CONFERENCE PROGRAM OVERVIEW

			Time	Program
July	12	Sun	PM	Opening Ceremony & Keynote Address (1400-1730), Welcome Reception (1830-2100)
July	13	Sat	AM & PM	Practitioner seminar (0900-1215, 1330-1700) Oral presentations (0900-1230, 1400-1730) Even # Poster Presenters attending (1700-1830)
July	14	Mon	AM	Graduate student oral competition 1 (0900-1200) Oral presentations (0900-1230)
July	14	Mon	PM	Graduate student oral competition 2 (1330-1745) Oral presentations (1400-1730) Special Session “The Future of Mowing” (1400-1730) Odd # Poster Presenters attending (1700-1830)
July	15	Tue	All day	Technical tours (meet outside North Entrance to Hotel) all ending at Taliesin Park for BBQ (0800-2000)
July	16	Wed	AM	Zoysiagrass symposium (0900-1200) Oral presentations (0900-1200)
July	16	Wed	PM	ITS quadrennial meeting & Graduate Student Awards & Closing Ceremony (1400-1730) Banquet (1830-2100)

Speakers: please provide your presentation file at the AV operation desk in your seminar room (back of room) by at least 30 minutes before your session starts.

ITS Board members (2022-2025)

Officers

Hideaki Tonogi, President

Ruth Mann, Vice-President

James Murphy, Secretary

Scott McElroy, Treasurer

Katerina Jordan, President Elect

Maria Strandberg, Past President

Alessandro De Luca, Historian

Doug Soldat, Editor-in-Chief

Nathan Walker, Newsletter Editor

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Wilhelm Graiss

Anne-Matte Jensen

John Kaminski

Kelly Kopp

Christopher Lambrides

San-Kook Lee

Bernd Leinauer

Shin Nakamura

Yan Su

GENERAL INDEX

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2. Layout of the Conference Areas
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5. Poster Presentations
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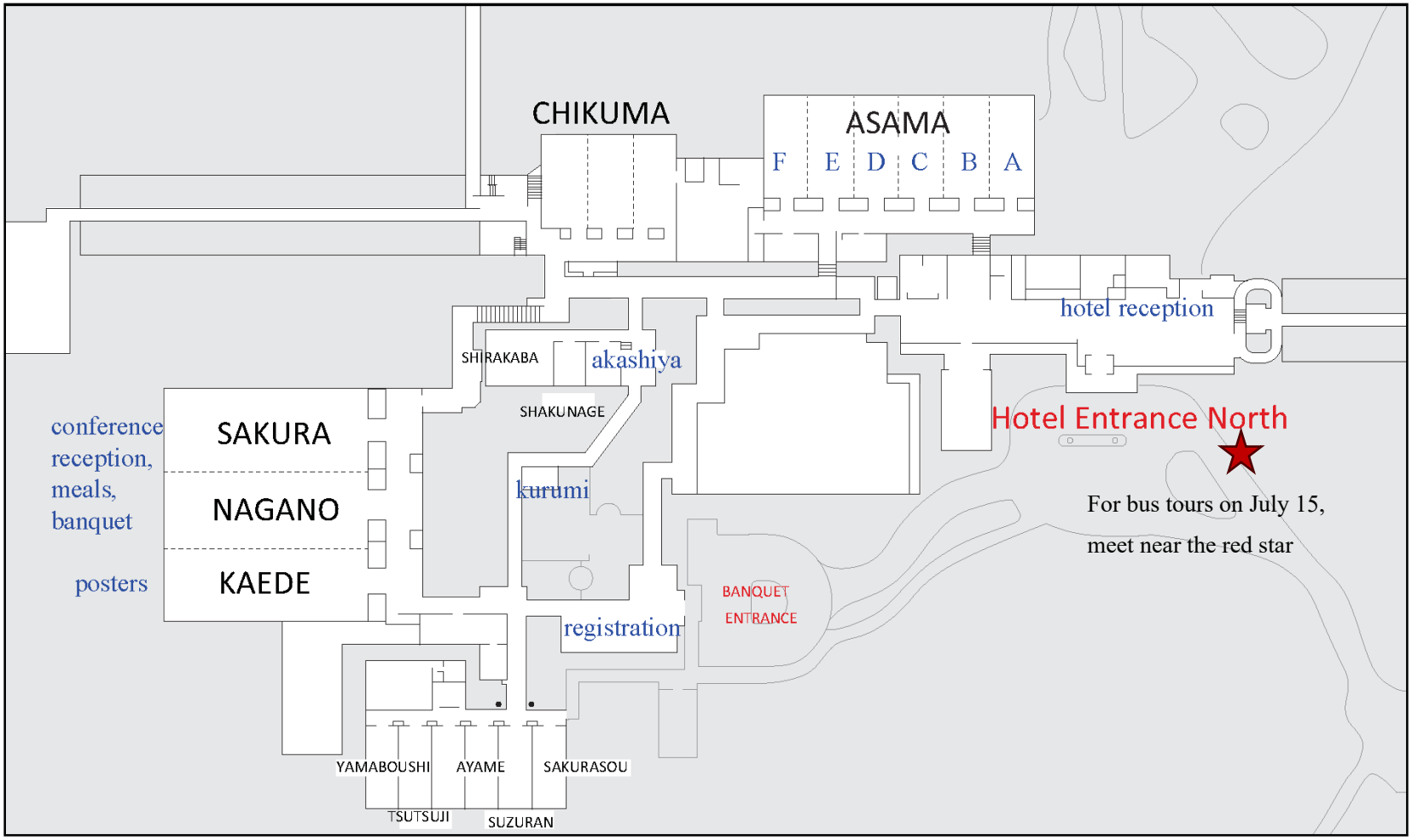
7. Sponsors for 15th ITRC
8. Author Index

ITRC 2025 CONFERENCE AREAS



15TH ITRC PROGRAM AT A GLANCE

Saturday, July 12, 2025

1000-1200	Pre-Conference ITS Board meeting (by Invitation)	ASAMA B
1200-1900	Registration (and 0630-1900 through Wednesday)	Atrium
1200-2000	Speaker Preparation & Preview Room	AKASHIYA
1400-1730	Opening Ceremony & Keynote Addresses	ASAMA C&D&E&F
1830-2100	Welcome Reception	NAGANO&SAKURA

Sunday, July 13, 2025

0630-0900	Continental Breakfast (For Prince West Hotel Guests)	NAGANO&SAKURA
0630-1900	Registration	Atrium
0700-2000	Speaker Preparation & Preview Room	AKASHIYA
0900-1215	Practitioner Seminar Part I	ASAMA D&E&F
0900-1230	Oral Session 1: Turfgrass diseases	ASAMA A&B
0900-1830	Poster Session Day 1--- on display for two days	KAEDE
1200-1400	Lunch (For conference registrants)	NAGANO&SAKURA
1330-1700	Practitioner Seminar Part II	ASAMA D&E&F
1400-1700	Oral Session 3: Sustainable maintenance & soil management	ASAMA C
1400-1700	Oral Session 4: Turfgrass diseases	ASAMA A&B
1700-1830	Even-numbered poster presenters at their posters	KAEDE

Monday, July 14, 2025

0630-0900	Continental Breakfast (For Prince West Hotel Guests)	NAGANO&SAKURA
0630-1900	Registration	Atrium
0700-2000	Speaker Preparation & Preview Room	AKASHIYA
0900-1230	Oral Session 5: Turfgrass science	ASAMA E&F
0900-1145	Oral Session 6: Turf insect and nematode issues	ASAMA C&D
0900-1200	Graduate Student Oral Competition No.1	ASAMA A&B
0900-1830	Poster Session Day 2 --- last day of display	KAEDE
1200-1400	Lunch (For conference registrants)	NAGANO&SAKURA
1400-1730	Oral Session 9: Turf breeding and weed science	ASAMA E&F
1400-1730	Symposium “The Future of Mowing”	ASAMA C&D

1330-1745	Graduate Student Oral Competition No.2	ASAMA A&B
1700-1830	Odd-numbered poster presenters at their posters	KAEDE
1830	Take down posters (all)	KAEDE

Tuesday, July 15, 2025

0600-0900	Continental Breakfast (For Prince West Hotel Guests)	NAGANO&SAKURA
0630-1900	Registration	Atrium
	Field Tours (meet outside North Entrance to Prince West Hotel – see map)	
0700-2000	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	
0800-2000	Bus No.4 Saitama Stadium 2002→Hidaka CC → Kawagoe City Museum	
	Bus No.5 Go to Bus No. 3 by 0700	
	Bus No.6 Go to Bus No. 8 by 0900	
	Bus No.7 Asama Kogen CC → Sania Park Sugadaira → Nagano U Stadium	
0900-2000	Bus No.8 Nagano U Stadium → Asama Kogen CC → Sania Park Sugadaira	
0830-2000	Bus No.9 Onioshidashi → Zenko-ji	
	More information on individual tour sites	
1730-2000	All buses end up at BBQ Party, Karuizawa Taliesin (10 min from Prince West)	

Wednesday, July 16, 2025

0630-0900	Continental Breakfast (For Prince West Hotel Guests)	NAGANO&SAKURA
0800-1600	Speaker Preparation & Preview Room	AKASHIYA
0900-1200	Zoysiagrass Symposium	ASAMA E&F
0900-1200	Oral Session 12: Turfgrass physiology	ASAMA A&B
0900-1200	Oral Session 13: Water and nutrient management	ASAMA C&D
1200-1400	Lunch (For conference registrants)	NAGANO&SAKURA
1400-1730	ITS Quadrennial Business Meeting & Student Awards	ASAMA E&F
1830-2100	Banquet (For conference registrants)	NAGANO&SAKURA

Thursday, July 17, 2025

0630-0900	Continental Breakfast (For Prince West Hotel Guests)	NAGANO&SAKURA
0900-1130	Post-conference ITS Business meeting (by Invitation)	ASAMA B

15TH ITRC FULL PROGRAM

Conference Theme: 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. A relaxing space can be found in KURUMI. Clicking on the unique identifier (e.g. 14AM1-2) to view the Abstract/Manuscript associated with the presentation, including all the authors. A list of authors from each manuscript is listed in the Author Index which links to their scheduled presentation.

For the regular oral sessions, the schedule is based on 15 minute presentations from 0900 to 1200 with a 30 minute break from 1015 to 1045. Lunch is available to all registrants from 1200 to 1400 in NAGANO & SAKURA. Afternoon sessions run regularly from 1400 to 1730 with a 30 min break from 1515 to 1545. Consult full program schedule for variations from these start and end times.

Saturday, July 12, 2025

Sat 1000-1200	Pre-Conference ITS Board meeting (by Invitation)	ASAMA B
Sat 1200-1900	Registration	Atrium
Sat 1200-2000	Speaker Preparation Room/Update Presentations	AKASHIYA
Sat 1400-1730	Opening Ceremony & Keynote Addresses	ASAMA C&D&E&F
Sat 1830-2100	Welcome Reception (Food!)	NAGANO&SAKURA

Opening Ceremony

Sat 1400-1730 — Session Moderator: KIMURA Shoichi — ASAMA C&D&E&F

A **Announcement by Past ITS President**

STRANDBERG Maria (KEY0)

International research collaboration - the only strategy to create a sustainable future

B **Keynote Addresses**

1. YAGUCHI Shigeharu (KEY1)
   Keynote Speech I: Introducing the history of turfgrass culture in Japan
2. FUJISAKI Kenichiro (KEY2)
   Keynote Speech II: History of schoolyard turfing for popularization in Japan
3. AKASHI Ryo (KEY3)
   Keynote Speech III: Genetic characteristics of zoysiagrass through genetic analysis
4. Discussion Moderator: KIMURA Shoichi, Translator: NAKAMURA Shin

Sunday, July 13, 2025

Sun 0630-0900	Continental Breakfast (for Prince West Hotel Guests)	NAGANO&SAKURA
Sun 0630-1900	Registration	Atrium
Sun 0700-2000	Speaker Preparation Room/Update Presentations	AKASHIYA
Sun 0900-1215	Practitioner Seminar Part I	ASAMA D&E&F

Practitioner Seminar

Part I (0900-1215), Part II (1330-1700)

Sun AM & PM Session Moderator: NAKAMURA Shin ASAMA D&E&F

Select researchers and sponsoring companies will have a chance to introduce their technologies, products, and latest research results to practitioners in turfgrass management. Presentations will be translated to Japanese and English by the ITRC organizers. Full Details. AM abstracts. PM abstracts.

0900-0905	TONOGI Hideaki	Opening Remarks
0907-0922	McELROY Scott	Robotic and autonomous mowers for turfgrass management
0924-0939	ONOSHIMA Tomoo	Autonomous turf care solutions
0941-0956	FRIELL Josh	Technology adoption in turfgrass management supports SDGs
0958-1013	YAZAWA Masayuki	Autonomous mowers support the future of golf courses
1015-1030	JURIENS Claude	The end of blanket spraying in turf care: Welcome to ultra-high precision
1030-1050		Break
1050-1105	SOLDAT Doug	Measuring and managing putting green organic matter
1107-1122	GRAY Chris	The R&A-leadership in sustainable golf & agronomy
1124-1139	STRANDBERG Maria	Climate–Competence–Capital–Cooperation: Scandinavian Turfgrass & Environment Research Foundation
1141-1156	RASMUSSEN Jan Kjaer	Pesticide free suppression of Microdochium patch
1158-1212	IKEMI Tatsuo	Innovative biological solutions for organic matter management
1213-1330		Lunch (conference registrants)
1330-1345	HUTCHENS Wendell	Fundamentals of real-time pest detection and precision management in turfgrass systems

1347-1402	DODSON Kathleen	The future of turf management: smarter solutions for high performance turf
1404-1419	MUMFORD Colin	Developing innovative solutions to address the needs of the turf professional
1421-1436	YUYAMA Masaki	Contribute to golf course and landscape management
1438-1453	YUKIMURA Yoko	Commitment to BMPs as a full-line service turfgrass company
1455-1510	OHMURA Takeshi	Be a rainbow bridge connecting people with the environment, by means of the management of green lands
1510-1530	Break	
1530-1545	KOCH Paul	Strategies to implement precision disease management in turf
1547-1602	OKAMURA Masayuki	Control of green kyllinga (*Cyperus brevifolius*) on golf courses in Japan using a novel herbicide
1604-1619	MARVIN Jeffrey	Leveraging innovative formulation technology to research and develop next generation solutions for the turfgrass industry
1621-1636	FUKUMORI Youhei	New approaches to turfgrass disease control proposed by our company
1638-1653	MATSUURA Seiko	Use of novel DMI fungicides for disease control in golf course turf
1655-1700	NAKAMURA Shin	Closing remarks

Oral Session 1: Turfgrass diseases

Sun 0900-1230 Session Moderators: CLARKE Bruce and KOMATSU Ken ASAMA A&B

13AM1-1 KOCH Paul
Additional uses of the Smith-Kerns dollar spot model for improved dollar spot suppression

13AM1-2 KOMATSU Ken
Colletotrichum associated partitivirus 1 infection negatively modulates the fungal growth of *Colletotrichum zoysiae* and its virulence to *Zoysia matrella*

13AM1-3 HSIANG Tom
Cross-resistance of *Clarireedia jacksonii* to demethylation-inhibiting fungicides

13AM1-4 HAYANO Akihiro
Disease incidence trend of zoysiagrass in Japan based on diagnosis results

13AM1-5 ANDERS Jessica
Fifteen years of findings: advancements in spring dead spot research from 2009 to 2024

13AM1-6	CLARKE Bruce Potassium fertilization effects on dollar spot of annual bluegrass and creeping bentgrass
13AM1-7	GRÉGOIRE Guillaume Reducing human health and environmental risks associated with fungicide use on golf courses
13AM1-8	HOCKEMEYER Kurt Water carrier volume has little effect on fungicide efficacy against snow mold diseases of turfgrass
13AM1-9	MURPHY James Curative fungicide scheduling and bentgrass disease resistance affect dollar spot control
13AM1-10	WANG Ruying *Epichlöe festucae* endophyte-mediated maternal inheritance of dollar spot disease resistance in hard fescue

Sun 0900-1830	Poster Session Day 1 of 2 (even # authors attend 1700-1830)	KAEDE
Sun 1200-1400	Lunch (conference registrants)	NAGANO&SAKURA
Sun 1330-1700	Practitioner Seminar Part II (see Part I for the program)	ASAMA D&E&F

Oral Session 3: Sustainable urban and landscape maintenance, turfgrass root zone design and soil management

Session Moderators:

Sun 1400-1700 SCHIAVON Marco and TAKAHASHI Terumasa ASAMA C

13PM1-1	BOERI Pablo Nitrogen leaching and groundwater recharge of alternative lawn conversions in subtropical climates
13PM1-2	DUKES Michael Removal of turfgrass for water supply resilience
13PM1-3	SCHIAVON Marco Southern California land surface temperature differences under different landscape composition
13PM1-4	TRAPPE Jon Turfgrass species and sward age influence soil carbon pools near the soil surface

13PM1-5	CORDEL Jan Turfgrass irrigation: Analyzing the effects of rootzone construction and irrigation delivery system on water retention characteristics and perennial ryegrass performance
13PM1-6	SAITO Manabu Management methods at the Sapporo Dome (Hokkaido, Japan) for a movable soccer field of cool season turfgrass
13PM1-7	TAKAHASHI Terumasa Short-height variety of *Zoysia matrella* effectively increases soil carbon content
13PM1-8	LETOT Carson Time for a renovation? A case study on the recruitment and retention of women into the turf industry
13PM1-9	SANDELL Bert Practical experiences using USGA method for measuring surface organic material in golf greens
13PM1-10	THOMPSON Cole Management costs influence golfer perceptions of turfgrass quality and playability

Oral Session 4: Turfgrass diseases

Sun 1400-1700 | Session Moderators: CHOU Mingyi and CLARKE Bruce | ASAMA A&B

13PM2-1	HUNT Daniel Ultraviolet-C radiation as an alternative method to control dollar spot and Microdochium patch on golf greens
13PM2-2	KAHIU Maureen Discriminatory dose determination for DMI fungicides for *Clarireedia jacksonii* and mycelial growth variation across active ingredients
13PM2-3	CHAHAL Sharandeep Optimizing fungicide application timing for spring dead spot based on soil temperature and season
13PM2-4	BAHRI Bochra Evaluation of oxygenated and ozonated nanobubble water treatments for dollar spot suppression in seashore paspalum
13PM2-5	EMERSON John Indexing the soil nutrient status of turfgrass systems in Delaware

Sun 1700-1830 Even-numbered poster presenters at their posters KAEDE

Monday, July 14, 2025

Mon 0630-0900	Continental Breakfast (Prince West Hotel Guests)	NAGANO&SAKURA
Mon 0630-1900	Registration	Atrium
Mon 0700-2000	Speaker Preparation Room	AKASHIYA

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

Mon 0900-1230 Session Moderators: CHEN Eric & KAWAMURA Mizuho ASAMA E&F

14AM1-1	STRICKER Sara "No Mow May and Leave The Leaves": The impact of two social campaigns on turf quality
14AM1-2	MAGRO Carmen Considerations with determining optimum soil depth for soil moisture and salinity measurement on golf course putting greens
14AM1-3	SOLDAT Doug 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
14AM1-4	BEARSS Ryan An evaluation of root production and surface performance characteristics of perennial ryegrass carpet-mat systems
14AM1-5	CHEN Eric Finer topdressing sand affects creeping bentgrass quality and surface characteristics
14AM1-6	REITER Maggie Identifying key predictor variables of putting surface disruption using machine learning
14AM1-7	SATO Ryota A 20-year study at Saitama Stadium 2OO2: the relationship between turf quality and rootzone function in a temperature-controlled system: Report II from 2015 to 2022
14AM1-8	MORIYA Daichi Case study on snow-melting operations to accelerate spring use of soccer pitches with under-soil heating systems, Sapporo, Japan
14AM1-9	AAMLID Trygve Effect of ice encasement, covers, and snow and ice removal on annual bluegrass,creeping bentgrass, and red fescue putting greens

14AM1-10	KAWAMURA Mizuho Seasonal changes in soil microbial content in sandy soil putting greens on golf courses using SOFIX (Soil Fertility Index) analysis technology
14AM1-11	JOHNSON Karl Managing hybrid turf systems and the challenge of multiple changeovers of codes. A case study of the FMG Stadium journey through 2022-23
14AM1-12	WALMSLEY William Soil testing of putting greens for desired species

Oral Session 6: Turfgrass insect and nematode issues

Mon 0900-1145 Session Moderators: McGRAW Ben & CHENG Zhiqiang ASAMA C&D

14AM2-1	DALE Adam Investigating multi-trophic effects of St. Augustinegrass cultivar blends in the Southeastern United States
14AM2-2	McGRAW Ben Lethal and sublethal effects of novaluron, a novel insect growth regulator, on annual bluegrass weevil, *Listronotus maculicollis* Kirby, lifestages in turfgrass
14AM2-3	McGRAW Ben Short- and long-term casting dynamics of the anecic earthworm *Aporrectodea longa* in golf course turfgrass following sand topdressing
14AM2-4	TANAKA Tatsunori Visualization of damage to *Zoysia matrella* (L.) Merr. turf infested with white grubs using normalized difference vegetation index obtained via unmanned aerial vehicle observation
14AM2-5	CHENG Zhiqiang Management of frit fly (*Oscinella frit*), a challenging turfgrass insect pest in Hawaii
14AM2-6	De LUCA Michael Control of early larval instars of Annual Bluegrass Weevil in turfgrass with Isocycloseram, a new Isoxazoline insecticide
14AM2-7	DANT Lukas Insights from the development of TYMIRIUM Technology (cyclobutrifluram) as a nematicide for the turfgrass industry
14AM2-8	DANEEL Mieke Nematodes in golf courses: not all bad news!

Graduate Student Oral Competition 1: Pest Management

Mon 0900-1200 | Session Moderator: KOCH Paul | ASAMA A&B

14AS-1	BATTAGLIA	Mike	Fungicidal control options for silvery thread moss on creeping bentgrass putting Greens
14AS-2	BAUBERGER	Chase	In vitro fungicide sensitivity of root rot disease causal agent *Phialocephala bamuru* isolated in New Jersey from hard fescue
14AS-3	KITCHIN	Elisabeth	Leveraging deep learning for dollar spot detection and quantification in turfgrass
14AS-4	McNAB	Edward	A practical field assay to detect demethylation inhibitor fungicide resistance in *Clarireedia jacksonii*
14AS-5	RUWONA	Justice	Determining the optimal ratio of resistant to susceptible bentgrass cultivars to reduce dollar spot severity
14AS-6	KREINBERG	Sam	Review of the biology and management of large patch of warm-season turfgrasses
14AS-7	CRAWFORD	Samuel	Persistence and relocation of dislodgable herbicide residue from simulated rainfall following glyphosate treatment to dormant zoysiagrass turf
14AS-8	HALE	Suzannah	Nonsynthetic herbicides for turfgrass: optimizing performance of acid- and oil-based chemicals via sequential treatment to dormant turfgrass
14AS-9	JOSEPH	Mikerly	Evaluation of segmentation and semi-supervised learning for spotted spurge recognition in bermudagrass turf WITHDRAWN
14AS-10	MINAEV	Nikolay	Investigating the effects of preemergence herbicides on spring beauty (*Claytonia virginica*) growth in flowering turfgrass lawns
14AS-11	VUKOVIĆ	Vera	Effects of turfgrass canopy shade levels and quantum spectrum on the germination and development of smooth crabgrass (*Digitaria ischaemum*)

Mon 0900-1830	Poster Session Day 2 of 2 (odd # authors attend 1700-1830)	KAEDE
Mon 1200-1400	Lunch (conference registrants)	NAGANO&SAKURA

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

Mon 1400-1730 Session Moderators: KOO Daewon & ASKEW Shawn ASAMA E&F

14PM1-1	WALMSLEY William Herbicide mixtures to help slow resistance in three turfgrasses
14PM1-2	GIOL-CASANOVA Xavier Unraveling key environmental drivers and microbial biomarkers in the rhizosphere of mature golf course putting greens
14PM1-3	KOO Daewon A method to spatially assess multipass spray deposition patterns via UV fluorescence and weed population shifts
14PM1-4	SUZUKI Ryosuke The herbicidal efficacy of fenquinotrione against *Cyperus brevifolius* in turfgrass
14PM1-5	ASKEW Shawn Characterizing fluid delivery of targeted application devices for weed control
14PM1-6	PRITCHARD Ben Zoysia spp. putting green tolerance to postemergence herbicides
14PM1-7	ASKEW Shawn Nonsynthetic herbicides for turfgrass: Assessing frequency of consumer information and regional performance for annual bluegrass (*Poa annua* L.) control
14PM1-8	LOCH Donald Branding with marketing trademarks adds another layer of complexity to traditional botanical taxonomy and nomenclature
14PM1-9	MILLA-LEWIS Susana Maximizing genetic gains across agronomic and consumer preference traits in St. Augustinegrass breeding
14PM1-10	MILLA-LEWIS Susana Molecular analysis of St. Augustinegrass cultivar mixtures composition over time and latitude
14PM1-11	MILLA-LEWIS Susan Enhancing drought resistance in warm-season turfgrasses: Fourteen years of progress through a multi-state collaborative project across the Southern US

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

Symposium "The Future of Mowing"

Mon 1400-1730	Session Moderators: McELROY SCOTT	ASAMA C&D
Mon 1400-1405	McELROY Scott Opening remarks of session	14MOW-1
Mon 1405-1425	PATTON Aaron Why we mow: a review of the resulting ecosystem services and disservices from mowing turfgrass	14MOW-2
Mon 1425-1445	McELROY Scott Robotic mowing technology: Past, present, and future	14MOW-3
Mon 1445-1500	DEKURA Toshiaki Efforts to digitally transform (DX) golf course turfgrass management	14MOW-4
Mon 1500-1515	KIMURA Shoichi The effect of mowing frequency by unmanned autonomous mower	14MOW-5
Mon 1515-1545	Break	
Mon 1545-1600	AAMLID Trygve Switching from traditional to robotic mowing affects turfgrass quality and fertilization on golf course fairways	14MOW-6
Mon 1600-1615	SCIUSCO Giuliano The role of species and cultivar on Robot mowers cutting quality	14MOW-7
Mon 1615-1630	MACOLINO Stefano Comparing autonomous and conventional mowing: effects on Kentucky bluegrass quality and morphology	14MOW-8
Mon 1630-1645	BARNES Michael Cultivating connections: Turfgrass as a thriving social-ecological-technological	14MOW-9
Mon 1645-1700	Discussion (Session Chair: McELROY Scott)	

Graduate Student Oral Competition 2: Turfgrass physiology, breeding and management

Mon 1330-1745		Session Moderator: KOCH Paul	ASAMA A&B
14PS-1	FREUND	Daniel	Effect of mowing timing and clipping collection practices on azoxystrobin distribution, persistence, and efficacy

14PS-2	GAWRON	Katarzyna	Tropical signalgrass control in hybrid bermudagrass with glufosinate and imazapic tank-mixes
14PS-3	AREVALO	Fernanda	Management practices alter endophytic diazotrophic communities in CitraBlue St. Augustinegrass
14PS-4	McLOUGHLIN	Patrick	Risk of nutrient leaching following over-irrigation of two warm-season turfgrasses with recycled water
14PS-5	SIERRA	Alejandra	Bermudagrass fairway responses to various combinations of a soil surfactant and nitrogen
14PS-6	KAHIU	Maureen	*Poa annua* control in golf course putting green collars via fraise mowing
14PS-7	KYUM	Mohammed	Evaluating rooting vigor of two zoysiagrass cultivars using a simulated sod installation protocol
14PS-8	MacPHERSON	Eric	Creeping bentgrass cultivar responses to simulated foliar shade
14PS-9	GREEN	Will	Alternative cool-season turfgrass species for overseeding dormant bermudagrass
14PS-10	RABE	Michael	Mowing height and irrigation effects on above ground biomass production of *Schedonorus arundinaceus*
14PS-11	WILBER	Amy	An aerial imagery approach to differentiating bermudagrasses (*Cynodon* spp.) and zoysiagrass (*Zoysia japonica*) using dew retention patterns
14PS-12	SAPKOTA	Madan	Portable L-band radiometry for soil moisture mapping on golf course fairways: A calibration study with analysis of covariance regression in Texas
14PS-13	CARBAJAL	Esdras	Evaluation of centipedegrass [*Eremochloa ophiuroides* (Munro) Hack] lines in multi-environment trials in North Carolina
14PS-14	SEELAM	Ravi	Transcriptomic and metabolomic analysis reveal differentially expressed genes and metabolic pathways in bermudagrass under drought stress
14PS-15	PONGPIYA-PAIBOON	Sorawich	Diversity assessment of morphological and growth characteristics of zoysiagrass ecotypes in Japan using digital phenotyping

Mon 1730-1830	Odd-numbered poster presenters at their posters	KAEDE
Mon 1830	Take down posters (all)	KAEDE

Tuesday, July 15, 2025

Tues 0600-0900	Continental Breakfast (for Prince West Hotel Guests)	NAGANO&SAKURA
Tues 0630-1900	Registration	Atrium
Tues 0700-2000	Field Tours	Meet outside North Entrance to Prince West Hotel
Tues 1730-2000	All buses end at BBQ Party at Karuizawa Taliesin	
Tues 2000	Returning to Prince West Hotel West (10 minutes by bus transportation)	

Field Tours

Meet outside North Entrance to Prince West Hotel (see map)

All tours will end up for BBQ dinner at Karuizawa Taliesin at 1730-2000

More information on individual tour sites

Tues 0700-2000

- Bus No.1 0700 Karuizawa Prince → 0900 Kumagaya Rugby 1000 → 1130 Saitama Bonsai Museum (including Lunch) 1300 → 1340 Saitama Stadium 2OO2 1440 → 1740 Karuizawa Taliesin 2000
- Bus No.2 0700 Karuizawa Prince → 0930 Saitama Stadium 2OO2 1030 → 1130 Hidaka CC (including Lunch) 1300 → 1415 Tokyo Racetrack 1515
- Bus No.3 0700 Karuizawa Prince → 0930 Saitama Bonsai Museum 1030 → 1110 Saitama Stadium 2OO2 (including Lunch) 1240 →1400 Kumagaya Rugby 1500

Tues 0800-2000

- Bus No.4 0800 Karuizawa Prince → 1030 Saitama Stadium 2OO2 1130 → 1230 Hidaka CC (including Lunch) 1400 → 1445 Kawagoe City Museum 1600
- Bus No.5 Go to Bus No. 3 by 0700
- Bus No.6 Go to Bus No. 8 by 0900
- Bus No.7 0800 Karuizawa Prince → 0900 Asama Kogen CC 1000 → 1045 Sania Park Sugadaira 1145 → 1300 Lunch 1400 → 1415 Nagano U Stadium 1530

Tues 0900-2000

- Bus No.8 0900 Karuizawa Prince → 1030 Nagano U Stadium 1130 → 1230 Asama Kogen CC (Including Lunch) 1345 → 1500 Sania Park Sugadaira 1600

Tues 0830-2000

- Bus No.9 0830 Karuizawa Prince → 0915 Onioshidashi 1100 → 1100 Lunch 1230 → 1230 Zenko-ji 1545

Tues 1730-2000 **All buses end at BBQ Party at Karuizawa Taliesin**

Tues 2000 Start return to Prince West Hotel West (10 minutes by bus transportation.)

Wednesday, July 16, 2025

Wed 0630-0900	Continental Breakfast (for Prince West Hotel Guests)	NAGANO&SAKURA
Wed 0630-1900	Registration	Atrium
Wed 0800-1600	Speaker Preparation Room	AKASHIYA

Zoysiagrass Symposium

Wed 0900-1200	Session Moderator: WOODS Micah	ASAMA E&F
Wed 0900-0905	President: TONOGI Hideaki and Session Chair: WOODS Micah) Opening Remarks	16ZOY-1
Wed 0905-0920	WOOD Micah Zoysia use and characteristics in South, Southeast, and East Asia	16ZOY-2
Wed 0920-0935	TANAKA Satoru Zoysiagrasses (*Zoysia* spp.) and Japanese culture	16ZOY-3
Wed 0935-0950	McDANIEL Andrew Management of korai (*Zoysia matrella*) putting greens in Japan	16ZOY-4
Wed 0950-1005	CHANDRA Ambika (by Video) Development and use of zoysia putting green cultivars in the USA	16ZOY-5
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Wed 1025-1040	MILLA-LEWIS Susana Multi-location testing increases genetic gains for drought tolerance in	16ZOY-6
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Wed 1155-1200	Final Remarks (Session Chair: WOODS Micah)	

Oral Session 12: Turfgrass physiology and stress physiology

Wed 0900-1200	Session Moderators: RICHARDSON Mike & HUANG Bingru	ASAMA A&B
16AM1-1	JESPERSEN David Chlorophyll fluorescence characteristics of turfgrasses grown under shade trees	
16AM1-2	ZHANG Xunzhong Exogenous choline chloride improves heat and drought stress tolerance of creeping bentgrass	

16AM1-3	AOYAGI Taketo Physiological and transcriptional responses to Acibenzolar-S-methyl in creeping bentgrass
16AM1-4	ROSSI Stephenie Research advances in molecular mechanisms regulating heat tolerance in cool season turfgrasses
16AM1-5	RICHARDSON Mike Shade, height of cut, and plant growth regulator effects on bermudagrass and zoysiagrass putting greens
16AM1-6	SHIMADA Naohito Seasonal growth cycles of *Zoysia matrella* and *Agrostis stolonifera* putting greens in Japan
16AM1-7	UOZUMI Yasuyuki Growth responses of *Zoysia japonica* and four Japanese Zoysiagrass cultivars grown in drought and alkaline conditions
16AM1-8	WANG Kehua The regulatory role of microRNAs in turfgrass abiotic stress tolerance

Oral Session 13: Turfgrass water and nutrient management

Wed 0900-1200 Session Moderators: KOWALEWSKI Alec & AAMLID Trygve ASAMA C&D

16AM2-1	LEINAUER Bernd Accuracy of remote soil moisture sensing using Sentinel-1A Satellite
16AM2-2	SEVOSTIANOVA Elena Performance and recovery of turfgrasses irrigated with varying crops coefficients
16AM2-3	SEVOSTIANOVA Elena Acidification affects soil bicarbonate concentration, infiltration rate, and Kentucky bluegrass performance
16AM2-4	KOWALEWSKI Alec Irrigation rates and frequency affect tall fescue quality and weed encroachment
16AM2-5	CARR Tyler Water use and performance of Kentucky bluegrass influenced by cultivar, irrigation practices, and soil texture

16AM2-7	AAMLID Trygve Turf quality, growth rates, root development, and competition from annual bluegrass and moss as affected by seasonal fertilizer distribution on red fescue putting greens
16AM2-8	ACUÑA Alejandra Evaluation of equestrian eventing cross-country ground safety using field parameters: the case of Santiago 2023 Pan-American Games
16AM2-9	LYONS Eric Application of abscisic acid affects turf stand evapotranspiration and photosynthetic rates

Wed 1200-1400	Lunch (conference registrants)	NAGANO&SAKURA
Wed 1400-1730	ITS Quadrennial Business Meeting, Student Awards, Closing Ceremony	ASAMA E&F
Wed 1830-2100	Banquet (conference registrants)	NAGANO&SAKURA

Thursday, July 17, 2025

Thurs 0630-0900	Continental Breakfast (for Prince West Hotel Guests)	NAGANO&SAKURA
Thurs 0900-1130	Post-conference ITS Business meeting (by Invitation)	ASAMA B

POSTER PRESENTATIONS EXHIBIT HALL (KAEDE)

(JULY 13 & 14, 2025)

Place posters on the boards starting on Sunday morning (July 13), and take them down by Monday 1830 (July 14). Poster presenters should be present at their posters on Sunday 1700-1830 for even numbered posters, and on Monday 1700-1830 for odd-numbered posters. Posters need to be removed on Monday starting at 1830.

Num	Name		Poster Title
P-1	AAMLID	Trygve	Soil loss in Norwegian turfgrass sod production
P-2	AAMLID	Trygve	Optimal ratios between chewings fescue and slender creeping red fescue in seed blends for golf course putting greens
P-3	AAMLID	Trygve	Recovery of five cool-season turfgrasses following long-term ice encasement
P-4	AAMLID	Trygve	Screening of cool season turfgrass species and varieties for tolerance to simulated ice encasement
P-6	AAMLID	Trygve	An exploratory study of water and soil salinity on the Baltic coast of Sweden: a case study in the salinity tolerance of cool season grasses in Scandinavia
P-7	ABE	Kanae	Disease incidence trend of creeping bentgrass in Japan based on diagnosis results
P-8	ACUÑA	Alejandra	Using comparative data to assess soccer field performance in three different locations in Chile
P-9	ALDERTON	Stephen	Carbon sequestration in turfgrass: 20 years research
P-10	AMGAIN	Naba	Allelopathic potential of cool-season turfgrass species as an alternative management strategy for weed control
P-11	ANLAUF	Ruediger	Evaluation of a centrifuge quick test to determine the water retention parameters of turf rootzone materials
P-12	ASKEW	Whitnee	Impact of species selection on plant community, sod tensile strength, and translocation rooting of a pollinator-garden sod
P-13	BAE	Eunji	Nitrogen yield response model of zoysiagrass and Kentucky bluegrass for sod production
P-14	BAE	Eunji	Morphological characteristics of native zoysiagrasses (*Zoysia* spp.) in Korea

P-15	BAE	Eunji	Genetic diversity in Korea natural zoysiagrass (*Zoysia* spp.) based on inter-simple sequence (ISSR) analysis
P-16	BERO	Nicholas	Effect of biological additives to a putting green with low plant-available phosphorus
P-17	BOWMAN	Christian	Responses of new Bermudagrass genotypes to prolonged and recurrent drought
P-18	BRAITHWAITE	Emily	Identification of *Meloidogyne* spp. from cool-season golf course putting greens in the Pacific Northwest
P-19	CARBAJAL	Esdras	Evaluation of seeding versus sprigging as establishment methods for centipedegrass in North Carolina
P-20	CARPENTER	Matthew	Effect of post application irrigation timing on fungicide efficacy of dollar spot on golf putting greens
P-21	CARROLL	Mark	Comparison of TruFirm and Clegg impact hammer surface hardness on athletic fields
P-22	CASHBAUGH	Mariah	Evaluating the capabilities of artificial intelligence for interpretation and retrieval of research data stored in a repository
P-23	DaCOSTA	Michelle	Effects of cultivar, synthetic cover, and plant health products on creeping bentgrass establishment in early spring
P-24	DANT	Lukas	Insights from the development of TYMIRIUM Technology (cyclobutrifluram) as a nematicide for the turfgrass industry
P-25	DE LUCA	Michael	Control of early larval instars of annual bluegrass weevil in turfgrass with Isocycloseram, a new isoxazoline insecticide
P-26	ELMORE	Matthew	Bentgrass cultivar affects competitiveness in a *Poa annua* fairway
P-27	NOBUYUKI	Esaki	Improved mathematical models for turfgrass growth using actual data for low-cost turfing
P-28	ESPEVIG	Tatsiana	Development of immunoassay for detection of Microdochium fungi in grass
P-29	ESPEVIG	Tatsiana	Causal species for dollar spot disease of turfgrass in Europe
P-30	EVERS	Maurice	Validating a practical methodology for thatch - mat - soil distinction in turfgrass soils
P-31	FIDANZA	Michael	Effect of controlled-release nitrogen fertilizer on St. Augustinegrass during the summer fertilization prohibition period for lawns in Florida, USA

P-32	FIDANZA	Michael	Blend ratios and mixtures of brown patch susceptible and resistant tall fescue cultivars
P-33	FIDANZA	Michael	Evaluation of soil surfactant applications to turfgrass utilizing a transect method for monitoring soil moisture
P-34	FIDANZA	Michael	Evaluation of chewings fescue seed in divot repair mixes to achieve speedy recovery of a Kentucky bluegrass tee surface
P-35	FLOYD	Weston	Drought response of zoysiagrass with varying leaf texture under progressive deficit irrigation
P-36	FONTANIER	Charles	Effect of reduced irradiance on drought resistance of three turfgrasses
P-37	FUSHIMI	Akihide	Field burning in the mountainous agricultural areas of western Japan Rice field and levee
P-38	GAWRON	Katarzyna	Safety of Recognition®-based tank-mixes with fluazifop-P-butyl on selected St. Augustinegrass [*Stenotaphrum secundatum* (Walter) Kuntze] cultivars in Florida
P-39	GLEGOLA	Sandra	Cyclobutrifluram controls Pacific shoot-gall disease in annual bluegrass putting greens
P-40	HENSLER	Kevin	Tolerance of blue grama to herbicides used during establishment of low-input residential lawns
P-41	HINSON	John	Low-impact conversion of cool-season golf fairways
P-42	HOTTA	Keisuke	Occurrence of stem black rot on creeping bentgrass caused by *Candidacolonium* sp. in Japan
P-43	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
P-44	JESPERSEN	David	Ion specificity of salt glands in zoysiagrass under different exposures to sodium and potassium
P-45	JIA	Fang	Comparison of phytoremediation of pesticides by different turfgrass species
P-46	JORDAN	Katerina	Use of biosolids as a potential fertilizer for lawn turf
P-47	JOSEPH	Mikerly	Minimized-rate topramezone programs for goosegrass [*Eleusine indica* (L.) Gaertn.] control in Florida
P-48	KAHIU	Maureen	Phytotoxicity of commercially available demethylation-inhibiting fungicides when applied to annual bluegrass (*Poa annua*) and creeping bentgrass (*Agrostis stolonifera*) fairways

P-49	KAMINSKI	John	Efficacy of integrated cultural practices for dollar spot disease management on creeping bentgrass and bermudagrass
P-50	KENWORTHY	Kevin	Irrigation frequency requirements for sufficient warm-season species quality in Florida
P-51	KIKUKAWA	Hiroyuki	Measurement of carbon storage in schoolyard grass areas at elementary schools in Kobe, Japan
P-52	KIMURA	Shoichi	The growth of *Zoysia matrella* in a Japanese Golf Course Fairway: seven- year study
P-53	KOPP	Kelly	Nitrogen status of mixed clover and Kentucky bluegrass dicultures in a greenhouse setting
P-54	KYUM	Mohammed	The suitability of polyethylene glycol solutions for inducing drought symptoms in zoysiagrass
P-55	LI	Deying	Influence of systemic herbicides on tuber suppression of yellow nutsedge (*Cyperus esculentus*)
P-56	MacPHERSON	Eric	Inheritance of summer patch disease tolerance in hard fescue (*Festuca brevipila* Tracey)
P-57	MACOLINO	Stefano	Comparing autonomous and conventional mowing: effects on kentucky bluegrass quality and morphology
P-58	McELROY	Scott	Identification of quinclorac-resistant smooth crabgrass (*Digitaria ischaemum*) population in Alabama
P-59	McLOUGHLIN	Patrick	Evaluating warm-season turfgrass: Multispectral and red-green-blue index comparison
P-60	McNALLY	Brandon	Optimizing ethephon application timing for "Meyer" zoysiagrass seedhead suppression
P-61	MESSER	Zack	Evaluating athletic field cutting height and playability
P-62	MILLA-LEWIS	Susana	Integration of multi-omics approaches reveals candidate genes for drought stress in St. Augustinegrass (*Stenotaphrum secundatum*)
P-63	AMGAIN	Naba	Allelopathic potential of warm-season turfgrass species as an alternative management strategies for weed control
P-64	PEASE	Benjamin	Brown patch on tall fescue as influenced by nitrogen and fungicide applications
P-65	PETELEWICZ	Pawel	Combined impact of aerification, postemergence herbicides, and post-herbicide irrigation on goosegrass control in bermudagrass putting greens

P-66	SAKAGUCHI	Nana	Effect of soil-heating on growth of creeping bentgrass on shaded putting greens in winter
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PLANNING COMMITTEE FOR 15TH ITRC

Thanks to the following individuals who assisted with the planning and organization of the 15th 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.

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