavento  
| *Phone:* (423) 282-4242  
| *Fax:* (423) 282-1450  
| *Website:* minifibersinc.com  
| *Products/Services:* Manufacturer of continuous, cute and fibrillated synthetic fibers |

**MinifIbERS Inc.**

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| *Fax:* (423) 282-1450  
| *Website:* minifibersinc.com  
<p>| <em>Products/Services:</em> Manufacturer of continuous, cute and fibrillated synthetic fibers |</p>
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<tr>
<th>Company Name</th>
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<tr>
<td>The Vince Hagan Co.</td>
<td>3500 Oak Lawn Ave.</td>
<td>(615) 837-1452, (615) 837-1450</td>
</tr>
<tr>
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<tr>
<td>The Building &amp; Earth Sciences, Inc.</td>
<td>3554 Derby Dr.</td>
<td>(205) 836-6300, (205) 836-9007</td>
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<tr>
<td>Engineering &amp; Testing Labs</td>
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<tr>
<td>AMEC Foster Wheeler</td>
<td>3800 Ezell Rd. Suite 100</td>
<td>(615) 333-0630, 615) 333-0630</td>
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<td>PRIMARY CONTACT</td>
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<tr>
<td>CONSTRUCTION EQUIPMENT</td>
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<tr>
<td>Multivibe, Inc.</td>
<td>3125 N. Friendship Rd. Paducah, KY 42001</td>
<td>(270) 554-2615, (270) 554-0631</td>
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<tr>
<td>Engineering &amp; Testing Solutions, LLC</td>
<td>PO Box 6212</td>
<td>(865) 963-4300, (865) 963-4301</td>
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</table>
Goodwyn, Mills & Cawood, Inc.
3310 West End Ave.
Suite 420
Nashville, TN 37203
Primary Contact: Patrick O’leary
Phone: (615) 333-7200
Fax: (615) 333-0529
Website: http://gmcnetwork.com
Products/Services: A multi-discipline A/E firm, regionally located in the southeastern portion of the US.

K.S. Ware & Associates LLC
54 Lindseys Ave.
Nashville, TN 37210
Primary Contact: Kathryn S. Ware
Phone: (615) 255-9702
Fax: (615) 256-5873
Website: http://kswarellc.com
Products/Services: Concrete, Asphalt, and Aggregate Testing

KSV Engineering, PLLC
401 N. Tyron Street
10th Floor
Charlotte, NC 28202
Primary Contact: James Slusher
Phone: (704) 998-5553
Website: http://ksvgroup.com
Products/Services: Engineering services

Patriot Eng & Environmental, Inc.
109 Space Park North
Goodlettsville, TN 37072
Primary Contact: Andy Ferris
Phone: (615) 528-4441
Fax: (615) 528-5300
Website: http://patrioteng.com
Products/Services: Construction Materials Testing & Inspection, Special Inspections, Geotechnical Engineering, Environmental Consulting.

Professional Engineers, Inc.
PO Box 31343
Knoxville, TN 37930
Primary Contact: David K. Berry
Phone: (865) 690-8262
Fax: (423) 690-4473
Products/Services: Field & Laboratory testing of concrete, grout & mortar

PSI Inc.
751 South 5th St.
Nashville, TN 37206
Primary Contact: Ted Kesselovich
Phone: (615) 244-8990
Fax: (615) 242-1618
Website: http://psiusa.com
Products/Services: ASHHTO Certified Laboratory, ARML (ASTM E329), ACI, ASNT & CWI

Ragan-Smith Associates, Inc.
PO Box 60070
Nashville, TN 38206
Primary Contact: Jay Floyd
Phone: (615) 244-8591
Fax: (615) 244-6739
Website: http://ragansmith.com
Products/Services: Engineering Services

Ross Bryan Associates, Inc.
227 French Landing Dr.
Suite 500
Nashville, TN 37228
Primary Contact: Donald E. Yarbrough
Phone: (615) 329-1300
Fax: (615) 327-4446
Website: http://rossbryan.com
Products/Services: Structural Engineering

SME, Inc.
1413 Topside Road
Louisville, TN 37777
Primary Contact: John Pearson
Phone: (865) 970-0003
Fax: (865) 970-2312
Website: http://smeinc.com
Products/Services: Concrete Testing, Soil & Rock Testing, Aggregate Testing, Construction Monitoring Services, Geotechnical Engineering

Smith Beckman Reid, Inc.
2995 Sidco Dr.
Nashville, TN 37204
Primary Contact: Steve Lane
Phone: (615) 383-1113
Fax: (615) 386-8469
Website: http://ssr-inc.com
Products/Services: Engineering Services to Private & Public Entities, Pervious Certified

Stantec Consulting Services, Inc.
601 Grassmere Park Rd.
Suite 22
Nashville, TN 37211
Primary Contact: Steven Field
Phone: (615) 885-1144
Fax: (615) 885-1113
Website: http://stantec.com
Products/Services: Engineering Services

Terracon Consultants, Inc.
5217 Linbar Drive
Suite 309
Nashville, TN 37211
Primary Contact: Nick Fuller
Phone: (615) 333-6444
Fax: (615) 333-6443
Website: http://terracon.com
Products/Services: Construction Materials, Environmental, Geotechnical Engineering, Engineering & Consulting Services

Terranova Engineering
170-D East Main Street
Hendersonville, TN 37075
Primary Contact: Daniel D. Terranova
Phone: (615) 509-6012
Website: http://terranova-engineering.com

Thompson Engineering, Inc.
630 Chestnut St.
Chattanooga, TN 37402
Primary Contact: Randy E Brown
Phone: (423) 756-7970
Fax: (423) 756-7950
Website: http://thompsonengineering.com
Products/Services: Consulting, Inspection, Testing, Survey & Design

TTL, Inc.
5010 Linbar Drive
Suite 153
Nashville, TN 37211
Primary Contact: Martin Medley
Phone: (615) 331-7770
Fax: (615) 331-7771
Website: http://tlinc.com
Products/Services: Geotechnical Engineering, Construction and Material Testing, Environmental Testing

Vaughn & Melton Consulting Eng.
1909 Ailor Ave.
Knoxville, TN 37921
Primary Contact: Roger B. Long
Phone: (865) 546-5800
Fax: (865) 546-4714
Website: http://vaughnmelton.com
Products/Services: Consulting Engineering Full CEI Services Work with TDOT & Local Governments
Material Suppliers

Butterfield Color Co.
625 W. Illinois Ave.
Aurora, IL 60506
Primary Contact: Jim Mullins
Phone: (317) 966-1980
Fax: (630) 906-1982
Website: http://butterfieldcolorco.com
Products/Services: Decorative Concrete Products, Integral Color, Stamping Tools, Training, Stains, Overlays

Interstar Materials
5762 Citadel
Rockvale, TN 37153
Primary Contact: Chris Davenport
Phone: (615) 438-0191
Fax: (615) 533-3636
Website: http://interstar.ca
Products/Services: Distributor Concrete Color Pigments (powder & granular), Admixtures, Fiber, Automated Color Dispensers

Sicalco, Ltd.
522 Chestnut St.
Suit GB
Hinsdale, IL 60521
Primary Contact: Frank Sibr
Phone: (630) 731-2655
Fax: (630) 371-1026
Website: http://sicalco.net
Products/Services: Distributor of Liquidow(tm) Calcium Chloride, Pealdow, Dowflake Xtra

Scolwood Industries
12980 Metcalf Ave.
Suite 240
Overland Park, KS
Primary Contact: Mike Dolin
Phone: (314) 566-4153
Fax: (913) 851-3553
Website: http://scolwoodindustries.com
Products/Services: 32% Calcium Chloride Concrete Accelerator, Dust Control Materials

Columba Precast, LLC
PO Box 1499
Columbia, TN 38402
Primary Contact: Joe Taylor
Phone: (931) 381-1074
Fax: (931) 381-3328
Website: http://columbiaprecast.com
Products/Services: Architectural Precast

Forterra Building Products
200 42nd Avenue North
Nashville, TN 37209
Primary Contact: Marcus Barnett
Phone: (615) 889-0700
Fax: (615) 354-5170
Website: http://forterrapipeandprecast.com
Products/Services: Precast Concrete Pipe, Box Culverts, Structures

Gate Precast Co.
1 Bluegrass Drive
Ashland City, TN 37015
Primary Contact: James Pearson
Phone: (615) 792-4871
Fax: (615) 792-7608
Website: http://gateprecast.com
Products/Services: Precast concrete-wall panel-column covers-spandrels

Ross Prestressed Concrete
PO Box 6299
Knoxville, TN 37914
Primary Contact: David Miller
Phone: (865) 524-1485
Fax: (865) 637-0831
Website: http://rossprestress.com
Products/Services: Precast & Prestressed Concrete Members, Hollowcore Plank

Trucking

Pyles Transport, Inc.
185 Athens Dr.
Nashville, TN 37210
Primary Contact: Mike Benedict
Phone: (800) 206-2063
Website: http://pylestransport.com
Products/Services: Transporting Cement, Fly Ash, Lime & Other Dry Materials

McNeilus Truck
PO Box 367
Villa Rica, GA 30180
Primary Contact: Brad Towler
Phone: (770) 459-5151
Fax: (770) 459-0068
Website: http://mcneiluscompanies.com
Products/Services: Distributor for Trucks and Mixers, Designed for Production & Safety

Terex Advance Mixer
7727 Freedom Way
Fort Wayne, IN 46898
Primary Contact: David Rinas
Phone: (260) 497-7028
Fax: (260) 969-4528
Website: http://terexrb.com
Products/Services: Front & Rear Discharge Ready Mix Trucks, All Parts & Service

Precast

Bradley Tank & Pipe, LLC
PO Box 3146
Cleveland, TN 37328
Primary Contact: Eddie Johnson
Phone: (423) 479-4482
Fax: (423) 476-4527
Website: http://terexrb.com
Products/Services: Distributor Concrete Color Pigments (powder & granular), Admixtures, Fiber, Automated Color Dispensers

Gate Precast Co.
1 Bluegrass Drive
Ashland City, TN 37015
Primary Contact: James Pearson
Phone: (615) 792-4871
Fax: (615) 792-7608
Website: http://gateprecast.com
Products/Services: Precast concrete-wall panel-column covers-spandrels

Ross Prestressed Concrete
PO Box 6299
Knoxville, TN 37914
Primary Contact: David Miller
Phone: (865) 524-1485
Fax: (865) 637-0831
Website: http://rossprestress.com
Products/Services: Precast & Prestressed Concrete Members, Hollowcore Plank

Volkert Inc.
1428 Chestnut St.
Chattanooga, TN 37402
Primary Contact: Jim Floyd
Phone: (423) 842-3335
Fax: (423) 842-8630
Website: http://volkert.com
Products/Services: Engineering, Surveying and Construction Engineering and Inspection (CEI)
<table>
<thead>
<tr>
<th>Company Name</th>
<th>Address</th>
<th>City, State</th>
<th>Phone Numbers</th>
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<tr>
<td>Advantage Const. Services</td>
<td>1208 Hwy 47 E</td>
<td>Dickson, TN 37055</td>
<td>(615) 740-8777</td>
<td>Products/Services: Construction Services</td>
</tr>
<tr>
<td>American Constructors, Inc.</td>
<td>PO Box 120129</td>
<td>Nashville, TN 37212</td>
<td>(615) 329-0123</td>
<td>Products/Services: Concrete &amp; Asphalt Paving, Aggregate Base</td>
</tr>
<tr>
<td>APAC Tennesse, Inc.</td>
<td>PO Box 13427</td>
<td>Memphis, TN 38113</td>
<td>(901) 947-5600</td>
<td>Products/Services: Construction &amp; Asphalt Paving, Aggregate Base</td>
</tr>
<tr>
<td>Aubrey Black Decorative</td>
<td>232 Morgan Rd</td>
<td>Trenton, GA 30752</td>
<td>(706) 938-3247</td>
<td>Products/Services: Decorative Concrete, Spray-Deck, Stamped Concrete Overlay, Acid Staining</td>
</tr>
<tr>
<td>Balz &amp; Sons Concrete</td>
<td>955 Estate Dr.</td>
<td>Eads, TN 38028</td>
<td>(901) 465-4337</td>
<td>Products/Services: Decorative Concrete, Pervious Concrete, Patios, Driveways, Pool Decks</td>
</tr>
<tr>
<td>Bell &amp; Associates</td>
<td>PO Box 363</td>
<td>Nashville, TN 37024</td>
<td>(615) 855-2249</td>
<td>Products/Services: Concrete &amp; Asphalt Paving, Aggregate Base</td>
</tr>
<tr>
<td>Charter Construction Inc.</td>
<td>PO Box 90970</td>
<td>Nashville, TN 37209</td>
<td>(615) 855-2249</td>
<td>Products/Services: Concrete Contractor, Finishing, Turn-Key Concrete Contractor</td>
</tr>
<tr>
<td>Blount Contractors, Inc.</td>
<td>PO Box 5088</td>
<td>Maryville, TN 37802</td>
<td>(865) 981-9090</td>
<td>Products/Services: Full Service Concrete Contractor</td>
</tr>
<tr>
<td>Brindley Construction</td>
<td>PO Box 303</td>
<td>Pulaski, TN 38478</td>
<td>(931) 363-4544</td>
<td>Products/Services: Concrete Services</td>
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<tr>
<td>BurWil Construction Co.</td>
<td>PO Box 637</td>
<td>Bristol, TN 37621</td>
<td>(423) 968-4158</td>
<td>Products/Services: Concrete Services</td>
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<tr>
<td>Cement Masons Local 78</td>
<td>PO Box 3130</td>
<td>Knoxville, TN 37927</td>
<td>(865) 522-3000</td>
<td>Products/Services: Concrete Masons &amp; Commercial</td>
</tr>
<tr>
<td>Cement Masons Local 909</td>
<td>2001 Elm Hill Pike</td>
<td>Nashville, TN 37210</td>
<td>(865) 884-3111</td>
<td>Products/Services: Concrete Walls, Footings, Flatwork, Stamped Concrete, Driveways, Acid Staining</td>
</tr>
<tr>
<td>Dempster Poured Foundations LLC</td>
<td>PO Box 11331</td>
<td>Knoxville, TN 37939</td>
<td>(865) 855-2249</td>
<td>Products/Services: Design-Build Construction Services to Industrial, Institutional &amp; Commercial Facilities</td>
</tr>
<tr>
<td>Denham-Blythe Co., Inc.</td>
<td>855 Springfield Hwy</td>
<td>Goodlettsville, TN 37027</td>
<td>(865) 487-4158</td>
<td>Products/Services: Concrete Masons &amp; Commercial</td>
</tr>
<tr>
<td>Dusty &amp; Sons Concrete, LLC</td>
<td>2478 Greens Mill Rd.</td>
<td>Columbia, TN 38401</td>
<td>(931) 334-9785</td>
<td>Products/Services: Concrete Walls, Footings, Flatwork, Stamped Concrete, Driveways, Acid Staining, Spray on Water Proofing, Exterior Concrete Countertops, Decorative, Cast in Place &amp; Pervious</td>
</tr>
<tr>
<td>Fulmer Concrete Finishing Co. Inc.</td>
<td>PO Box 292</td>
<td>Chattanooga, TN 37416</td>
<td>(423) 987-9895</td>
<td>Products/Services: Concrete Contractor, Finishing, Turn-Key Concrete Contractor</td>
</tr>
<tr>
<td>George Witherspoon Concrete</td>
<td>3992 Buffalo Rd</td>
<td>Summertown, TN 38483</td>
<td>(931) 334-9785</td>
<td>Products/Services: Concrete Contractor, Finishing, Turn-Key Concrete Contractor</td>
</tr>
<tr>
<td>Glenn E. Mitchell &amp; Co., Inc.</td>
<td>3583 Louisville Road</td>
<td>Louisville, TN 37777</td>
<td>(865) 588-5135</td>
<td>Products/Services: Poured In Place Walls</td>
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<tr>
<td>Hamilton-Elles, Inc.</td>
<td>2056 Fletcher Creek Dr. #102</td>
<td>Memphis, TN 38133</td>
<td>(901) 213-9320</td>
<td>Products/Services: Concrete &amp; Commercial</td>
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<tr>
<td>Hawkins Asphalt Paving, LLC</td>
<td>PO Box 292</td>
<td>Wartrace, TN 37183</td>
<td>(931) 389-9775</td>
<td>Products/Services: Paving of City Streets, Subdivisions, Churches, Driveways &amp; Pervious Concrete</td>
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<tr>
<td>Howard W. Pence, Inc.</td>
<td>342 E. Dixie Ave.</td>
<td>Elizabethtown, KY 42701</td>
<td>(270) 737-8723</td>
<td>Products/Services: Concrete Contractor, Finishing, Turn-Key Concrete Contractor</td>
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<th>Company Name</th>
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<td>HR Concrete Solutions, LLC</td>
<td>9213 Pine Brook Dr.</td>
<td>(615) 754-4710</td>
<td>jonesbrosinc.com</td>
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<td>Road and Bridge Construction</td>
<td>James Reeves</td>
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<td>J &amp; S Construction Co., Inc.</td>
<td>1843 Foreman Dr.</td>
<td>(931) 729-9320</td>
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<td>Commercial, Bridge Repair</td>
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<td>JAY-TON Construction Co.</td>
<td>PO Box 142</td>
<td>(931) 729-3056</td>
<td>jay-ton.com</td>
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<td>Chris Dittman</td>
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<td>Jenkins &amp; Jenkins, Inc.</td>
<td>PO Box 182</td>
<td>(931) 729-9320</td>
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<td>Residential &amp; Commercial Concrete, Pervious Certified</td>
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<td>Jinks Concrete Contractors Inc.</td>
<td>1200A Hawkins Rd.</td>
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<td>Michael Jinks</td>
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<td>Jones Bros. Inc.</td>
<td>PO Box 727</td>
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<td>Mid-State Construction</td>
<td>PO Box 351</td>
<td>(931) 870-2000</td>
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<td>L.E. Myers Co.</td>
<td>401 Chestnut Street Suite 120</td>
<td>(931) 401-7592</td>
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<td>(615) 672-9234</td>
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MTSU CIM spent Spring Break 2016 along with the other three CIM schools left the U.S to be able to put theory into practice on a project in England. Students traveled to London and then on to the National Construction College in Bircham Newton, England, to participate in Constructionarium. During their week, two students from California State Chico, two students from NJIT, five students from Texas State and six students from MTSU along with Dr. John Schemmel from TX State and Mr. Jon Huddleston and Dr. Marcus Knight from MTSU constructed a scaled down replica of the Brewery Wharf Footbridge. The group was required to hold pre-con meetings each morning, bid and track expenses maintaining a profit and safe working conditions, conduct site layout and surveying, erect and tie rebar, build formwork, and pour and erect the bridge. Although long days with hard work, they were able to spend a day in London as tourists. Students from NJIT and MTSU were the first U.S. schools to participate in Constructionarium back in summer 2014 and we still maintain that title as of this spring.

Next, for the second year in a row, nine students from MTSU CIM traveled to the Dominican Republic to build concrete prisms to be placed in the ocean as artificial reef. The students spent 12 days in Sosua on the northern coast building and pouring up to four prisms per day. Several students were able to scuba dive with the local shop, Northern Coast Diving, to view the 19 prisms in the water from last year’s project. At the end of the week, a few members of the group also formed and poured a concrete CIM to serve as a marker on the reef for years to come! Special thanks to Sosua by the Sea for allowing us to take over their back patio to work and to Northern Coast Diving for helping us acquire materials and for placing the prisms in the next few weeks.
Lastly, for eight weeks this summer, eight MTSU CIM students are interning in United Arab Emirates. The group is staying and working at Nael Cement Products in Al-Ain, about ninety minutes from Dubai and Abu-Dhabi. Not only is it a great cultural experience, but the students are also getting a variety of industry experience, too. The company they are working with is unique as they have multiple divisions in the one location, including a precast plant; ready-mix plant; cement manufacturing plant; aluminum, glass and steel divisions; and a contracting division as well. Several of the students have had internships in the States and are able to shed light on the differences in the processes or equipment used overseas to the group. There are lots of night pours due to the 115 plus degree temperatures each day! Students are using their weekends wisely to explore the area like going to Dubai for indoor snow skiing, swimming in the Persian Gulf, and visiting the top floor of the Burj Khalifa. Students are interning for another month. You can follow their adventures online at http://mtsuciumae2016.wordpress.com.

CHECK OUT STUDENT ADVENTURES
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