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TM

# toc

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PHOTO: Luke Cella

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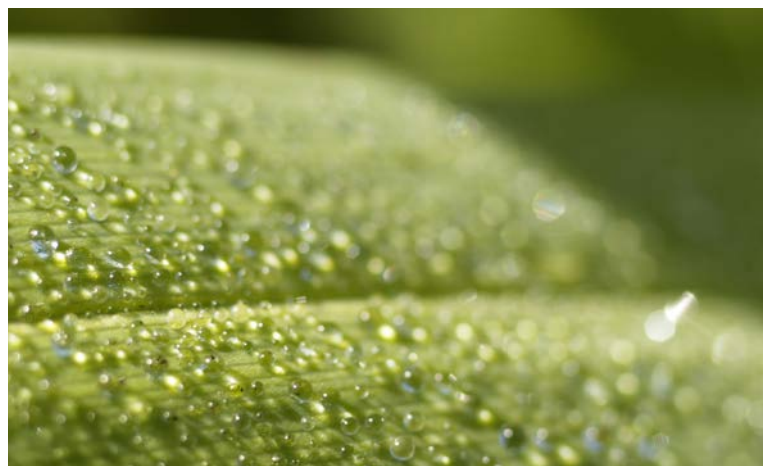
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- 11/14 61<sup>st</sup> Midwest Turf Clinic, Medinah Country Club
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Wee One Foundation is a 501(c)3 non-profit organization. A tribute to Wayne Otto, CGCS.

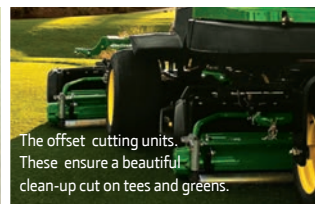
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Dave Groelle, CGCS  
Royal Melbourne CC  
MAGCS President

# A Work in Progress

Where does the time go? We say it often. It is true in so many areas of our life. Time with family goes by so fast. One day you're changing diapers and the next thing you know they are off to college. Time at work is the same.

As I write this it is my 13 year anniversary at Royal Melbourne. It seems so hard to believe that much time has passed. The same holds true for my term as President. It feels like I just started. As my term comes to an end I have been thinking about the past year and what has been accomplished. What could be done better? Was it worth it?

As far as accomplishments, that is a tough one. It is difficult as MAGCS was/is a strong thriving chapter when I took the helm. Our chapter is a leader in our industry. How do you improve upon that? I set forth some goals with the Board and we worked very hard at achieving them. We attempted to get the publication out in a more timely fashion. I believe there has been improvement in this area. We also were able to offer the publication digitally. The digital version is available the first week of the month. The website was re-designed and is much more user friendly especially for meeting registration and payments. We've changed processors to PayPal which allows us to accept all major credit cards, while still being able to produce invoices if needed. The online directory is much more robust and easier to find members of the Association. Both of these items are huge improvements and a great value to our members. We are still working on other items. We are trying to get our story out to the masses in golf by creating partnerships with the CDGA and other organizations. It is a slow road. An example of our progress includes receiving grant money from the GCSAA to create a non-member version of On Course to send out to industry leaders. These are some of the ways we are trying to promote our industry and they are always a work in progress.



Was it worth it? Absolutely. I am very pleased that I have gone down this road. It has afforded me the opportunity to get to know so many great people in our industry. And there are many. No other industry helps each other out the way we do. Just look at the work that has been done by The Wee One for example. I am proud to say that I am a part of this organization. I will hold it high on my list of accomplishments professionally. I would encourage anyone who might be interested in Board service to give it a try. It really does not take up that much of your time. You can find a way. Besides, the upside is so great. Thank you again for allowing me to serve as President of the MAGCS. Time flies when you're having fun. @



# New Technology that Helps

Chuck Barber, St. Charles Country Club



“Superintendents, I need some help for an article for MAGCS please. What it’s the best new tech, product, innovation for the golf course you’ve implemented or tried this year? Why? Thanks for your support”

This was the question I posted on Facebook to my friends and colleagues on July 23rd of 2013. The idea was to get superintendents involved in creating content in a fast, efficient way. Further, they are on

Facebook and Twitter all day long, receive constant updates on their phones and probably scroll through it before going to bed. As new questions present themselves I will indeed be posting more on Facebook and Twitter so I will continue to expect your full support. Got it? Full disclosure: I forced Matt Harstad and

John Gurke to reply. I know they have a strong online presence and but were being evasive.

Technology has changed so much and continues at a pace that is difficult for even the most technologically savvy among us to keep up with. How could we? According to Wikipedia: “ Moore’s law is the observation that, over the history of computing hardware, the number of transistors on integrated circuits doubles approximately every two years. The law is named after Intel co-founder Gordon E. Moore, who described the trend in his 1965 paper.” Technology is advancing, quickly, and we can’t keep up.



*Scott White voted for his flashlight application on his cell phone for best technology at Mauh-Nah-Tee-See Golf Club.*



*Erwin McKone, CGCS defined tree removal as the best innovation this year at Briar Ridge CC that he has used.*

Without getting more long-winded on the subject, I’ll get to the responses. Justin VanLanduit of Briarwood Country Club

had two ideas on the newest technology to save him time and money: TDR 300 moisture meters and GPS Sprayers. Justin goes on to note that the technologies aren't new, they've been around a few years. They're new technologies to him and to Briarwood. "We've been able to knock off about 15%-20% of sprayed area on fairways. It's better for the environment, better for the turf and better for the budget." It would seem that this technology is right for all the right reasons.

Tony Frandria at Glen View Club made mention of the TDR 300 moisture meter as well. This tool has really taken the turf world by storm in the last 3 years. "They've been a really useful tool for us. We've bought a couple more and have taught the hand water guys how to use them."

What about the innovations right in the palms of our hands? Scott White at Mauh-Nah-Tee-See Golf Club is enamored of the flashlight app on his smart phone. "No joke, I use it all the time at the club for goofy little stuff." I've seen this application used at St. Charles Country Club, the doctor's office, at home and virtually anywhere. I don't know if the flashlight industry is in immediate danger but I'd start looking at dumping stock now.



*What would a technology article be without mention of Spectrum's TDR 300 Moisture Meter? Tony Frandria of Glen View Club uses them extensively.*

Andy Weadge of Morris Country Club is, among many things, an innovator. The one thing he found to use this year that has really opened his eyes is Monkey Butt Paste. For those of you who know Andy this will require no explanation. For those of you who don't, I wouldn't recommend finding out why.

John Gukre, CGCS at Aurora Country Club had struggled for several years with algae and aquatic weeds in his irrigation pond. He was directed towards Valent's "Clipper" herbicide and has found just how good new technologies can be. "We use to have to clean the strainer after each irrigation cycle it would get so crammed full of debris. I've always battled a yucky looking irrigation pond until this year. One application about a month and a half ago and we are clean. No more clogged wye strainer. No more headache".

Scott Verdun found his smart phones and tablet computers, when coupled with Google Drive really made a huge difference in his everyday life. "I give my assistant access to the files, I can create job worksheets as well as all spray sheets and I can edit them from the course he then keeps the Google Drive open on



*Google Drive is online file storage and computing (cloud) that enables users to share and collaborate on items together. You can place your daily task sheet on Google Drive and give your staff access to it, you and they can make changes to it, and everyone who has access sees those changes.*

his desktop so it increases communication. It also puts what I want done in writing as opposed to me just saying it over the radio. Better efficiency and more effective in my opinion."

Justin VanLanduit echoes Scott's thoughts on the smart phone/Google Drive combination. "We've done the same thing here. Both have the application on our phones and easy to update files on the run."

Although I found it hard to believe that Erwin McKone of Briar



*John Gurke, CGCS shared his success with Valent's herbicide Clipper.*

Ridge Country Club only NOW found out the benefits of tree removal, that's the technology that has helped him the most in 2013. No, it's not new but sometimes the basic things are the best things. Dave Groelle, CGCS chimed in via Twitter citing his window air conditioner in his office helped him get by this summer.

Connor Healy, Assistant Superintendent at Conway (or Con-man) Farms likes the things he's discovered on Twitter this year. "Even though it isn't really new, I have learned a bunch from Twitter. So many useful ideas shared on a daily basis and in real time. It's awesome learning people's approaches on various topics both locally and nationally."

Technology: Some new, some old. Try to find what works for you and make it your own. @



# OSHA Deadline Approaches

Luke Cella, MAGCS

PHOTOS: LUKE CELLA

On December 1, 2013 employers in the United States are required to train their employees on new standards mandated by the United Nations back in 1992 at their “Earth Summit”. The harmonization of classification and labeling of chemicals was one of six program areas that were endorsed by the United Nations General Assembly to strengthen international efforts concerning the environmentally sound management of chemicals.

It was recognized that an internationally harmonized approach to classification and labeling would provide the foundation for all countries to develop comprehensive national programs to ensure the safe use of chemicals.

The adoption and implementation of the system within the United States alone is estimated to affect over 40 million workers, in over 5 million workplaces, costing an estimated \$97 million a year for the next three years. Employers and

manufacturers are tasked with implementing the program from new labeling to training both management and employees on the new system. On the plus side, OSHA estimates that the revised standard will prevent 43 fatalities and 585 injuries and illnesses annually. The annualized monetized benefits associated with these reductions in safety and health risks are an estimated \$266 million a year. OSHA estimates additional annualized benefits of \$585 million a year from cost reductions and productivity improvements attributable to the proposed revisions. In total, OSHA estimates that the proposed revisions will provide net annualized savings of \$754 million a year. When the transition to the new system is complete, it will be a good thing.

Most of us are aware of the steps needed to bring a new turf product to market within the United States and EPA registration process. We’ve read about the development of the molecule and the testing; both can take a very long time with substantial investment. Once the product is approved a label needs to be created. We’ve also known that the label is a legal binding document, that has all the information we need to safely and effectively apply product. There is a lot of work that goes into developing one label for a product, however because of the many different systems in place in our world, often times the same products needs different labels depending where it is sold.



*Standardized signal words and pictograms are part of the new labeling system.*



*The harmonized label will be on chemicals around the world, using the same standards, definitions and pictograms. It will be easier on the chemical manufacturers and provide consistency for training employees.*

A number of classification and labeling systems, each addressing specific use patterns and groups of chemicals, exist at the national, regional and international levels. We have been used to the standards and labeling within the United States however, when the product is to be sold worldwide, standards for labeling can change with each country. Not only do the standards change, but the criteria, definitions, and gradations found on labels differ from country to country for production, transport, use and disposal. While the existing laws and regulations are similar, they are different enough to require multiple labels for the same product both within the U.S. and in international trade and to require multiple safety data sheets for the same product in international trade. Even within the United States differing regulatory agencies have different hazard definitions and well as information to be included on the label.

When I discovered how fractured this system had become, a global harmonized system makes sense. Investigating further, you'll find the new standards and implementation is a good thing and should not be too onerous on any golf course operation.

### What is it all about?

Chemicals directly or indirectly affect our lives and are essential to our food, our health, and our lifestyle. The widespread use of chemicals has resulted in the development of sector-specific regulations (transport, production, workplace, agriculture, trade, and consumer products). Having readily available information on the hazardous properties of chemicals, and recommended control measures, allows the production, transport, use and disposal of chemicals to be managed safely. Thus, human health and the environment are

protected.

The sound management of chemicals should include systems through which chemical hazards are identified and communicated to all who are potentially exposed. These groups include workers, consumers, emergency responders and the public. It is important to know what chemicals are present and/or used, their hazards to human health and the environment, and the means to control them. The existing hazard classification and labeling systems address potential exposure to chemicals in all the types of use settings listed above.

For example, a product may be considered flammable or toxic by one agency or country, but not by another. OSHA HCS (hazard communication standard) defines that a chemical is flammable between 0° and 100° degrees Fahrenheit and combustible between 100° and 200° degrees Fahrenheit; whereas the new GHS defines flammable between 0° -140°F and combustible between 140° - 200°F.

Under the old statutes, the same product could be "flammable" or "combustible" depending on the governing body and could need different labels in different countries. This may not seem like a big deal, but when transport, storage, and use, are defined by whether the products are "flammable", or "combustible" things can get a little muddled. The same goes for chemicals based upon their toxicity. For example, in the US under EPA/ FIFRA labeling system a chemical is deemed under "Toxic Category I" if the LD<sub>50</sub> is from 0 to 50. It is deemed "Highly Toxic" by OSHA's Hazard Communication System and in Japan if it is less than 30, it is called "Poisonous". The differences are even greater as one looks at the toxicity scale as the LD<sub>50</sub> increases into the hazard and low toxicity ranges. There is greater discrepancy between countries and systems. The GHS will standardize labeling offering consistent and comprehensible system for the world.

<u>OSHA HCS</u>
Flammable = 0-100°
Combustible = 100-200°
<u>OSHA/NFPA</u>
Flammable = 0-100°
Combustible = 100-200°+
<u>EU</u>
Extremely/Highly/Flammable = 0-131°
<u>WHMIS</u>
Division 2 Flammable = 0-100°
Division 3 Combustible = 100-200°
<u>DOT</u>
Flammable = 0-140°
Combustible = 140-200°
<u>IMO</u>
Flammable = 0-140°
<u>ICAO/IATA</u>
Flammable = 0-140°
<u>CPSC</u>
Flammable = 0-100°
Combustible = 100-150°
<u>ANSI Z129.1</u>
Extremely Flammable = 0-140°
Combustible = 140-200°
<u>GHS</u>
Flammable = 0-140°
Combustible = 140-200°

*Prior to the Global Harmonized System (GHS), different agencies used differing temperature ranges to tell whether a chemical was flammable or combustible. This represents one small definition in the labeling of chemicals that needed consistency.*

Continued on page 10





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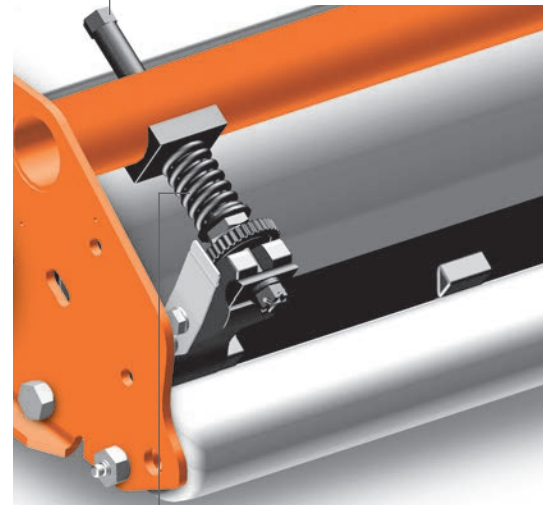
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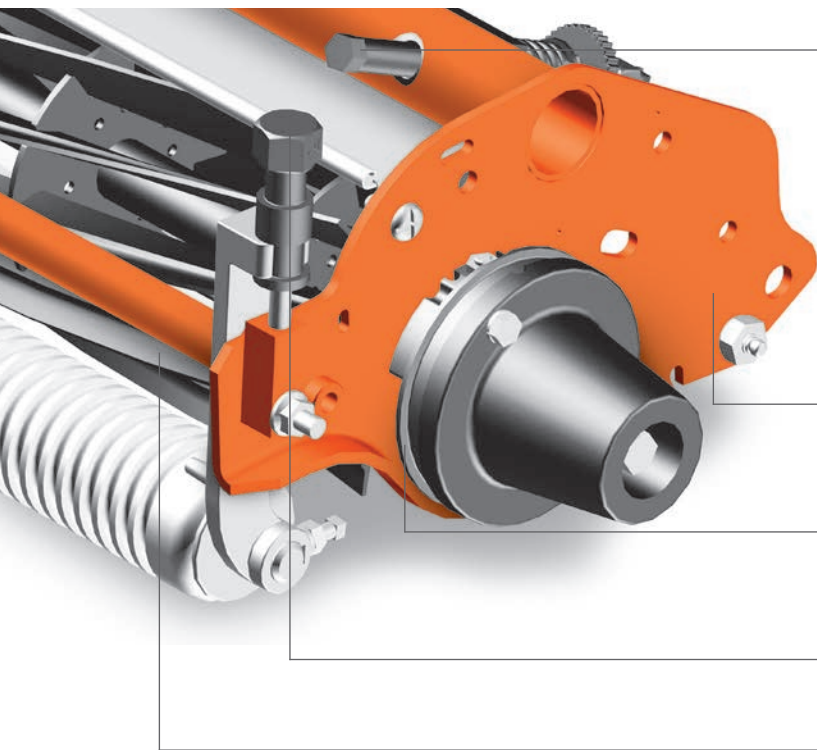
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These differences in hazards and SDS/labels impact both protection and trade. In the area of protection, users may see different label warnings or safety data sheet information for the same chemical. In the area of trade, the need to comply with multiple regulations regarding hazard classification and labeling is costly and time-consuming. Some multinational companies have estimated that there are over 100 diverse hazard communication regulations for their products globally. For small and medium size companies regulatory compliance is complex and costly, and it can act as a barrier to international trade in chemicals.

The basic goal of hazard communication is to ensure that employers, employees and the public are provided with adequate, practical, reliable and comprehensible information on the hazards of chemicals, so that they can take effective preventive and protective measure for their health and safety. Thus, implementation of effective hazard communication provides benefits for governments, companies, workers, and members of the public.

The GHS has maximum value if it is accepted in all major regulatory systems for chemical hazard communication. In the USA alone, implementation of the GHS would harmonize hazard definitions and label information among U.S. regulatory agencies (CPSC, DOT, EPA, OSHA, etc.). If the GHS is implemented globally, consistent information will be communicated on labels and SDSs.

It is anticipated that application of the GHS will:

- Enhance the protection of human health and the environment by providing an internationally comprehensible system,
- Provide a recognized framework to develop regulations for those countries without existing systems,
- Facilitate international trade in chemicals whose hazards have been identified on an international basis,
- Reduce the need for testing and evaluation against multiple classification systems.

The tangible benefits to governments are:

- Fewer chemical accidents and incidents,
- Lower health care costs,
- Improved protection of workers and the public from chemical hazards,
- Avoiding duplication of effort in creating national

systems,

- Reduction in the costs of enforcement,
- Improved reputation on chemical issues, both domestically and internationally.

Benefits to companies include:

- A safer work environment and improved relations with employees,
- An increase in efficiency and reduced costs from compliance with hazard communication regulations,
- Application of expert systems resulting in maximizing expert resources and minimizing labor and costs,
- Facilitation of electronic transmission systems with international scope,

- Expanded use of training programs on health and safety,
  - Reduced costs due to fewer accidents and illnesses,
  - Improved corporate image and credibility.
- Benefits to workers and members of the public include:
- Improved safety for workers and others through consistent and simplified communications on chemical hazards and practices to follow for safe handling and use,
  - Greater awareness of hazards, resulting in safer use of chemicals in the workplace and in the home.



*One of the training requirements of staff is now training on labels on shipping containers. These labels must now include: product identifier, signal word, pictogram, hazard statement(s), precautionary statement(s) and the supplier identification including name, address and phone number.*

### What chemicals are covered?

The GHS covers all hazardous chemicals. There are no complete exemptions from the scope of the GHS for a particular type of chemical or product. The term “chemical” is used broadly to include substances, products, mixtures, preparations, or any other terms that may be used by existing systems. The goal of the GHS is to identify the intrinsic hazards of chemical substances and mixtures and to convey hazard information about these hazards.

### GHS Health and Environmental Hazards

The GHS health and environmental hazard criteria represent a harmonized approach for existing classification systems. It may take a little bit of research and reading to be able to train your staff on these definitions, but most of them you already know and have seen in the past.