

Spring Issue 2019

GreenMaster

Official Publication of the CGSA

Banff | March 4 - 7, 2019

The Canadian Golf Course Management Conference

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16

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18

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CANADIAN GOLF SUPERINTENDENTS ASSOCIATION

2605 Summerville Court, Unit A2082
Mississauga, ON L4X 0A2
Tel: 416-626-8873 Toll Free: 800-387-1056
Fax: 416-626-1958
cgsa@golfsupers.com
www.golfsupers.com

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JEFF CALDERWOOD • PUBLISHER
jcalderwood@golfsupers.com

NATHALIE LAVALLÉE • ASSOCIATE PUBLISHER
nlavallee@ngcoa.ca

STACEY TAYLER • ART DIRECTOR
stayler@ngcoa.ca

BARB MANIFOLD • MANAGING EDITOR
bmanifold@golfsupers.com

SHAWN HUNTER • SENIOR EDITOR
shunter@ngcoa.ca

LAUREN CALDERWOOD, J.D. • COPY EDITOR
editor@ngcoa.ca

RYLEY SCOTT • DIRECTOR OF SALES
rscott@ngcoa.ca

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▲ VIEWPOINT ▲ KENDALL COSTAIN, MS

Kendall Costain, MS
CGSA PRESIDENT



Board of Directors • 2018-2019

Kendall Costain, MS, President
Westfield Golf and Country Club Inc., NB
kendallcostain@gmail.com

Greg P. Austin, Vice President
Campbell River Golf & Country Club, BC
gregaustin.bc@gmail.com

Jim Flett, AGS, Past President
Muskoka Lakes Golf & Country Club, ON
jflett@mlgcc.com

Darren Kalyniuk, Secretary Treasurer and Manitoba Director
St. Boniface Golf & Country Club, MB
darren@stbonifacegolfclub.com

John McLinden, Ontario Director
Ladies Golf Club of Toronto, ON
john.mclinden@ladiesgolfclub.com

Pierre Vezeau, AGS, Saskatchewan Director
Cooke Municipal Golf Course, SK
pvezeau@citypa.com

John C. Scott, AGS, Quebec Director
Summerlea Golf & Country Club, QC
john.scott@summerlea.com

Dustin Zdan, AGS, Alberta Director
Connaught Golf Club, AB
zdangolf@hotmail.com

Bradley Allen, Atlantic Director
Cabot Links, NS
brad3allen@gmail.com

Tim Kubash, MS, AGS, British Columbia Director
Salmon Arm Golf Club, BC
tkubash@salmonarmgolf.com

Thank you for a great year

It's crazy to think that this will be my last CGSA president's message. How a year goes by so quickly! That being said, what a wonderful way to finish my duties as president in Banff, Alberta. The Canadian Golf Course Management Conference is a great opportunity to see my friends and colleagues, in such a beautiful part of Canada. I look forward to seeing you at The Canadian, March 4-7, 2019.

The conference offers comprehensive educational programs and festivities that you don't want to miss. I'm hoping the weather cooperates and I'm wishing everyone safe travels to Banff.

2018 was a busy and successful year! One of the highlights was the signing of the MOU with the NGCOA Canada and PGA of Canada in the creation of the Canadian Golf Industry Show. This was an important step towards working collaboratively to create more efficiency in the industry. Although we met with industry groups to better the CGSA membership, there is still lots of work to do.

The CGSA Board of Directors is a dynamic group of individuals that are very passionate and committed to their members. I am pleased that we had a great year and I'm encouraged

for the future of our association, knowing that this momentum will continue with the individuals on the Board. Thank you very much for all your efforts.

The CGSA staff are a joy to work with and make our jobs so much easier. Thank you to Jeff, Kathryn, Barb, and Lori for their hard work and dedication to our members. When you see our CGSA staff at The Canadian or other CGSA functions please introduce yourself and you will see firsthand their passion for our industry.

As I reflect on my year as your CGSA President I have lots of people to thank. Thank you to the Board of Directors of Westfield Golf & Country Club, as they have given me the time to fulfill my duties with the CGSA.

Thank you to Blake Palmer, the individual who gave me my start in this industry. He always encouraged me to get involved in my industry. Blake also showed me the ins and outs of golf course maintenance.

Thank you to my fellow supers in Atlantic Canada: Andy MaGee and Scott Skead. It's always great to have friends that you can be honest with during a trying season.

Finally, thank you to my wife Kim and my boys, Mason and Morgan. Kim is the most influential person in my career and has been my go-to for all of life's challenges and triumphs. For 21 years she has stood beside me and her support throughout my career has been unwavering.

Thank you all for everything that you have done for me! I look forward to seeing where 2019 takes us. **GM**

Merci pour une bonne année

C'est fou de penser qu'il s'agit de mon dernier message à titre de président de l'ACSG. Le temps passe si vite. Quoi qu'il en soit, Banff est un endroit merveilleux pour clore mon mandat d'un an. Le congrès canadien sur la gestion des terrains de golf, Le Canadien, qui aura lieu du 4 au 7 mars 2019, nous offre une excellente occasion de revoir nos amis et collègues dans un décor vraiment enchanteur. Au plaisir de vous voir à Banff!

Le congrès offre aux participants un excellent programme de formation et de festivités. Il s'agit d'un événement à ne pas manquer! J'espère que la météo nous sera favorable. Je vous souhaite à tous un bon voyage à Banff.

L'année qui vient de s'écouler a été très bien remplie et très fructueuse. L'un des moments forts de 2018 a été la signature du protocole d'entente avec l'Association nationale des propriétaires de terrains de golf du Canada (ANPTG) et l'Association des golfeurs professionnels du Canada (PGA) pour la tenue du Salon de l'industrie canadienne du golf (Canadian Golf Industry Show). Cette collaboration fructueuse accroît l'efficacité de notre industrie. L'année dernière, nous avons également fait la tournée des divers groupes de l'industrie afin de bonifier les avantages offerts aux membres de l'ACSG, mais il nous reste encore beaucoup de travail à faire.

Le conseil d'administration de l'ACSG se compose d'un groupe de personnes passionnées et motivées au service de tous les membres. Je suis heureux de savoir que l'ACSG est entre bonnes mains et que l'avenir s'annonce radieux. Merci beaucoup pour tous vos efforts.

Merci également aux employés de l'ACSG, Jeff, Kathryn, Barb et Lori, avec qui j'ai eu grand plaisir de travailler. Ils nous facilitent tellement la tâche. Ils font preuve de beaucoup d'ardeur au travail et de dévouement envers nos membres. La prochaine fois que vous rencontrerez un membre de notre personnel au congrès « Le Canadien », ou à tout autre événement de l'ACSG, je vous invite à vous présenter. Vous serez à même vous aussi de constater que la passion de nos employés pour notre industrie est contagieuse.

En terminant mon mandat d'un an à titre de président de l'ACSG, je me dois de remercier une foule de personnes. En tout premier lieu, les membres du conseil d'administration du Westfield Golf & Country Club, qui m'ont laissé le temps de remplir mes fonctions auprès de l'ACSG.

Je remercie également M. Blake Palmer, qui m'a aidé à faire mes débuts dans le monde du golf, et qui m'a toujours encouragé à m'impliquer dans notre industrie. Blake m'a également montré les rouages de l'entretien d'un terrain de golf.

Merci également à mes collègues, MM. Andy MaGee et Scott Skead, surintendants de la région de l'Atlantique. Il est important d'avoir de bons amis à qui on peut se confier dans les moments difficiles.

Finalement, je remercie mon épouse Kim et mes fils, Mason et Morgan. Kim est la personne la plus influente de toute ma carrière. Elle est toujours là à mes côtés, dans les hauts et les bas de la vie. Depuis 21 ans, son soutien a été inébranlable, et elle m'a accompagné tout au long de ma carrière.

Merci à tous pour tout ce que vous avez fait pour moi. J'ai hâte de voir ce que 2019 nous réserve! **GM**

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CGSA STAFF
1-800-387-1056

Jeff Calderwood
Executive Director, ext. 24
Editorial Committee
jcalderwood@golfsupers.com

Kathryn Wood, CMP
Chief Operating Officer, ext. 23 or
direct 519-589-9282
kwood@golfsupers.com

Lori Micucci
Manager, Member Services, ext. 27
lmicucci@golfsupers.com

Barb Manifold
Business Development, ext. 25
Editorial Committee
bmanifold@golfsupers.com

**GreenMaster Additional
Editorial Committee**
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Exciting Times Ahead

As we head into the new year and towards the end of the golf conference season, it's a good time to comment on the significance of the CGSA's conference value to our membership.

This issue of GreenMaster includes a great profile of The Canadian Golf Course Management Conference, being hosted this year at the spectacular Banff Springs Hotel. As you'll read, it's an event not to be missed and it will certainly propel your golf operation and career forward. And, Banff is as good as it gets for location!

Continuing education and networking are two of the most valuable benefits of CGSA membership. Both are critical to a superintendent's success. So, the CGSA's strategic plan is very focused on effectively delivering conference content to meet those needs. Being the largest event dedicated specifically to the profession of Canadian golf superintendents and providing global content with national networking opportunities, the value of "The Canadian" to you is unmatched anywhere.

Looking forward, the recent announcement that the CGSA has signed a Memo of Understanding with the NGCOA Canada and PGA of Canada to create the Canadian Golf Industry Show has also been exciting news for the industry.

The three associations retain their independent national conferences to ensure the focus of each on their respective sectors of the golf industry.

But all three will be simultaneously presented in the same location. This will allow for some shared sessions such as opening keynotes, opening receptions, and the opportunity for cross-over delegate attendance of some educational sessions.

In addition, a combined trade show will offer the entire spectrum of golf industry suppliers. Certain purchasing decisions and supplier relationships that ought to transcend the previous silos of supers, owners and pros will now be properly facilitated. Suppliers will also benefit from the reduced travel and labour costs of exhibiting in multiple smaller trade shows.

The efficiencies created by this combined Canadian Golf Industry Show will benefit everyone involved. It will allow for a more sustainable business model to deliver those critical educational and networking benefits, as well as improved supplier marketing and golf course purchasing.

The next step for this exciting new endeavour is the negotiation of meeting space and costs with the host hotels and convention centers, which is well underway. The normal lead time to accommodate negotiating the site selection for a large event like this is typically four years, but we are confident that our negotiation team will successfully fast-track the process to achieve a launch of the first Canadian Golf Industry Show in late November 2020 or 2021.

Throughout my entire 27-year career of golf association management, I have heard the calls for more alignment between our associations, including frequent comments about too many conferences and trade shows. The CGSA is proud to be a partner in the solution to address these suggestions.

In the meantime, I look forward to seeing you in Banff, March 4-7, for what promises to be another exceptional Canadian Golf Course Management Conference.

Happy 2019 to all!

Respectfully,

*Jeff Calderwood, Executive Director
Canadian Golf Superintendents
Association*



The future is riding on it.

Come see us at The Canadian Golf Course Management Conference.
March 5-6, Banff, Alberta



JOHN DEERE
GOLF



MOUNTAINS OF OPPORTUNITY

Fairmont Banff Springs Hotel - Banff, AB
March 4 - 7, 2019



A Guide For The Canadian Golf Course Management Conference



The Canadian Rocky Mountains are ready to welcome you to The Canadian Golf Course Management Conference from March 4 - 7, 2019 in Banff, Alberta. The Town of Banff has much to offer you during your visit, whether it be some historical background, present day delights, world-renowned ski hills or relaxing spa treatments. Banff is certainly a location that is on the bucket list of many travellers.

Take the time to learn about the roots of the town with a tour of Banff National Park Museum; western Canada's oldest museum or discover the roots of the hot springs at the original Cave and Basin site founded in 1883, and stay at the Fairmont Banff Springs Hotel where you'll enjoy a piece of Canadian Rocky Mountain history.

The winter is a special time in the Rockies with the snow topped mountains allowing for a number of ways to enjoy the winter season. Downhill or cross-country skiing, snowboarding or snow shoeing are popular in the park with many trails ready to explore or if you're more of a novice, guided trips are also available. It's a unique way to experience something different while being immersed in nature.

There's always the option of enjoying some indoor time as well, enjoying tea at the Castle in the Rockies or in one of the many cafes or restaurants on Banff Avenue. With restaurants featuring dozens of different styles of cooking or taste

sensations, there's sure to be something to please. Or perhaps you prefer to completely unwind, and will find some peace and serenity while relaxing at the spa.

But, don't forget the education programming and social networking that's waiting for you at The Canadian. From education sessions on business and turf management, a full trade show, recognition of your peers and special networking events, it's an opportunity to re-charge yourself professionally as well as personally before heading into another golf season.

MONDAY, MARCH 4, 2019

In Partnership with The Toro Company

Start the conference off on Monday, March 4, by participating in Specialized Learning Workshops presented by The Toro Company. Enjoy these half day workshops at an additional cost.

The Workplace Culture by Carlos Arraya, CGCS Bellerive Country Club and Grant Murphy, The National Golf Club of Canada, focuses on employee satisfaction, productivity and team environments. Alternatively, take in the seminar with Adam Moeller, USGA Green Section who will share insights on the New Trends in Putting Green and Fairway Management. The focus here will be on high-quality putting greens and fairways.

The afternoon sessions include Managing Change is Par for the Course, presented by Melanie Peacock, PhD., MBA, CPHR; you can learn how to help your employees enact change. Or listen to Beth Guertal, PhD., Auburn University present The Soil Under Your Turf. This seminar will discuss the basics of soil chemical and physical properties and how they affect nutrient holding, water movement and the environmental impact of your golf course.

Visit golfsupers.com/banff2019 for more details on the sessions and speaker backgrounds.

TUESDAY MARCH 5, 2019

The keynote address will be by Laura Katen a well-known author and speaker in the golf superintendent community. She will present Communicating with Confidence, Clarity and Credibility – Are You Undermining Your Success? After listening to her presentation at The Can Am Cup, it was evident her message needed to be shared again.

She will help superintendents, managers and other industry professionals understand how they can control how others perceive them, share strategies to develop and strengthen communication skills and facilitate interactive exercises to immediately apply key techniques shared. Do not miss this opportunity to hear from one of the best!

Always a favourite is the awards lunch sponsored by Bayer, celebrating Canada's best on Tuesday, March

5 at the Fairmont Banff Springs Hotel. Come congratulate and celebrate the achievements of the Superintendent, Assistant Superintendent and Equipment Technician of the Year; as well as the Environmental Achievement Award Winner, scholarship winners and the John B. Steel recipient.

The trade show kicks off with the opening SociALL, co-sponsored by BrettYoung on Tuesday, March 5 from 4:00 – 7:00. All registrants and exhibitors are welcome to attend. It will be held in the Van Horne Ballroom in the Fairmont Banff Springs Conference Centre. Lunch will also be provided in the trade show on Wednesday, March 6.

Make sure you visit the Silent Auction that will have something for everyone, your bids assist the CGSA with the awards programs, scholarships and advocacy efforts.

Sunset Gondola Reception

WEDNESDAY, MARCH 6, 2019

Following a full day at the trade show, including numerous educational sessions, you'll have the opportunity to take in the sights of Banff by sunset on Wednesday, March 6 with the Sunset Gondola Reception. High atop the townsite on Sulphur Mountain you'll arrive via gondola ride and have the opportunity for some fantastic sights of the mountain ranges. This is included in the All Access package or tickets are available for purchase.



EDUCATION SESSIONS – MARCH 5, 6, 7

Exclusively sponsored by Syngenta, the education program offers over 15 hours of programming. Here are some of the sessions you won't want to miss:

Current Human Resource Challenges and Developments in the Canadian Landscape

presented by Melanie Peacock, PhD, MBA, CPHR

New Trends in Putting Green Surface Management

presented by Adam Moeller, USGA

Here's What I Think I Know – 31 Years Watching Grass Grow Has Taught Me This

presented by Grant Murphy, The National Golf Club of Canada

Thatch – How to Best Control

presented by Beth Guertal, PhD, Auburn University

Be the Leader for the Generational Workplace

presented by Carlos Arraya, CGCS, Bellerive Country Club

Moss Control: What We Know Now, and The New Rules of Golf and Course Management

presented by Jack Fry, PhD, Kansas State University

Dealing with the Pressures of the Job, While Managing.... Anxiety

presented by Paul Robertson, Victoria Golf Club and Miranda Robinson, Summerlea Golf Club

Leadership and Balance - Building a Team and Having a Life While Maintaining a Championship Golf Course presented by Chris Tritabaugh, CGCS, Hazeltine Country Club

Keep your eye out for details on the education program geared to the Equipment Technician. We're working to engage equipment managers in education programming specific to their needs while allowing the leadership options that are presented throughout the program.

Industry presentations will offer trade show delegates with specific information on new innovations or products that are available from various industry suppliers. It's your opportunity to hear first hand from these professionals. Please visit golfsupers.com/banff2019 for confirmed sessions.

SEE YOU SOON!

As you get ready to host your members, guests and visitors to your course, we hope that your time in Banff will be greeted with great memories along with the information, tips and tricks you learned while there. Or the new connections you made during your networking time in Banff comes to mind to share an experience or challenge with!

For a complete schedule visit:
www.golfsupers.com/en/banff2019

Follow along with updates on Twitter (@GolfSupers) and make sure to check out the conference website for information on registration, schedules, FAQs, events and more!

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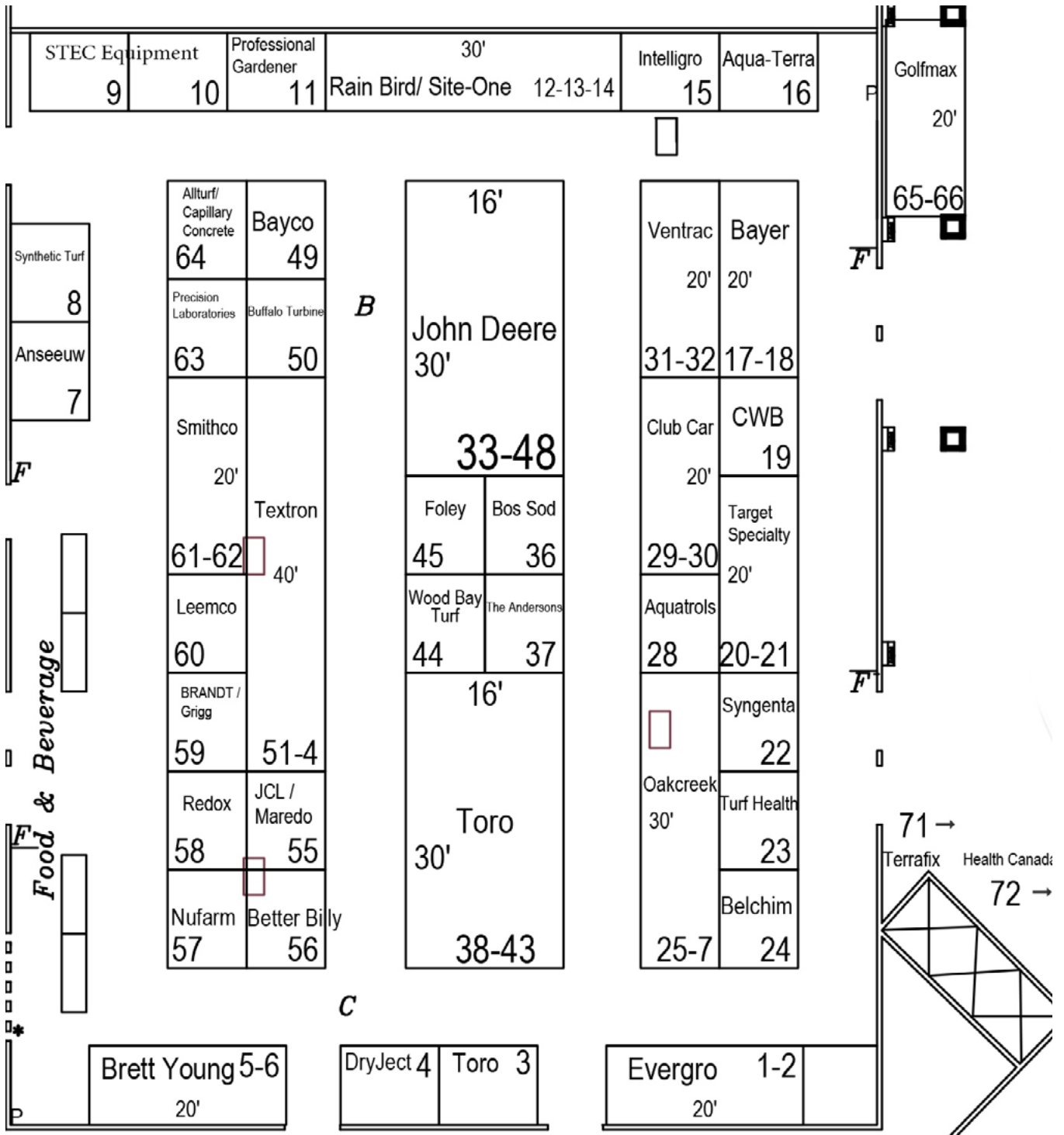


Trade Show Exhibitor List 2019

	Company	name	email	phone number	booth
	Allturf	Nigel Rennie	nigel@allturf.ca	416-520-4845	Booth: 64
	Anseeuw Brothers Ltd. High performance turf fertilizers. Turf construction and renovation services.	Jason Anseeuw	jason@anseeuwbro.com	204-333-3105	Booth: 7
	Aqua-Terra Canada Inc. Traqmatz turf protection, and PC Drainage.	Peter Atkinson	patkinson@aquaterraca.ca	705-623-6445	Booth: 16
	Aquatrols Cutting-edge soil surfactants and wetting agents that maximize the water and soil relationship.	Walter Dea	Walter.dea@aquatrols.com	514-602-8410	Booth: 28
	Bayco Golf Golf course accessories.	Cal Surgenor	csurgenor@baycogolf.com	204-633-8881	Booth: 49
	Bayer Bayer Environmental Science is an innovative leader in the turf industry in the Canada and is dedicated to the research, development and marketing of plant production products.	Colin White	Colin.white@bayer.com	519-239-3983	Booth: 17 & 18
	Belchim Crop Protection Canada (formerly Engage Agro) Turf protection products including Kabuto, Segway, Renovo, Phostrol and more.	Barry Johnson	Barry.johnson@belchim.com	866-613-3336	Booth: 24
	Better Billy Bunker	Daniel Smith	dgsmith512@gmail.com	765-730-1237	Booth: 56
	Bos Sod Farms Inc.	Bert Bos	info@bossod.com	604-854-1415	Booth: 36
	BRANDT/Grigg BRANDT® is leading global manufacturer of specialty nutrients, adjuvants and colorants, including the three branded product lines in the turf market: GRIGG™, BRANDT and BRANDT iHammer.	Michael Steve	michael.steve@brandt.co	330-618-1477	Booth: 59
	BrettYoung Professional turf products.	Travis Unger	Travis.unger@brettyoung.ca	780-985-7307	Booths: 5 & 6
	Buffalo Turbine Buffalo Turbine has been manufacturing the original and most powerful debris blowers since 1945. A variety of Tow-behind, PTO and hydraulic models are available.	Judy Livermore	Judy.livermore@hbpilc.com	716-592-2700	Booth: 50
	Capillary Concrete	Hunter Smith	hunter.smith@capillaryconcrete.com	321-939-4143	Booth: 64
	Club Car	Phil McDonald	Phil_McDonald@clubcar.com	403-999-9353	Booths: 29, 30
	CWB National Leasing (formerly National Leasing) Financial Services.	Kristin Cuma	tradeshows@cwbnationalleasing.com	204-954-2222	Booth: 19
	DryJect Western Canada The only machine in the world that aerates, topdresses and amends in one pass.	Jeff Hacios	dryjectwc@gmail.com	780-881-1940	Booth: 4
	Evergro	Heather Blackett	Heather.blackett@nutrien.com	604-940-0290	Booth: 1 & 2
	Foley United	Greg Turner	gregturner@foleyunited.com	715-426-5151	Booth: 45
	Golfmax Purchasing Program	Ryley Scott	rscott@ngcoa.ca	866-626-4262	Booth: 65 & 66
	Health Canada	Travis Nielsen	Travis.nielsen@canada.ca	403-292-4732	Booth: 72
	Intelligro	Steve Princinsky	stephen.princinsky@petrocanadalsp.com	773-679-0471	Booth: 15
	JCL/Maredo Maredo GT 230 High Speed Coring Heads, Maredo GT 410 Overseeding Heads for triplex greensmowers.	Pat Differ	patdiffer@gmail.com	604-855-1241	Booth: 55
	John Deere Golf Turf maintenance equipment.	Neill Smith	smithneill@johndeere.com	905-317-5131	Booths: 48, 33, 47, 34, 46, 35
	National Leasing (see CWB National Leasing)				
	Nufarm New Affirm™ WDG Fungicide has a unique mode of action to control anthracnose, waitea patch, and other diseases.	Sabrina Bladon	Sabrina.bladon@nufarm.com	226-820-1282	Booth: 57
	Oakcreek Golf & Turf Toro Distributor.	Jason Balmer	balmerj@oakcreekgolf.com	403-203-5595	Booths: 25, 26, 27
	Olds College	Jason Pick	jpick@oldscollege.ca	403-556-8243	Booth TBC
	Precision Laboratories Specialty chemical products.	Larry Conkings	lconkings@precisionlab.com	562-519-1595	Booth: 63
	Rain Bird/SiteOne Landscape Supply Irrigation products.	Serge Gauthier	sgauthier@rainbird.com	514-448-1281	Booths: 12, 13, 14
	Redox	Erin Greenwell	erin@redoxchem.com	208-678-2610	Booth: 58
	Smithco Specialized turf maintenance machinery featuring dedicated spray vehicles, sand bunker rakes, turf sweepers, greens & fairway rollers and rolling tine aerators.	Doug Colley	dc@smithco.com	416-565-2123	Booths: 61, 62
	STEC Equipment, Inc.	Cliff Stewart	Cliff@steequipment.com	864-225-3666	Booths: 9 & 10
	Syngenta Canada Inc. Posterity® Focused on the challenges Superintendents face every day. We are committed to the research and the development of the next generation of turf protection.	Ryan Beauchamp	Ryan.beauchamp@syngenta.com	519-239-4246	Booth: 22
	Synthetic Turf International Canada	Scott Smockum	Scott@synthetic-turf.ca	778-753-7014	Booth: 8
	Target Specialty Products Offers industry leading product and support solutions, while bringing together the professional sales teams of Turfgrass Canada and Plant Health Division.	Mark Jull	Mark.Jull@Target-Specialty.com	403-390-2116	Booths: 20, 21
	TerraFlix	Althea Alegre	aalegre@terrafixgeo.com	416-674-0363	Booth: 71
	Textron	Joanne Uhles	juhles@textron.com	706-792-5742	Booths: 51, 52, 53, 54
	The Andersons Fertilizers / Soil Amendments that utilize The Andersons innovative DG and SG technologies.	Vicki Grimshaw	Vicki.grimshaw@andersonsinc.com	419-891-2973	Booth: 37
	The Professional Gardener Co. Golf and turf supplies.	Peter Krebs	peterkrebs@shaw.ca	403-263-4200	Booth: 11
	The Toro Company Toro is the global leader of innovative turf maintenance equipment and irrigation technologies for the golf market.	Josh Tubbs	Josh.tubbs@toro.com	612-887-8831	Booths: 38, 39, 40, 43, 42, 41, 3
	Turf Health Products	Dave Duncan	turfhealthproducts@hotmail.com	604-309-8690	Booth: 23
	University of Guelph	Stephen Fleischauer	sfleisch@uoguelph.ca	519-824-4120	Booth: TBC
	Ventrac by Venture Products Inc. Ventrac tractors and attachments.	Amy Boreman	330-683-0075	info@ventrac.com	Booths: 32, 31
	Wood Bay Turf Technologies Turf rollers, turf dethatchers.	Lyall Adams	ladams@woodbayturftech.com	1-800-661-4942	Booth: 44

CGSA Conference Floorplan

as of January 17, 2019



Note: CGSA reserves the right to amend booth numbers if necessary. Booths sold as of January 17, 2019

▲ **FEATURE** ▲ **Erik Dyck**
PRODUCT MANAGER - FORAGE & TURF, BRETTYOUNG



Varietal breeding is an important factor that has contributed to dramatic improvements in crop yields since the turn of the century. In modern day agriculture, the need to produce higher crop yields is pervasive.

We have all heard the stats, “If the world is to grow enough food for the projected global population in 2050, agricultural productivity will have to rise by at least 60%, and may need to more than double” according to researchers. This and other variations of this statement, often leads to a conversation involving varietal improvements, among other factors, to achieve higher yields.

In turf, the benefits of varietal breeding are equally as important, but much less tangible and more difficult to measure than yield. Instead, characteristics such as vigor, green cover, wear tolerance, disease resistance – among a long list of others – is often used to make a variety selection.

From a customer’s perspective, it is a reasonably straightforward process to select products that have desirable characteristics for their application. Turf performance will subsequently reinforce the varietal decision or encourage a different selection. This end-use planting decision and evaluation can be made within a growing season or two. On the other hand, the development time to breed, evaluate and commercialize a new variety can take around 10-15 years, which is one of the main reasons that successful varieties often stay successful for many years. Synthetic breeding is a marathon, not a sprint.

In recent years, we have seen the commercial benefits of turfgrass breeding through the development of new characteristics such as salt tolerance, lateral spread and perhaps the most publicized is low water usage.

An organization that has led low-water use conservation is the Turfgrass Water Conservation Alliance (TWCA), a non-profit alliance of competitors in the turfgrass industry. TWCA is committed to improving available plant materials to reduce water needs of the managed environment while preserving vital ecological services provided by green spaces.

The TWCA protocol to measure water usage involves simulating drought conditions using rainout shelters. When all varieties in a trial are reduced to 25% green cover, the experimental area is saturated with 5.0 cm of irrigation to initiate drought recovery. The trial area is subsequently irrigated weekly with 2.5 cm water. A digital image analysis machine evaluates recovery until plots reach 100% green cover.

Varieties earning the TWCA qualification demonstrate statistically significant water saving potential over conventional varieties of the same species. TWCA’s portfolio of qualified products is a broad ranging program, with 60 grasses now qualified in six different cool-season species.

While low-water use, salt tolerance and even self-repairing characteristics are exciting developments in turfgrass breeding and marketing, the foundation to ensure your purchase has these desired characteristics starts with certified seed.

Certified seed, also referred to as blue tag, guarantees quality including varietal purity, germination, pure living seed content and absence of noxious weeds. The agronomic benefits of certified seed are seen in the stand through defined varietal characteristics, strong seedling germination, improved plant populations and reduced weed competition. Of course, providing this level of assurance comes at a cost.

Certified seed production fields are planted using foundation seed, which is one generation from the breeder seed. Closer lines to the source genetic material will provide better varietal integrity and will more closely demonstrate the characteristics of the source variety.

Certified seed production is inspected by Certified Crop Inspectors who verify species, kind, variety, previous cropping history, and isolation distance to other crops. The Canadian Seed Growers Association receives the field reports and applications for issuance of the crop certificate.

When harvested, licensed Canadian Food Inspection Agency (CFIA) approved conditioners clean the certified seed. Seed samples are tested by accredited seed labs for purity, germination and pure living seed. Upon completion of testing, and if the seed has met certified requirements as outlined in the Canadian Seeds Regulations Grade Tables, an official CFIA certified label is assigned to that seed lot.

Don’t see a certified tag on your seed blend? Only individual lots of seed (single varieties) can be

Start with A Foundation



Rapid germination and emergence Kentucky Bluegrass variety evaluation



Seed Analysts at the BrettYoung Winnipeg lab



Rainout shelter and Digital Image Analysis per TWCA protocol

assigned a certified label meaning blends do not qualify. However, this does not preclude a seed blend from containing source components that are all certified. Talk to your seed company representative about the origin of the components in your blend to ensure quality.

What about common seed? Well, its source material can come from anywhere without any verification of varietal characteristics. The seed can be decades from its source genetic material (breeder seed stock) often resulting in a loss, reduction or variance of desired characteristics that a variety was originally selected for. There is no way to know if the common seed you are planting has the desired spring green-up, wear tolerance or drought tolerance it may have been marketed to have until the seed is planted and grown. The results will speak for themselves and that is not always a good thing.

All the quality assurance protocols that are required for certified production such as a mandatory field inspection, field reports and processing by a certified conditioner are not required and generally not documented. The seed can have presence of other crops, primary or secondary noxious weeds and the allowable weed content is generally higher than certified species dependent. If these risks are too much of a gamble for your turf application a certified seed choice may be well worth the piece of mind.

Despite these negatives, there can be applications where common seed serves its purpose, primarily that it is a less expensive option compared to certified. Be mindful of its drawbacks and always ask for a certificate of analysis to assess if purity, germination and pure living seed content meets your requirements. **GM**

Photos: Jesse J. Benelli, PhD Bayer

Anthracnose is a generalized term

that we use to describe one of the most frustrating diseases that we manage. Some of you are more familiar with the term Crown Rotting Anthracnose. Some of you may have nightmares when you hear Basal Rot Anthracnose. If that is not enough, another descriptive term is Anthracnose Foliar Blight.

Anthracnose is caused by the pathogen *Colletotrichum cereale* and is among the most diagnosed disease on fairways and putting greens (Fig. 1). This pathogen has the ability to sneak into the plant, completely undetected. All of this happens unbeknownst to the plant and the practitioner managing them.

This fungus lies in wait until the environmental criteria set off a series of life cycle changes that elicit aggressive behavior from the pathogen. That is why timing preventive applications is so difficult. It is likely already in the plant.

Anthracnose can be a very difficult disease to suppress, let alone control. This is due to several factors including the biology and life cycle of the pathogen and the seasonal plant health of our finely mown grasses. In addition, many of the most commonly used plant protection products have little to no efficacy against this disease.

Figure 1



Figure 2

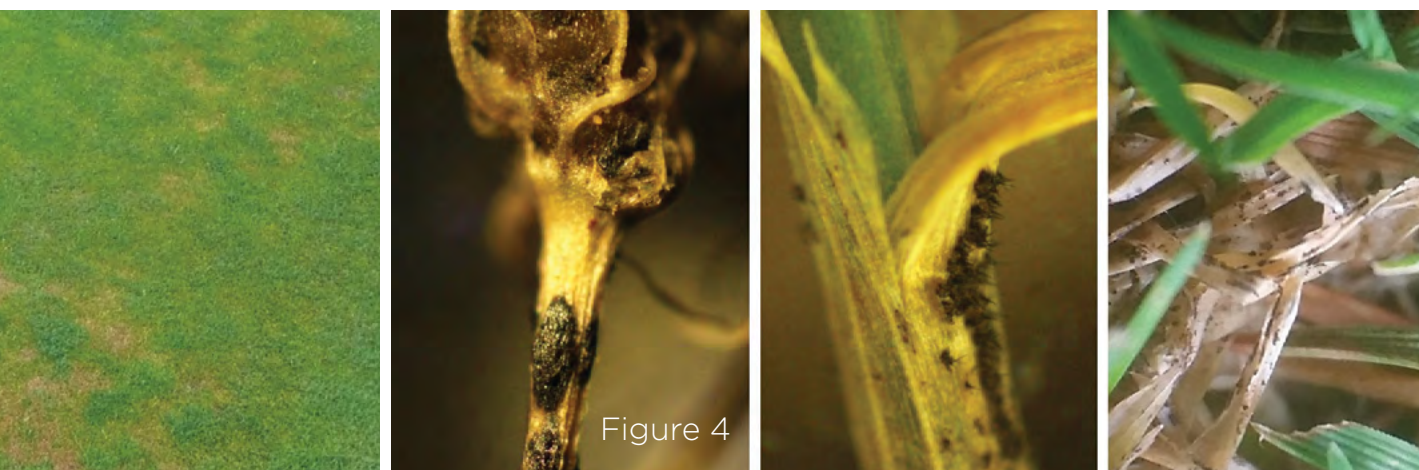
HOSTS

Throughout much of Canada, anthracnose is primarily diagnosed on annual bluegrass and older cultivars of creeping bentgrass maintained as putting green surfaces.

Interestingly, it is rare to see anthracnose developing on annual bluegrass and creeping bentgrass on the same green. This may be due to subtle differences in the strain of *Colletotrichum cereale* that is responsible for infecting the grass species.

Fungicide Programming for Anthracnose Management

Figure 3



Anthracnose has also been diagnosed on golf course approaches, tees, and fairways during peak stress periods. Anthracnose developing on other turfgrass species does not tend to be as severe and the symptoms are much more transient compared to annual bluegrass and creeping bentgrass.

Figure 1: Anthracnose is among the most documented diseases in diagnostic labs across North America.

Figure 2: Anthracnose can also be a severe disease of older varieties of creeping bentgrass. Note the bronzing of affected turf.

Figure 3: Anthracnose selectively attacked annual bluegrass on a fairway surface. Note the yellowing of affected turf.

Figure 4: Visible signs associated with anthracnose development. These signs are often visible through use of a hand lens.

THE DIAGNOSIS

The symptoms of anthracnose tend to differ based on host species. On low mown annual bluegrass, initial symptoms include the yellowing of leaf tissue and a loss of shoot density (Fig. 2). However, yellowing of the leaf tissue is less commonly observed on creeping bentgrass.

On older varieties of creeping bentgrass, initial symptoms develop as a bronzing of the affected leaf tissue (Fig 3). As such, it is often more difficult to diagnose anthracnose on creeping bentgrass during the initial stages of disease development.

One of the key diagnostic traits of anthracnose are the visible signs of infection (Fig 4). The pathogen produces darkly pigmented appresoria, acervuli and setae. These fruiting bodies can be observed with the use of a high-powered hand lens. The presence of setae protruding from the acervuli on stolon or sheath tissue is a good indication that the infection may be fatal. Housed inside the acervuli are millions of spores called conidia that can each spawn new infection to neighboring plants (Fig 5).

DISEASE DEVELOPMENT

Several environmental and managerial factors lead to disease development. Disease development is most favoured during high temperature stress or excessive rainfall. After infection, extended periods of hot and dry weather can rapidly increase the severity of anthracnose. Additionally, low mowing and low fertility are also critically involved in anthracnose development.

In general, anthracnose development on annual bluegrass can occur at any time during the growing season. Anthracnose development on older creeping bentgrass varieties tends to occur after the onset of supraoptimal temperatures (>28°C) coupled with rainfall or high humidity.

MANAGEMENT

Anthracnose is a disease best managed through the help of cultural inputs. Many of our discoveries for anthracnose management have risen



Figure 5

Figure 5: Embedded within the acervuli are numerous banana shaped spores called conidia.

Figure 6: Phosphonate fungicides applied in combination with DMI's and contact fungicides perform very well against anthracnose. Trial conducted in 2018 at Deer Ridge Golf Club. Superintendent: Jason Winter, AGS.



Figure 6

out of the research efforts at Rutgers University. In general, raising mowing heights during summer stress, or alternating mowing and rolling, can help suppress anthracnose.

Additionally, frequent and light sand-topdressing when the plants are actively growing will help protect crown tissue and will aid in suppression. A reluctance (due to resources available or club demands) to implement these cultural practices will lead to an increased dependency on chemical control.

In regards to fungicide programming, tank mixing or alternating different modes of action is the best approach for chemically controlling anthracnose. In research conducted throughout North America, the best anthracnose fungicide programs usually include repeat applications of phosphonate fungicides (Signature XTRATM Stressgard) in combination with a DMI fungicide (tebuconazole, propiconazole, or triticonazole for example) rotated with a phosphonate fungicide with the contact fungicide chlorothalonil (Fig. 6).

It is important to note that not every fungicide within a particular mode of action is equally effective.

For instance, among contact fungicides, chlorothalonil and fludioxonil can be effective at controlling anthracnose, whereas fluazinam has not provided consistent control in university led research.

Another example lies within the SDHI class of fungicides. In this group, only penthiopyrad has consistently demonstrated anthracnose suppression in fungicide efficacy trials. In addition, studies have concluded that there are strains with reduced sensitivity to strobilurin and benzimidazole fungicides.

Managing anthracnose can be equally challenging on annual bluegrass fairways. Many instances of anthracnose breakthrough occur after applications of a single active ingredient that exclusively targets dollar spot. While excellent control of dollar spot can be expected after applications of these materials, they offer very little control of anthracnose. To maximize plant health during the summer months, consider using premixture products or products containing a DMI fungicide. The addition of phosphites into a fairway program can also be a worthy supplement to manage anthracnose. **GM**

**eVi**

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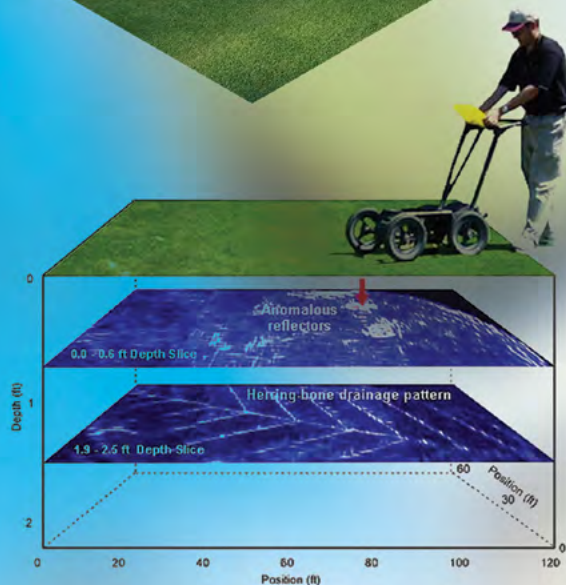
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2018 Green



Having graduated from post-secondary golf course education five years ago, I was seeking to replenish my resume with more current and distinct content. I was also looking for the right opportunity, as it can be challenging to find and pursue potential accolades that further distinguish your professional portfolio.

The annual John Deere/Bayer Green Start Academy is exactly what I was searching for: an interactive experience exclusive to Assistant Superintendents.

The Assistant Superintendent portion of one's career path is typically a voluminous section comprised of technical skill advancement and introductory exposure to various roles of the Superintendent position. Often forgotten, or partially neglected, is the importance of professional development during this whirlwind chapter of our career.

The Green Start Academy program prioritizes this aforementioned component in a jam-packed two day event enriched with fabulous speakers, privileged facility tours of Bayer and John Deere and limitless networking opportunities.

Upon first hearing the news of my acceptance to the academy in late summer, I was honoured to partake in a program hosted by two illustrious companies; John Deere and Bayer.

Touring their factories/facilities highlighted some of my most memorable moments of the two day program, and I was equally impressed by the dedicated representatives of these companies who were enthusiastically involved from start to finish. It's yet another example of how supportive our industry partners are.

Representing our group was a mosaic of Assistants hailing from golf courses all across North America, including a handful from Canada. Our professional backgrounds varied in experience and were diversified in native climates. Our goals during the program, aside from networking, were also varied.

Some Assistants were seeking to utilize the Green Start Academy for assistance in making the next "jump" to a Superintendent position, and others, myself included, were simply looking to acquire leadership and business skills.

The roundtable discussions in small groups were insightful and drummed up passionate analysis of the common issues we share in our industry. The most common issue raised was regarding staffing. The significance of ensuring

An **interactive** experience exclusive to Assistant Superintendents

Start Academy



seasonal turnover levels are more manageable, the capability of boosting staff morale and the initial basis of attracting talent to your workplace were all heavily discussed.

Living in a generation submerged in technological access/communication, often underappreciated are moments of face-to-face interaction. It was refreshing to participate in a program committed to networking by means of traditional methods. In doing this, I felt the Green Start Academy brought Assistant Superintendents out of their comfort zones during interactive presentations and tours, and this trickled in to very social-driven lunch and dinner events. Sitting at a table with individuals representing world-class courses that have hosted numerous tour events, networking opportunities were plentiful.

It is impossible for me to pinpoint a single take home point from this event as it was important to take notes constantly and extract bits and pieces from each presentation.

I was especially impressed by the guest speakers who offered their wealth of knowledge in resume, cover letter and interview preparation. The presenters emphasized the importance of "first impressions" and how to creatively gear your portfolio to a specific audience. In addition to establishing and perfecting these personal documents, we should also be installing a web-based goal structure: creating a timeline of career goals and having a plan in place for each one. Too often, we abandon this commitment either after departing schooling or after sitting comfortably in a position for an extended period of time.

Another topic that featured prominently through various presentations and discussions was "balance." An expanding subject becoming amplified on social media especially, life/work balance can't be understated as an industry issue.

The role of the Assistant Superintendent is constantly evolving and demands tremendous dedication toward personal development as much as mastering technical skills in the field. The Green Start Academy offers an incomparable experience, and is truly the only program available that is designed specifically for an Assistant Superintendent, which is incredibly valuable. I would encourage emerging Assistant Superintendents to apply for the Green Start Academy. You won't regret it! **GM**

Photos courtesy of IMRE.com

▲ **FEATURE** ▲ **PAUL MACCORMACK**
SUPERINTENDENT, FOX MEADOW GOLF & COUNTRY CLUB



Good for

Every now and then an idea comes

along that stops you in your tracks. The vision could be any size really, as long as it gives you a sense deep in your consciousness that you have no choice but to listen. Sometimes these ideas come when you least expect them, and often times we are not ready for the power they possess.

About a year ago a good friend came to me with such a vision. I was speaking with fellow TurfNet blogger and turf renaissance man Frank Rossi, when he dropped a bombshell of an idea. It involved taking the Mindful Superintendent Blog to a whole different level and encouraged me to begin speaking publicly.

Frank felt that Chris Tritabaugh (Hazelton National, MN) and I would make a great team and that we should start sharing our stories together. At first, I was skeptical, but it turned out to be a great suggestion. Chris and I spoke at last year's GIS in Texas, and it was a fantastic experience (and if you are interested, we are presenting again in 2019 in San Diego).

But, it turned out that public speaking was only part of Frank's grand plan. He was envisioning something far more revolutionary and challenging. Through his travels and accrued wisdom, Frank has seen many superintendents and turf professionals who were having a tough time.

Many greenkeepers were struggling with finding a balance between the demands of the profession and



living a fulfilling life beyond the golf course. He felt they needed to hear the message we had to share but this time in a completely different setting. Frank believed we should create an event dedicated to resting, learning, and reimagining what it means to be a golf course superintendent.

Initially, I felt quite unsure about his idea, yet within the uncertainty I knew there was enough merit to not cast it aside without giving it a shot. Every time I shared the idea with someone they had the same reaction... surprise, a pause, then total support.

the Soul

The Mindful Superintendent Leadership and Wellness Retreat



With every interaction the idea gained momentum and things began to fall into place. The pieces of the puzzle began to fit and this grand scheme began to slowly turn into a reality.

The idea for this event that was so far out of the industry box, there

was no packaging left. We sincerely hoped that it would have a lasting impact on the attendees; that the small space created would open a door to new possibilities and a fresh way of approaching what it means to be a Superintendent. We had no idea the impact our first retreat would have.

The beta version of the Mindful Superintendent Leadership and Wellness Retreat has come and gone, but the legacy left behind is just the beginning.

Twelve of us gathered in St. Peters, Prince Edward Island to take a mindful pause, introduce some



new ideas, and share. The openness and vulnerability shown by the participants was staggering. The turf conversations were inevitable, (and amazing) but it was the chats that went deeper, way down into the root zone, which left the most indelible footprint.

Our weekend was loosely defined, but had definite purpose. The absence of a written itinerary left some feeling a bit unstable... but that was intentional. There was a master plan and a ton of organization involved, but there was also enough space built in to allow things to meander. This intentional space created the room for something special to emerge. Intentional spaciousness works like that — it creates the breathing room we require in order to be spontaneous and more receptive to openness and possibility.

The first day was devoted to introducing the practice of mindfulness. We talked about the value solitude, presence, awareness, and the power of pausing on purpose.

After a morning of learning and discussions, we took to nature to practice. A two-and-a-half-hour silent hike through the fields, forest, dunes and coastline of nearby Green-

wich National Park turned out to be the perfect way to demonstrate the immense power of taking time for silent reflection and solitude.

Some of the most impactful and important parts of the weekend were the natural, organic discussions. There was purposeful space created to allow them to occur, but the nature of the discussions was left open ended.

Our evenings were dedicated to the conversational flow of ideas and the group responded beautifully. Topics like team culture, stress management, anxiety, divorce, and what it means to be a woman in turf yielded wonderful insights.

A concept everyone connected with was that as Golf Course Superintendents and more importantly, human beings, we all suffer. At any given time, our level of suffering changes, but we are all in it together. This realization really brought the group together and produced many illuminating conversations.

We also had a good deal of fun. The whole vibe was meant to be relaxing and restful, but there was definitely an element of active fun built in. We played golf (horribly for a bunch of folks who spend most of their time on

golf courses) at the nearby Links at Crowbush Cove and had a blast.

Our wrap-up meal was a lobster dinner at my parent's cottage and I'm not sure we could have laughed any more. They say that laughter is good for the soul, and trust me when I say our souls were just fine after that meal.

The last day of the event was dedicated to discussing leadership and culture. Chris Tritabaugh delivered a wonderful seminar that wove together his direct experience with his extensive knowledge. All involved were completely in the moment and the resulting discussions and observations were amazing.

So, where does this vision go from here? It's hard to say really. The speaking and the retreat have begun a long overdue conversation within our turf community. Folks are slowly finding a space that is allowing them to get in touch with something completely new. The courage and vulnerability I have witnessed in such a short period of time has been nothing short of astounding. Let's keep this chat going and continue pushing the boundaries of what we thought possible, you never know where it will lead. **GM**

A Huge Thank You!

There isn't enough room left on this page to express the amount of gratitude I feel for making this event a reality. So many people worked so hard to make this possible and I would be remiss if they were not mentioned:

- Frank Rossi & Chris Tritabaugh
- David Kuypers & Syngenta Canada
- Karen Milligan and her staff at The Inn at St. Peters
- Andrew & Brad
- My wife Jill, and children Maria, Lucas & Clara
- My mom & dad, Ann Marie & Ray
- My staff at Fox Meadow
- Peter McCormick and the team at TurfNet
- Leasha Schwab, Brad Allen, Erik MacPherson, Sean Tulley, Chris Zugel, Miranda Robinson, Michael Vesely, Pat O'Brien, and Max MacKenzie.

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Dedication for the

I have been fortunate to meet so many great people over the years with such a strong passion for our industry. This resonates with the next person that I would like to introduce you to, Aaron Weinberg, AAGS, Assistant Superintendent at Oakville Golf Club in Oakville, Ontario.

Aaron began working in the golf industry in the late 90s, but his passion for golf started earlier than that. "I remember working on a golf course as a means to play more golf. Instead of summer camps or going to a cottage, my parents bought me a junior membership at our local municipal course, Chedoke Golf Club and I would be there at sunrise until dinner time," Weinberg stated. Between the multiple rounds throughout the day, Aaron would also wash golf clubs in the back shop in exchange for some golf balls.

Later in his teenage years, Weinberg joined the golf course maintenance department at Chedoke Golf Club through the City of Hamilton student work program. He knew at that point that becoming a golf course superintendent was his ultimate goal. He explained, "Although I had a very successful junior golf career, it was my passion for golf course architecture, the science, and the effort required to produce serene landscapes and tournament level conditions that drove me to pursue this journey."

With that goal in sight, Aaron continued building his career by working at RattleSnake Point Golf



Aaron Weinberg at Hogan's Bridge on the 12th hole during his internship at Augusta National Golf Club.

Club in Ontario and enrolling in the University of Guelph's Turfgrass Management program. While in the program, Weinberg received a couple opportunities of a lifetime by interning south of the border at both Merion Golf Club and Augusta National in 2006-2007.

It was down in Pennsylvania that Aaron gained a good wealth of his knowledge from Matt Shaffer, Director of Golf Course Operations Emeritus at Merion Golf Club. Aaron said, "It was working for Matt where I gained my strong aptitude in water management for playability and plant health, rolling frequency to mitigate turf disease, and my knowledge to create exceptional playing conditions."

When asked of any experiences that stuck out in his mind, Aaron

mentioned a memory from his internship at Augusta National. "It was close to Christmas and the Assistants used a snow making machine to create snow on the test turf. It was very special for those of us who were far away from home during that time of year."

After gaining all that great experience down south, Aaron made his way back across the border to work at a couple more astounding courses in Ontario, including The National Golf Club of Canada and Islington Golf Club before landing his current position at Oakville Golf Club where he has been since 2009.

John Taylor, property manager at Grand Niagara Golf Club was another key influencer in building Aaron's career. Weinberg stated, "My relationship

and Passion Industry



Making it feel a little more like back home, the Assistants create artificial snow on the test turf at Augusta National Golf Club.

with John (JT) began while working together at the Oakville Golf Club. JT is a very humble gentleman. Being a past President of the Ontario Golf Superintendents' Association, JT is a supporter of continuing education in our profession."

Both John and Matt Shaffer continue to be mentors for Weinberg as his journey towards securing a Superintendent position progresses. The guidance of these remarkable people both professionally and personally have been very special to him. "I am thankful and truly blessed to have developed a friendship with each of them."

When asked what he enjoyed most about working on a golf course Weinberg said, "There is a tremendous amount of self-gratification to

believe that I have had a major contribution in shaping the lives of the women and men I have hired and worked with. Seeing some part time team members return year after year and then go onto post-secondary education for a career in either turf management or on the club management side of our business is extremely rewarding."

When asked about the challenges of his profession, Weinberg states, "Being at the mercy of Mother Nature has by far been the most challenging part. It doesn't matter how well the day has been planned, if the forecast calls for clear skies and it decides to rain, we have to roll with it and adapt." He continued, "I have experienced many sleepless nights in the off season concerned with snow depth,

ice formation, wind desiccation, crown hydration, and freeze/thaw cycles. In the end I can't change the weather, but I can ensure the golf course is well prepared for what Mother Nature throws our way."

Aaron recently took another step to achieving his goal in the turf profession by attaining his Accredited Assistant Golf Superintendent (AAGS) designation through the Canadian Golf Superintendents Association. "The AAGS designation reaffirms the commitment to continuing education and lifelong learning. I value this designation as a mark of professionalism just like a "C Level" executive might have their MBA."

You can see the dedication and passion Aaron has for the golf industry, however the most important piece of his life is knowing when to "go home" and spend time with his wife Deirdre and their incredible children Hudson and Mackenzie. This was some sound advice that he had received in his career.

"It is difficult for people who are entering this profession to understand. In the grand scheme of things our work will never be finished, that is what brings us back to the course each day. We need to give our clients the freedom to enjoy their experience without interruption from our objectives while still being able to provide a top-notch product, but the greatest gift that you can give is time to your family." **GM**

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For more information, please contact either Ryley Scott, Director of Golfmax & Business Development at rscott@ngcoa.ca or Jim Thompson, Director of Member Services at jthompson@ngcoa.ca



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