

# International Turfgrass

## The Newsletter of the International Turfgrass Society

September 2011 Edition

### 1<sup>st</sup> Call for Papers - 12<sup>th</sup> International Turfgrass Conference in Beijing, China, 2013

by Dr. Mike Fidanza, Editor-in-Chief  
Pennsylvania State University, USA

The International Turfgrass Society announces the first call for papers to be presented at the 12<sup>th</sup> International Turfgrass Conference in Beijing, China from July 14-19, 2013. The conference will be held at the Beijing Friendship Hotel and Conference Center (<http://www.bjfriendshiphotel.com/english/>). Please complete the Title-Summary Form available at ([http://www.turfsociety.com/2011/itrc\\_2013\\_title-summary-form.doc](http://www.turfsociety.com/2011/itrc_2013_title-summary-form.doc)) and e-mail it to Mike Fidanza at [fidanza@psu.edu](mailto:fidanza@psu.edu). The title, summary, and choice of discipline area determine the appropriate Co-Editor who will be responsible for working with authors and reviewers. The Title-Summary forms will be acknowledged with further instructions to authors and instructions for corresponding with the assigned Co-Editor.

Time for oral presentations will be limited and strong consideration will be given to poster presentations. The final decision on oral presentations will be made by the program committee and if changed you will be notified. Check the International Turfgrass Society website (<http://www.turfsociety.com/>) for more details as they become available.

At least one author of each paper presented to the 12<sup>th</sup> ITRC must be a member in good standing of the International Turfgrass Society. The author cannot be the sole member on more than one paper submission. When papers are accepted, you will be required to sign-off assigning copyright to the ITS. This will allow the ITS to give the Turfgrass Information File at Michigan State University permission to make the journal available electronically 2 years after publication (i.e. in 2015 for Volume 12). This does not a transfer of copyright to MSU. See <http://www.turfsociety.com/> for information about on the International Turfgrass Society and membership.

Recently, most members of the board and ITS Officers met in July in Beijing for the mid-conference planning meetings. President Dr. Liebao Han of the Beijing Forestry University hosted the meeting for the purposes of reviewing the conference location, sessions, submission of papers, tours, etc. I think that everyone should be looking forward to an excellent and exciting meeting and event location. The 2013 conference website should be available soon so keep checking the ITS website ([www.turfsociety.com](http://www.turfsociety.com)) for updates. Also, note that now there is a new Paypal option to pay for your membership.

I hope you enjoy the very good articles in this edition. I encourage members of the Society to submit to me newsworthy information they would like to share with the membership in the future.

Sincerely,  
Nathan R. Walker

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- Membership application

| Timeline for RESEARCH, REVIEW, ISSUE, and CASE STUDY Manuscripts |  |
|--|--|
|--|--|

|              |  |
|--------------|--|
| 1 Sep 2011   | First call for papers.   |
| 1 Nov 2011   | Preliminary deadline for receipt of TITLE-SUMMARY FORM to help set conference program. |
| 1 Feb 2012   | LAST DATE for receipt of TITLE-SUMMARY FORM.   |
| 1 March 2012 | Preliminary deadline for receipt of first draft of research manuscript.                |
| 1 May 2012   | LAST DATE for receipt of first draft of research manuscript.                           |
| 1 July 2012  | REVIEW of first draft of research manuscript completed.                                |
| 1 Sep 2012   | LAST DATE for receipt of revised draft of research manuscript (if necessary).          |
| 1 Nov 2012   | REVIEW of revised draft of research manuscript completed.                              |
| 1 Feb 2013   | LAST DATE for receipt of final version and correctly formatted research manuscript.    |

| Timeline for SHORT COMMUNICATION Manuscripts |  |
|--|--|
|--|--|

|            |  |
|------------|--|
| 1 Sep 2012 | LAST DATE for receipt of short communication manuscript.                                       |
| 1 Nov 2012 | REVIEW of first draft of short communication manuscript completed.                             |
| 1 Feb 2013 | LAST DATE for receipt of final version and correctly formatted short communication manuscript. |

Publication of International Turfgrass Society Research Journal, volume 12,  
by the XIIth International Turfgrass Research Conference, Beijing, China, in July 2013



Participants at the 2011 ITS mid-term board meeting in Beijing, China

Front row (left to right): Shuxia Yin, Don Loch, Richard Gibbs, Tom Hsiang, Maria Strandberg, Liebao Han, Nathan Walker, and Shoichi Kimura. Back row (left to right): John Cisar, Bruce Clarke, Tom Fidanza, Otto Weilenmann, Alex Richter, James Murphy, Deying Li, and Zhaolong Wang



## Multifunctional golf facilities – an underutilised resource

by Dr. Maria Strandberg  
STERF Director, Sweden

Multifunctional golf courses are beneficial for society and for golf. Golf courses have several roles to play in addition to providing playing surfaces for golf. Considering golf from an outsider's perspective, it can be seen that golf courses can provide a wide range of services that should be exploited, promoted and developed.

During 2010, STERF (Scandinavian Turfgrass and Environment Research Foundation), which is the joint research and development body of the Nordic golf federations, carried out the project 'Multifunctional golf courses – an under utilised resource'. The aim was to create networks and exchanges of experiences between experts and groups in society with an interest in the land areas used by golf courses. The project also aimed to ensure that knowledge and tried and tested experiences

utilised resource'. The aim was to create networks and exchanges of experiences between experts and groups in society with an interest in the land areas used by golf courses. The project also aimed to ensure that knowledge and tried and tested experiences from various STERF research projects are used to a greater degree by official bodies and organisations outside the golf sector. An important outcome of the project is a guidebook, which we hope will inspire multi-functional activities. The project was initiated and funded by the Nordic council of ministers.

Golf courses include large areas of land that are not used for the game and, in addition, the clubhouse often stands empty during the winter months. There is thus huge potential for better use of the land in order to provide new



The guide 'Multifunctional Golf Courses – An Unutilised Resource' can be downloaded at [sterf.golf.se](http://sterf.golf.se)

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The golf course is an environment where biotopes such as dead wood can provide threatened species with new habitats. Kristianstad Golf Club, Sweden

opportunities for active outdoor life, particularly in the vicinity of towns and cities. For golf courses the multifunctional approach is profitable. It provides opportunities for additional streams of income, deeper roots in society through work on sustainable development, better collaboration and in many cases shared costs with the authorities, environmental and recreational organisations and other sports clubs, a better public image and greater political support.

*Continued on next page*

A multifunctional golf course views its activities from the perspective of the broader public. In addition to offering a high quality arena for golf, it provides various services that are beneficial to the society at large, for example increasing biological diversity, conserving natural and cultural environments and providing a venue for a wider range of outdoor activities. The authorities in the Nordic countries are requesting this type of establishment, which can contribute to the achievement of Nordic and national environmental targets and help improve people's health and quality of life, especially in areas surrounding dense conurbations, where there are many golf courses.



At Arendal & Omegn Golf Club in Norway the local skiing club is responsible for making and maintaining cross-country tracks.

Nordic golf courses. The guide can be downloaded at [sterf.golf.se](http://sterf.golf.se)

Through utilising joint Nordic expertise, the Nordic area can become a model region as regards multifunctional golf courses and collaborations between different interests in society. This means that the Nordic region can become a driver in the international arena for the integration of sport, health and the environment.

In the next phase of the project we aim to increase the benefits of golf to society, help maintain the values of ecosystem services and improve the business gains from multifunctional activities

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Kjölur Golf Club in Iceland was able to build on neighbouring land thanks to good cooperation between all parties and actors interested in using the area.



Traces of human activity indicate how people lived and worked in the distant past.

Collapsed burial mound from the Bronze Age at Smørum Golf Centre, Denmark.

In order for efforts to create a multifunctional golf course to succeed, there is a need for good, effective cooperation in which all parties stand to gain. The cooperation must be adapted to the requirements and the specific challenges facing golf and other interests in the region. It must also be transdisciplinary, in other words encompassing a range of interests such as local authorities, national authorities, sports and recreation groups, landowners, residents, industry and others.

In the guide 'Multifunctional Golf Courses – An Unutilised Resource', which has been sent to more than 1 000 politicians, civil servants and officials in the Nordic countries, we define the concept of the multifunctional golf course, describe the most significant processes for multifunctionality and present examples of good practice from seven



through:

- Arranging workshops with representatives of golf courses in order to identify opportunities and challenges for multifunctionality.
- Arranging collaborative meetings with representatives of different interests in society, for example research institutes, local authorities, environmental and outdoor recreation organisations and other sports clubs and societies, in order to identify needs and ideas regarding multifunctionality.
- Carrying out an inventory of current knowledge with the aim of exploiting knowledge and experiences from related areas, for example within nature resource conservation.
- Identifying important partners to jointly initiate and run R&D on multifunctional courses.
- Creating a research and development programme within multifunctional golf facilities.

## **2011 Rugby World Cup in New Zealand**

by Dr. Richard Gibbs

Sports Surface Consultant, Sports Surface Design & Management  
Auckland, New Zealand

Many of you will know that just after the publication of the last ITS Newsletter, there was a second major earthquake in Christchurch which caused widespread destruction and loss of life. Over 180 people were killed, making the earthquake one of the worst natural disasters recorded in New Zealand. Many crucial landmarks were also badly damaged in the city including the famous Christchurch Cathedral, the Christchurch Convention Centre (where we had hoped to hold our 2011 NZ Turf Conference and Trade Show) and the AMI Stadium where seven games were due to be held as part of the 2011 Rugby World Cup. With no chance of the AMI Stadium being repaired, its games were transferred to other stadiums around the country.

With the Rugby World Cup now less than one month away, the pressure is on to get the stadiums ready for the tournament – not made any easier by an atrocious winter polar blast currently sweeping the country – it has even snowed in Auckland for the first time since 1939! One stadium not too worried about the weather is the new permanently-roofed stadium in Dunedin (mentioned in the last newsletter). This stadium has now been completed and is going through some trial events prior to the World Cup. Reaction to the new stadium has been very favourable and we look forward to showcasing this stadium to the world.



The ultimate test of a new turfgrass surface: the All Blacks carrying out scrum practice during a rugby training session at the Forsyth Barr Stadium in Dunedin, New Zealand



## 2nd European Turfgrass Society Field Days

by Simone Magni  
CeRTES, University of Pisa, Italy

On 11 and 12 April 2011, Ghent University (Belgium) hosted the 2nd ETS Field Days. This was the fourth event of a successful sequence started in Pisa (Italy) with the 2008 Conference followed by the Field Days held in 2007 in Valencia (Spain) and the Conference held in 2009 in Angers (France).

A hundred participants coming from 16 countries (Belgium, Netherlands, France, Switzerland, Italy, Spain, Greece, Czech Republic, UK, Austria, Sweden, Norway, Denmark, Germany, Australia, and USA) attended this year.

During day one, the convener, Prof. Donald Gabriels from Ghent University, gave a presentation entitled “Physical and mechanical characteristics of top layers of turf sport fields: test and experiments. Towards European Standardization” in which some important aspects of sports surfaces were analysed and the results of a field trial carried out at Ghent University on topsoil composition were described.



Prof. Donald Gabriels

In following presentations interesting issues and innovations relevant to the turfgrass industry and research were reported among which the description and the potential for application of an electro-magnetic device used for non-invasive prospection for soil profile mapping, an innovative rapid detection system for disease diagnosis based on DNA analysis and a set of instruments suitable for the objective measurement



Ghent city centre.

of performances of natural grass sports surfaces.

A further interesting contribution reported the different challenges encountered in the delivery of the playing surfaces – stadium pitches and training grounds – for the 2010 Soccer World Cup in South Africa.

In accordance with the mission of the Society, presentations coming from companies were also included in the program and new trends about soil conditioners, rootzone mixes, wetting agents, slow release fertilizers, sod production for sports surfaces and innovation in machinery were provided to the audience through short communications.

Day two was dedicated to field visits. Experimental trials run by Ghent University were shown to participants along with some of the instruments presented the previous day. Simulated measurements were also performed on plots.

The Stadium of KAA Ghent Football Team was the second stop of the field tour and a perfect place where to discuss the benefits of a subsoil heating system associated with the artificial light application: both systems are in fact installed on that pitch and sharing the experience of the maintenance crew was of great interest to all the participants.

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KAA Ghent Football Team Stadium.

The Royal Golf Club Saint Martens Latem was the last site visited and golf course maintenance was discussed during a pleasant walk through the holes surrounded by blooming trees. The club house hosted the closing ceremony of the ETS Field Days and, before a farewell drink concluded the day, convener Dr. Donald Gabriels and ETS president Marco Volterrani gave their warmest thanks to all attendants for their participation.

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Besides the technical aspects of the event, attendants were also given the possibility to discover the history and the beauty of the ancient city centre by joining a guided tour provided by the organizing committee while the night was dedicated to experience the emotion of having a dinner in an old monastery church... converted in a restaurant!

As approved during the General assembly of ETS members, the next event of the Society will be held in Norway in 2012. With this aim Trygve Aamlid from Bioforsk, presented a slide show to describe the points of interest and the facilities that could attract participant to join the Conference in Norway.

Presentations given during the field days available at: <http://www.etsfielddays2011.ugent.be>



Trygve Aamlid presenting Norway as venue for the 2012 ETS Conference.

**Celebration in Scandinavia**  
**Doctoral defense in STERF-funded project**  
by Dr. Trygve S. Aamlid, Bioforsk Turfgrass Research Leader, Norway

On 4 April 2011, Tatsiana (Tanja) Espevig defended her thesis entitled 'Winter hardiness and management of velvet bentgrass (*Agrostis canina*) in the Nordic climate'. The defense was held at The Norwegian University of Life Science (UMB) where Espevig has been enrolled as a Ph.D. student since 2007. Her supervisors were Dr. Anne-Marte Tronsmo and Dr. Arne Tronsmo from UMB, Dr. Bingru Huang from Rutgers University, USA, and Dr. Trygve S. Aamlid from Bioforsk (Norwegian Institute of Agricultural and Environmental Research). Opponents were Dr. Jim Murphy from Rutgers University, USA, and Dr. Birte Boelt from Århus University, Denmark.



Tanja Espevig with her supervisors and opponents just after the defence on 4 April 2011. From left: Drs. Jim Murphy, Trygve S. Aamlid, Bingru Huang, Arne Tronsmo, Tanja Espevig, Anne-Marte Tronsmo and Øystein Johnsen (UMB Head of Department).  
Photo: Agnar Kvalbein.

Tanja Espevig was born in Riga, Latvia, in 1976. She grew mostly up in Minsk, Belarus where she received from the Belarussian State Pedagogical Maxim Tank University a M.Sc. in 1999 and the degree 'Candidate of Agricultural Science' in plant pathology in 2002. In 2004, the latter was confirmed by the Norwegian Department of Education as equivalent to a Ph.D. implying that Tanja is now one of very few (only ?) turfgrass scientists holding two Ph.D. certificates.

The Scandinavian velvet bentgrass project (2007-2011) has produced many new insights into velvet bentgrass winter survival and also ready to use results for how to prevent redundant accumulation of thatch when growing this underutilized species on golf course putting greens. Most of these results were discussed during STERF's International Velvet bentgrass seminar in Finland in June 2010 (see article in 2010 issue of ITS newsletter). Tanja's thesis is made up of five papers of which one is already published and the second conditionally accepted by Crop Science, USA. The entire thesis is available at <http://sterf.golf.se> and [www.bioforsk.no/turfgrass](http://www.bioforsk.no/turfgrass). The velvet bentgrass project was funded by the Scandinavian Turfgrass and Environment Research Foundation (STERF) and the Research Council of Norway (REC).

As leader of the Bioforsk Turfgrass Research Group, I am proud to announce that Tanja has now got a permanent position in our group, working at the Bioforsk Turfgrass Research Center at Landvik, Norway. For the next three years, she will be leading the new STERF/REC project 'Better turfgrass survival in a changing winter climate', which also has collaborators in USA and Canada. Tanja has also started a diagnostic laboratory for turfgrass diseases.



## **New and Improved: ITS Website has a new home**

By Dr. Tom Hsiang, Website Editor,  
University of Guelph, Canada

Since Fall, 2010, we have been working on moving the ITS Website from its old home at the Guelph Turfgrass Institute, which was hosted by the University of Guelph servers to a new Internet Service Provider. The ITS website now has a new home at: [www.turfsociety.com](http://www.turfsociety.com)

Some of the streamlined features include a members only area which is accessed by a general logon and password. This is a general password, provided upon membership payment, and not specific to each member, so members should keep this information to ITS membership. This area allows free access for ITS members to the Michigan State University TGIF (Turfgrass Information File) which is a searchable bibliographic database of turfgrass related publications, both peer-reviewed and industry oriented. Articles from issues of the ITRJ (our official

peer-reviewed conference proceedings) are posted at the TGIF site where authors have given permission for the release.

Another feature which has been implemented is online membership registration/renewal and online payment of membership fees for the 2010-2013 cycle. We are using the PayPal system which allows for payment by credit card or from your own PayPal account. It is still possible to register/renew by filling out paper forms and paying by check, but we encourage you to register online at <http://www.turfsociety.com/membership/form.php>

If you have suggestions for revisions or additions to the website, please don't hesitate to contact me at [thsiang@uoguelph.ca](mailto:thsiang@uoguelph.ca).

## **Third European Turfgrass Conference to be held in Kristiansand, Norway 24-26 June 2012**

By Trygve S. Aamlid, Bioforsk Turfgrass Research Leader, Norway

On behalf of the Bioforsk Turfgrass Research Group, it is a pleasure to welcome not only the European, but also the International turfgrass community to the third ETS conference. The overall theme of the conference is 'Quality turf and efficient resource utilization'.

The international turfgrass community is invited to submit papers for oral or poster presentations at the conference. As at previous ETS conferences in Pisa (2008) and Angers (2010), proceedings with 2 page extended abstracts will be printed before the conference and included in the conference registration fee. For those wanting to submit a scientific paper for publication in a peer-reviewed journal, a special issue of Acta Agriculturae Scandinavica, Section B Plant & Soil Science, has been assigned to the conference, allowing a maximum of 25 scientific articles of up to 8 printed pages with no additional author charges. Like the proceedings, this special issue will also be printed before the conference and a copy included in the registration fee.

The 15 Sep. is coming up very rapidly, so please don't hesitate !

Please note the following time table:

15 Sep. 2011: Submission of short (1/2 page abstracts) to Alessandra Zuin, [alessandrazuin@yahoo.it](mailto:alessandrazuin@yahoo.it). Please indicate if you want to publish a scientific article or just a 2 page extended abstract, and if you prefer oral or poster presentation at the conference.

1 Nov. 2011: Response to authors with acceptance/rejection and instructions for where to publish.

20 Dec. 2011: Submission of scientific paper (up to 8 pages) on-line to Acta Agriculturae Scandinavica.

15 Jan. 2012: Submission of extended abstract (2 p) to Alessandra Zuin

20 Dec. 2011 - 1 April 2012: Review process

1 April: Final submission of revised manuscripts

Please visit [www.turfgrasssociety.eu](http://www.turfgrasssociety.eu) for more details.

I look forward to seeing you in Norway in June 2012 !

## Recent News from Austria and Nearby Regions

By Alexander Richter,  
Richter - Rasen, Vienna, Austria

A new publication for 2011: 'Development and Status of Turfgrass Research in Germany and Austria' was recently released. This was based on my idea to put together a 'History of European Turfgrass Science' under the European Turfgrass Society umbrella! The beginning work was started at an initial meeting on July 17<sup>th</sup>, 2009 in a meeting room of the DFB (German Football Association). In attendance at this meeting were ITS members Dr. Sven-Ove Dahlsson from Sweden, Prof. Dr. Werner Skirde from Germany, Ing. Henk Kamp from the Netherlands, and Dr. Paul Baader from Germany with financial support from Fördererkreis Giessen e.V.! As a result a new publication about the history of turfgrass science in Germany and Austria was published and presented at the annual meeting of Förderkreis Giessen e.V. in Langlau near Nuremberg, Germany on June 30<sup>st</sup>, 2011.



Sod strength test on *Zoysia japonica*, which was grown on RICHTER TURF FARM in Slovakia in central Europe!

Dr. Jörg Morhard, Prof. Dr. W. Skirde and Alex Richter on photo



Development and Status of Turfgrass Research in Germany and Austria' was recently released.

Unfortunately, the data of Dr. Dahlsson and Henk Kamp (both co-organizers of 'Intl. Rasen colloquium' meetings from late 1960's through 2004 couldn't be published just yet. Hopefully, ETS will proceed with this work for the whole Europe!

In the same meeting of Fördererkreis Giessen e.V., presented a new test unit for SOD STRENGTH by Dr. Jörg Morhard, University of Hohenheim, Germany. In another talk, Dipl. Ing. Barbara Holzinger, BOKU, University Vienna Austria presented her data about a study on shear tolerance on 6 soccer fields in Germany.



Photo of DI Barbara Holzingers talk with BOKU Univ. of Vienna (Agr. Univ) about shear tolerance.

The RICHTER RASEN company Austria/Slovakia has been approved as turf supplier for next years UEFA EURO 2012 in Poland and Ukraine. Games will be held in 3 main stadiums in Kiev, Donetsk, and Lviv Ukraine will be played on RICHTER STADIUM TURF. Major tests for shear tolerance, rebounds, and sod strength etc. will be week done by Christian Spring and Andy Cole both STRI, Bingley,UK.

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Dr. Jörg Morhard, University of Hohenheim Germany has measured 1700 Newton (170 kg) on a 40mm thick cut RICHTER STADIUM TURF SR (strong rhizomical) which is appr 75% *Poa pratensis* and 25% *lolium perenne*)



First tests on RICHTER STADIUM THICK CUT sod being done by Eng. Richard Hayden STRI and Clive Richardson. Further tests with proper equipment will follow on same turf field in Slovakia processed by Christian Spring and Andy Cole both STRI. This turf will be used for final game stadium of UEFA EURO 2012 in Kiew, Ukraine.



STRI testing on RICHTER STADIUM TURF to be used at the Kiev stadium, the final venue EURO 2012



Turf shear tolerance strength test on RICHTER STADIUM TURF  
Pictured (left to right) Stano Verchola, Alex Richter, Hermann Richter, Andy Cole, and Christian Spring

## Turf words in Chinese

|     |   |
|-----|---|
| 北京  | Beijing (Beijing)                             |
| 结缕草 | Zoysiagrass (Jielucao) ( <i>Zoysia</i> sp.)   |
| 农药  | Herbicide (Nongyao)                           |
| 球道  | Fairway (Qiudao)                              |
| 蛴螬  | White grub (Jicao) (Coleoptera: Scarabaeidae) |

## ITS Treasurer's Report (Mid-Conference Meeting, Beijing, China, 11 July 2011)

By John Cisar, ITS Treasurer,  
University of Florida, Fort Lauderdale, USA

As of 1 July 2011, there were a total of 60 ITS new (12) and renewing (48) memberships for the 2010-2013 four-year membership cycle. There were no sustaining memberships reported for the period. Fifteen countries are represented by membership. The vast majority of memberships paid by check and American Express. A new method of payment using a PayPal button will be available to those wishing to pay online <http://www.turfsociety.com/membership/form.php>. The PayPal system accepts a vast array of credit card options including American Express, Visa, Mastercard, and Discovery. In addition, check, wire and cash payments will continue to be accepted. Those choosing to pay via the convenient PayPal option will still be required to complete the ITS membership form and send to the Treasurer for record-keeping purposes.

The membership dues for the 2010-2013 period (which covers membership through the 2013 Conference remains at \$300 USD) for regular membership and \$1,000 USD for Sustaining Members. A special student category of \$150 USD is available for students and those choosing this option require a letter from their major faculty advisor confirming student status at the time of payment. Membership in ITS is required for publishing in the journal, entitles the member to a copy of the 12th ITS Research Journal, and provides for significantly discounted registration rates at the 12th ITRC in Beijing, China.

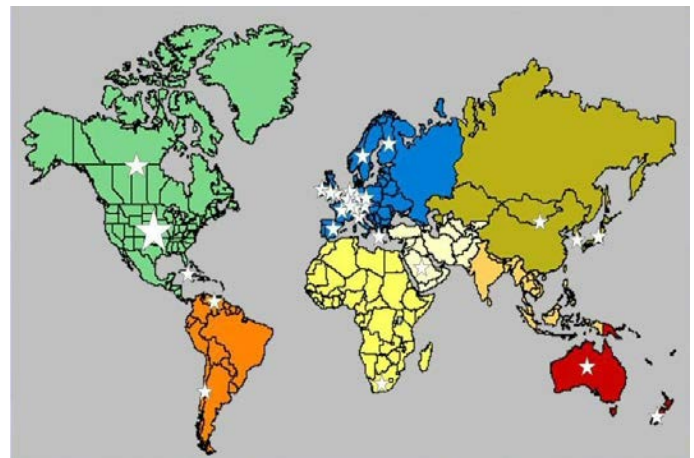
Treasury assets as of 1 July 2011 totaled \$236,767.05 up from 213,815.04 at the end of the 11th ITRC Conference in 2009. The asset increase in value reflects membership dues, earned interest from accounts, and residual funds (\$2,147.33 USD) sent by former President Carol Muller, Chile on behalf of the 11th ITRC. A special thanks is extended to President Muller for his efforts on ITS's behalf. Thanks are offered to Dr. Erik Ervin, VPI, for maintaining the book collection/sales of ITS, and to Ms. Karen Williams, Senior Biologist, University of Florida, for support of the Treasurers activities.

| Number                | 1994<br>- 1997 | 1998<br>- 2001 | 2003<br>- 2005 | 2006<br>- 2009 | 2010<br>- 2013 |
|-----------------------|----------------|----------------|----------------|----------------|----------------|
| Countries represented | 21             | 26             | 27             | 19             | 15             |
| Members               | 198            | 288            | 257            | 197            | 60             |

ITS membership and countries represented.

| Representation           | 1998<br>- 2001 | 2003<br>- 2005 | 2006<br>- 2009 | 2010<br>- 2013 |
|--------------------------|----------------|----------------|----------------|----------------|
| Companies                | 90             | 77             | 40             | 20             |
| Universities or Colleges | 66             | 57             | 56             | 33             |
| Governments              | 0              | 3              | 3              | 0              |
| Turf/golf assoc.         |                |                | 6              | 7              |

ITS membership demographics.



ITS membership by regions.  
Star size reflect relative membership



INTERNATIONAL TURFGRASS SOCIETY  
MEMBERSHIP/PAYMENT OF DUES



Please Print Clearly:

Name: \_\_\_\_\_ Affiliation: \_\_\_\_\_

Address: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_

Postal Code: \_\_\_\_\_

Country: \_\_\_\_\_

Phone: \_\_\_\_\_ Fax: \_\_\_\_\_

E-Mail: \_\_\_\_\_

PLEASE CHECK MEMBERSHIP TYPE DESIRED:

☐ Regular Membership Fee (2010-2013)      \$300.00 USD

☐ Sustaining Membership Fee (2010-2013)      \$1000.00 USD

☐ Student Membership Fee (2010-2013)      \$150.00 USD\*

PLEASE INDICATE METHOD OF PAYMENT:

☐ Check\*\*      ☐ PayPal

☐ Bank Wire Transfer, please contact [jlci@ufl.edu](mailto:jlci@ufl.edu) for instructions & account information

\* Student member must have confirmation letter from major faculty advisor.

\*\* To avoid heavy collection fees, only checks from U.S. affiliated banks will be accepted.

Please make check payable to: *International Turfgrass Society*.

MAIL OR FAX THIS COMPLETED FORM, ALONG WITH 1) YOUR CHECK OR 2) YOUR PAYPAL INFORMATION OR 3) THE WIRE TRANSFER INFORMATION TO:

Dr. John Cisar, Treasurer, International Turfgrass Society  
c/o University of Florida, FLREC,  
3205 College Avenue,  
Fort Lauderdale, FL 33314-7799  
USA

Fax: +954 475 4125

Email: [jlci@ufl.edu](mailto:jlci@ufl.edu)

INVOICE AND ORDER FORM for INTERNATIONAL  
TURFGRASS SOCIETY PROCEEDINGS AND  
JOURNAL



Please Print Clearly:

Name: \_\_\_\_\_ Affiliation: \_\_\_\_\_

Address: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_

Postal Code: \_\_\_\_\_

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Phone: \_\_\_\_\_ Fax: \_\_\_\_\_

E-Mail: \_\_\_\_\_

**Volumes 1-8 are now free to Members; shipping costs of \$30-60 must be paid, however.**

|   |  |                     |          |  |
|---|--|---------------------|----------|--|
|   | 1st Proceedings 1969 England                             | \$ 0.00             | \$ 15.00 |  |
|   | 2nd Proceedings 1973 Virginia, USA                       | Out of Print        |          |  |
|   | 3rd Proceedings 1977 West Germany                        | Out of Print        |          |  |
|   | 4th Proceedings 1981 Guelph, Canada                      | 0.00                | 30.00    |  |
|   | 5th Proceedings 1985 France                              | 0.00                | 45.00    |  |
|   | 6th Proceedings 1989 Japan                               | 0.00                | 55.00    |  |
|   | 7th Journal 1993 Florida, USA                            | 0.00                | 65.00    |  |
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