



# EUROPEAN TURFGRASS SOCIETY

## NEWSLETTER 03/2021

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## 2022 European Turfgrass Society Field Days

The ETS is organizing Field Days in spring 2022 dedicated to members and all turf specialists and professionals involved in the lawn and sports turf care and landscape.

We will continue the successful experiences done in previous years. It will be a great chance to spend quality time together and an excellent opportunity to meet in person after a long period of social isolation.

The 2022 Field Days will focus on practical experiences to convey and share technical aspects and challenges to attendees by visiting research sites and functional turf areas for a very informative and enjoyable time.

Hoping for large participation, we will soon provide all necessary information on the ETS website.



[www.turfgrasssociety.eu](http://www.turfgrasssociety.eu)

EUROPEAN TURFGRASS SOCIETY

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## ETS 2021 webinars will follow up!

After the successful Spring series of webinars, the **European Turfgrass Society** will continue with the Autumn series, that will be held online on the following topics:



- Sustainable Disease, Pest and Weed Control - natural/organic products
- Fertilization & Biostimulants - Advanced Stress Management with Biostimulants
- Water scarcity and irrigation - Sustainable Water Management
- Turf Cultivars/Breeding
- Mechanical practices advantages
- Wear tolerance (species and cultivar selection, plant growth regulators, fertilization)
- Specific webinar to greenkeepers or groundsman

Given the long-term restrictions all over the world, it will probably be difficult to meet in person also for 2021, but we wish to keep on providing knowledge and connections, for the benefit of the turfgrass world.

**The Spring series has seen a considerable number of participants (between 75 and 85 attendees) from different countries all over the world. The panel discussions has been interactive with many questions and the recordings of the webinars have been watched several times after the events.**

The webinars are organized by ETS and the event brings together the industry and the academy, and also many greenkeepers, and creates a space for clients to ask questions and engage with speakers.

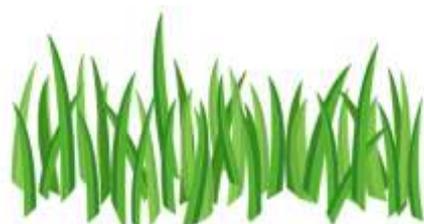
They have given us the opportunity to communicate new experiences and maintain relationships with people involved online. It was an excellent opportunity to convey recent scientific results and new technologies for turfgrass management. The fact that all sectors related to turfgrass had been involved was in full compliance with the objectives of our Society. We discovered a great appreciation for this initiative, as demonstrated by the significant participation and it was an unexpected success. Lastly, we have decided to propose new series for the coming autumn in preparation for Field Days in spring 2022.

The program is as follow:

- 2 series of webinars (Spring and Autumn), "2021 European Turfgrass Society Webinar Series"
- The admission to webinars is NOT subject to a registration fee.
- Each webinar has a dedicated theme.
- Each webinar will have 2 academic/independent turf specialist/ speakers presentations. Total time of the webinar: 1h 30min.
- There will be a panel discussion after the presentations of 40 minutes with possibility of interactions with the speakers.

If you would like to participate to the organisation of the ETS Webinars, please contact the Organizing Committee via e-mail:

[etsoffice@turfgrasssociety.eu](mailto:etsoffice@turfgrasssociety.eu)



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# 14th International Turfgrass Research Conference

By **Maria Strandberg, STERF Sweden** E-mail: [maria.strandberg@golf.se](mailto:maria.strandberg@golf.se)

## Conference and Hotel Registration for the 14th International Turfgrass Research Conference Opens in November 2021 by Maria Strandberg, ITS President STERF director, Sweden

We very much hope to see you at the 14th International Turfgrass Research Conference (ITRC2022), to be held in Copenhagen **10 -15 July 2022** and arranged by the Scandinavian Turfgrass and Environment Research Foundation (STERF).

Due to this uncertainty created by the global Covid-19 pandemic, the ITS board decided in December 2020, to postpone the 14<sup>th</sup> International Turfgrass Research Conference, to 2022. The ITRC2021 has been renamed to ITRC2022 and will be arranged in Copenhagen in July 2022 as an on-site conference.



Conference venue



University park and garden

ITRC2022 will be held at the University of

Copenhagen, Frederiksberg Campus (Thorvaldsensvej 40) in Marmorhallen. The campus is located in the city center of Copenhagen within a short walk of about 15-20 minutes from the Main Copenhagen Central Station. A number of hotel rooms have been reserved for the conference participants at the following hotels: **Scandic Falkoner** and **Cabinn Scandinavia**. Both hotels are within walking distance from Marmorhallen at the Frederiksberg Campus. The rooms can be booked at favorable prices via online registration at [www.itrc2022.org](http://www.itrc2022.org).

Marmorhallen is a large conference building and several different auditoriums are available for conference speakers. This will be an ideal location for ITRC2022 with plenty of space for attendees to move around, view posters, visit with colleagues, and meet new turfgrass professionals from around the world. Directly across the street from Marmorhallen you can wander under many rose trellises to the well manicured Garden of the Royal Danish

Veterinarian and Agricultural College. Given the very mild July weather we can expect during the conference I expect many will enjoy a stroll through the gardens.

This is one conference that you will not want to miss. The ITRC2022 will be packed with educational and social activities, so be sure to check out the ITRC2022 Website [www.ITRC2022.org](http://www.ITRC2022.org) for updates and additional details about the conference.

## Online Conference and Hotel Registration Opens in November 2021

Conference and Hotel Registration opens in November 2021 at [www.ITRC2022.org](http://www.ITRC2022.org)

So, register and join us for one of the largest and most comprehensive gatherings of turfgrass professionals anywhere in the world. Learn about the latest discoveries in turfgrass science and get inspired by the scientific sessions, field tours, and stimulating discussions. Share your research and innovation with colleagues from throughout the world, meet friends, and network.

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## ITRC2022 Highlights

Development and Sustainability is the theme of the conference and The United Nations' Sustainable Development Goals (SDGs) set out in Agenda 2030 will constitute the conference programme framework. The programme will focus on increased sustainability by a multidisciplinary approach; science in action by ready-to-use research; and mobilizing forces from academia to industry.

There will be a special **Pre-Conference Turfgrass Industry Session** in the afternoon on Sunday, 10<sup>th</sup> July just prior to the evening welcome reception. The Industry Session will focus on the need for competence building and innovation for the turfgrass industry. Conference industry sponsors will give their opinions on the industry's expectations on scientists and the scientific community; important areas for research and development the coming five years; and also present some coming innovations.

The Conference itself will kick off with a **Welcome reception** on Sunday night. The reception takes place in Copenhagen Plant Science Center, connected with the Marmorhallen, and is something that the entire family will enjoy. This is an opportunity to socialize and to enjoy the Nordic midsummer light with a walk in the Garden of the Royal Danish Veterinarian and Agricultural College.

The following week will be packed with educational and social opportunities that will allow you to reengage with old friends and network with new acquaintances from all over the world.

Some major highlights of ITRC2022 will include **keynote addresses** from internationally renowned government officials, scientists, and turfgrass managers focusing on the conference theme "Development and Sustainability" and Agenda 2030; a one-day seminar for practitioners entitled, "**Modern Sports Turf Management**" (see below); a **graduate student oral and poster competition** (see below) that will showcase some of the future stars in our discipline; and an **evening reception** on Monday, 11 July to recognize Dr. James Beard - one of the pioneers in the ITS and the turfgrass industry. The full preliminary scientific programme will be presented in January 2022 at [www.ITRC2022.org](http://www.ITRC2022.org)

**Posters** will be displayed on Monday, Tuesday, and Thursday (11, 12 and 14 July) and one-minute oral synopses of posters will be featured. This, as well as a late-afternoon social hour in the poster viewing area, will entice meeting attendees to meet poster authors and discuss their latest findings over light refreshments and hors d'oeuvres.



**DLF Trifolium research station**



**Fureso golf club**

A full day of **technical tours** is planned for Wednesday, 13 July highlighting the extraordinary range of turf venues and areas of interest in the Öresund area (Denmark and Sweden). Depending on the tour you choose, attendees will for example visit multifunctional golf courses, historical castle gardens, high quality sport arenas, and green areas important for urban sustainability. All tours will end at the DLF research station in Store Heddinge where we will get an introduction to their breeding programme and a tour to experimental facilities and field trials. The day will conclude by a BBQ dinner hosted by the DLF.

Immediately following the ITS Quadrennial Business Meeting on Thursday, 14 July, attendees will board buses for the Congress Dinner at Axelborg centrally located just opposite the main entrance to the Tivoli Gardens.

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With its former use as a bank evident throughout, this magnificent classic hall is clad with high wooden paneling, features two impressive staircases and is bathed in natural light from the towering glass ceiling. The Nimb restaurant with its highly acclaimed chefs will be responsible for the Nordic cuisine menu accompanied by selected wines/beer/soft drinks.

The last day of the conference will **two special symposia** on turfgrass management in the Winter cold zones and Transition zone. Friday morning showcasing invited speakers who will give a world-wide perspective on turfgrass management in these two contrasting climatic zones. (see below)

### **Modern Sports Turf Management, Tuesday July 12<sup>th</sup>**

New for this conference is The One-Day Practitioner Seminar, a meeting arena for practitioners and turfgrass researchers, which will strengthen the ambition to take a lead in making research results and new knowledge easy accessible to end-users and to provide support to implement changes.

We have chosen a number of top scientists and some upcoming stars to bring highlights from their field of expertise directly to practical turfgrass managers. This seminar will be the most important event for golf course and stadium managers in 2022.

The seminar will conclude with a dinner party at Furesøe golf club where you will mingle with the seminar lecturers and colleagues from many countries. A good portion of the menu for this dinner will be sourced from local golf courses, showing a perspective of multifunctionality of Danish golf courses.

Groundsmen and golf course superintendents are encouraged to save the date and come to Copenhagen to update their qualifications and expand their professional network at this seminar. The seminar is arranged as a part of the ITRC2022, and is open to ITRC2022 conference delegates. The number of participants will be limited so register as early as possible. Information about the seminar is available at [www.itrc2022.org](http://www.itrc2022.org)

### **Two special symposia**

On the last conference day, Friday 15 July, delegates are invited to attend two parallel symposia of approximately four hours duration highlighting challenges for turfgrass management in two contrasting climatic zones:

**Winter cold zones.** This symposium will be organized by a group of ITS members from North America and Scandinavia under the leadership of Dr. Eric Watkins, University of Minnesota. Topic include turfgrass selection and management in a changing winter climate, winter stress physiology, breeding of winter-hardy turfgrasses etc.

**Transition zone.** This symposium will be set up by ITS members from Italy, Spain, USA and Japan under the leadership of Dr. Alessandro De Luca, Italian Golf Federation.



### **Student Travel Award**

There will be multiple awards available to support student travel to the ITRC2022. Award recipients will receive partial to full travel support for airfare, lodging, registration expenses. To apply for a student travel award, applicants should visit the [www.itrc2022.org](http://www.itrc2022.org) after 1<sup>st</sup> November 2021 to download the ITRC2022 Student Travel Award Application. Below see a specific note about the Student Travel Award.

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## **Bring the Family**

Copenhagen is a very easy city to discover on your own. A number of enjoyable activities will be suggested by the conference organizer for example, the more than 100-year-old amusement park Tivoli, the Freetown of Christiania, the Louisiana art museum, and of course the famous Little Mermaid Statue at the Langelinie Promenade. A trip to Malmö in Sweden only takes 45 minutes by train. More information will be available on the website closer to the conference.

## **Excellent Sponsorship Opportunities are Still Available**

A number of important organizations including Syngenta, Bayer, Aquatrols, DLF, TORO, COMPO the R&A, Copenhagen University, and the Nordic Golf Federations have already become major supporters of the ITRC2022 and plenty of excellent sponsorship opportunities are still available. So, show your organization's support of turfgrass research and become an ITRC2022 Sponsor today! The ITRC2022 sponsor manual is available at [www.itrc2022.org](http://www.itrc2022.org)



# **ITRC 2022 14<sup>TH</sup> INTERNATIONAL TURFGRASS RESEARCH CONFERENCE**

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## National Garden Festival BUGA in Erfurt runs out October 7<sup>th</sup> 2021

By Dr. Klaus Mueller-Beck, DRG.

Every two years, the Federal Garden Show BUGA takes place in Germany. Despite the Corona pandemic, this event was able to welcome over one million visitors to Erfurt under difficult conditions from April to October 2021. The German Turfgrass Society (DRG) is also involved in the advisory team for the preparation. Lawns are often laid as turfgrass sods in the final act of completion. In Erfurt, it was possible to draw on a number of established areas, and this was reflected in the high quality during the 2021 BUGA season, even lawns are exemplary.

### The "egapark" rich in tradition

Primarily in the traditional, listed egapark, the motto "Erfurt in bloom" was presented to the full on an area of 36 hectares. Here, the city's horticultural and garden show tradition was continued to a special degree and presented at the highest horticultural level.



Fig.1: K. Müller-Beck at the overview plan in the egapark BUGA Erfurt 2021.  
(All Photos: K.G. Müller-Beck)

*"Green expertise was and is at home in Erfurt: from the origins of Christian Reichart in the 18th century to the seed breeding of Ernst Benary, who developed top qualities for plant production from 1843, on to the seed specialists Volmary/Kiepenkerl and Chrestensen (founded in 1867), and finally to Europe's oldest cactus breeding Kakteen Haage, which still enjoys an international reputation today," is how ESSER (2021) describes the historical background*

One attraction at the BUGA was the unique Danakil desert and jungle house, where visitors can follow the trail of water. The Danakil's idiosyncratic glass architecture also reinterprets the historically prevailing Bauhaus modernism. Climate management and technology set standards for the future of greenhouse construction (ESSER, 2021).



Fig.2: BUGA lawn in the area of Große Wiese egapark Erfurt.

The renovated German Horticultural Museum in the egapark offered not only the modern permanent exhibition on the development and future of horticulture, on urban greenery as well as garden culture, but also other special exhibitions in connection with the i-Point GREEN.



Fig.3: Design with lawn on the Petersberg, BUGA Erfurt 2021



Fig.4: Landscape Garden with planting beds in the lawn on the Petersberg, BUGA Erfurt 2021.

### **The Park "Petersberg" with historical city fortress**

The second exhibition area of seven hectares in size, the Petersberg, is located directly at the cathedral square. The citadel is one of the largest and best-preserved city fortresses in Europe. Through the combination of fortifications with buildings and creative plantings, a strong impression could be conveyed.

The rapporteur could convince himself of an outstanding positive vegetation development of the different types of lawns in the area. The implementation of the maintenance measures mowing, fertilization and irrigation showed absolute maximum values in the degree of coverage and lawn aspect, so that it was a pleasure to "walk" over the areas!



Fig.5: Lawns in the area of the citadel at Petersberg, BUGA Erfurt.

**Source references**

BUGA, 2021: BUGA-Gelände egapark. Wer Blumen mag, wird den egapark lieben.  
<https://www.buga2021.de/pb/buga/home/gartenschau/der+egapark>

ESSER, S., 2021: Eine Bundesgartenschau an der Wiege des Gartenbaus, BUGA Erfurt 2021.  
<https://stadtundgruen.de/artikel/buga-erfurt-2021-15707.html>

## Salt tolerance - an important feature of the future



Turf areas can be affected by salt in different ways; roadside turf can be affected by de-icing agents, coastal turf areas can be flooded or splashed with seawater, some turf areas are irrigated with recycled or saline water and finally some soils naturally contain a lot of salt. This may compromise turf quality.

To future-proof turf areas and make them more resistant to saline conditions it is important to use the most salt-tolerant grasses. For several years, DLF has been testing their entire turfgrass portfolio for salt tolerance and all new varieties are routinely screened for salt tolerance.

The testing process has been refined continuously. The testing is done in the greenhouse under controlled conditions on a plant population on mature plants and always in five replicates. Several of the grass varieties have participated in more tests over the years to confirm the data and to strengthen the validity of the test and results.

By using salt-tolerant grasses you increase the success of establishment and growth and the chance of maintaining the normal seed characteristics such as visual merit, wear tolerance, disease tolerance etc.

This is important because water resources are becoming more limited. This means that lawns, sports pitches etc. may not be irrigated at all or must be irrigated with wastewater or surface water instead of ground water. It will degrade the quality of the growth layer as it becomes more saline. Soil salinity is a major stress factor for turfgrass and can deteriorate quality. When a grass is salt stressed, the first symptom is growth reduction. Under prolonged or severe salt stress they will wilt and eventually die.

**This table sets the levels for salinity. Above 2 mS/cm (conductivity) symptoms might start to occur. (Source: Rhoades, 1982).**

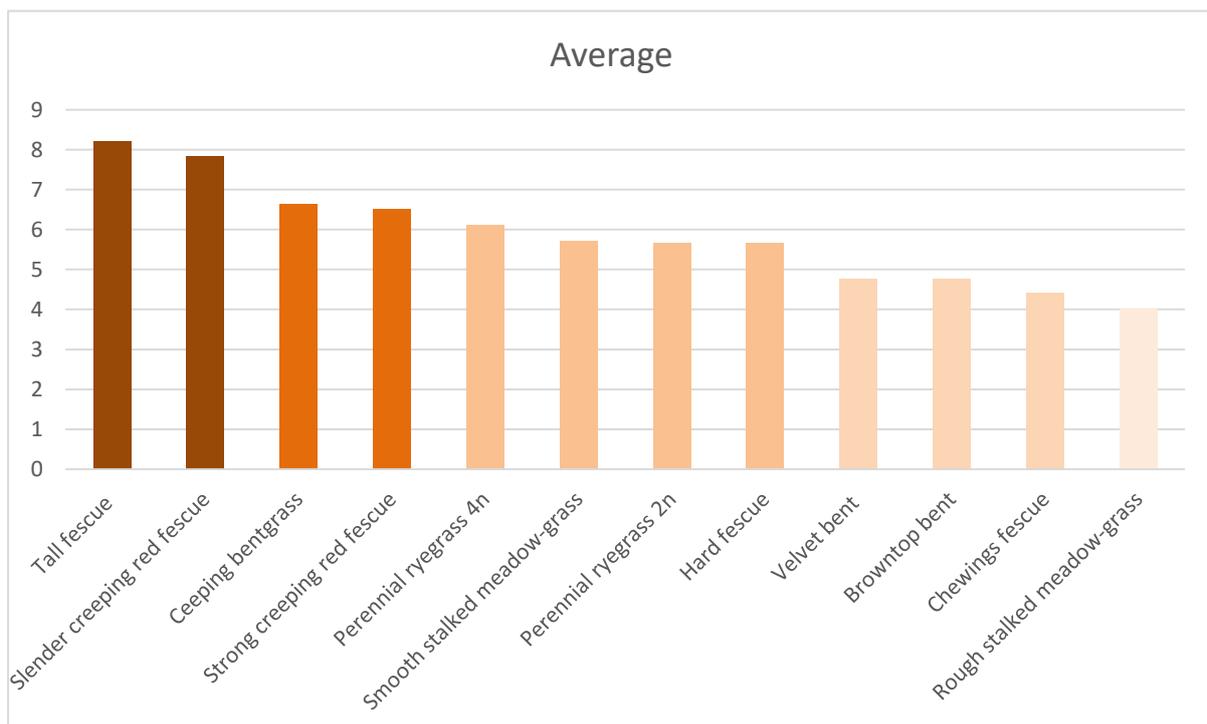
Water class	mS/cm	g salt / litre	Type of water
Non-saline	<0.7	<0.5	Drinking and irrigation water
Slightly saline	0.7-2.0	0.5-1.5	Irrigation water
Moderately saline	2-10	1.5-7.0	Primary drainage water and ground water
Highly saline	10-25	7.0-15.0	Secondary drainage water and ground water
Very high saline	25-45	15.0-35.0	Very saline ground water
Brine	>45	>35.0	Seawater



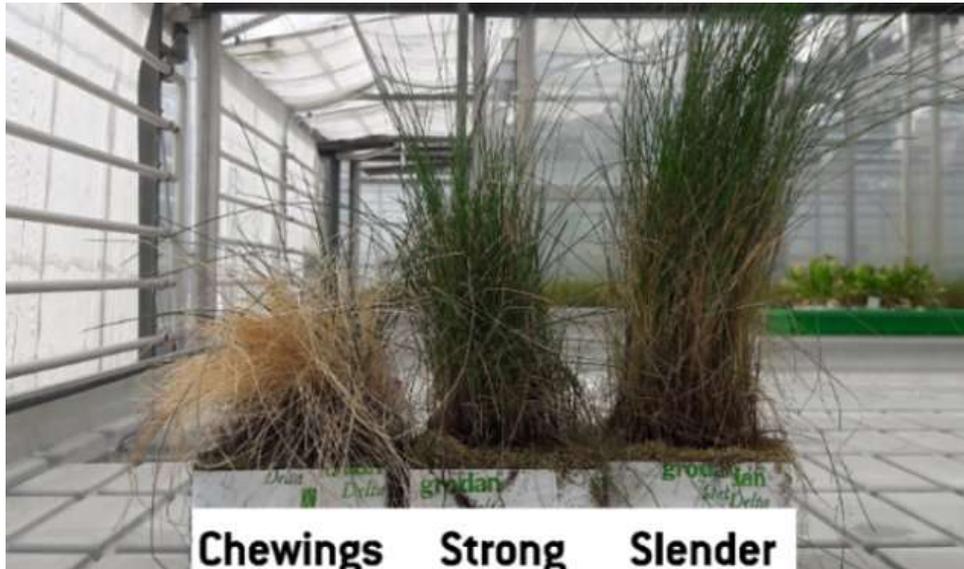
**Photo: Test for salt tolerance. Differences between species and varieties. The picture shows four varieties of browntop bentgrass and five creeping bentgrass varieties in 5 replicates.**

There are huge differences between species when it comes to salt tolerance (Figure 1). The most salt tolerant species are the tall fescues and slender creeping red fescues. Also, creeping bentgrasses and strong creeping red fescues can offer a helpful solution in saline conditions. The resilient tetraploid perennial ryegrasses are also significantly more tolerant than many of their diploid counterparts.

Further, there can be big differences in salt tolerance between varieties of the same species. This means that if you chose a grass species, which is low in salt tolerance, the tolerance level can be improved by selecting the most tolerant varieties within the species and using mixtures with higher salt tolerance. Largest differences on a variety level are found in the smooth stalked meadow-grasses and the chewings fescues.



**Figure 1. Salt tolerance among grass species (9 = excellent, 1 = extremely poor).**



**Photo: Differences in salt tolerance between the three red fescue species.**

Within each species the varieties with the highest ranking in the salt tolerance screening is labeled with the DLF 4salt logo. The chance for a good establishment and survival in a saline environment is increased when using 4salt varieties compared to the use of other varieties.

DLF has used this knowledge and expertise to create and offer a range of versatile and refined mixtures to face salinity. In Denmark, a mixture for use on dikes as well as in cloudburst reservoirs is available (table 1). Seven distinct species are used and two types of red fescue. Among three of the species represented in this mixture, varieties with a high salt tolerance are included (4salt varieties).

**Table 1: Mixture composition.**

%	Grass species	Variety	
20	<i>Festuca trichophylla</i>	Aporina	4salt
35	<i>Festuca rubra rubra</i>	Maxima 1	4salt
20	<i>Festuca arundinacea</i>	Debussy 1	
15	<i>Lolium westerwoldicum</i>	Quickston	
2,5	<i>Agrostis capillaris</i>	Highland	
2,5	<i>Agrostis stolonifera</i>	Kromi	4salt
2,5	<i>Phleum bertolonii</i>	Teno	
2,5	<i>Poa trivialis</i>	Sabrena 1	

Grasses that grow on dikes are exposed to salt stress but also grasses that grow in cloudburst reservoirs benefit from being salt tolerant. Water that flows into these reservoirs is road water and it may contain de-icing agents as well as other salt compounds. It therefore makes sense to use a salt-tolerant mixture on grass areas that are part of a cloudburst solution.

Another mixture in the DLF portfolio is Saltmaster. It ensures better growth in saline conditions without compromising visual merit and wear tolerance. We do also offer mixtures for warm and dry regions that contain tall fescue, smooth stalked meadow-grass and perennial ryegrass. For cooler regions we offer a mixture with slender creeping red fescue, smooth stalked meadow-grass and perennial ryegrass. Salt tolerance is powered by the fescue species.

4salt is the safeguard for maintaining turf quality in a saline environment.



## Mountain View Seeds Introduces 365ss Elite Kentucky Bluegrass Blend The Best Buy From The Best



In 1946 a group of Farmers started Pratum Coop in the heart of Oregon's Willamette Valley. 75 years later and over 350 farmer members strong the grower cooperative and its seed marketing division, Mountain View Seeds, has become one of the largest vertically integrated, turf breeding, seed production and marketing companies in the world with a primary focus on the professional turfgrass industry.

Our growers rotate the full spectrum of grasses with more than 50 other crops. Crop rotation preserves soil fertility and produces the clean, high-quality seed the Willamette Valley is famous for. They say competition brings out the best in you; nowhere is that more relevant than in turfgrass breeding. From beginning to end, Mountain View Seeds varieties are put through rigorous testing to measure attributes including color, drought tolerance, leaf texture, disease and pest resistance, wear tolerance and seed yield to ensure top performance and consistent supply. Mountain View Seeds varieties are constantly University-tested for regional adaptability. You'll find our varieties on the front page of the NTEP, however the biggest test of all comes on the field.



Many varieties perform well under ideal conditions. But the true test of a variety is how it performs in the real world. Any shortcomings will reveal themselves on the field. Mountain View Seeds varieties have performed consistently on the field; because of that, The Rose Bowl selected Mountain View Seeds to be their official seed supplier. At The Rose Bowl, only the best will do, and that is why former Head Groundskeeper Will Schnell (retired) chose 365SS Kentucky bluegrass and perennial ryegrass varieties from the leader in sports turf technology.

*(l to r) John Marman (West Coast Turf Vice President of Sales & Marketing), Troy Kuenzi (President & CEO of Pratum Co-op), Will Schnell (Head Groundskeeper of The Rose Bowl (ret.)) and Aaron Kuenzi (Seed Division Manager, Pratum Seed Companies) standing on the 365ss field at The Rose Bowl.*

### **365ss: A Bluegrass blend above!**

Kentucky Bluegrass is the cool season specie of choice for professional and collegiate stadiums in the United States due to its durability, sod strength and overall playability. A common complaint about Perennial Ryegrass is slippery fields, 365SS greatly reduces this issue. 365ss is a revolutionary new bluegrass blend that offers the best of what sports turf professionals demand.

A new player has exploded onto the sports turf scene! 365ss is extremely fast to germinate and establish creating a dense sward with superior sod strength. 365ss is dark green with excellent turf quality and produces a beautiful field that looks as good on television as it does in person. 365ss also holds up to extreme wear and traffic, recovering quickly between games and allowing for more. If you want different choose the competitors product...if you want the best choose 365ss



*365ss exhibits excellent turf quality and forms a dense sward and has been grown at sod farms without netting.*

365ss combines the unique properties of 3 top-rated bluegrass varieties. Bolt (Enigma), Legend and Blue Note consistently rank high in NTEP trials and when combined create a better overall product with superior performance than other similar blends! Several varieties were combined in different formulations until the ideal blend was proven in trials. The varieties were selected for early spring green up, high turf quality and superior wear tolerance and establishment. 365ss is ideal for sod production, sports fields, home lawns and can be

overseeded into dormant bermudagrass for the ultimate BLUEMUDA turf. If you need the ultimate bluegrass blend that is highly wear-tolerant, dark green, and dense, choose 365ss.

**Don't take our word for it...listen to what our customers say.**

A good indicator of any company is who uses their products and nowhere is that more important than in the turf industry. Mountain View Seeds is proud to be used on many of the premier sports fields and sod farms around the world. Since the launch of 365ss in 2017 the number of venues utilizing this unique bluegrass blend has exploded. 365ss is now used on more than 20 collegiate, NFL, MLB and Professional soccer fields.

"In 2018 we started an inter seeding program with 365ss on a couple of our soccer and baseball fields. We have had great success with the establishment and playability with the 365ss. It has allowed us to have safer and more aesthetically pleasing field conditions in the spring and fall when the Northbridge Bermuda grass on these fields is in dormancy stage. This occurs during the time frame from mid-October through late May here in the transition zone. I highly recommend 365ss for a potential inter seeding program in Bermuda grass athletic fields."

- Mike Ginder - Supervisor, Louisville, KY Parks & Recreation



"365ss is the next generation of "Tuckahoe's Game Day Sod®" that is used by a number of professional sports fields around the region."

- Allen Carter - Business Administrator, Tuckahoe Turf Farms



2021 Sports Field Managmaanet  
Professional Soccer Field of the Year  
New York Red Bulls Academy Field  
- Zach Holm, Field Manager, CSFM

**Represented in Europe by ICL**

ICL is known for supplying probably the best turfgrass fertilisation programmes on the market. What you may not be aware of is that ICL also has an extensive turfgrass programme supporting its ProSelect turf seed mixture range. Turf grasses are the most important building blocks needed for producing high quality sports surfaces and landscaped areas. Over the last decade, ICL has been focussing on developing a comprehensive turfgrass high quality seed portfolio working with its partners in the USA and Europe.

Turfgrasses within the ICL portfolio take positive characteristic from both US and EU genetic sources. In this way seed blends can be created with a broad-spectrum approach which is essential for dealing with the ever-increasing demands of intensive sport use and climate impact. This is the reason behind ICL's latest innovation introduction, 365SS Poa pratensis blend. We are delighted to be working with our long-standing partners at Mountain View Seeds to bring this fantastic development to the market.

## Resilient Blue® Lawn available in 2021!

 **BARENBRUG**

**After the huge success in the golf, sport and sod market, Barenbrug will launch Resilient Blue® technology also in the landscape and private garden market in 2022. It will be available in 1kg boxes (with display), 5kg and 15kg bags. That completes the innovative lawn portfolio of Barenbrug.**

Resilient Blue® Lawn is the solution for people that demand a strong but fine lawn solution that can withstand extreme weather conditions and rapidly fights back afterwards. Its maintenance is easy, it doesn't need much care. If you are looking for the most tolerant and resilient cool season grasses and solution to heat and drought stress, Resilient Blue® Grass Technology will help you out.

### **Innovation price and big hit**

After years of research in all kind of conditions, Barenbrug launched Resilient Blue® last February during the first 'Barenbrug Online Event'. Hardly 3 months later it turns out to be a direct hit: awarded with the Sport Accommodation Innovation Prize 2021 and sold out for sport, golf and sod producers. With new harvest of 2021 Barenbrug is able to launch this unique resilient grass solution in lawns too.

### **Barenbrug's Big Five**

Resilient Blue® Lawn is the newest product in the Barenbrug portfolio and completes Barenbrugs 'Big Five'. The five lawn products contain the innovative grass technologies of Barenbrug, such as RPR®, SOS® and now also the Resilient Blue®. All products offer a unique solution that is substantiated with research data and practical tests. The products are all available in a 1kg box and a 5 and 15kg bag.

### **More information**

Barenbrug created a 30 second video of Resilient Blue® grass technology:

<https://www.youtube.com/watch?v=ON-2c1UEuxA>

You can find all information about the new Resilient Blue grass technology at:

<https://www.barenbrug.biz/resilient-blue>





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Deadline for submission of material for 04/2021 edition: **December 5<sup>th</sup>**



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### ***The EUROPEAN TURFGRASS SOCIETY***

The objectives of the **ETS** include the spread of innovative applications and encouragement of a holistic view of turf, particularly with respect to its influence on urban and environmental quality. This approach is significant as the founding members are representatives of a large industry that has global importance. We aim to:

- a)** Provide a forum for scientists, consultants, companies and practitioners to discuss technical issues related to the provision of turf surfaces.
- b)** Spread innovative applications for the benefit of the turfgrass industry, national and local government, and the European public. Encourage a systems-based approach to the study of turfgrass through multi-disciplinary groups working at different levels.
- c)** ETS considers turfgrass knowledge in the broadest sense, including its use in sport and leisure, its role in improving urban quality and its importance in the mitigation of environmental effects such as soil erosion.
- d)** Develop a strong ethos to promote sustainable, low input systems and solutions based on the conscious use of non-renewable resources.



## Current ETS Board of Directors



**Stefano Macolino**  
University of Padova, (IT)

*ETS President*

Stefano Macolino is an Associate Professor at the Department of Agronomy, Food, Natural resources, Animals, and Environment of the University of Padova.

He graduated in Forestry Science in 1996, Faculty of Agriculture at Padova University.

He has carried out research on forage management and turfgrass at the Department of Environmental Agronomy and Crop Production as a Postgraduate Researcher. In 2003, he achieved the Ph.D. in Environmental Agronomy.

He has been teaching actively, including three courses: Turfgrass and Revegetation, Forage Crops, and Botany of Cultivated Plants. Dr. Macolino is currently the president of the Committee for the improvement of teaching at the School of Agriculture and Veterinary Medicine of Padova University.

He conducts researches on the following:

1. Impact of cultural practices on cool and warm-season turfgrasses in transition zones.
2. Forage crop production and management.
3. Production and plant biodiversity of mountain grasslands.

He supervised Ph.D. students and postdoctoral fellows on the made mentioned topics.

Dr. Macolino is the author and co-author of nearly 50 scientific publications in peer-reviewed journals, and numerous publications in conference proceedings, and technical magazines. He is also the author of two books in Italian for undergraduate students.



**Marcela Munoz**  
Syngenta (UK)

*ETS Board Member*

My name is Marcela Munoz, I'm a leading turfgrass specialist qualified as an Agronomist Engineer from The Pontifical Catholic University of Chile and have a Master of Science Degree from The Ohio State University in Turfgrass Management. Since 2015 I'm based in Cambridge, UK, working as Syngenta's Technical Services Manager for the EAME region.

I'm an amateur football player that joined this industry moved by my passion for sports, agronomy and science. I had been in the turf industry for more than 15 years and worked at different positions and countries around the world. Some of my latest exciting experiences include working for the STRI as a turf agronomy consultant for the FIFA 2014 Brazil World Cup and providing technical support at the Ryder Cup at Le Golf National in Paris. I'm also an active member of many turf associations around the world and volunteer since 2011 in the International Committee of the Sports Turf Managers Association of America (STMA)

In my current role I work closely with associations such as ITS, FEGGA, GMA, BIGGA, STERF, R&A and other local associations and Federations around the region. I also work very closely with the Syngenta Turf Research facility at Stein in Switzerland and the International Research Centre at Jealott's Hills in the UK, as well as independent researchers, agronomists, greenkeepers and sports turf managers across Europe, Africa and the Middle East. My role also includes supporting the marketing team and commissioning pioneering research to maintain Syngenta at the leading edge of turf science, as well as delivering the results back to the industry in the form of practical solutions to help create consistently better playing surfaces.



**Claudia de Bertoldi**  
Turf Europe Srl (ITA)  
*ETS Secretary and Treasurer*

I received my BA in 2003, after an internship at North Carolina State University (USA) and I have completed my M.Sc (*Progettazione e Pianificazione delle Aree Verdi e del Paesaggio*) at University of Pisa (Italy) in 2006. My PhD (*Allelopathic interferences of plants*) was from S. Anna School of Advanced Studies in 2007-2010. I have been working as consultant at Pacini Company (Pisa - IT) for warm season turfgrass production made in Tunisia during 2010-2012. Since 2013 I am employed by Turf Europe srl (Livorno - IT). I am actively engaged in landscaping and realization of gardens and turfgrasses for ornamental and sport use. Management of high-quality sport fields also through precision agriculture. Consultant for turf seeding in difficult zones (dumps and caves). Botanical censuses and visual tree assessment. Participation in R&D projects financed at European level. More than 15 publications, posters and presentations on conferences and meetings on turfgrass.

**Marco Schiavon**  
University of Florida (USA)  
*ETS Board Member*

Ph.D., is an Assistant Professor in the Environmental Horticulture Department, University of Florida at the Fort Lauderdale Research and Education Center.

His primary research interests include potable water conservation for irrigating turfgrass areas, salinity management, physiology of turfgrass in response to drought stress. He received a B.S. in Agronomical Sciences in 2005 and a M.S in Agronomy in 2008 both from University of Padua, Italy, and a Ph.D. in Agronomy in 2013 from New Mexico State University. In 2013, he moved to University of California Riverside where he worked as a Postdoctoral Scholar until December 2016, and subsequently as an Assistant Researcher until November 2019. He has published more than 30 refereed journal articles.



**Karin Juul Hesselsø**  
Norwegian Institute of Bioeconomy Research (NOR)  
*ETS Board Member*

M.Sc in Agriculture 1996, Copenhagen University. From 2006-2019 employed at the Greenkeepers College Sandmoseskolen in Denmark as teacher in greenkeeping and landscape gardening.

From June 2019 employed at NIBIO, Landvik. Experience with writing/translation of popular articles and fact sheets on golf course management. In 2018 project leader on an IPM-project on Danish golf courses financed by the Danish Environmental Protection Agency.



**Fritz Lord**  
COMPO Expert (GER)  
*ETS Board Member*

Study of horticultural science at Rhein University Geisenheim, M.sc. in soil science/entomology. Study of Agricultural Science at Humboldt University Berlin; M.Sc. in crop science, plant diseases; Ph.D at Humboldt University Berlin in phytopathology, antagonistic rhizobacteria (PGPR), soil borne pathogens (Fusarium). Since 2008 working for one of Europe`s leading fertilizer manufacturer COMPO Expert in Münster, Germany. Responsible for the segment turf and public green, vegetation-technical consultation, research and development, product management and education. Specialties/ experiences: soil-plant-microorganism interactions, bio stimulants, microbial fertilizer, turf nutrition and maintenance. Various publications regarding turf fertilization and maintenance (e.g. European Journal of Turfgrass Science, New Landscape). Teaching turf seminars for greenkeepers and groundsman in Germany and abroad. ETS member since 2008, board member of the International Turf Grass Society (ITS) since 2014. Further memberships: German Turfgrass Society (DRG), Greenkeeper Association of Germany (GVD) , Austrian Greenkeeper Association (AGA), Förderkreis Landschafts- und Sportplatzbauliche Forschung (FLSF), Forschungsgesellschaft Landschaftsbau e.V. (FLL).



**Wolfgang Praemassing**

DEULA (GER)  
*ETS Board Member*

Study of Agricultural Biology (University Diploma) at University of Hohenheim, 1991 Doctoral Dissertation (PhD) Promotion with Prof.

Dr. H. Franken, University of Bonn, subject: Soil physical Effects of Aeration on Turfgrass Soils, 2008.

**Occupation and activities:**

Professor for Sustainable Turfgrass Management at University of Applied Sciences Osnabrueck, Agronomist and lecturer in Greenkeeper Education and Training for golf and sport sites at DEULA Rheinland GmbH, Education Center, Kempen. Member of editorial staff of "European Journal of Turfgrass Science". Member of Turf expert committee of German Soccer League (DFL).

Member of working group "Water" at German Golf Federation. Member of examination boards of Chamber of Agriculture Nordrhein-Westfalen Golf Course Greenkeeper and Head-Greenkeeper, Greekeeper/Groundsmen Sport Sites, Competence of Pesticide application.

**Carlos Guerrero**

University of Algarve (POR)  
*ETS Board Member*

Carlos Guerrero is graduated in Horticulture Engineering at the University of Algarve (Portugal). Has a M.Sc. in Soil Fertility and Plant Nutrition at the Agronomy Superior Institute, of the Technical University of Lisbon (Portugal) and a PhD in Environmental Agronomy at the University of Algarve (Portugal).



Assistant Professor at the University of Algarve (Faculty of Sciences and Technology), a former Diretor of the Degree Program in Agronomy (2015-2018) and also a former Director of the Master Program in Management and Maintenance of Golf Courses between 2008-2010.

Teaches Soil Science in Landscape Architecture and Soil Science and Agriculture Machinery in the Agronomy. Is also specialized in groundwater and soil nitrate pollution and has experience on organic and compost uses in agriculture and turfgrass.

Actually, is working on biological control of plant diseases, mainly turfgrass, and also on remote sensing for turfgrass maintenance purposes with unmanned aerial vehicles and multispectral sensors."

