On an absolutely perfect coastal December night, 72 members and guests of the Low Country District of the Water Environment Association (LCD WEA) gathered to honor our award winners. Well, that and eat some of the best oysters and hotdogs in the low country!

But the reason for the evening’s festivities was to salute our heroes, those members who have exercised their duties with exceptional dedication.

And I do mean heroes. Our industry, our PEOPLE, save lives and safeguard health each and every day. They empower the smooth operation of our economy, our businesses, our very existence, while protecting our environment and the treasure that is the low country.

We received nominations in 4 categories, handed out 4 awards. Those recognized are on the inside pages. Their information has been sent on to the state association where they will be considered for state and possibly national awards.

There is only one problem. We could have done so much more. We could have given out 8 more awards, honored 8 more of our hard working professionals.

I often say that when we do our jobs right, we are invisible. Our customers turn on the tap and life giving water flows. They flush, and it all just goes away. But we should not be invisible to each other.

I have again listed the available awards. Please look them over, go online and review the requirements. And next year, nominate your employee or co-worker (you don’t have to be a supervisor to nominate a member). We so rarely get an opportunity to say thank you, to honor those among us. We can never honor all who deserve it, but let’s sing as many songs as we can. Let’s honor the heroes in our midst!

Heroes: Sung and Unsung

The year is winding up but it isn’t over yet!

♦ Officer elections, and adoption of bylaws: Holy City Brewery: February 2, 2017, 6 pm
♦ SCEC at Myrtle Beach, March 12-15

Please be sure we have your current email address so you can receive the e-vite.
Awards and Oysters!!

Thanks to all of our sponsors for 2016-2017 for making all our programming possible.

But special thanks goes to Weston & Sampson, Pete Duty & Associates and Tencarva Municipal, who have traditionally been the sponsors for our annual oyster roast and awards event.

The venue at Weston & Sampson was picture perfect, with clear skies and just enough nip in the air to make the oysters especially sweet.

Mike Agin had again made sure all was in order, with oysters from Dixieland Delights, libations from Snyder Events and live music by Chance and Circumstance.

And thank you to all who nominated employees for awards! We are honored to honor them.

Troy Newton - Wastewater Operator

A 26-year employee of Mount Pleasant Waterworks, Troy Newton’s dedication to the operations of both the Center Street and Rifle Range Road WWTP was evident from the long list of achievements and responsibilities. As Operations Foreman, he has been a vital asset during not only operations, but in helping with the expansions and upgrades at the WWTPs.

He has been a Challenge Team member for over 13 years, being part of winning 11 stated championships, including 5 in a row from 2008 to 2013. The 2013 team “Liquid Force” achieved second place overall in the Division I National WEF competition.

Young Professional-Nicholas Bussinah

As Lines and Transportation Systems Supervisor for North Charleston Sewer District (NCSD), Nicholas Bussinah is responsible for the preventative maintenance and repairs of 500 miles of sewer pipeline network. Under his leadership, the NCSD staff has taken on increasing responsibility for projects traditionally contracted out, at significant savings to the District. His focus on morale and teamwork has instilled a confidence in his crew that empowers them to take on even very difficult projects and see them through to successful completion. And his leadership does not stop with his staff but extends into the community, where he has worked to build support and rapport, resulting in very positive customer feedback for his team.
Kirby Dobberfuhl - Engineer of the Year

Kirby Dobberfuhl’s passion for his work and dedication to his projects is contagious according to his employer, Black & Veatch. He has continuously added to his technical knowledge, from instrumentation to all wastewater treatment processes. Kirby has been lead engineer for the design and construction of many WWTPs over his career, and has earned a reputation for being tough but fair, holding the respect of contactors, and being a strong asset for the client.

Kirby was lead engineer for the Center Street WWTP Capacity Enhancements for Mount Pleasant Waterworks, which included major modifications to nearly all process at the treatment plant. His attention to detail and dedication, including relocating from Greenville to Charleston to work on the project, earned the recognition of Mount Pleasant Waterworks. He is now working on the Rifle Range Road WWTP expan-

Dennis Pittman Collections System Award— Joel Stoner

The 60 pump stations that daily carry 2000 gpd to 30 MGD for the North Charleston Sewer District. require persistent monitoring and maintenance. This has been Joel Stoner’s focus for the last 10 years of his 16 year career with NCSD. But Joel has led his staff to do more than maintain. They have been integral in making significant improvements to the pumping system.

Joel focuses on a team effort, listening to staff suggestions and incorporating those into upgrade projects where appropriate. He recently guided his staff through an upgrade of the telemetry system, to develop a storm emergency management program. This program allows NCSD to remotely place their stations into storm event mode, “SEM”. SEM instantly changes the wetwell set points of large stations and corresponding pumping rates to maximize the gravity storage benefit of the collection system during a storm event or planned outage. The program allows NCSD to maintain a consistent flow to the treatment plant and to buffer downstream impacts.

And then more oysters and libations........
**Low Country Bylaws - to be voted on Feb. 2, at annual meeting**

**Name and Affiliation**

The name of this organization shall be the Low Country District (District 7) of the Water Environment Association of South Carolina, hereinafter designated as the Low Country District or the District.

The District shall operate under charter issued by the Water and Pollution Control Association of South Carolina, hereinafter designated as the Association.

**Objectives**

The objectives of the District shall be the same as those of the Association, but with emphasis on the matters of local concern, and of common interest to, members located within the jurisdictional area of this District, and on the cultivation of friendly relations among District members through the fellowship of more frequent and informal meetings.

**Membership**

Any member of the association, who resides or works within the jurisdictional area of this District, shall be a member in the District. The jurisdictional area of this District, as designated by the Executive Committee of the Association, shall include the following counties: Charleston, Dorchester and Berkeley.

**Dues**

Active member, except "Lifetime Members" shall pay annual dues in the amount currently in effect for the membership. Payment shall be due from the Association following payment to the Association of annual dues. Dues are for twelve months and begin during the month in which you join.

The amount of annual dues assessed each member shall be proposed by the Association.

**Duration of Membership**

Active memberships shall endure for life, unless terminated as hereinafter provided. The Executive Committee may present an individual who the Executive Committee has determined should be awarded the designation of "Lifetime Member", which member, if approved by a simple majority vote of the members present at a regular scheduled meeting, shall not thereafter be subject annual dues.

Any member more than twelve months in arrears in the payment of dues to the District shall forfeit their membership.

Any member may be expelled by a two-thirds (2/3) vote of the Executive Committee for reasons expressed in Article IV, Section 3, of the Constitution of the Association.

Resignation, when presented in writing to the Chairman, shall become effective immediately, provided all indebtedness due to the District has been paid.

**Meetings**

It shall be the goal of the Low Country District to hold regular business meetings every two months at such times and places as may be designated by the District Executive Committee. The District Executive Committee may elect to substitute a special event/activity in place of a regular business meeting. In addition, special business meetings of the Low Country District may be called by the District Executive Committee at any time and for any purpose which, in its opinion, is justifiable, but no business may be transacted at such meeting other than that for which said meeting was called. The notice of such special meeting shall state of the business to be transacted at such meeting.

An Annual Meeting shall be held at least 30 days prior to the date of the Annual Meeting of the Association.

Ten eligible voting members, one of whom being an officer, shall constitute a quorum for the transaction of business at any regular or special business meeting.

**Officers**

Officers of the Low Country District shall be a Chair, Chair-Elect, one or more Vice Chairs, a Secretary, a Treasurer, and an Assistant Treasurer.

Each Officer shall be elected at the regular business meeting of the Low Country District at least 30 days prior to the Association's annual business meeting and shall hold office a term of one year or until a successor has been elected or appointed.

Any vacancy in an elective office which may occur in the interim between business meetings of the Low Country District shall be filled by a Chair appointee for the remainder of the unexpired term after having received written approval of the proposed appointee from a majority of the Executive Committee.

**District Executive Committee**

The District Executive Committee shall be the steering body of the Low Country District. Its decisions shall be subject to review by the membership of the Low Country District at any regular business meeting.

The District Executive Committee shall be composed of the elected District officers, the immediate or last living
the benefit of the membership. The majority of the District Executive Committee shall constitute a quorum for the purpose of conducting business.

Duties of Officers

Chair: In addition to those duties described in the District Chair's Handbook, the Chair shall preside over all District meetings and Executive Committee meetings. The Chair shall appoint no more than four at-large members to the Executive Committee.

Chair-Elect: The Chair-Elect shall preside in the absence of the Chair and as requested. The Chair-Elect is responsible for getting and presenting the plaque for the out-going Chair and shall be the District historian. Performs such other duties as pertaining to the office of Chair.

Vice-Chair: The Vice-Chair is responsible for the Fund Raiser and shall preside in the absence of the Chair and Chair-Elect. Performs such other duties as pertaining to the office of Vice-Chair.

Secretary: The Secretary shall be responsible for the record keeping for all of the Low Country District meetings, showing attendance and membership at meetings; minutes of all official meetings; sending out notices of all meetings, whether regular or special; and sending out notices of all study courses. Performs such other duties as pertaining to the office of Secretary.

Upon retiring, the Secretary shall release all records to the successor or the District Executive Committee. The succeeding Secretary or the presiding officer of the District Executive Committee shall give the retiring Secretary a receipt for all such records turned over.

Treasurer: In addition to the requirements established in the District Chair Handbook, the Treasurer shall be responsible for receiving all funds payable to the Low Country District; to pay expenses or indebtedness of the Low Country District and in preparing a financial report to present to the District membership at its February business meeting of each calendar year.

Beginning in April, 2009 a new statewide accounting system was implemented as recommended by the firm that performs the annual review of the Association’s financial transactions. This new accounting system was implemented to comply with 501(c)(3) guidelines. This system requires the Low Country District Treasurer to submit copies of all financial transactions along with original copies of any supporting documents to the Association office in a timely manner. The bank statement for the district will be sent to the Association office directly from the bank for reconciliation each month. Once this is done a monthly financial report will be sent to the district Treasurer from the Association office. Any discrepancies should be reconciled once this report is received by the District Treasurer.

An Auditing Committee shall audit the financial transactions of the Low Country District annually, making a report at the first regular district meeting following the completion of the audit for the preceding fiscal year. A similar audit will be conducted upon the retirement of the District Treasurer.

Upon retiring, the Treasurer shall release audited records to the successor or the District Executive Committee. The succeeding Treasurer or the presiding officer of the District Executive Committee shall give the retiring Treasurer a receipt for all such records turned over.

The Treasurer shall submit a complete report of the year's financial business to the District at each Annual Meeting which shall be audited as directed by the Executive Committee. The Treasurer shall provide the Executive Committee and the Nominating Committee with a list of members in good standing and eligible for nomination as required. The Treasurer will also perform such other duties as pertaining to the office of Treasurer.

Assistant Treasurer: The Assistant Treasurer shall assist the Treasurer in assuring that all reports, forms and audits, are completed and submitted in a timely fashion. The Assistant Treasurer shall provide the Executive Committee and the Nominating Committee with a list of members in good standing and eligible for nomination as required. The Assistant Treasurer will also perform such other duties as pertaining to the office of Treasurer in the event the District Treasurer is unavailable. The Assistant Treasurer will be listed as an additional signatory on the district checking account.

Amendments

Amendments to these Rules may be proposed by a majority of the Executive Committee or by a petition signed by not less than ten active District members in good standing. Amendments submitted by petition shall be submitted to the Executive Committee at least sixty days prior to the District Annual Meeting for review.

Copies of proposed amendments shall be mailed to the membership at least 14 days prior to the Annual Meeting of the District, along with the Executive Committee's recommendations concerning amendments proposed by petition.

Amendments to these Rules shall be made only at the Annual Meeting of the District by an affirmative vote of not less than two-thirds of the eligible members present and voting, provided that such amendment shall previously
and voting, provided that prior or subsequent approval of the Executive Committee of the Association has been obtained.

**Low Country District Committees**

**Nominating Committee**

The Nominating Committee shall be elected by the membership at a regular business meeting at least six (6) months prior to the district’s annual business meeting. The Nominating Committee for the Low Country District will be elected each year from the floor with a minimum of three (3) persons being nominated and the membership voting in secret ballot for two (2) of the three (3). The two (2) receiving the highest votes shall be declared the Nominating Committee for the following year. The Past Chair shall also serve on the nominating committee and shall be the Committee Chair.

The Nominating Committee shall present at least one (1) name for each of the elected officers of the Low Country District at the regular business meeting of the Low Country District at least 30 days prior to the annual business meeting of the Association. At least two (2) minutes shall be reserved to receive additional nominations from the floor after which a simple majority vote of a quorum of eligible members present shall constitute an election.

**Special Ad Hoc Committees**

The Chair may appoint special committees ad hoc, as the need arises for some special task or purpose.

**Committee Membership**

Committee membership shall be limited to the Low Country District members of any class of membership.

The Chair of the Low Country District shall be an ex-officio member of all committees of the Low Country District.

As an ex-officio committee member, the Chair shall not have voting rights

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**North Charleston Sewer District CIPP**

The North Charleston Sewer District is in the middle of a major project, rehabilitating 9000 lf of their main interceptor lines. A segment of that rehabilitation entails installing cured in place pipe (CIPP) in a 2,588 lf of 60 inch and 66 inch diameter interceptor.

On January 5, 2017, over 20 LCD WEA members had an opportunity to view up close a portion of this massive CIPP project, one of the largest ever done in the country.

The demonstration entailed the set up for installing a 66 inch diameter pipe. Due to the close proximity of railroads to the interceptor line, the sewer is being rehabilitated using onsite wet-out, i.e., “over-the-hole”, methodology which allows for greater inversion lengths thereby reducing the overall number of inversions.

The pipe, the precise length cut, inverted and folded onto a trailer, as seen in the photo to the left. It is set up to be fed into the existing pipeline through the manhole via a conveyor and
One key to the CIPP process is making sure the entire multi-layered liner material is saturated with resin. It is the resin that, following curing, gives the pipe its strength. The process involves pumping in the exact quantity of resin into the liner close to the entrance of the manhole. The resin is then pushed into the liner using rollers as the liner is pulled into the manhole. After it is pulled half way, water is pumped in to roll the inverted portion out into the rest of the pipe. Then hot water is circulated through the pipe to cure the resin, being careful to maintain the proper temperature for the full cure time.

In addition to the CIPP process itself, there were other challenges in the project. Taking a large interceptor out of service is not easy. The entire flow must be bypassed, which was done through two (2) 24-inch and two (2) 18-inch pipelines. The bypassed flow capacity exceeds 45 MGD, though on a normal day the bypassed flow is in the range of 20 MGD. The primary bypass crossed railways at two separate locations, requiring two steel casings at each crossing.
STAY CONNECTED!

Be sure to check out all the events throughout the state and at our NEW LCD District webpage at www.scwaters.org.

Log in is simple. Your user name is the email for your membership (you should be getting regular email notifications from the Columbia office). Log in instructions are on the website.

LCD Thanks our 2016 Sponsors

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