

# RESULTS

2019 ASCE Southeast Student Conference

## **ROCKIN' IN THE SMOKIES**

March 28 - 30, 2019 - Knoxville, Tennessee



DEPARTMENT OF CIVIL &  
ENVIRONMENTAL ENGINEERING



# Scoring

## Format

COMPONENT	WEIGHT
<i>Concrete Canoe</i>	20%
<i>Professional Paper</i>	9%
Group A - 1	9%
Group A - 2	9%
Group A - 3	6%
Group A - 4	6%
Group B - 1	6%
Group B - 2	6%
Group B - 3	6%
Group B - 4	3%
Group B - 5	3%
Group C - 1	3%
Group C - 2	3%
Group C - 3	3%
Group C - 4	2%
Group C - 5	2%
Group C - 6	2%
<i>Sponsor Scavenger Hunt</i>	2%

### GROUP A

*Blue Sky*

*GeoWall*

*Innovation Contest*

*Sustainable Solutions*

### GROUP B

*Enter Sandman*

*Hack My Infrastructure*

*Like a Rolling Stone*

*Shake It Off*

*The Rocking Dead*

### GROUP C

*Come Together*

*Concrete Concerto*

*On Tour*

*Pothole Pitch*

*Sight Reading*

*T-Shirt Competition*

## Quality Points

Raw scores from competitions were not input directly into the scoring format. Instead, quality points were assigned based on an entry's ranking according to the following formula:

$$\text{QUALITY POINTS} = 10 + 90 \times \left(1 - \frac{\text{RANK} - 1}{\text{ENTRIES} - 1}\right)$$

where RANK is an entry's placement and ENTRIES is the number of entries in the competition. An entry's contribution toward a chapter's overall conference score was the quality points multiplied by the weight (e. g. first place in *Concrete Canoe* is 100 quality points multiplied by 20%, or 20 points toward overall conference score).

Disqualified entries were assigned zero quality points; however, these entries were still counted toward the number of entries in their respective competitions.

Tied entries were recognized jointly and without replacement (e.g. in case of two highest scoring entries, both are awarded first place, and the next highest scoring entry is awarded third place).

## Conditional Weights

A chapter's top two scores (by quality points) in Group A were weighted 9% each, while its bottom two scores were weighted 6% each.

A chapter's top three scores (by quality points) in Group B were weighted 6% each, while its bottom two scores were weighted 3% each.

A chapter's top three scores (by quality points) in Group C were weighted 3% each, while its bottom three scores were weighted 2% each.

**OVERALL**

PLACE	NAME	SCORE
1	University of Puerto Rico, Mayaguez	78.3
2	University of Florida	70.5
3	Kennesaw State University	68.6
4	University of Tennessee	63.5
5	Florida International University	55.7
6	University of Alabama in Huntsville	53.6
7	Florida A&M University - Florida State University	52.2
8	University of North Florida	50.8
9	Embry-Riddle Aeronautical University	50.0
10	Auburn University	49.5
11	University of South Alabama	48.5
12	Vanderbilt University	47.6
13	University of Central Florida	46.7
14	Florida Institute of Technology	38.9
15	University of South Florida	38.5
16	Florida Gulf Coast University	35.6
17	Tennessee Technological University	32.8
18	University of Alabama	30.8
19	University of Tennessee at Chattanooga	30.2
20	Lipscomb University	30.0
21	Georgia Southern University	25.5
22	Florida Atlantic University	24.0
23	University of Miami	23.5
24	Polytechnic University of Puerto Rico	21.6
25	Southeast University	19.0
26	Alabama A&M University	3.3
27	Savannah State University	1.5
28	Tennessee State University	0.0

Sponsored by:



## CONCRETE CANOE

PLACE	NAME
1	University of Florida
2	Kennesaw State University
3	University of South Florida
4	University of Alabama in Huntsville
5	University of Tennessee
6	University of Puerto Rico, Mayaguez
7	University of Alabama
8	Florida International University
9	Florida A&M University - Florida State University
10	Lipscomb University
10	University of Miami
12	Florida Institute of Technology
13	University of Central Florida
14	Vanderbilt University
15	University of Tennessee at Chattanooga
16	Auburn University
17	Florida Atlantic University
18	University of South Alabama
T-19	Embry-Riddle Aeronautical University
T-19	Florida Gulf Coast University
T-19	Georgia Southern University
T-19	Polytechnic University of Puerto Rico
T-19	Southeast University
T-19	Tennessee Technological University
T-19	University of North Florida

Rankings for individual *Concrete Canoe* categories are provided are included below but were not included in the overall conference score.

Race	
<b>CONCRETE CANOE</b>	
PLACE	NAME
1	University of Florida
2	University of Puerto Rico, Mayaguez
3	University of Alabama in Huntsville
4	Kennesaw State University
5	Florida Institute of Technology
6	Florida A&M University - Florida State University
7	University of South Florida
8	University of Tennessee
9	University of Central Florida
10	Florida International University
10	Auburn University
12	Florida Atlantic University
13	University of Alabama
14	University of South Alabama
15	Florida Gulf Coast University
16	Georgia Southern University
17	Lipscomb University
18	Polytechnic University of Puerto Rico
19	Southeast University
20	Tennessee Technological University
21	University of Miami
22	University of North Florida
23	University of Tennessee at Chattanooga
24	Vanderbilt University
25	Embry-Riddle Aeronautical University

**Paper**  
**CONCRETE CANOE**

<b>PLACE</b>	<b>NAME</b>
1	University of Florida
2	University of South Florida
3	Florida International University
4	Kennesaw State University
5	Lipscomb University
6	University of Alabama
7	University of Puerto Rico, Mayaguez
8	University of Alabama in Huntsville
9	University of Tennessee
10	Florida Institute of Technology
10	University of Central Florida
12	Southeast University
13	Vanderbilt University
14	University of Tennessee at Chattanooga
15	Florida A&M University - Florida State University
16	Georgia Southern University
17	Florida Atlantic University
18	Polytechnic University of Puerto Rico
19	University of Miami
20	Florida Gulf Coast University
21	Tennessee Technological University
22	University of North Florida
23	Auburn University
24	University of South Alabama
25	Embry-Riddle Aeronautical University

**Presentation**  
**CONCRETE CANOE**

<b>PLACE</b>	<b>NAME</b>
1	University of Florida
2	Kennesaw State University
3	University of Tennessee
4	University of Miami
5	University of South Florida
6	University of Alabama in Huntsville
7	University of Alabama
8	Vanderbilt University
9	University of Puerto Rico, Mayaguez
10	University of Tennessee at Chattanooga
10	Tennessee Technological University
12	Southeast University
13	Florida Institute of Technology
14	Lipscomb University
15	Florida A&M University - Florida State University
16	Florida International University
17	Florida Atlantic University
18	Florida Gulf Coast University
19	University of North Florida
20	Polytechnic University of Puerto Rico
21	University of Central Florida
22	University of South Alabama
23	Embry-Riddle Aeronautical University
24	Georgia Southern University
25	Auburn University

**Product**  
**CONCRETE CANOE**

<b>PLACE</b>	<b>NAME</b>
1	University of Florida
2	University of Tennessee
3	University of Puerto Rico, Mayaguez
4	University of Alabama in Huntsville
5	Kennesaw State University
6	University of South Florida
7	University of Alabama
8	Florida A&M University - Florida State University
9	University of Central Florida
10	Lipscomb University
10	Polytechnic University of Puerto Rico
12	University of North Florida
13	University of Miami
14	Florida Institute of Technology
15	Vanderbilt University
16	Southeast University
17	Florida International University
18	Embry-Riddle Aeronautical University
19	Auburn University
20	Florida Atlantic University
21	University of South Alabama
22	University of Tennessee at Chattanooga
23	Tennessee Technological University
24	Georgia Southern University
25	Florida Gulf Coast University

Sponsored by:



## PROFESSIONAL PAPER

PLACE	NAME
T-1	Georgia Southern University
T-1	University of Tennessee
3	Vanderbilt University
4	University of Florida
5	University of South Florida
6	Embry-Riddle Aeronautical University
7	Southeastern University
8	Florida International University
9	Auburn University
10	University of Puerto Rico, Mayaguez
11	University of North Florida
12	University of South Alabama
13	Florida Institute of Technology
14	Tennessee Technological University
15	University of Tennessee at Chattanooga
16	University of Central Florida
17	Florida A&M University - Florida State University
18	Lipscomb University
19	Kennesaw State University
20	Florida Gulf Coast University
21	University of Alabama in Huntsville
22	University of Alabama

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<b>BLUE SKY</b>	
<b>PLACE</b>	<b>NAME</b>
1	University of Puerto Rico, Mayaguez
2	University of Florida
3	Embry-Riddle Aeronautical University
4	Florida International University
5	Auburn University
6	University of Alabama in Huntsville
7	University of North Florida
8	Tennessee Technological University
9	Vanderbilt University
10	Florida Gulf Coast University
11	Kennesaw State University
12	Florida Institute of Technology
13	Florida A&M University - Florida State University
14	Georgia Southern University

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<b>GEO WALL</b>	
<b>PLACE</b>	<b>NAME</b>
1	University of Tennessee
2	Kennesaw State University
3	University of Central Florida
4	University of Alabama in Huntsville
5	Auburn University
6	University of Puerto Rico, Mayaguez
7	Embry-Riddle Aeronautical University
8	University of North Florida
DQ	Florida A&M University - Florida State University
DQ	Florida Gulf Coast University
DQ	Florida Institute of Technology
DQ	Florida International University
DQ	Georgia Southern University
DQ	Polytechnic University of Puerto Rico
DQ	Southeast University
DQ	Tennessee State University
DQ	University of Alabama
DQ	University of Florida
DQ	University of South Alabama
DQ	Vanderbilt University

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**BUCKEYE BRIDGE,  
LLC**



## INNOVATION CONTEST

PLACE	NAME
1	University of South Alabama
2	Embry-Riddle Aeronautical University
3	Kennesaw State University
4	University of Puerto Rico, Mayaguez
5	Florida A&M University - Florida State University
6	University of Florida
7	Florida Gulf Coast University
8	University of Central Florida
9	Florida Institute of Technology
10	Georgia Southern University

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## SUSTAINABLE SOLUTIONS

PLACE	NAME
1	Florida A&M University - Florida State University
2	Kennesaw State University
3	University of Puerto Rico, Mayaguez
4	Tennessee Technological University
5	Florida International University
6	University of Florida
7	University of Tennessee
8	University of North Florida
9	University of Miami
10	University of Alabama in Huntsville
11	University of Central Florida
12	University of South Alabama
DQ	Auburn University

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**Hale Construction, Inc.**

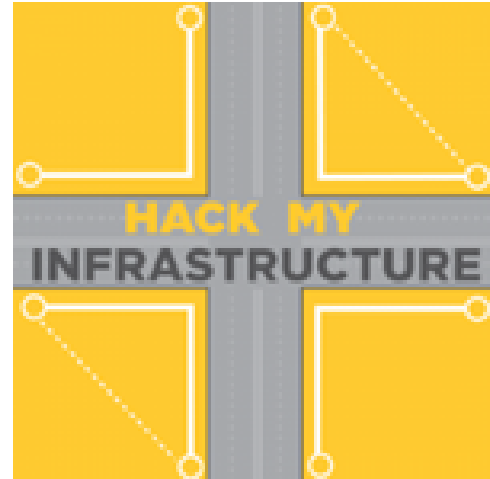


**ENTER SANDMAN**

PLACE	NAME
1	University of South Alabama
2	University of Puerto Rico, Mayaguez
3	Florida Gulf Coast University
T-4	Kennesaw State University
T-4	University of Tennessee
6	University of Florida
7	University of North Florida
8	Florida A&M University - Florida State University
9	Vanderbilt University

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**BARGE**  
DESIGN SOLUTIONS



## HACK MY INFRASTRUCTURE

PLACE	NAME
1	Vanderbilt University
2	University of Florida
3	University of North Florida
4	University of Puerto Rico, Mayaguez
5	University of Tennessee at Chattanooga
6	Kennesaw State University
7	University of Tennessee
8	Florida A&M University - Florida State University
9	University of South Alabama
10	Florida Gulf Coast University
11	Florida International University

Sponsored by:



**LIKE A ROLLING STONE**

PLACE	NAME
1	University of Puerto Rico, Mayaguez
2	University of Florida
3	Auburn University
4	University of Tennessee
5	University of Alabama in Huntsville
6	Polytechnic University of Puerto Rico
7	University of North Florida
8	Florida International University
9	Lipscomb University
10	Florida Gulf Coast University
11	University of South Alabama
12	Florida Institute of Technology
13	Vanderbilt University
14	Florida A&M University - Florida State University
15	Embry-Riddle Aeronautical University
16	Florida Atlantic University
17	University of Central Florida
18	Kennesaw State University

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## SHAKE IT OFF

PLACE	NAME
1	Auburn University
2	University of South Alabama
3	Florida Atlantic University
4	Florida Institute of Technology
5	University of Puerto Rico, Mayaguez
6	Embry-Riddle Aeronautical University
7	Tennessee Technological University
8	Vanderbilt University
T-9	Kennesaw State University
T-9	University of Alabama in Huntsville
T-9	University of Central Florida
12	University of North Florida
13	Florida A&M University - Florida State University
14	University of Alabama
15	Florida International University
16	University of Tennessee at Chattanooga
17	University of Florida
18	University of Tennessee
T-19	Florida Gulf Coast University
T-19	University of Miami

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## THE ROCKING DEAD

PLACE	NAME
1	Florida International University
2	Southeast University
3	University of South Florida
4	Polytechnic University of Puerto Rico
5	Auburn University
6	Florida Atlantic University
7	University of Tennessee at Chattanooga
8	University of Alabama
9	Vanderbilt University
10	University of Alabama in Huntsville
11	University of Central Florida
12	Embry-Riddle Aeronautical University
13	University of North Florida
14	Florida Gulf Coast University
15	Kennesaw State University
16	Lipscomb University
17	University of Puerto Rico, Mayaguez
18	Georgia Southern University
19	University of South Alabama
20	Alabama A&M University
21	University of Tennessee
22	University of Florida
23	Florida A&M University - Florida State University
24	University of Miami
25	Florida Institute of Technology

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**Mike Hicks**  
**John Scobey**



**COME TOGETHER**

PLACE	NAME
1	University of South Alabama
2	University of Puerto Rico, Mayaguez
3	Polytechnic University of Puerto Rico
T-4	University of North Florida
T-4	University of Tennessee
6	Florida A&M University - Florida State University
7	Florida Gulf Coast University
8	Florida International University
9	Florida Institute of Technology
10	University of Central Florida
11	University of Florida
12	Kennesaw State University
13	Georgia Southern University
14	Embry-Riddle Aeronautical University
15	University of Alabama

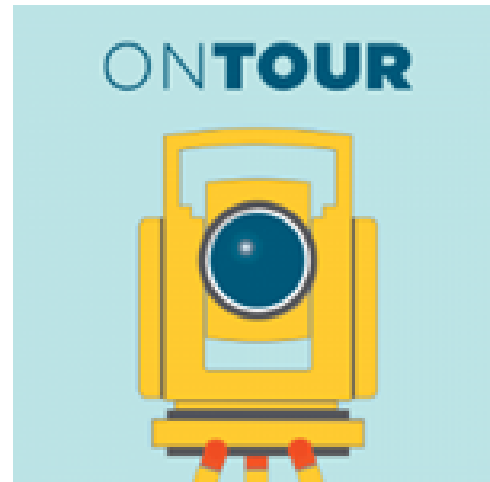
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**CONCRETE CONCERTO**

PLACE	NAME
1	University of Central Florida
2	Florida Institute of Technology
3	Kennesaw State University
4	University of North Florida
5	University of Puerto Rico, Mayaguez
6	University of South Alabama
7	University of Miami
8	Lipscomb University
9	Florida A&M University - Florida State University
10	University of Alabama in Huntsville
11	University of Alabama
12	University of Florida
13	Vanderbilt University
14	Florida Gulf Coast University
15	Georgia Southern University
16	Florida Atlantic University
17	Auburn University
18	Tennessee Technological University
19	Embry-Riddle Aeronautical University

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ON TOUR	
PLACE	NAME
1	University of Tennessee
2	Florida International University
3	University of Florida
4	University of Puerto Rico, Mayaguez
5	Florida A&M University - Florida State University
6	University of Alabama
7	University of South Alabama
8	Florida Gulf Coast University
9	Kennesaw State University
10	University of Tennessee at Chattanooga
11	Tennessee Technological University
12	University of Miami
13	University of South Florida
14	University of Alabama in Huntsville
15	University of Central Florida
16	Auburn University
17	Florida Institute of Technology
18	Vanderbilt University
19	Georgia Southern University
20	Embry-Riddle Aeronautical University
21	University of North Florida
22	Lipscomb University
23	Alabama A&M University

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**Stowers**



## POTHOLE PITCH

PLACE	NAME
1	University of North Florida
2	Vanderbilt University
3	Florida A&M University - Florida State University
4	University of Central Florida
5	Florida Gulf Coast University
6	Kennesaw State University
7	Tennessee Technological University
8	University of South Alabama
9	University of Puerto Rico, Mayaguez
10	Embry-Riddle Aeronautical University
11	University of Tennessee at Chattanooga
12	Florida Institute of Technology
13	University of South Florida
14	University of Tennessee
15	Lipscomb University
16	University of Alabama in Huntsville
17	University of Florida
18	Florida Atlantic University
19	University of Miami
20	Auburn University
21	Florida International University
22	Georgia Southern University
23	University of Alabama
24	Polytechnic University of Puerto Rico
25	Savannah State University

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**SIGHT READING**

PLACE	NAME
1	Florida A&M University - Florida State University
2	University of Tennessee
3	University of Florida
4	Lipscomb University
5	Vanderbilt University
6	University of Tennessee at Chattanooga
7	University of Central Florida
8	University of South Florida
9	University of North Florida
10	Auburn University
11	Kennesaw State University
12	Florida Institute of Technology
13	Florida Atlantic University
14	Tennessee Technological University
15	University of Alabama in Huntsville
16	Florida International University
17	University of Alabama
18	Georgia Southern University
19	Alabama A&M University
20	Florida Gulf Coast University
21	University of South Alabama
22	University of Puerto Rico, Mayaguez

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## T-SHIRT COMPETITION

PLACE	NAME
1	Florida International University
2	Florida Institute of Technology
3	Vanderbilt University
4	Embry-Riddle Aeronautical University
5	Georgia Southern University
6	Lipscomb University
T-7	Polytechnic University of Puerto Rico
T-7	University of Puerto Rico, Mayaguez
T-9	Kennesaw State University
T-9	University of Alabama
T-11	University of Alabama in Huntsville
T-11	University of Central Florida
13	Florida A&M University - Florida State University
14	University of Florida
15	Florida Atlantic University
16	University of South Florida
17	Florida Gulf Coast University
18	University of Tennessee at Chattanooga
19	University of North Florida
20	Savannah State University
21	Tennessee Technological University
22	Alabama A&M University
23	University of South Alabama
24	Auburn University
25	University of Tennessee
26	University of Miami

## SPONSOR SCAVENGER HUNT

PLACE	NAME
1	University of Florida
2	University of Central Florida
3	University of South Florida
4	University of Tennessee
5	Embry-Riddle Aeronautical University
6	Kennesaw State University
7	University of Puerto Rico, Mayaguez
8	University of Alabama
9	Florida International University
10	Florida Institute of Technology
10	Georgia Southern University
12	Savannah State University
13	Tennessee Technological University
14	Florida Gulf Coast University
15	Florida A&M University - Florida State University