

[Important Notice No.1] This program is tentative. The schedule reflects corresponding authors' responses to the March 2025 ITRC2025 survey. The Prince West Hotel has warned the organizers that there are few other hotel rooms available near the conference site, and they will only hold the conference price until April 23, after which rooms available at the reduced price will be limited. Therefore, we urge you to register for the conference (early bird registration ends April 23 and can increase by over US 400 after that) and make your hotel booking as soon as you can (see <https://itrc2025.turfsociety.com/registration> for pricing details). Contact the ITRC2025 Conference Secretariat, Program Committee Director, at [itrc2025@jcom.zaq.ne.jp](mailto:itrc2025@jcom.zaq.ne.jp) if you have questions.



## The 15<sup>th</sup> International Turfgrass Research Conference (ITRC)

July 12 (Sat.) -July 16 (Wed.), 2025

Karuizawa, Nagano, Japan

As of 12<sup>th</sup> of April, 2025

Tentative ver.1

### 1. Conference Program

			Time	Program
July	12	Sat.	PM	Opening Ceremony, Keynote speech, Welcome Reception (1830-2100)
July	13	Sun.	All day	Practitioner seminar, Oral & Poster presentations
July	14	Mon.	AM (0900-1200)	Graduate student oral competition, Oral & Poster presentations,
July	14	Mon.	PM (1400-1730)	Graduate student oral competition, Oral & Poster presentations Special Session "The Future of Mowing"
July	15	Tue.	All day	Technical tour (1) Saitama area, (2) Karuizawa-Nagano area
July	16	Wed.	AM (0900-1200)	Zoysiagrass symposium, Oral presentations
July	16	Wed.	PM	ITS quadrennial meeting (1400-1530), Graduate Student Contest Awards, Closing Ceremony Banquet (1830-2100)

## **ITS Board members**

**2022-2025**

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## 15<sup>th</sup> ITRC

### Program at a Glance

#### Saturday, July 12, 2025

10:00-12:00	Pre-Conference ITS Board meeting (by Invitation)	<u>Room:ASAMA D</u>
12:00-19:00	Registration <u>Atrium</u> , Speaker Preparation	TBA (to be announced)
14:00-17:30	Opening Ceremony & Keynote Addresses	<u>Room:ASAMA A•B•C</u>
18:30-21:00	Welcome Reception	<u>Room:CHIKUMA A•B•C</u>

#### Sunday, July 13, 2025

06:30-09:00	Continental Breakfast (For Prince Hotel Guest only)	<u>Room :CHIKUMA A•B•C</u>
06:30-19:00	Registration	<u>Atrium</u>
07:00-20:00	Speaker Preparation Room/Update Presentations	<u>Room:XXXXXXXXX</u>
09:00-12:00	Practitioner Seminar Part I	<u>Room :ASAMA A•B•C</u>
09:00-12:00	Oral Session 1 --- Turfgrass diseases (fungi, bacteria, viruses)	<u>Room :ASAMA D</u>
09:00-12:00	Oral Session 2---	<u>Room :ASAMA E</u>
09:00-18:00	Poster Session Day 1--- on display for two days	<u>Room :ASAMA F</u>
12:00-14:00	Lunch (For all registrants)	<u>Room :CHIKUMA A•B•C</u>
14:00-17:30	Practitioner Seminar Part II	<u>Room :ASAMA A•B•C</u>
14:00-17:30	Oral Session 3--- Sustainable urban and landscape maintenance, Turfgrass root zone design and soil management	<u>Room :ASAMA D</u>
14:00-17:30	Oral Session 4---	<u>Room :ASAMA E</u>

#### Monday, July 14, 2025

06:30-09:00	Continental Breakfast (For Prince Hotel Guest only)	<u>Room :CHIKUMA A•B•C</u>
06:30-19:00	Registration	<u>Atrium</u>
07:00-20:00	Speaker Preparation Room/Update Presentations	<u>Room:XXXXXXXXX</u>
09:00-12:00	Oral Session 5--- General turfgrass science, Golf course or athletic field management and maintenance	<u>Room :ASAMA A</u>

09:00-12:00	Oral Session 6--- Turfgrass insect and nematode issues	<u>Room :ASAMA B</u>
09:00-12:00	Oral Session 7---	<u>Room :ASAMA C</u>
09:00-12:00	Oral Session 8---	<u>Room :ASAMA D</u>
09:00-12:00	Graduate Student Oral Competition No.1	<u>Room :ASAMA E</u>
09:00-18:00	Poster Session Day 2---display for two days	<u>Room :ASAMA F</u>
12:00-14:00	Lunch (For all registrants)	<u>Room :CHIKUMAA•B•C</u>
14:00-17:30	Oral Session 9--- Turfgrass breeding, genetics, and biotechnology, Turfgrass weed Science	<u>Room :ASAMA A</u>
14:00-17:30	Oral Session 10---	<u>Room :ASAMA B</u>
14:00-17:30	Oral Session 11---	<u>Room :ASAMA C</u>
14:00-17:30	Symposium “The Future of Mowing”	<u>Room :ASAMA D</u>
14:00-17:30	Graduate Student Oral Competition No.2	<u>Room :ASAMA E</u>

## Tuesday, July 15, 2025

06:30-09:00	Continental Breakfast (For Prince Hotel Guests only)	<u>Room :CHIKUMA A•B•C</u>
06:30-19:00	Registration	<u>Atrium</u>
07:00-20:00	Field Tours	

Bus No.1 Kumagaya Rugby -> Saitama Bonsai Museum -> Saitama Stadium 2002

Bus No.2 Saitama Stadium 2002 -> Hidaka CC -> Tokyo Racetrack

Bus No.3 Saitama Bonsai Museum -> Saitama Stadium 2002 -> Kumagaya Rugby

08:00-20:00

Bus No.4 Saitama Stadium 2002->Hidaka CC -> Kawagoe City Museum

Bus No.5 Kumagaya Rugby -> Saitama Stadium 2002 -> Saitama Bonsai Museum

Bus No.6 Sania Park Sugadaira -> Nagano U Stadium -> Asama Kogen CC

Bus No.7 Asama Kogen CC -> Sania Park Sugadaira -> Nagano U Stadium

09:00-20:00

Bus No.8 Nagano U Stadium -> Asama Kogen CC -> Sania Park Sugadaira

For accompanying person use

08:30-20:00 For Accompanying person use

Bus No.9 Onioshidashi -> Zenko-ji

17:30-20:00 BBQ Party Karuizawa Taliesin

## Wednesday, July 16, 2025

06:30-09:00	Continental Breakfast (For Prince Hotel Guests only)	<u>Room :CHIKUMA A•B•C</u>
06:30-19:00	Registration	<u>Atrium</u>

07:00-20:00	Speaker Preparation Room/Update Presentations	<u>Room:XXXXXXXX</u>
09:00-12:00	Zoysiagrass Symposium	<u>Room:ASAMA A•B•C</u>
09:00-12:00	Oral Session 12-- Turfgrass physiology and stress physiology	<u>Room:ASAMA D</u>
09:00-12:00	Oral Session 13-- Turfgrass water and nutrient management	<u>Room:ASAMA E</u>
09:00-12:00	Oral Session 14---	<u>Room:ASAMA F</u>
12:00-14:00	Lunch (For all registrants)	<u>Room :CHIKUMA A•B•C</u>
14:00-17:30	ITS Quadrennial Business Meeting and Student Awards	<u>Room:ASAMA A•B•C</u>
18:30-21:00	Banquet (For all registrants)	<u>Room :CHIKUMA A•B•C</u>

## **Thursday, July 17, 2025**

06:30-09:00	Continental Breakfast (For Prince Hotel Guests only)	<u>Room :CHIKUMA A•B•C</u>
09:00-11:30	Post-conference ITS Business meeting (by Invitation)	<u>Room:ASAMA D</u>

## 15<sup>th</sup> ITRC Full Program

### Saturday, July 12, 2025

12:00-19:00

Speaker Preparation Room/Update Presentations

12:00-19:00

Registration

Atrium

10:00-12:00

Pre-Conference ITS Board meeting (by Invitation)

Room: ASAMA D

14:00-17:30

Opening Ceremony

Moderator: Hideaki TONOGI

Room: ASAMA A•B•C

Keynote Speech

**Moderator: Shin Nakamura**

Room ASAMA A•B•C

1. Keynote Speech I

Introducing the History of Turfgrass Culture in Japan

Shigeharu YAGUCHI

2. Keynote Speech II

To introduce the history of schoolyard turfing for popularization in Japan

Kenichiro FUJISAKI

3. Keynote Speech III

To introduce the genetic characteristics of Zoysia grass through genetic analysis

Ryo AKASHI

4. Discussion

Moderator: Shoichi KIMURA, Translator: Shin NAKAMURA

**【The theme of the conference】**

In continuation of the theme of the 2022 ITRC, the contribution to the SDGs using turfgrass in accordance with the long north-south axis of Japan will be introduced and opinions will be exchanged.

18:30-21:00

Welcome Reception

Room: CHIKUMA A•B•C

## Sunday, July 13, 2025

06:30-09:00

Continental Breakfast (for Prince Hotel Guests only)

Room : CHIKUMA A•B•C

06:30-19:00

Registration

Atrium

07:00-20:00

Speaker Preparation Room/Update Presentations

Room : XXXXXXXXX

09:00-12:00

Practitioner Seminar Part I

Room : ASAMA A•B•C

09:00-12:00

Oral Session 1 --- Turfgrass diseases (fungi, bacteria, viruses)

Room : ASAMA D

- 13AM1-1 Additional uses of the Smith-Kerns dollar spot model for improved dollar spot  
Suppression  
Paul KOCH
- 13AM1-2 Colletotrichum associated partitivirus 1 infection negatively modulates the  
fungal growth of *Colletotrichum zoysiae* and its virulence to *Zoysia matrella*  
Ken KOMATSU
- 13AM1-3 Cross-resistance of *Claviceps jacksonii* to demethylation-inhibiting fungicides  
Tom HSIANG
- 13AM1-4 Disease incidence trend of Zoysiagrass in Japan based on diagnosis results.  
Akihiro HAYANO
- 13AM1-5 Fifteen years of findings: advancements in Spring Dead Spot research from 2009  
to 2024  
Jessica ANDERS
- 13AM1-6 Potassium fertilization effects on dollar spot of annual bluegrass and creeping  
Bentgrass  
Bruce CLARKE
- 13AM1-7 Reducing human health and environmental risks associated with fungicide use  
on golf courses  
Guillaume GRÉGOIRE

- 13AM1-8 Water carrier volume has little effect on fungicide efficacy against snow mold diseases of turfgrass  
Kurt HOCKEMEYER
- 13AM1-9 Curative Fungicide Scheduling and Bentgrass Disease Resistance Affects Dollar Spot Control  
Bruce CLARKE
- 13AM1-10 Ultraviolet-C radiation as an alternative method to control dollar spot and Microdochium patch on golf greens  
Daniel HUNT
- 13AM1-11 Discriminatory dose determination for DMI fungicides for *Clarireedia jacksonii* and mycelial growth variation across active ingredients  
Maureen KAHIU

09:00-12:00

Oral Session 2--- Construction &

Room :ASAMA E

09:00-18:00

Poster Session Day 1---display for two days

Room :ASAMA F

12:00-14:00

Lunch

Room :CHIKUMAA•B•C

14:00-17:30

Practitioner Seminar Part II

Room :ASAMA A•B•C

14:00-17:30

Oral Session 3--- Sustainable urban and landscape maintenance, Turfgrass root zone design and soil management

Room :ASAMA D

- 13PM1-1 Branding with marketing trademarks adds another layer of complexity to traditional botanical taxonomy and nomenclature  
Donald LOCH
- 13PM1-2 Removal of turfgrass for water supply resilience  
Michael DUKES
- 13PM1-3 Southern California land surface temperature differences under different landscape composition  
Marco SCHIAVON



- 13PM1-4 Turfgrass species and sward age influence soil carbon pools near the soil surface  
Jon TRAPPE
- 13PM1-5 Turfgrass irrigation: Analyzing the effects of rootzone construction and irrigation delivery system on water retention characteristics and perennial ryegrass performance  
Jan CORDEL
- 13PM1-6 Management methods at the Sapporo Dome (Hokkaido, Japan) for a movable soccer field of cool season turfgrass  
Manabu SAITO
- 13PM1-7 Short-height variety of *Zoysia matrella* effectively increases soil carbon content  
Terumasa TAKAHASHI

14:00-17:30

Oral Session 4--- Construction &

Room : ASAMA E

## Monday, July 14, 2025

06:30-09:00

Continental Breakfast (for Prince Hotel Guests only)

Room : CHIKUMA A•B•C

06:30-19:00

Registration

Atrium

07:00-20:00

Speaker Preparation Room/Update Presentations

Room: XXXXXXXXX

09:00-12:00

Oral Session 5--- General turfgrass science, Golf course or athletic field management and maintenance

Room : ASAMA A

- 14AM1-1 No Mow May and Leave The Leaves: The impact of two social campaigns on turf quality  
Sara STRICKER
- 14AM1-2 "Considerations with determining optimum soil depth for soil moisture and salinity measurement on golf course putting greens"  
Carmen MAGRO
- 14AM1-3 Next steps toward improving estimates of golf course net climate impact:

- The development of a methodology for individual golf courses to measure soil organic carbon stocks and sequestration  
Michael BEKKEN
- 14AM1-4 An evaluation of root production and surface performance characteristics of perennial ryegrass carpet-mat systems  
Ryan BEARSS
- 14AM1-5 Finer topdressing sand affects creeping bentgrass quality and surface Characteristics  
Eric Hui CHEN
- 14AM1-6 Identifying key predictor variables of putting surface disruption using machine learning  
Frank ROSSI
- 14AM1-7 A 20-year study at Saitama Stadium 2002: the relationship between turf quality and rootzone function in a temperature-controlled system: Report II from 2015 to 2022  
Ryota SATO
- 14AM1-8 Case study on snow-melting operations to accelerate spring use of Soccer pitches with under-soil heating systems, Sapporo, Japan  
Daichi MORIYA
- 14AM1-9 Seasonal changes in soil microbial content in sandy soil putting greens on golf courses using SOFIX (Soil Fertility Index) analysis technology  
Mizuho KAWAMURA

09:00-12:00

Oral Session 6--- Turfgrass insect and nematode issues

Room :ASAMA B

- 14AM2-1 Characterization of cool- and warm-season turfgrass host suitability to annual bluegrass weevil (*Listronotus maculicollis* Kirby)  
Audrey SIMARD
- 14AM2-2 Investigating multi-trophic effects of St. Augustinegrass cultivar blends in the Southeastern United States  
Adam DALE
- 14AM2-3 Lethal and sublethal effects of novaluron, a novel insect growth regulator, on annual bluegrass weevil, *Listronotus maculicollis* Kirby, lifestages in turfgrass  
Ben McGRAW
- 14AM2-4 Short- and long-term casting dynamics of the anecic earthworm *Aporrectodea longa* in golf course turfgrass following sand

- Ben McGRAW
- 14AM2-5 Visualization of damage to *Zoysia matrella* (L.) Merr. turf infested with white grubs using normalized difference vegetation index obtained via unmanned aerial vehicle observation  
Tatsunori TANAKA
- 14AM2-6 Management of frit fly (*Oscinella frit*), a challenging turfgrass insect pest in Hawaii  
Zhiqiang CHENG
- 14AM2-7 Control of early larval instars of Annual Bluegrass Weevil in turfgrass with Isocycloseram, a new Isoxazoline insecticide  
Michael De LUCA
- 14AM2-8 Insights from the development of TYMIRIUM Technology (cyclobutrifluram) as a nematicide for the turfgrass industry  
Lukas DANT

09:00-12:00

Oral Session 7--- Turfgrass Pests I

Room :ASAMA C

09:00-12:00

Oral Session 8--- Turfgrass Pests I

Room :ASAMA D

09:00-12:00, 14:00-17:30

Graduate Student Oral Competition No.1 & 2

Room :ASAMA E

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BAUBERGER	Chase	In vitro fungicide sensitivity of root rot disease causal agent <i>Phialocephala bamuru</i> isolated in New Jersey from hard fescue
FREUND	Daniel	Effect of mowing timing and clipping collection practices on azoxystrobin distribution, persistence, and efficacy
FERNANDA	Arevalo Alvarenga	Management practices alter endophytic diazotrophic communities in CitraBlue St. Augustinegrass
GREEN	Will	Alternative cool-season turfgrass species for overseeding dormant bermudagrass
KAHIU	Maureen	<i>Poa annua</i> control in golf course putting green collars via fraise mowing
KITCHIN	Elisabeth	Leveraging deep learning for dollar spot detection and quantification in turfgrass
LUGLIO	Sofia Matilde	Evaluation of the operative and qualitative performances of three different mowing machines on Kentucky Bluegrass
MCLOUGHLIN	Patrick	Risk of nutrient leaching following over-irrigation of two warm-season turfgrasses with recycled water

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MCNAB	Edward	A practical field assay to detect demethylation inhibitor fungicide resistance in <i>Clarireedia jacksonii</i>
MINAEV	Nikolay	Investigating the effects of preemergence herbicides on Spring Beauty ( <i>Claytonia virginica</i> ) growth in flowering turfgrass lawns
PONGPI-YAPAIBOON	Sorawich	Diversity assessment of morphological and growth characteristics of zoysiagrass ecotypes in Japan using digital phenotyping.
RABE	Michael	Mowing height and irrigation effects on above ground biomass production of <i>Schedonorus arundinaceus</i>
RAVI TEJA	Seelam	Transcriptomic and metabolomic analysis reveal differentially expressed genes and metabolic pathways in bermudagrass under drought stress
RUWONA	Justice	Determining the optimal ratio of resistant to susceptible bentgrass cultivars to reduce dollar spot severity
SAMUEL	Kreinberg	Review of the biology and management of large patch of warm-season turfgrasses
SAPKOTA	Madan	Portable L-band radiometry for soil moisture mapping on golf course fairways: A calibration study with analysis of covariance regression in Texas
SIERRA AUGUSTINUS	Alejandra	Bermudagrass fairway responses to various combinations of a soil surfactant and nitrogen
VUKOVIC	Vera	Effects of turfgrass canopy shade levels and quantum spectrum on the germination and development of smooth crabgrass ( <i>Digitaria ischaemum</i> )
WILBER	Amy	An aerial imagery approach to differentiating bermudagrasses ( <i>Cynodon</i> spp.) and zoysiagrass ( <i>Zoysia japonica</i> ) using dew retention patterns

09:00-18:00

Poster Session Day 2---display for two days

Room :ASAMA F

12:00-14:00

Lunch

Room :CHIKUMAA•B•C

14:00-17:30

Oral Session 9--- Turfgrass breeding, genetics, and biotechnology, Turfgrass weed science

Room :ASAMA A

14PM1-1 *Epichloe festucae* endophyte-mediated maternal inheritance of dollar spot disease resistance in hard fescue

Ruying WANG

14PM1-2 Integration of multi-omics approaches approaches reveals candidate genes for drought stress in St. Augustinegrass (*Stenotaphrum secundatum*)

- Xingwang YU
- 14PM1-3 Maximizing Genetic Gains across Agronomic and Consumer Preference Traits in St. Augustinegrass Breeding  
Susana MILLA-LEWIS
- 14PM1-4 Molecular analysis of St. Augustinegrass cultivar mixtures composition over time and latitude  
Susana MILLA-LEWIS
- 14PM1-5 Unraveling key environmental drivers and microbial biomarkers in the rhizosphere of mature golf course putting greens  
Xavier Giol CASANOVA
- 14PM1-6 A method to spatially assess multipass spray deposition patterns via UV fluorescence and weed population shifts  
Daewon KOO
- 14PM1-7 The herbicidal efficacy of fenquinotrione against *Cyperus brevifolius* in turfgrass  
Ryosuke SUZUKI

14:00-17:30

Oral Session 10--- Construction &

Room :ASAMA B

14:00-17:30

Oral Session 11--- Construction &

Room :ASAMA C

14:00-17:30

Symposium “The Future of Mowing”

Room :ASAMA D

- 14:00-14:05 Opening Remarks of session of The Future of Mowing
- 14:05-14:25 PATTON Aaron  
Why we mow: a review of the resulting ecosystem services and disservices from mowing turfgrass
- 14:25-14:45 McELROY Scott  
Robotic Mowing Technology: Past, Present, and Future
- 14:45-15:00 MAGNI Simone  
Autonomous and traditional mowing in golf course maintenance: case study in Italy.
- 15:00-15:15 DEKURA Toshiaki  
Efforts to digitally transform (DX) golf course turfgrass management
- 15:15-15:30 KIMURA Shoichi

- The Effect of mowing frequency by Unmanned Automonus mower on the turf quality of Zoysia matrella Fairway.
- 15:30-15:45 LUGLIO Sofia Matilde  
Evaluation of the operative and qualitative performances of three different mowing machines on Kentucky Bluegrass
- 15:45-16:00 Break
- 16:00-16:15 HESSELSEE Karin Juul  
Switching from traditional to robotic mowing effects turfgrass quality and fertilization on golf course fairways
- 16:15-16:30 MICHAEL Barnes  
Cultivating connections: Turfgrass as a thriving social-ecological-technological system
- 16:30-16:45 ROBERT Noemie  
A study analyzing the behavior of different cool-season species and cultivars overseeded on bermudagrass and managed with robot mower.
- 16:45-17:00 Discussion
- 14:00-17:30  
Graduate Student Oral Competition No.2 (see above 14:00-17:30 for listing)  
Room :ASAMA E

## Tuesday, July 15, 2025

- 06:30-09:00  
Continental Breakfast (for Prince Hotel Guests only)  
Room: CHIKUMA A•B•C
- 06:30-19:00  
Registration  
Atrium
- 07:00-20:00  
Field Tour  
Bus No.1 7:00 Karuizawa Prince -> 9:00 Kumagaya Rugby 10:00 -> 11:30 Saitama Bonsai Museum (including Lunch) 13:00 -> 13:40 Saitama Stadium 2002 14:40 -> 17:40 Karuizawa Taliesin 20:00  
Bus No.2 7:00 Karuizawa Prince -> 9:30 Saitama Stadium 2002 10:30 -> 11:30 Hidaka CC (including Lunch) 13:00 -> 14:15 Tokyo Racetrack 15:15-> 17:30 Karuizawa Taliesin 20:00  
Bus No.3 7:00 Karuizawa Prince -> 9:30 Saitama Bonsai Museum 10:30 -> 11:10

Saitama Stadium 2002 (including Lunch) 12:40 -> 14:00 Kumagaya Rugby 15:00 ->  
17:30 Karuizawa Taliesin 20:00

08:00-20:00

Bus No.4 8:00 Karuizawa Prince -> 10:30 Saitama Stadium 2002 11:30 ->12:30  
Hidaka CC (including Lunch) 14:00-> 14:45 Kawagoe City Museum 16:00 -> 17:30  
Karuizawa Taliesin 20:00

Bus No.5 8:00 Karuizawa Prince -> 10:00 Kumagaya Rugby 11:00 -> 12:30 Saitama  
Stadium 2002 (including Lunch) 14:00-> 14:40 Saitama Bonsai Museum 15:40 ->

17:30

Karuizawa Taliesin 20:00

Bus No.6 8:00 Karuizawa Prince -> 9:30 Sania Park Sugadaira 10:30-> 11:30 Lunch  
12:30 -> 12:45 Nagano U Stadium 13:45 -> 14:45 Asama Kogen CC 16:00 -> 17:30  
Karuizawa Taliesin 20:00

Bus No.7 8:00 Karuizawa Prince -> 9:00 Asama Kogen CC 10:00 -> 10:45 Sania Park  
Sugadaira 11:45-> 13:00 Lunch 14:00 -> 14:15 Nagano U Stadium 15:30 -> 17:30  
Karuizawa Taliesin 20:00

09:00-20:00

Bus No.8 9:00 Karuizawa Prince -> 10:30 Nagano U Stadium 11:30 -> 12:30 Asama  
Kogen CC (Including Lunch) 13:45 -> 15:00 Sania Park Sugadaira 16:00 -> 17:30  
Karuizawa Taliesin 20:00

For accompanying person use

08:30-20:00 For Accompanying person use

Bus No.9 8:30 Karuizawa Prince -> 9:15 Onioshidashi 11:00 -> 11:00 Lunch 12:30 ->  
12:30 Zenko-ji 15:45 -> 17:30 Karuizawa Taliesin 20:00

17:30-20:00

BBQ Party

Karuizawa Taliesin

## Wednesday, July 16, 2025

06:30-09:00

Continental Breakfast (for Prince Hotel Guest only)

Room :CHIKUMA A•B•C

06:30-19:00

Registration

Atrium

07:00-20:00

Speaker Preparation Room/Update Presentations

Room: XXXXXXXXX

09:00-12:00

Zoysiagrass Symposium

Room: ASAMA A•B•C

- 09:00-09:05      Opening Remarks  
                         President: Hideaki TONOGI or Session Chair: Micah WOODS)
- 09:05-09:20      Zoysia use and characteristics in South, Southeast, and East Asia,  
                         Micah WOODS
- 09:20-09:35      An introduction to the history & current status of turfgrass utilization  
                         in Japan, Satoru TANAKA
- 09:35-09:50      Management of korai (*Zoysia matrella*) putting greens in Japan,  
                         Andrew McDANIEL
- 09:50-10:05      Development and use of zoysia putting green cultivars in the USA,  
                         Ambika CHANDRA (by Video)
- 10:05-10:25      Break
- 10:25-10:40      Genetics of zoysiagrass breeding,  
                         Susana MILLA-LEWIS
- 10:40-10:55      Morphometric analysis of turfgrass using digital 3D technology in  
                         Japan,  
                         Hidenori TANAKA
- 10:55-11:55      Panel discussion including Ambika by Zoom
- 11:55-12:00      Final Remarks (Session Chair: Micah WOODS)

09:00-12:00

Oral Session 12-- Turfgrass physiology and stress physiology

Room: ASAMA D

- 16AM1-1      Chlorophyll fluorescence characteristics of turfgrasses grown under shade  
                         trees  
                         David JESPERSEN
- 16AM1-2      Exogenous choline chloride improves heat and drought stress tolerance of  
                         creeping bentgrass  
                         Xunzhong ZHANG
- 16AM1-3      Physiological and transcriptional responses to Acibenzolar-S-methyl in creeping  
                         bentgrass  
                         Taketo AOYAGI



- 16AM1-4            Research advances in molecular mechanisms regulating heat tolerance in cool season turfgrasses  
Bingru HUANG
- 16AM1-5            Shade, height of cut, and plant growth regulator effects on bermudagrass and zoysiagrass putting greens  
Mike RICHARDSON
- 16AM1-6            Seasonal growth cycles of *Zoysia matrella* and *Agrostis stolonifera* putting greens in Japan  
Naohito SHIMADA
- 16AM1-7            Effect of ice encasement, covers and snow and ice removal on annual bluegrass, creeping bentgrass and red fescue putting greens  
Trygve S. AAMILID

09:00-12:00

Oral Session 13-- Turfgrass water and nutrient management

Room: ASAMA E

- 16AM2-1            "1. Performance and recovery of turfgrasses irrigated with varying crop coefficients (accepted)  
2. Acidification affects soil bicarbonate concentration, infiltration rate, and Kentucky bluegrass performance (under review)"  
Elena SEVOSTIANOVA
- 16AM2-2            Accuracy of remote soil moisture sensing using Sentinel 1A Satellite  
Bernd LEINAUER
- 16AM2-3            Investigation of plant protein products on turfgrass putting greens quality, playability, and establishment  
Alex LINDSEY
- 16AM2-4            Irrigation rates and frequency affect tall fescue quality and weed encroachment  
Alec KOWALEWSKI
- 16AM2-5            Performance and recovery of turfgrasses irrigated with varying crop coefficients  
Elena SEVOSTIANOVA
- 16AM2-6            Water use and performance of Kentucky bluegrass influenced by cultivar, irrigation practices, and soil texture  
Tyler CARR
- 16AM2-7            Observations with soil surfactant applications to amenity turfgrass under saturated rootzone conditions.  
John DEMPSEY

16AM2-8 Turf Quality, Growth Rates, Root Development, and Competition from Annual Bluegrass and Moss as Affected by Seasonal Fertilizer Distribution on Red Fescue Putting Greens  
Trygve S. AAMLID

09:00-12:00

Oral Session 14--- Construction &

Room: ASAMA F

12:00-14:00

Lunch

Room :CHIKUMA A•B•C

14:00-17:30

ITS Quadrennial Business Meeting, Student Presentation Awards, Closing Ceremony

Room: ASAMA A•B•C

18:30-21:00

Banquet

Room :CHIKUMA A•B•C

## **Thursday, July 17, 2025**

06:30-09:00

Continental Breakfast (for Prince Hotel Guests only)

Room :CHIKUMA A•B•C

09:00-11:30

Post-conference ITS Business meeting (by Invitations)

Room: ASAMA D

## List of Poster presentations (on display July 13 & 14, 2025)

specific times where presenters should attend their posters will be announced later.

	Name		Poster Title
1	AAMLID	Trygve	Soil loss in Norwegian turfgrass sod production
2	AAMLID	Trygve	Optimal ratios between chewings fescue and slender creeping red fescue in seed blends for golf course putting greens
3	AAMLID	Trygve	Recovery of five cool-season turfgrasses following long-term ice encasement
4	AAMLID	Trygve	Screening of cool season turfgrass species and varieties for tolerance to simulated ice encasement
5	AAMLID	Trygve	Optimal ratios between chewings fescue and slender creeping red fescue in seed blends for golf course putting greens
6	ABE	Kanae	Disease incidence trend of creeping bentgrass in Japan based on diagnosis results.
7	AMGAIN	Naba	Allelopathic potential of cool-season turfgrass species as an alternative management strategy for weed control
8	ANLAUF	Ruediger	Evaluation of a centrifuge quick test to determine the water retention parameters of turf rootzone materials
9	BERO	Nicholas	Effect of biological additives to a putting green with low plant available phosphorus
10	BRAITHWAITE	Emily	Identification of <i>Meloidogyne</i> spp. from cool-season golf course putting greens in the Pacific Northwest
11	CARPENTER	Matthew	Effect of post application irrigation timing on fungicide efficacy of dollar spot on golf putting greens
12	CARROLL	Mark	Comparison of TruFirm and Clegg impact hammer surface hardness on athletic fields
13	CASHBAUGH	Mariah	Evaluating the capabilities of artificial intelligence for interpretation and retrieval of research data stored in a repository
14	DACOSTA	Michelle	Effects of cultivar, synthetic cover, and plant health products on creeping bentgrass establishment in early spring
15	DANT	Lukas	Insights from the development of TYMIRIUM Technology (cyclobutrifluram) as a nematicide for the turfgrass industry
16	DE LUCA	Michael	Control of early larval instars of annual bluegrass weevil in turfgrass with Isocycloseram, a new isoxazoline insecticide
17	ELMORE	Matthew	Bentgrass cultivar affects competitiveness in a <i>Poa annua</i> fairway

18	ESAKI	Nobuyuki	Improved mathematical models for turfgrass growth using actual data for low-cost turfing
19	ESPEVIG	Tatsiana	Development of immunoassay for detection of microdochium fungi in grass
20	ESPEVIG	Tatsiana	Causal species for dollar spot disease of turfgrass in Europe
21	EVERS	Maurice	Validating a practical methodology for thatch - mat - soil distinction in turfgrass soils
22	FIDANZA	Michael	Effect of controlled-release nitrogen fertilizer on St. Augustinegrass during the summer fertilization prohibition period for lawns in Florida, USA
23	FIDANZA	Michael	Blend ratios and mixtures of brown patch susceptible and resistant tall fescue cultivars
24	FIDANZA	Michael	Evaluation of soil surfactant applications to turfgrass utilizing a transect method for monitoring soil moisture
25	FONTANIER	Charles	Effect of reduced irradiance on drought resistance of three turfgrasses
26	FUSHIMI	Akihide	Field burning in the mountainous agricultural areas of western Japan Rice field and levee
27	HENSLER	Kevin	Tolerance of blue grama to herbicides used during establishment of low-input residential lawns
28	HOTTA	Keisuke	Occurrence of stem black rot on creeping bentgrass caused by <i>Candidacolonium</i> sp. in Japan
29	INOUE	Yoshio	Spatial heterogeneity of physiological conditions in creeping bentgrass putting greens as assessed by drone-based remote sensing and in-situ measurement of soil water content
30	MCELROY	Scott	Identification of quinclorac-resistant smooth crabgrass ( <i>Digitaria ischaemum</i> ) population in Alabama.
31	JESPERSEN	David	Ion specificity of salt glands in zoysiagrass under different exposures to sodium and potassium
32	JIA	Fang	Comparison of phytoremediation of pesticides by different turfgrass species
33	KAHIU	Maureen	Phytotoxicity of commercially available demethylation-inhibiting fungicides when applied to an annual bluegrass ( <i>Poa annua</i> ) and creeping bentgrass ( <i>Agrostis stolonifera</i> ) fairways
34	KAMINSKI	John	Efficacy of integrated cultural practices for dollar spot disease management on creeping bentgrass and bermudagrass
35	KENWORTHY	Kevin	Irrigation frequency requirements for sufficient warm-season species quality in Florida
36	KIKUKAWA	Hiroyuki	Measurement of carbon storage in schoolyard grass areas at elementary

			schools in Kobe, Japan
37	KIMURA	Shoichi	The effect of mowing frequency by unmanned autonomous mower on the turf quality of <i>Zoysia matrella</i> Fairway.
38	KIMURA	Shoichi	The growth of <i>Zoysia matrella</i> in a Japanese Golf Course Fairway - 7 years study.
39	KOPP	Kelly	Nitrogen status of mixed clover and Kentucky bluegrass dicultures in a greenhouse setting
40	MACOLINO	Stefano	Comparing autonomous and conventional mowing: effects on kentucky bluegrass quality and morphology
41	MCNALLY	Brandon	Optimizing ethephon application timing for "Meyer" zoysiagrass seedhead suppression
42	MESSER	Zack	Evaluating athletic field cutting height and playability
43	NABA	Amgain	Allelopathic potential of warm-season turfgrass species as an alternative management strategies for weed control
44	PATRICK H	McLoughlin	Evaluating warm-season turfgrass: Multispectral and red-green-blue index comparison
45	PEASE	Benjamin	Brown patch on tall fescue as influenced by nitrogen and fungicide applications
46	SAKAGUCHI	Nana	Effect of soil-heating on growth of creeping bentgrass on shaded putting greens in winter.
47	SPORTELLI	Mino	Bermudagrass quality affected by irrigation level, fertilization, a soil surfactant, and trinexapac-ethyl
48	TANAKA	Satoru	An overview of Japanese turfgrass research for the past 50 years
49	TANAKA	Hidenori	Evaluation of the effect of domestic-waste slag sand on the growth characteristics of zoysiagrass
50	THOMS	Adam	Evaluating the sustainability of turfgrass lawn assemblages
51	TRAPPE	Jon	Response of cool-season turfgrass monocultures and two-way mixtures to sequential acute drought periods
53	TSUKIBOSHI	Takao	<i>Clarireedia japonici</i> , a new fungal species causing dollar spot disease of creeping bentgrass in Japan
54	TSUKIBOSHI	Takao	First report of blast disease caused by <i>Pyricularia oryzae</i> on creeping bentgrass in Japan
55	WALKER	Nathan	Influence of fertilizer inputs on the severity of spring dead spot of bermudagrass
56	XIANG	Mingying	Nitrogen and mowing height effects on grow-in, thatch

		accumulation, and post-harvest rooting of zoysiagrasses
57	XIANG	Mingying Responses of turf-type bermudagrasses to drought stress.
58	XIANG	Mingying Impact of a horticultural mineral oil on bermudagrass performance under salinity stress
59	YU	Shuhao Detection of QTL associated with morphological, adaptive, and reproductive traits in common bermudagrass
60	ZHANG	Xunzhong <i>Bacillus subtilis</i> containing biostimulant improves salt stress tolerance of creeping bentgrass

**[Important Notice 2]**

If you cannot find your presentation (either oral or poster in this Preliminary Program), then you might not have filled out the ITRC2025 survey, active from March 14-30. See [https://uoguelph.eu.qualtrics.com/jfe/form/SV\\_bIdDwNkANzOKBTw](https://uoguelph.eu.qualtrics.com/jfe/form/SV_bIdDwNkANzOKBTw) and fill in the details separately for each presentation. If you had not responded in the first survey release, but filled survey responses after March 30, then you don't need to fill them in again. If you select ORAL, we will attempt to fit you in if space is available. For changes in presentation format, or in presenter, please fill in another survey response, and state in the survey ("questions" at end) that this is a correction to a previous response.

Planning Committee for the 15<sup>th</sup> ITRC

Thanks to the following individuals who assisted with the planning and organization of the 15<sup>th</sup> ITRC over the past three years.

This conference would not have been possible without their hard work and attention to detail.

Their dedication and service on the following committees is very much appreciated.

1. Accompanying person's Tours: Mimi Fujisaki
2. Editor-in-chief: Doug Soldat, assistant editor-in chief: Eric Lyons
3. Graduate Student Speech competition Awards: Paul Koch
4. Practitioner Seminar: Shin Nakamura, Nobuhiro Sasaki
5. Local arrangement committee: Shigeki Fujii, Shin Nakamura, Satoru Tanaka, Kunitsugu Ogawa, Masakazu Ushiro, Shoichi Kimura, Takefumi Ohmura, Makoto Yaneshita, Hidenori Asou, Toshihiro Hayakawa, Yutaka Miura, Takanori Miyoshi, Nobuhiro Sasaki,
6. Pre-conference Tour arrangement: Kunitsugu Ogawa
7. Scientific Program Planning Committee: Hideaki Tonogi, Tom Hsiang, Christopher Lambrides, Nathan Walker, Scott McElroy, Sun Yan,
8. Special Session 「The Future of Mowing」: Scott McElroy

9. Technical tour: Hideaki Tonogi, Kunitsugu Ogawa

10. Zosiagrass Symposium: Micah Woods

#### Sponsors for the 15<sup>th</sup> ITRC

The following organization provided financial and logistical support for the 15<sup>th</sup> ITRC. Their support and commitment to ITS and the ITRC is very much appreciated and greatly enhanced by the quality of this year's conference.

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