

The Official Publication of the Florida Irrigation Society

PIPELINE

SPRING 2015
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**SMART IRRIGATION
SMART HOMEOWNERS**

**USING
LANDSCAPE AND
IRRIGATION
ORDINANCES**

**10 TIPS TO SAFEGUARD
YOUR INFORMATION**



The Official Publication of the Florida Irrigation Society

PIPELINE

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Hello to all and I would like to thank you for your continued support of FIS. As a group, our voice and presence will only get stronger the bigger we are. Please continue to encourage those in our industry that you have contact with to become a member of FIS. If you can't seem to find the time to talk to these contractors when you see them, drop us an email with their information and the office staff will make a point to contact them.

FIS State is currently in the final planning stages for the **Water Summit, July 29-August 1, 2015** to be held at the Naples Beach & Golf Resort. Look for early bird registration in the next issue of *Pipeline*. Mark your calendars today with the dates for the Water Summit!

FIS State continues to work with our Lobbyist, Diana Ferguson to make sure that our voice is continually heard in Tallahassee. The legislative session is now in full gear, watch for updates from Diana in the next issue of *Pipeline*.

We are looking forward to another great year. I want to wish you all lots of rain in the coming months! •

Jeff Davidson
President



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Legislative News Update

By Diana Ferguson, Esq.
Rutledge Ecenia, P.A.

With the legislative session in full swing, there are several issues of interest to irrigation professionals under consideration in the Legislature. Most notably, the House and Senate are working toward implementing Amendment 1.

Several environmental programs of interest will receive funding under this new constitutional requirement, including water-related programs. Of particular note, there has been much discussion relating to whether water infrastructure projects should be included in the implementation. It is not yet clear whether and to what extent Amendment 1 will include drinking water, wastewater or stormwater infrastructure.

Additionally, the passage of comprehensive water policy legislation is part of the joint work plan that the House and Senate have agreed to work on together. The House has made this a high priority, and has had legislation under discussion for weeks now. Water conservation has been part of this

discussion, and it is possible that the final legislation may include provisions to enhance water conservation.

One thing is clear – water is a priority for our state leaders and it is expected to remain a priority. In addition to efforts underway in the House and Senate, prior to the start of the legislative session, Governor Rick Scott announced a series of environmental priorities, including a proposed \$150 million for Everglades Restoration, \$50 million for springs protection and restoration, and \$100 for water supply development and Keys wastewater treatment. Commissioner of Agriculture and Consumer Services Adam Putnam has also made water a high priority for his office.

I look forward to continuing to engage in these discussion on behalf of the Florida Irrigation Society and will continue to keep you posted as these issues develop. •



Northeast Chapter

The NE Chapter installed a charity project for the WestJax Outreach Center in late February. The center provides dental care for those without health care.

The Chapter presented \$1,750.00 to the State as part of Tampa Bay's Chapter Challenge for the Political Action Fund. The \$1,750.00 was raised from the 2014 Creek Wars Fishing Tournament.

The 2015 Creek Wars Fishing Tournament will be scheduled for the Fall and we will post the date as soon as it is available.

The Northeast Chapter of FIS is proud to announce its **2015 Board of Directors:**

President: Kirk Wurster, B&L Landscape Co Inc.

Vice-President: Shawn Thomas, Southern Green

Treasurer: Robert Sanford, Sanford's Landscape & Irrigation, Co.

Secretary: Kevin Valentine, Specialty Irrigation Systems Inc.

At Large: Chip Brickell, Sanford's Landscaping and Irrigation

At Large: Clark Graham, Signature Control Systems

Chapter-Wide

In early January 2015, Tampa Bay FIS issued a chapter-wide challenge to match or exceed their pledge of \$1,500 to support the State License Lobbyist. To date FIS Northeast Chapter has accepted and exceeded the challenge with a \$1,750 donation. The total pledge to date is \$3,250. Great start to the new year!

The Northeast Chapter of the FNGLA held its annual Jacksonville Landscape Show February 12 -13, 2015 at the Jacksonville Fairgrounds. The show was a great success with an increase in booth sales and attendees over 2014. Proceeds of this year's show will benefit local youth scholarships.



Palm Beach Chapter

With the economy back on track, the irrigation industry in Palm Beach County has seen a tremendous amount of new business over the last 6 months. As a result, our meetings have been suspended since last year because of the over load in work and scheduling which has created a challenge for us in finding the time for regularly scheduled meetings. We are grateful that we do not anticipate this trend slowing down anytime soon, but do anticipate resuming our meetings once the rain comes.

We would like to extend our condolences to the Fortin family on the passing of Roger Fortin from Sunnyland Irrigation. Roger will truly be missed by many; guys like him are few and far between.

Central Florida Chapter

The chapter is once again sending out the call to central Florida irrigation contractors, industry representatives, local education and technical advisers for assistance and direction in making our chapter a viable one. As we all move towards State Licensing, we need FIS to help with legislative, educational and technical guidance. If you are interested in helping or want further information, please contact Tom Allen, CLM Landscaping at cltoma@gmail.com.

What Were They Thinking?



“I think there might be something wrong with my sprinkler head?”

Photograph courtesy of Nathan Bassett, WaterBoys of Central Florida

CHAPTER NEWS

Volusia Chapter

The Volusia Chapter is working on the final rewrite of the Volusia County Water Wise Ordinance. Look for an update in the next issue of *Pipeline*.

The Volusia Chapter of the FIS is proud to announce its **2015 Board of Directors:**

President: Steve Hineline, Port Orange Plumbing
Vice-President: Hugh Young, Pro Care Landscaping
Secretary: Randy Heimsoth, Peerless Landscape
Treasurer: Dale Nimmo, Central Pump & Supply
Director: Hank Beazley, B & B Well Drilling, Inc.
Director: Harlan Hineline, Port Orange Plumbing

Tampa Bay Chapter

The 20th Annual Florida Irrigation Society Tampa Bay Chapter Golf Tournament will be held Saturday, April 11, 2015 at The Eagles Golf and Country Club in Odessa, FL. Registration begins at 7:00 am and Shot Gun Start at 8:00 am. For additional information and to register visit fisgolftourney.wordpress.com or contact Dana Bryant at dbryant@austinoutdoor.com.

Southwest Chapter

The Southwest Chapter had their 1st Annual Chili Cook Off on February 28th, 2015 at Mullock Creek in Ft. Myers. There were 120 people in attendance. Todd Bailey was the winner, Steve Hall was the runner-up and Kevin O'Brien was the second runner-up. There were a total of 14 participants. The money raised was donated to the local women's shelter. The event was attended by a good mix of contractors and local residents.

The Golf Tournament is set for May 8th, 2015. For additional information, contact the chapter.

The Southwest Chapter is pleased to announce their **2015 Board of Directors:**

President: Rick Manley, Juniper Landscaping
Vice-President: Neida White, Davidson Irrigation
Treasurer: Robert Ryan, Lutgert Insurance
Secretary: Steve Hall, Stahlman-England

Smart Irrigation... Smart Homeowners

By Maria C. Morera, Ph.D.

Department of Agricultural Education and Communication, University of Florida

A recent study invited 167 Orange County homeowners to participate in a survey designed to assess reception to smart irrigation controllers. The homeowners were part of an earlier pilot project developed to address growing public water demands in Central Florida (Dukes, 2008).

As part of its objective to test the potential level of water conservation of smart irrigation devices in diverse areas of Orange County, the project had enlisted the cooperation of the homeowners and provided them with one of the following: a soil moisture sensor (SMS), an evapotranspiration controller (ET), a soil moisture sensor accompanied by a brief tutorial (SMS+Edu), an evapotranspiration controller accompanied by a brief tutorial (ET+Edu), or monitoring only (MO). The survey research sought to investigate factors affecting short-term and long-term adoption of smart irrigation controllers and distill differences in the feedback provided by the five groups.

The survey, an electronic questionnaire containing several sections of multiple-choice and open-ended

items, aimed to collect demographic information and explore water use and conservation attitudes, landscape and irrigation system knowledge, and irrigation practices. It was distributed using Dillman's (2007) Tailored Design Method. Of the 167 homeowners invited to participate in the study, 143 took the survey, resulting in an 86% response rate. The final dataset included responses from 138 survey participants. Relative frequency distributions, text analysis, difference of means tests, and logistic regression were used to analyze the data.

Results indicated most survey participants were college graduates or professionals between the ages of 50 and 58 with household incomes starting at \$75,000. Seventy-four percent were very concerned about the appearance of their yard while 36% reported they didn't irrigate more because of environmental concern. Almost 70% felt their own conservation of water affected its overall supply. Water conservation strategies most frequently ranked effective included rain sensors, native plants in bedded areas, water restrictions, soil moisture

sensors, and irrigation scheduling based on water needs of plants. Strategies least frequently ranked effective were increased water rates, ordinances that limit turf grass area, and local conservation programs.

Results revealed that a greater percentage of survey participants with smart irrigation controllers were satisfied with their irrigation practices and the appearance of their landscapes than survey participants without the controllers. Both SMS and ET controllers were praised for irrigating efficiently. However, the feature survey participants liked most was their ability to save money. A frequency count of keywords used in open-ended responses to describe the best part of using smart irrigation

technology indicated saving money was a top priority.

Money was also a factor in the likelihood of purchasing a smart controller. Survey participants without smart controllers reported a greater likelihood of purchasing one that paid for itself in a shorter amount of time through lower initial costs and greater water savings potential. Yet knowledge was a factor in the likelihood of continuing to use it. Survey participants with smart controllers who displayed a greater understanding of their devices corresponded with those who were more likely to continue using them after the completion of the project. They also tended to have access to the more highly rated operation guide.

(continued page 12)

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(smart continued)

In addition, survey participants who received brief tutorials displayed a greater understanding of smart irrigation than survey participants who received neither a tutorial nor a smart controller.

Findings suggest a role for Cooperative Extension in both the promotion and management of smart irrigation controllers. Homeowners are interested in saving money.

While maintaining the appearance of their landscapes is important to them, so is efficient irrigation. Promotion efforts may be best served

by demonstrating the economic benefits of investing in smart irrigation. Homeowners are also responsive to quality operational instructions.

Findings indicate familiarity with the installation and functioning of smart controllers plays a part in their long-term adoption. Cooperative Extension can provide the education and implementation techniques necessary both to increase the water conservation potential of smart irrigation controllers and to reduce the challenges that may dissuade homeowners from continuing to use them.

Acknowledgements

This research was supported in part by Orange County Utilities, the Water Research Foundation, St. John's River Water Management District, the South Florida Water Management District, and the University of Florida Institute of Food and Agricultural Sciences Center for Landscape Conservation and Ecology. •

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Dukes, M. D. 2008. Smart irrigation controller demonstration and evaluation in Orange County, Florida: Project description. Gainesville, FL: University of Florida.



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Using Landscape and Irrigation Ordinances to Increase Water Use Efficiency

By David Bracciano, Demand Management Coordinator, Tampa Bay Water

Background: Water supplies in the state of Florida are sometimes impacted by periodic drought and associated water shortages with the potential of impacting the irrigation industry. In the Tampa Bay region, significant drought and water shortage in late 2000 through 2001 necessitated development and implementation of landscape and irrigation ordinances local governments could adopt to increase long term water use efficiency in new and existing single family homes with irrigation systems. The single family water use sector is where a majority of public supply water use occurs in the region and peaks during the spring dry season when irrigation use is highest, mostly due to in-ground automatic systems.



Although a single model landscape and irrigation ordinance was developed for use in the region, with use of irrigation industry standards, local governments and regulatory agency feedback, language actually adopted was significantly different per locale. Obvious differences in irrigation system requirements included: use of micro-irrigation in all plant beds for many locales, irrigated turf to landscape ratios differing, a general lack of pressure regulation and differing enforcement and permit application requirements.



After conducting an evaluation of how well the ordinances were being enforced and inspected, a document was created identifying a number of potential fixes within the existing ordinance enforcement process. (I will come back to the pros and cons of having local ordinances in a bit). For irrigation contractors following the intent and language of these

ordinances, issues identified probably are not surprising. Things like requiring permits to be housed or available on the site for inspectors, actual schematics of the irrigation system and landscape (if applicable) being available for inspectors and the homeowner, and a standardized inspection process for compliance with the permitting process were all documented, among other things, as issues needing resolution. A report documenting these recommendations, developed by Tampa Bay Water in 2005, is available on the agency's website. It should be noted that some member governments with high growth rates modified ordinances.

Opportunities to Increase Irrigation Efficiency

One thing clear in evaluation of local ordinances, high standards the irrigation industry desires, need to be enforced. So is this just a question of making sure that local governments enforce their ordinances? That would be good, but it is not necessarily the only thing needed! In past evaluations of ordinance implementation, building inspectors were being asked to enforce local ordinances without recognizing they are required to enforce the statewide building code first. So if something is optional, that's the first thing off the list when departments get cut or existing staff is overextended. This is clearly one reason why considering Appendix F of the plumbing code (irrigation system requirements) become mandatory is important. It's also important to make

sure training of enforcement personnel be required so they know what they are looking for when they conduct their inspections. FIS has developed training modules and sessions on an inspection based irrigation evaluation procedure allowing for quick field evaluation.

If we do continue to develop irrigation system installation ordinances on a locale by locale basis, then not only should there be a minimum irrigation system design standard (for example in the FDEP and University of Florida's Florida-Friendly Landscape Guidance Models for Ordinances, Covenants, and Restrictions, 2009), enforcement of those standards need to be addressed upfront, tracked electronically, and results provided regularly to decision-making officials. Irrigation contractors designing and installing systems correctly need to be rewarded by insuring THAT they are allowed to compete on an even playing field with others in their industry. Consumers benefit by receiving reduced water bills, reductions in potential overwatering-based horticultural issues, or during water shortages when restricted water use and dry spots unmask poorly designed irrigation system installations.

There are obviously other ways to attack the issue of poor quality irrigation system installation. The

(continued page 16)

development of the Florida Water Star program, providing incentives and certification programs requires inspection of certified professional irrigation system design and installation. The program is gaining in popularity statewide and training opportunities are provided on an ongoing basis. (EPA WaterSense Labeled New Homes is similar in nature!). The International Green Construction Code is adopted for optional use in Florida and some municipalities have adopted parts or all of that code. Adopting the code requires building inspectors enforce that code, which includes efficient irrigation system design and installation-of course with funding and support for enforcement identified. The International Code Council and the American Society of Agricultural and Biological Engineers recently completed ASABE/ICC 802-2014 Landscape Irrigation Sprinkler and Emitter Standard. This standard defines and categorizes irrigation system devices and products used in design, installation, maintenance and operation. It clearly is a linkage to consistent irrigation system design.

How Does All This Affect Water Utilities?

Linking permits for irrigation systems with water utility billing data is a great way to identify water usage trends in datasets. This can be used in long-term forecasting of future water demand

and may also reduce uncertainty regarding those demand forecasts. It can also be used to track irrigation system water use that is particularly important in optimizing water efficiency programs like irrigation evaluations, retrofitting systems with smart controllers such as ET controllers and soil moisture sensors, and in evaluating horticultural education programs like the Florida Friendly Landscape program. Finally, the impact to residential water users during drought and water shortage periods will be minimized through the installation of properly designed irrigation systems. Full circle in our region back to the reason why landscape and irrigation ordinances were developed in the first place.●

About David Bracciano:

David Bracciano is Tampa Bay Water's Demand Management Coordinator and has over 25 years of experience in water supply and efficiency programs in West Central Florida. He is responsible for the agency's energy efficiency program, long-term water demand forecasting model, water shortage mitigation plan, a regional water demand management plan that includes commercial and institutional water use efficiency, and a regionally used greenhouse gas emission calculator.

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Cyber-Security Expert Offers -- 10 Tips to Safeguard Your Information

By Gary S. Miliefsky

We've all lost our identity at least three times, with more than 930 million records breached, lost or stolen to hackers and cyber criminals, says consumer advocacy non-profit Privacy Rights Clearinghouse.



Why don't we do all we can to stay safer online?

According to StaySafeOnline.org, more than a quarter of Americans say they lack the information necessary.

So, here it is – everything you need to know to enjoy the shopping experience without losing your

privacy and identity or putting your children's safety at risk:

- Assume you've already been compromised. Whether it's your baby monitor, your SmartTV, the Webcam on your laptop or apps you installed on your smartphone or tablet, your antivirus is not enough protection. It's time to take those devices' and apps' privacy policies, and the permissions you grant them, much more seriously.
- Change your passwords – all of them. Now. And do it as frequently as you can tolerate. Also, if you don't want to change it often, then use any unique characters you can think of, such as a dollar sign (\$) or exclamation mark (!), or replace an "oh" with a "zero" (0). This goes a long way in preventing attacks against your password.
- Turn off wireless and geolocation services. Protect your smartphones and tablets by turning off WiFi, Bluetooth, NFC and GPS, except when you need them. That way,

if you are at a local coffee shop or in a shopping mall, no one can spy on you using nearby (proximity) hacking attacks and they can't track where you were and where you are going on your GPS.

- Assume most of your apps are creepware. Do you really need them? Delete all of the apps you aren't using too often. Replace apps that ask for too many permissions and take advantage of too many of your privacy settings -- like GPS, phone and sms logs, personal identity information -- with similar apps that don't.
- Opt out of sharing your information. Opt out of every advertising network that you can. Visit the National Do Not Call Registry and register your smartphone and home phone numbers at www.donotcall.gov. If you use a Google email account and have

an Android phone, even with your GPS off, it's tracking your every move. (Log in to maps.google.com/locationhistory/b/0 and see for yourself.) Go into your smartphone or tablet settings and turn this feature off. In your Android phone, go to Settings, then Location, select Google Location Reporting and set Location History to off. The same holds true for the Apple iPhone, iPad and iTunes. You need to find the location and privacy settings and turn off access under Settings, then Privacy then Location.

- Your browser is a double agent -- keep it clean. It is spying on you for advertisers unless you block and remove cookies and delete the cache frequently. In your web browser settings, delete your history,

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(Cyber continued)

all cookies and passwords and the cache. You should do this frequently so you don't leave personal information sitting around on your computer, smartphone or tablet.

- Remove third-party Facebook plugins. Third-party plugins are mini applications designed to eavesdrop on your behavior in Facebook and possibly grab information about your habits within that social network. Some websites you visit will require you to log in using Facebook, and then you have to trust them to connect to your Facebook account. This is very risky. Read their privacy policy and make sure they are a legitimate business before you risk doing this.
- Only shop on the websites of companies you already trust. If you don't know where the merchant is located, don't shop online there. If they don't have a corporate address or are located in another country, it is risky for you and you may never see the goods you think you purchased. Also, if their shopping cart experience is not an HTTPS browser session, then everything you type in, your name, address and credit card information, is going over the internet unencrypted -- in plain view.
- Turn off geotagging – your photos are full of information. Twitter and Instagram as well as your iPhone

will give away your location. Most people don't realize Twitter and Instagram both use geotagging for everything you send out. Geotagging stores the latitude and longitude of your tweet or image. Pictures you take on an iPhone usually store geotagging information, as well. The less information you give out about where you are located, the safer you are.

- Don't use cash or debit cards – use credit cards, wisely. Credit cards allow you to travel with less cash, and if you're purchasing online, it's safer to give your credit card than your debit card information. The same holds true when you visit your local retail outlet. The reason? If you experience identity theft, credit card laws allow you to keep all of your credit, with no responsibility during an investigation. With a debit card, your bank can tie up your money in the amount equivalent to the fraudulent transactions for up to 30 days. •

About Gary S. Miliefsky:

Gary S. Miliefsky is CEO of SnoopWall (www.snoopwall.com) and the inventor of SnoopWall spyware-blocking technology. He is a founding member of the U.S. Department of Homeland Security and serves on the advisory board of MITRE on the CVE Program, and is a founding board member of the National Information Security Group. He's also the founder of NetClarity, Inc., an internal intrusion defense company, based on a patented technology he invented.

Florida Irrigation Society

2015 FLORIDA WATER SUMMIT

MANAGEMENT - CERTIFICATION - TECHNICAL

Back to the Beach

FIS Water Summit 2015 July 29 – August 1

The Water Summit returns to a beach venue at the Naples Beach Resort. This year it offers irrigation contractors, technicians, and related industry personnel opportunities for technical and management education including CEUs for licensure and certifications. New for 2015 will be IA certification classes and a return of the WaterStar certification.

- **Mark Your Calendars Now and Watch for details soon in your email box.**
- **Sponsor and Exhibitor Opportunities**
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JOHN DEERE GREEN TECH TO BE AUTHORIZED RAIN BIRD DEALER IN FLORIDA

LONGWOOD, FL (January 30, 2015) - John Deere Green Tech announced today that they have reached an agreement with Rain Bird Corporation to become an authorized distributor of Rain Bird's "Maxicom" and "Site Control" central control products in the state of Florida, effective March 1, 2015.

"Maxicom is a very robust and feature-rich central control system used on many large, high-profile projects throughout the state of Florida. Rain Bird's central control products complement John Deere Green Tech's other technology solutions, which include

pre-fabricated pump/filter stations, satellite controller assemblies and fully-integrated water harvesting systems," says Bill Tullos, district sales manager of John Deere Green Tech. "Our team has decades of experience with Rain Bird's Maxicom and Site Control central control products. We look forward to partnering with Rain Bird to provide sales, technical support and field service to specifiers, end users and contractors, alike." •

About John Deere Green Tech: John Deere Green Tech is a technology solutions group within John Deere Landscapes, LLC, the leading distributor of irrigation supplies, nursery stock, outdoor lighting, maintenance and landscape supplies, primarily to the installation, lawn care, golf course and new construction markets. If you would like to learn more about John Deere Green Tech, please call 1-800-427-0779.



We know you work hard.
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Lean on us for some of your business demands - we know we can work harder for you. This is why we've implemented the Partners Program and Business Solutions, and the Px3 Maintenance Package.

Contact your local branch to learn more about these opportunities. We are eager to help you with as many of your business challenges as possible!



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(Anaheim, California) T. Christy Enterprises launches the first and only drain pipe adhesive that seals joints and prevents root intrusion in underground drainage pipe.

The new patent-pending adhesive – called ROOT-BAN™ Drain Pipe Adhesive – contains a proprietary chemical formulation that creates a leak-proof seal. The dual action formulation contains special ingredients that seal the pipe and cause roots to avoid contact with the pipe. Instead the roots grow around the pipe and not into the joint.

“Root intrusion is the number one cause of drainage system failure,” says Laura Poston, T. Christy Enterprises director of marketing. “ROOT-BAN Drain Pipe Adhesive creates a seal that is many times stronger than the commonly used press-fit method. The active ingredients in ROOT-



BAN have been proven to remain active throughout the life of the drainage system. This saves time, money and – most important – the hassle of chemical and mechanical root removal or excavation and replacement of the entire drainage system.”

Roots typically enter drain lines through poorly-protected push-fit pipe connections which are often not water-tight. The roots quickly fill up the drainage pipe, impede water flow and cause premature system failure. ROOT-BAN is specially formulated to bond and seal polyethylene, HDPE and styrene drain pipe joints. The seal is both water-tight and flexible so pipes are less susceptible to shifting and separation. This eliminates seepage or leaks that attract roots and root intrusion in to joints.

ROOT-BAN is the result of an 18-month development effort conducted at the company's labs located in Anaheim, California and Hartsville, Tennessee. The development effort partnered construction professionals with the company's R&D team to identify solutions for root intrusion into drainage pipe joints. •

About T. Christy Enterprises

T. Christy Enterprises is one of North America's largest manufacturers of adhesives and solvents used in the drainage, waterworks, plumbing, pool and spa, irrigation and fencing industries. The company specializes in creating adhesives and solvents for wet and muddy conditions, cool and wet climates and high productivity environments where fast set/fast cure is critical. The 40-year old company's Red Hot Blue Glue is the top-rated adhesive in the irrigation



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The Toro Company

For 100 years, Toro has built a legacy of innovation. Our recent awards from the Irrigation Association™ demonstrate how this spirit lives on today. Based on customer feedback, we continue to raise the bar with new practical solutions that save time, money and water.

To learn more about how Toro is “changing the game” in smart irrigation, visit us at: www.toro.com/irrigation



And the winner is...

We are pleased to announce **Pro Care Landscaping & Design, Inc.** is the winner again for the Florida Irrigation Society's Photo Contest. Pro Care Landscaping & Design, Inc. has been proudly serving all of Central Florida for 20 years. Pro Care offers many services and specializes in landscape construction, including irrigation installation and repair and landscape maintenance. No job is too big or small and customer satisfaction remains their number one goal.

Photographer: Staff Member of Pro Care Landscaping & Design, Inc.

Company: Pro Care Landscaping & Design, Inc.

Description: Residential single family home in Volusia; landscaping and irrigation done by Pro Care Landscaping & Design, Inc.

Equipment Used: Nikon Cool Pix L6



The Photo Contest continues...

The Florida Irrigation Society challenges you to capture the beauty of Florida for the cover of our upcoming issues of Pipeline. We will be accepting your photographs for consideration for the cover of future *Pipeline* issues.

FIS staff is responsible for judging the photos and reserves the right to publish submitted photos in other media, including the FIS website and future Pipeline issues.

Submission:

Submissions should include the name of the photographer, the company, the date of the picture if known, equipment used (smart phone, digital camera, etc.) and a short description regarding the location. Only one photo entry will be accepted per photographer per issue. Photos are limited by your imagination, the FTC, and must be acceptable for print and public consumption.

Format:

Images should be TIFF, JPG or RAW, and at your camera's highest resolution settings (jpps preferred).

Electronic submission is preferred for quality and ease of use. All submissions become the property of FIS and will not be acknowledged or returned. Send electronic images to pipeline@fisstate.org with Photo Contest listed in the subject line.

Deadlines for Receipt

- Summer 2015 – May 6, 2015
- Fall 2015 – August 5, 2015
- Winter 2015 – November 3, 2015

UPCOMING INDUSTRY EVENTS



Specialist Update

April 9, 2015

UF/IFAS Extension Service, Orlando, FL

The Water Expo - Spring Edition

June 2-3, 2015

Serving Irrigation and Groundwater

Miami Airport Convention Center, Miami, FL

Florida Irrigation Society's Water Summit

July 29-August 1, 2015

Naples Beach & Golf Resort, Naples, FL

Irrigation Association-Irrigation Show & Education Conference

November 9-13, 2015

Long Beach, CA

TPIE (Tropical Plant Industry Exhibition)

January 20-22, 2016

Broward County Convention Center, Fort Lauderdale, FL

Irrigation Association – Irrigation Show & Education Conference

December 5 - 9, 2016

Las Vegas, NV

Irrigation Association – Irrigation Show & Education Conference

November 17-21, 2017

Orlando, FL

Visit www.fisstate.org for additional event/education information
Submit your industry events for consideration to pipeline@fisstate.org

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MEMBERSHIP APPLICATION



Send to:
Florida Irrigation Society
466 94th Avenue N.
St. Petersburg, FL 33702

APPLICATION FOR MEMBERSHIP

I am: A New Member

Renewing my Membership

Note: All new applications are considered pending until approved by the Board of Directors at the next scheduled meeting.

Company: _____ Phone: _____

Address: _____ Fax: _____

City: _____ State: _____ Zip: _____ County: _____

Voting Representative: _____ Email: _____

For new applications:

Please list sponsor or Member company:

Would you like information about your local chapter: Yes No

For renewal applications:

If you are a renewing member, please list chapter affiliation here: _____

If you are renewing, please indicate most recent membership year: _____

Please indicate your Category and enclose relevant dues

	Annual Dues
<input type="checkbox"/> A Manufacturer	\$330.00
<input type="checkbox"/> B Distributor	\$275.00
<input type="checkbox"/> C Contractor	\$200.00
<input type="checkbox"/> D Consultant, P.E., L.A.	\$200.00
<input type="checkbox"/> E Irrigation System Operator	\$200.00
<input type="checkbox"/> F Associate	\$50.00
<input type="checkbox"/> G Technical	\$50.00
<input type="checkbox"/> H Student	\$10.00
<input type="checkbox"/> I Supporting	\$100.00

Helpful Category Information:

- *Associate Members are employees of current FIS Member firms in categories A-E.
- *Technical Members are individuals employed by educational institutions or governmental agencies.
- *Students retain all Membership rights except voting Representation.
- *Supporting Members are individuals that wish to be members that are not in the irrigation industry. (Example: Insurance Agents, Auto Dealers, etc.)

Please tell us about yourself so we can better serve your specific industry needs

- | | |
|--|---|
| <input type="checkbox"/> Installer of Irrigation Systems | <input type="checkbox"/> Registered Professional Engineer |
| <input type="checkbox"/> Dealer in irrigation equipment | <input type="checkbox"/> Registered Landscape Architect |
| <input type="checkbox"/> Distributor in irrigation equipment | <input type="checkbox"/> Certified IA Designer |
| <input type="checkbox"/> Irrigation System Design only | <input type="checkbox"/> Certified Landscape Irrigation Auditor |
| <input type="checkbox"/> Manufacturer | <input type="checkbox"/> Other Certifications: _____ |
| <input type="checkbox"/> Well Driller | _____ |
| <input type="checkbox"/> Operator of Irrigation Systems | _____ |

If your business is located in a county that requires an irrigation contractor license through testing, please provide your license number and county for Membership Directory listing.

License #: _____ County: _____

Applicant Signature & Date _____

Sponsor Signature & Date (New Members Only) _____

Payment may be made by check or credit card. Make Check payable to Florida Irrigation Society or go to www.fisstate.org to pay by credit card.

Questions? Call the Society at 727-209-1595 or visit our Web site at www.fisstate.org

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Last year, Armando told me he was making less on his bottom line and asked for ideas to turn that around. I told him about smart water products and practices, and gave him some tools to help him talk to his clients.

Now his profit has jumped 20% and his clients are thrilled with their lower water bills!

At Horizon, we believe that every month should be treated as Smart Irrigation Month. So, where do you start your practice of Smart Irrigation? **Right here.**

Talk to your local Horizon representative for tips and ideas on how to increase your bottom line with smart water products.

Martin Munoz
13 years



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