



SUMMER 2016

GREEN MOUNTAIN GREENS

A Publication of the Vermont Golf Course Superintendents Association

2016 MEETING SITES

September 14th

Trade Show Meeting
@ Woodstock C.C.

October 4th

Member/Guest & Annual Meeting
@ Rutland C.C.

October 12th

New England Regional Superintendents
Championship Tournament
@ The Quechee Club

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2016 VERMONT AMATEUR TOURNAMENT AT EKWANOK COUNTRY CLUB

By Alden Maddocks, Assistant Superintendent

Fireworks and Japanese beetles are two items that every Vermont turf manager expects to see around the first week of July. Here, at Ekwanok Country Club, we were fortunate enough to also see some of the best amateur golfers the state of Vermont has to offer, as we hosted the 2016 Vermont Amateur Championship. The 72-hole stroke-play tournament was held on July 5-7, 2016, in Manchester Vermont. This was the 11th time Ekwanok has hosted the event.

Our preparations for the event began early this past spring. Once we were awarded the event, it was decided that we would grow-in some of our rough areas and increase the amount of long grass that would be in play. Over the last couple of playing season, various foxtail species have taken root within many of our long grass area. Early this spring, we took the proactive approach to dealing with the foxtail by applying Dimension in our long grass areas. The product has worked very well for us and there has been little to no foxtail growth this year. Our fescue areas have not looked this good in years.

Unfortunately for us, there has been minimal rain to fall across the Manchester region for most of the late spring/early summer months. We began to mark areas "no mow" in mid-April and would continue to do so through the beginning of June. The areas where mowing stopped in April grew out and one would not be

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DIRECTOR'S MESSAGE

By Larry Keefe - President

Dear VTGCSA members,

I hope that all of you are enduring the dry summer! It is a stressful time, but remember that fall is right around the corner.

We want to give a huge thanks to the Associate Partners for the support they have given us participating in our new Partner's Program. This has allowed for easier budgeting of meetings, advertising on the website, newsletter etc.

We have hired Donna Ebbett to oversee and implement the needed changes to our website and newsletter, as we are all too busy to put the time in that is needed to give adequate support for our sponsors and members. The website is being redesigned and upgraded to be more user friendly. We will be improving accessibility to the layout for the sponsor's advertising along with the uploading of images and documents with phones and tablets. Also, links will be added for contacts. These are only a few areas we are working on now with more to follow. Please check it out and let us know of any ideas you may have.

Our meetings have been well attended this year. Please join us for the remaining meetings and to enjoy each other's company.

Next meetings:

Woodstock Country Club – Trade Show September 14th

Rutland Country Club – Annual Invitational Tournament
October 4th

Finally, I want to thank all of our Board Members for their hard work this year. I think we have a great group and I appreciate everyone's efforts. Thanks and hope to see you all very soon.

Sincerely,

Larry Keefe

President



VT Amateur Tournament at Ekwanok Country Club

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able to differentiate those areas from areas where the long grass is grown out on a yearly basis. Meanwhile, the areas where mowing stopped in early June only showed about two inches of extra growth compared to our normal rough length. The turf simply did not want to grow without water. The new long grass areas are more in-play than some of our traditional long grass areas and due to the minimal growth, the players easily found wayward golf ball and play was kept moving along. As with many special events, our goal was to get the greens as quick as possible. To achieve this we began lowering our height of cut about three and a half weeks prior to the event. Over that time period we went from our normal spring height of cut of .135" to about .100" for hand mowers and .097" for our triplex. We would lower the HOC by about .005" each step of the way. A little over two weeks prior to the event our greens were being stimped at just over 10'. We measured greens between 11.5 & 12.5' during tournament play. Our greens were fast and hard, just like we hoped. Over the past couple of playing seasons, we have been using the

wetting agent Fleet, which is advertised as producing "fast & firm" conditions. We have a fairly aggressive top-dressing and verticutting program at Ekwanok. Our greens have several inches of sand top-dressing above the native, push-up greens base. We also have a very thin thatch layer. With the use of Fleet, minimal water inputs, and our heavy top-dressing program, our greens have become fairly firm on a daily basis. For the Amateur, we stepped up our firmness by watering greens in the afternoon, the day prior to play. This allowed the water to percolate through our top soil layer and leave "just enough" water to keep the soil profile wet enough to last through play and into the afternoon working time period. As we entered the Holiday weekend, the golf course was in great shape and ready for tournament play. However, a Friday night storm would create havoc as we entered the last few days of preparations for the tournament. About three inches of rain fell over the course in less than an hour. A couple of trees, several branches, and lots of leaves would blanket the golf course by the time we came to work on Saturday.

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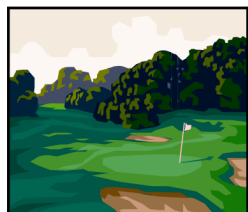
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VT Amateur at Ekwanok CC...

continued from page 3

We have over 120 bunkers and virtually all of them were washed out. One bunker's sand was completely washed out of the bunker and was bad enough that the entire bunker required new sand. Most of the cart paths at Ekwanok are made of bluestone and many of these paths washed out. With only three days left until the Amateur was to begin, the golf course was a mess.

Saturday was also a club tournament day, with a full field of 8-player groups ready for their 1:00 pm shotgun start. We spent Saturday clearing the golf course of tree debris and fixing cart paths, so players could get around. Trees were felled, branches were removed, and leaf debris blown out of play and/or picked up. By the 1:00 shotgun, we had removed as much of the debris as possible and had the course ready for play. Sunday was spent pushing sand and mowing areas we could not mow on Saturday. We sent three crew members out to just push sand back up on bunker banks. On Monday, we could finally rake the bunkers and return them to playable conditions. It took the better part of three days, but the golf course was finally back to where it was before the storm. The only maintenance item we did not accomplish prior to the Amateur beginning was one final trim of the golf course.

For the tournament, we had the entire crew work each morning with about half the crew coming back, after play, to perform some maintenance items we would not be able to accomplish prior to play each day, like mowing fairways. For Vermont, our crew is fairly large, so with a little extra planning and some extra over-time, we were able to get the course mowed tee to green (except rough) each day. On Thursday, the players played two rounds of golf. The VGA requested that we not change cups between rounds. We did, however, double roll greens, rake bunkers, fill tee and some fairway divots, and pick up debris from tee to green. We tried to get the course playing as well as possible. Thankfully the tournament is only a three day event, as another storm rolled through the area on Thursday night and washed out about half of our bunkers and several of our cart paths. Luckily, there was not as much tree debris to clean up. As we would not have been able to do a full clean-up had there been another day of play. As for the tournament itself, Bryan Smith (Jay Peak Golf Club) won the event with a +1 final score. The last time Ekwanok hosted the event, in 2002, the winning

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Vermont Golf Day 2016

On April 21st, the Vermont Legislature held a Vermont Golf Day in Montpelier for the legislators. This annual event was attended by Vt. Golf Industry representatives from the Vermont Golf Association, Vermont PGA, VtGCSA & GCSAA. The three Vermont associations sponsored breakfast for the legislators and the day was an informal meet and greet type event, where legislators and golf industry representatives got to meet each other and learn more about the Vermont golf industry while discussing various topics of interest.

The Vermont PGA set up a hitting net on the State house lawn and it was a glorious day for the legislators to come out and hit a few balls into the net while getting some light instruction from the pros who were in attendance.

The event also offered an opportunity for the VtGCSA, VPGA & VGA to meet and discuss our continued partnership in the Vermont Golf Industries lobbying efforts along with some ideas on ways to fund that extremely important activity moving into the future.



From left to right; Kevin Doyle, GCSAA Northeast Field representative, Larry Keefe, VtGCSA President, Kevin Komer, CGCS & Ken Lallier, CGCS



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PHOSPHORUS REDUCTION IN LAKES AND PONDS

By Shannon Junior, Aquatic Ecologist, SOLitude Lake Management

“Nutrient Management” has become an ubiquitous term in the golf course industry. Environmental concerns about excess nutrients leaching into groundwater or running off into surface waters have plagued the industry for years, and have led to an industry-wide dedicated effort to improve turf management practices and fertilization programs. Government restrictions on fertilizer applications have become more extensive, and the emphasis on nutrient management continues to grow. The use of written Nutrient Management Plans has become more widespread, and more sustainable practices are being implemented to secure the status of golf course managers as environmental stewards.

There is no denying the fact that excessive nutrients can have deleterious effects on our ground and surface water. As an Aquatic Ecologist and Lake Manager, I deal with the implications of nutrient loading on a daily basis. Lakes and ponds with increased nutrients often suffer from cyanobacteria and algae blooms, surface biofilms, dense submersed plant growth, and related oxygen depletion. Reducing nutrient inputs to waterbodies and mitigating the effects of nutrient loading are the key factors in successful lake management programs, with phosphorus being the primary nutrient of concern for our industry.

Lakes and ponds are central features of most golf courses. Not only are they beautiful accessories to the landscape, but they are also critical sources of irrigation water. They provide habitat for birds and other wildlife, and serve as obstacles to

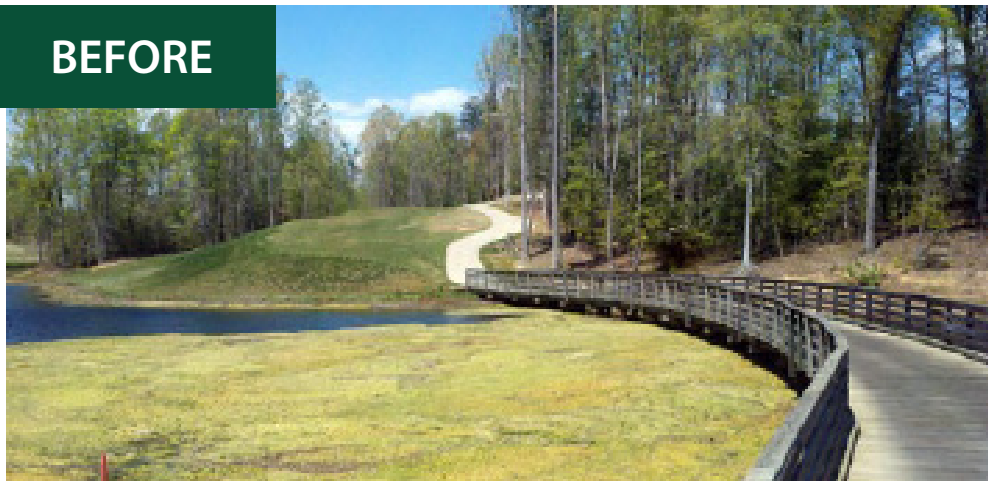
challenge golfers. The ponds need to be maintained in an aesthetically pleasing state, with water quality that is conducive to irrigation and free of vegetation that will continually clog the intakes.

There are few scenarios more challenging to a lake manager than the restoration of the ecological health and aesthetic integrity of an impaired golf course irrigation pond. The most obvious difficulty is the restriction on the herbicides that can be used for treatment of submersed and floating nuisance aquatic vegetation. For many of the species that we

find the most difficult to control, the herbicide of choice would be one that is not safe to use in irrigation water without damaging the receiving turf and ornamental vegetation. Another complication is that while the ponds are an important component of the golf course, the majority of the course management budget is allocated to the essential maintenance of turf. For our golf course clients, we need to focus on sustainable and cost-effective strategies that will allow them to meet their goals for both their ponds and their turf.

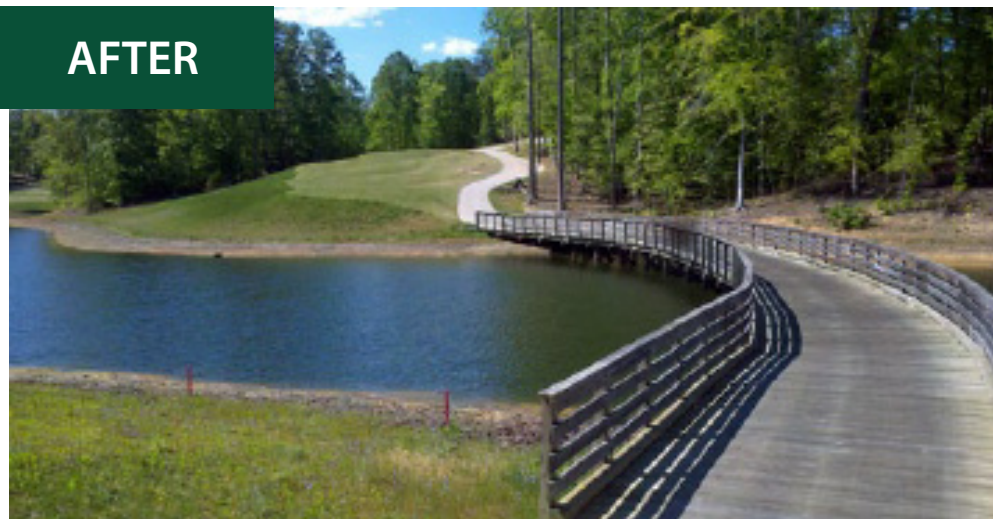
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BEFORE



A golf course pond covered in filamentous algae due to excess phosphorous in the water.

AFTER



The same pond, now healthy after treatment for phosphorous reduction

PROTECT YOURSELF FROM SUN EXPOSURE

By Kevin Doyle, GCSAA Northeast Field Representative

The challenges during long stretches with little or no rainfall are well documented and extremely stressful. Seemingly endless days of sun seem to make every moment revolve around keeping turf strong and healthy. I have been asked by Brian, a long time GCSAA member, to write a reminder newsletter article on just such a situation, sunny days and health, but not turf related, turf manager related!

Some of you may recall an article written by Steven Best. Best, a 24-year member of GCSAA at the time of his death in October 2011 from melanoma, was honored for his story, "Surviving skin cancer," which was published in the July 2011 issue of GCM. Best was the recipient of the 2012 GCSAA Leo Feser Award, which is presented annually for the best superintendent-written story published in GCM. The story detailed Best's journey through a battle with Stage 4 melanoma and his call for increased awareness of skin cancer and ways it could be prevented among his fellow superintendents.

I immediately thought of Best's article when the topic was mentioned ([linked here](#), or simply search the GCM archive for "Surviving skin cancer"). Discussions with Brian took another very enlightening turn, as he does see a dermatologist regularly and has had some items removed over time, albeit for precautionary reasons. He told me that not only does he get checked regularly, he knows other superintendents in the area that do as well. In my 17 years on the course, I had never visited a dermatologist for a screening. Have you?

While avoiding sun exposure during the heat of the day is not going to happen in our industry, please heed the suggestions of experts at Dana-Farber:

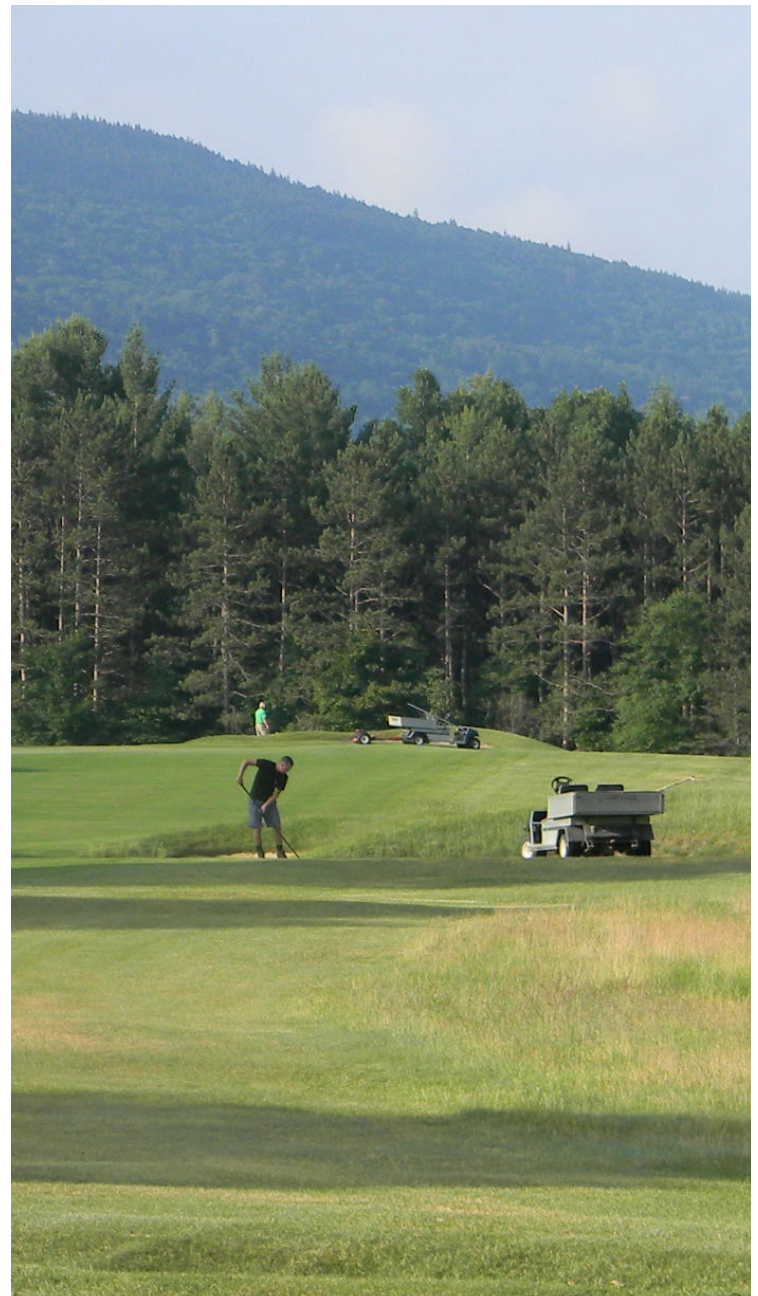
- Avoid unprotected sun exposure and seek shade when possible.
- Wear sun protective clothing, such as a wide-brimmed hat, sunglasses, and shirts with long sleeves.
- Apply the recommended amount of broad-

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VT Amateur at Ekwanok CC...

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score was +13, so clearly the course played a bit easier this year. The runner up was the 2015 Vermont Amateur champion Alex Rainville (St. Johnsbury CC) who is the son of St. Johnsbury CC superintendent Todd Rainville. CC of Barre superintendent Bill Evans' sons Troy and Mitchell were also participants in the tournament. Mitchell is the superintendent at Northfield CC. Troy finished tied for 13th and Mitchell placed 25th. All three players automatically qualified for the 2017 Vermont Amateur Championships, which will be held at the Dorset Field Club.



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Protect Yourself from Sun Exposure

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spectrum (blocking UVA and UVB rays) sunscreen with a SPF of 30 or above when going outside. Be sure to check expiration dates.

- Reapply sunscreen every two hours, or as needed.
- Finally, check your entire body for changes in your skin on a monthly basis.

[Click Here to View Article: How to Enjoy Summer Without Rising your Cancer Article](#)

Also be aware that you are not alone in this! Everyone on the staff will undergo similar sun exposure, and as your maintenance team's leader, you may need to remind them regularly as well. GCSAA has an archived webcast that may help you accomplish that goal: <http://gcsaa.tv/webinars/education/archive-files/sun.wmv>. Perhaps viewing at a staff meeting on a rainy day will help accomplish that, should we ever have one!

I hope this reminder assists to ensure you remain safe during these long hot days. Best of luck keeping both you and your turf strong and healthy this summer!

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Phosphorus Reduction in Lakes and Ponds

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Nutrient management is as much of a challenge in the lake management industry as it is in the golf course industry. Integrated Pest Management Plans for nuisance aquatic vegetation control include strategies to prevent nutrients and sediment from entering waterbodies in the first place. Filter strips of turf or dense buffers of native vegetation are recommended around the shorelines of lakes and ponds to filter runoff. Because the water level in irrigation ponds can fluctuate so dramatically, shoreline stabilization is particularly important to prevent erosion of the soil and the associated nutrient loading. However, preventive strategies have little effect on ponds that are already impaired, and mitigation efforts within the pond are required to reverse the effects of long-term eutrophication.

There are many successful methods for removing phosphorus from a pond once it has accumulated there. Obviously, mechanical dredging to remove the unconsolidated sediment layer is the most direct mitigation strategy, although the process is highly disruptive and extremely expensive. Aeration can be used in concert with naturally occurring or inoculated beneficial bacteria to accelerate the decomposition of organic matter and prevent the accumulation of excess nutrients. However, very little phosphorus is required to support algal blooms, and it is unlikely that these strategies alone will be sufficient to mitigate phosphorus loading in severely impaired ponds.

The application of aluminum salts (alum) has been used for over 30 years to remove phosphorus from the water column and control its release from the sediment. This method of phosphorus inactivation can actually reverse the effects of internal and external nutrient loading and in some situations provide decades of improved water quality. Alum is an acidic compound; therefore, higher phosphorus inactivation doses in waterbodies with a low natural buffering capacity (alkalinity) can impact ambient pH. In these situations, an additional buffering agent is typically applied in conjunction with the alum in order to maintain stable pH levels. Also in smaller shallower ponds where this risk can be greater, partially hydrolyzed aluminum compounds (polyaluminum chloride) can be used to reduce the treatments impacts on pH. In addition to the use of alum, excessive phosphorus can also be managed using a relatively new lanthanum based product

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Phosphorus Reduction in Lakes and Ponds

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that consists of a lanthanum modified bentonite clay. This pelletized product can be applied to the water surface as a granule or a slurry to bond with free reactive phosphorus. The lanthanum adsorbs phosphate molecules to form a mineral called rhabdophane, which is extremely stable and unlikely to allow the release of the phosphorus under typical field conditions. Similar to alum, any unreacted lanthanum settles to the bottom of the pond to form a permeable layer that will continue to bond and sequester phosphorus as it releases from the sediment.

Like all lake and pond management techniques, the use of alum or lanthanum is dictated by the overall management goal and the site specific conditions. The primary differences between the two techniques is that lanthanum binds with only free reactive phosphorus while alum binds with phosphorus and other particulates suspended in the water column (sediment particles, algae cells, etc). Also the application of lanthanum does not impact pH in the same way that alum does. These individual characteristics need to be considered prior to implementation, but in some cases can be used to further the specific management goals of the system.

In order to implement an effective phosphorus mitigation plan using either strategy, it is essential to have a good understanding of the water quality as well as the water and sediment phosphorus fractionation. Ideally, sampling should be conducted in the absence of an active algae bloom to establish a baseline for water quality/chemistry and to calculate the total amount of phosphorus in the waterbody. To the extent possible, it is also helpful to understand the breakdown of the internal and external phosphorus load to the system, as this information will provide insight into the applicability of the technique and the most appropriate dosing strategy (repeated low dose treatment vs. higher dose sediment inactivation). Based on the water quality and sediment data, the calculated dose of either alum or lanthanum can be performed all at once, or it can be phased over multiple years to compensate for budgetary or other site specific considerations. Since most of the phosphorus in a waterbody has accumulated over many years, it is an acceptable strategy to stage the mitigation over several years. Once the internal phosphorus concentration is mitigated, periodic maintenance applications may be necessary to account for external phosphorus inputs from the surrounding watershed. However, the mitigation plan

is implemented, the results will help create conditions that are less likely to support undesirable levels of microscopic algae growth and overall improved water quality.

Nutrient management will continue to be a critical issue in both the golf course and lake management industries. While it is true that improved turf management practices, fertilization programs, and integrated pest management strategies can reduce the inputs of nutrients to our surface waterways, eutrophication is an ongoing natural process that can be slowed but not completely prevented. It is promising, however, that there are mitigation techniques available to lessen the impacts associated with the non-point source nutrient enrichment that ultimately accelerates the eutrophication process and the impairment of our surface water resources.

Shannon Junior is an Aquatic Ecologist with SOLitude Lake Management, an environmental firm providing full service lake, pond, and fisheries management services throughout the United States. She can be reached through the website, www.solitudelakemanagement.com

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Stowe Mountain Resort is seeking a qualified applicant for the position of second assistant superintendent at Stowe Mountain Club. The second assistant superintendent will be a professional individual with intentions of becoming a head superintendent while contributing to the ongoing success and improvements at Stowe Mountain Club. The primary role of this position is to work directly with the first assistant superintendent in day to day maintenance and management. Stowe Mountain Club is associated with Stowe Country Club as part of the 36-hole golf offering at Stowe Mountain Resort. Both golf courses are managed under the leadership of the Head of Golf Maintenance. The Head of Golf Maintenance makes recommendations and develops plans for daily operation but on course decisions will be left primarily to the two assistant superintendents. The second assistant needs to be proficient in timely decision making, multi-tasking, crew leadership and knowledge of golf maintenance practices. The second assistant superintendent will be required to assist and/or lead project work including drainage, irrigation, construction, etc. The two assistants will share responsibilities in managing the crew, job assignment, agronomic and cultural practices, chemical/fertilizer applications, and water management. Preference will be given to those that exhibit strong leadership traits and effective interpersonal skills.

Comments:

Stowe Mountain Club is a private resort golf club designed by Bob Cupp, opened in 2007. Bob Cupp was quoted "Once every few decades, a spectacular sight for golf appears. Such is the case at the foot of Mount Mansfield in Vermont. There may be no finer collection of short par fours anywhere in America." The club sees approximately 5,000 rounds annually. A-4 bentgrass greens built to USGA specifications, L-93 bentgrass fairways, fescue/bluegrass tees. Central Toro Lynx irrigation control. SMC is situated throughout the mountainous terrain of northern Vermont, making it a very unique growing environment for turf. Stowe Mountain Club was the first in Vermont and third in New England to achieve certification in the Audubon International Signature Sanctuary program. Additionally, the golf course is certified as a "Green Links" in the Vermont Business Environmental Partnership program. Stowe, VT is a mecca of outdoor activity. World class mountain biking, hiking/climbing, skiing, and golfing exist in our backyard. Be a part of the experience and come join the fun!!

Date Available: August 1, 2016

Application Instructions: Apply via email

Salary and Benefits: Salary Range: DOE. Benefits: Health, 401K, vacation/leave, paid association dues, golf and summer recreation access (employee, spouse, dependents), ski/ride pass and winter recreation access (employee, spouse, dependents).

NEW ENGLAND REGIONAL TURFGRASS: SUMMER THOUGHTS

By Gary Sykes, Executive Director
New England Regional Turfgrass Foundation, Inc.

In our industry, we have all types of people of all walks of life that have come from various backgrounds. At some point in our time we developed a fondness for grass. It may have started as we ran and tumbled our way around our back yards after learning to walk, possibly when playing little league, or at some point having the responsibility to mow our family's yard. Maybe we lived close enough to a golf course and got to spend some time there caddying and playing. Wherever and whenever this occurred, it could be that we were pointed in a career direction that focused on growing grass. Grass areas are included in all favorably landscaped areas around the world and in many different climates. Even the Almighty had a special appreciation for green, as he appointed the first biological organism on the earth to be just that....grass. He must have been worried about erosion. Many are convinced that it had to have been Poa!

Through the ages, grass management may be one of the oldest professions of man. Sheep herders grazed their

flocks on it and farmer's livestock took care of it around the homestead. It wasn't until the middle of the 1800's that official turf management research was recorded in the US. About that time, Old Tom Morris was hired by the St. Andrew's Golf Club to be what some call the first golf course superintendent. Modern scientific analysis tells us that grass produces oxygen in abundance and has many uses that enhance our communities. The grass plant has participated consistently in the development in many of our outdoor sports that we enjoy today at the highest levels due to well managed grass. It has come a long way just like man has. So, where do we go from here?

As the industry has grown, or as some might feel, overgrown, we see rethinking concerning the need for the quality of the playing surfaces to be practically flawless. We also see the encroachment of artificial surfaces filling some of the voids caused by over-scheduled use of facilities. Budgets have also taken hits due to economic

[continued on page 16](#)



2016-2017 NERTF Executive Board

Front Row (l to r): Clifford Drezek (2016 Pres.), Matthew Crowther, CGCS (Immediate Past-Pres.). Back Row: Jeffrey Urquhart (Treas.), Peter Rappoccio, CGCS (Sect.) and Randy Weeks, CGCS (vice president)

New England Regional Turfgrass: Summer Thoughts

continued from page 15

challenges at many industry levels. Through all this and other specifics including new ownerships, we see the industry continue to move ahead making adjustments and corrections. Turfgrass managers have had to take on the load of these issues making many feel the pressures of doing more with less. This may include over-worked equipment and crews, the loss of products, never-ending weather challenges, not to mention the introduction of new or increased pest problems. We haven't even discussed those demands of the people who use your facilities. That, we probably want to save for another day! As gloomy as it may sound, it isn't all bad.

I would like to take a minute to cite the good news.... We, as an industry, have never enjoyed greater prosperity. Never has the industry had better equipment available, better scientific support, a better educated workforce, better opportunities to keep yourself up to date, a better ability to communicate and to network, better salaries, better tools to manage with, and finally, better grasses to work with. Resources are out there, opportunities are available, they are tools and you must grab hold of them just like you would a screwdriver to use them. Attending the UConn Field Day was one opportunity to use an invaluable resource, and the New England Regional Turfgrass Conference and Show would be another great example that can help you in many ways. If you couldn't make these events in 2016, put them on the calendar for 2017. (UMass Field Day was held on July 25, 2017 and the show will be March 6-7, 2017). Networking and building relationships will always be a valuable way to help you expand your resources if challenges do arise. Wonderful education opportunities are available here in New England at all levels. Whatever your story or background, I hope you realize you are not alone in this industry. Use the resources that are available and another point for you to consider.....be a resource to others you know in the industry. Your experiences could be just what the doctor ordered for them. All turfgrass managers have good years and bad, these resources could help to tip the scale in your favor. Just some thoughts as we continue to plod through the rest of the summer! Best of Luck!



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MEMBER NEWS

Congratulations

Congratulations to Tom Ayers, Al Choiniere, Paul Jones, and Matt Lapinski for finishing 2nd in the VGA Scholarship Scramble at Proctor Pittsford CC. Thanks again.



Condolences to Mike and Barb O'Connor

Sincere condolences go out to Mike O'Connor and his wife Barb on the passing of Barb's mother on June 2nd after a long illness.

Remembering Shirley Clement

Our deepest condolences go out to Dave Clement, a retired member of the VtGCSA, on the passing of his wife Shirley. Shirley and Dave were virtually inseparable and when Dave attended the GIS, Shirley would be with him.

Dave and Shirley spent most of their retirement years in Vermont during the summer, and Myrtle Beach in the winter, before moving to The Villages in Florida where they spent their last years together.

For those who don't know Dave, he began his career training under Manny Francis Sr., at Vesper Country Club in Tyngsboro, MA. From there he went to Crystal Springs Golf Club (now Crystal Lake Golf Club) in Haverhill, MA where he served as construction superintendent. From Crystal he went to the Woodstock Country Club in Vermont. Crestview Country Club in Agawam, MA was his next stop before returning to Woodstock for another stint as superintendent. Dave left Woodstock for the Framingham Country Club in MA where he finished his career in the golf business.

VTGCSA Meeting Recaps

Meeting recaps for May-August are available on www.VTGCSA.com or click the links below.

[June Meeting with Speaker Jum Turner at CC of Barre](#)
[July Fun-B-Q at West Bolton Golf Club](#)

[View All VtGCSA News](#)



You never know who you might run into! Skip Duebel was vacationing in Florida this past spring and said "He heard an unmistakable voice and low and behold, it was Rudy Veraguth sunning himself by the pool". It is truly a small world!

GCSAA Golf Industry Show
February 4-9, 2017
Orlando, Florida

UMASS OFFERS TOP NOTCH CERTIFICATE TRAININGS FOR PROFESSIONAL TURF MANAGERS

UMass Extension's 2016 GREEN SCHOOL, a comprehensive 12-day certificate short course for Green Industry professionals taught by UMass faculty and Extension Specialists, is now accepting registrations.

The turf curriculum of this popular course, offered every other year, is designed for turf and landscape professionals who wish to gain a basic understanding of horticulture fundamentals and strategies, but can't fit a full academic course into their schedules. Green School students come away with research-based knowledge that is indispensable for making agronomically sound and environmentally appropriate decisions.

Green School runs October 24 - December 12, 2016, twice a week from 9:00 AM to 3:15 PM in Milford, MA. Students choose one of three "specialty tracks" when registering: Turf Management, Landscape Management, or Arboriculture. The registration deadline is October 7, or until the classes are full. Space is limited, so apply early. Register by September 23 to take advantage of a significant early bird price incentive.

Pesticide recertification contact hours will be offered for all New England states.

For complete information, including registration instructions, visit <https://ag.umass.edu/landscape/education/umass-extensions-green-school>. Questions on Green School? Call UMass Extension at 413-545-0895.

UMass WINTER SCHOOL FOR TURF MANAGERS immerses students in a full-time program, focused solely on the management of fine turf and taught by UMass faculty and staff. Winter School is a comprehensive certificate program designed to furnish turf managers with the fundamental concepts essential to maintaining high quality turf, while instilling a sense of environmental stewardship and fiscal responsibility.

Winter School 2017 runs January 9 - February 17, 2017, at the UMass campus in Amherst, in a new, time-efficient six week format. Classes are scheduled: Mon-Th 8 AM - 5 PM, and Fri 8 AM - noon. This schedule is designed to

accommodate weekend commuters who may want to stay in the Amherst area Mon-Th evenings but head home on the weekends. Some area hotels offer special packages for UMass Winter School students.

The international student application deadline is September 15, 2016. Application review for US students will begin in early September, with a deadline of October 31, 2016 (late applications may be accepted pending availability of seats). Space is limited.

Pesticide recertification contact hours will be offered for all New England states, and 20.4 Continuing Education Units (CEUs) are offered.

For more information, including application instructions, visit <https://ag.umass.edu/turf/education/turf-winter-school>. Questions on Winter School? Call (413) 545-5202, or email academicprograms@contined.umass.edu.

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