



2013

NETHERLANDS

ISTH

# THE MOST IMPORTANT EVENT

for the Advancement of Thrombosis & Haemostasis Research

*Dear Colleagues and Friends ... It is my distinct privilege to extend to you a warm welcome to Amsterdam, a beautiful city with rich cultural heritage, diverse and creative culture, and a long and prestigious history of seminal scientific discoveries. Amsterdam is a perfect location to bring together researchers, scientists, clinicians and allied health professionals from across the globe in the spirit of collaboration, discussion and the translation of science.*

Our biennial ISTH Congress is the most important event for the advancement of thrombosis and haemostasis and I hope that you are participating. As a global organization, it is critically important for us to not only welcome participants from all over the world at our scientific gatherings, but that the ISTH holds its congresses in different parts of the world to allow for more access. In the past ten years, our congresses brought leading experts together in Kyoto, Japan; Boston, USA; Geneva, Switzerland; Sydney, Australia; and, Birmingham, UK. With our breadth of international experience, we come together to exchange the latest developments in clinical medicine and basic science and discuss the newest clinical applications designed to improve patient care.

While our scientific congresses are an important aspect of our Society, they are only one program that the ISTH convenes to move our field forward. The others are equally important and include the publication of the leading journal in our field, *JTH*, the setting of standards and nomenclature through our Scientific and Standardization Committee (SSC), our increased focus on online learning, fostering of the next generation of leaders and allowing colleagues from resource-poor countries to be part of the global community, among others.

The ISTH is grateful to the Congress Presidents, Frits Rosendaal and Pieter Reitsma, and their exceptional Local Organizing Committee, for putting together an outstanding 2013 Congress of the ISTH, which will undoubtedly set new standards.

While the 2013 Congress includes an impressive lineup of educational sessions, poster and oral communications, state-of-the-art lectures, exhibits and networking, it will also highlight an exciting change for the Society, the unveiling of its new, revitalized brand and logo symbolizing the future direction of our organization. Make sure that you attend the Opening Ceremony and stop by the ISTH booth, #500, to learn more about the Society's new direction! Alternatively, if you will not be joining us in Amsterdam, please closely watch our website and social media channels.

I highly recommend that you immerse yourself in important scientific discourse and build significant relationships with other experts in the field of bleeding and clotting disorders. If you cannot attend, we will make webcasts available of some of the most important sessions shortly after the Congress. I look forward to seeing you in Amsterdam!

**Michael Berndt**  
Chairman of Council, ISTH



E-NEWSLETTER  
JUNE 2013

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VISIT THE ISTH BOOTH AT #500 IN THE RAI CENTRE EXHIBITION HALL!

[www.isth.org](http://www.isth.org)

# Frits Rosendaal Shares Important Congress Highlights

## Frits Rosendaal (ISTH 2013 Meeting President):

At the beginning and end of the Congress, we will feature speakers with views on science that are a bit broader than the field of thrombosis and haemostasis. On Saturday, during the educational programme, two professional observers of science will give their views. One of the speakers is Ton van Raan, who developed a system of standardized citation scores that became the method to quantify scientific impact. He will present an analysis of the impact of research in thrombosis and haemostasis amongst all fields of life sciences research, with a focus on subfields and geography. The other is Hans van Maanen, a science journalist and winner of the Van Walree award of the Netherlands Academy of Arts and Sciences, despite his weekly deeply critical contributions to the national newspapers in which he examines claims in scientific publications. Ton van Raan will speak about, "Cited and Be Damned: The View of a Science Impact Scientist," while the presentation of Hans van Maanen is titled, "From Silliness to Fraud: The View of a Science Journalist."

The President's Symposium on Thursday, after a week of in depth thrombosis and haemostasis science, will again offer a somewhat broader view, with three presentations that have evolution as their central theme, with three world-renowned speakers. The first is Miguel Hernan, from the Harvard School of Public Health, who has made seminal contributions to causal inference in medical research, in particular related to the use of causal diagrams to conceptualize research questions and the application of novel methods for estimating the effect of sustained interventions. He will talk about the evolution of causal inference as a process that explains paradoxes and replaces them with sound causal reasoning. The second is Armand Leroi, from Imperial College in London. He applied darwinistic rules to composing music, which was published in PNAS. He will demonstrate how the general rules of evolution can be applied to a cultural expression that is usually not seen as biologic: the survival of the funkiest. The third speaker is Frans de Waal, from Emory University, who achieved world fame in the 1970s when, still working in the Netherlands, he observed a chimpanzee colony for several years and published

their power games in the bestseller "Chimpanzee Politics" that has often been likened to "Machiavelli's Il Principe." This book set the stage for a revolution in our understanding of animal cognition, especially tendencies underlying conflict resolution, cooperation, and empathy. His recent books treat the evolution of morality. He will talk about the evolution of helping behavior and the sense of fairness, showing studies and videos of non-human primates that are strangely moving and make us think about ourselves and our society.



## Scientific Discovery, Engaging Dialogue and an Exciting Announcement

The XXIV Congress arrives in Amsterdam, a beautiful postcard city, at a perfect time to participate in scientific discovery, engaging dialogue and to hear an exciting Society announcement at its opening ceremony on June 30.

With the recent flurry of teasers via email and online, you may have guessed that the ISTH is undergoing an exciting change, one that will be announced by the ISTH Council Chair Michael Berndt at ISTH 2013. After embarking on a comprehensive journey to enhance our impact as a Society and with the help of countless organizational ambassadors, members, partners and friends who shared their comments, thoughts and visions for the organization, we are pleased to share a very special announcement that will build momentum and propel the future of the ISTH. While we are very excited and wish we could share the news with you today, we simply cannot! The best way to learn more about our announcement firsthand is to join us in Amsterdam for the Congress. If you're

unable to attend, join us online via our Website and social media channels.

In addition to attending the Congress, if you plan to tour the city, there is much to do! In the culturally-energizing city of Amsterdam, you can rediscover world-class art, learn how to eat herring, shop at Amsterdam's trendiest stores, lose yourself in a maze of canals and discover the city's secret garden. With 16 hours of daylight in July, you can fill your days and nights with great activities. For tour information, visit [iamsterdam.com](http://iamsterdam.com).

For more interesting information, click through our quick links below!

### QUICK LINKS

- To print out a copy of the Congress Programme, [click here!](#)
- To access a list of the Sponsored Symposia, [click here!](#)
- Curious about how e-posters work? [Click here!](#)

- Interested in attending the Congress Party? [Watch the preview and register!](#)
- Are you on Twitter? [Connect with us](#) and use our hashtag #ISTH2013.
- Did you know that the Rijksmuseum has reopened? It is a must-see while in town. [Click here](#) for more information.
- Learn more about Amsterdam at [iamsterdam.com](http://iamsterdam.com).
- Need help packing? [Click here](#).



Your Invitation to Attend the Opening Ceremony of ISTH 2013

Sunday, June 30, 2013  
7 p.m. at the RAI Centre  
in Amsterdam



## ISTH 2013 Mobile App Coming Soon!

The ISTH 2013 Congress will feature a mobile app for attendees. The App will allow attendees to view the programme, abstracts and more. The Congress organizers are excited to provide this platform to attendees, and hope that all attendees will download it for themselves. The mobile app will be available via Apple and Google stores. Simply search "ISTH 2013."

Information on the meeting app can be found onsite at the Registration Desk and in the Exhibition Hall.



## Congress Webcasts

Stay tuned after the Congress for a selection of webcasted sessions from the 2013 Congress. They will be available to ISTH members and meeting attendees.

To view the webcasts, ISTH members can log-in on the [ISTH homepage](#) and click the webcast link. Congress attendees will be emailed their login credentials. Webcasts can be downloaded or streamed on your computer.

*Be sure to take advantage of previous meeting webcasts (from SSC 2012 in Liverpool, ISTH 2011 in Kyoto and others) while online!*

## ISTH offers Congress Highlights Via New Publication

The ISTH recently announced that MD Conference Express, the world's first peer-reviewed medical congress highlights publication, will be the official highlights report of the ISTH 2013 Congress. Through this partnership, the ISTH will provide a scientifically-vetted overview of key outcomes from the Congress to global practitioners and researchers.

"We are excited about the partnership and collaboration," said Nigel Key, M.D., ISTH's council chairman-elect and chairman of the publications committee. "MD Conference Express' unique and stringent peer-review process will provide the readers with a scientifically vetted overview of the most important outcomes from our ISTH 2013 Congress – including highlights of data which may not yet have a published primary source. With this partnership, we can bridge the gap between live congress presentations and their eventual publication in the academic literature with a scientifically sound resource."

Content for MD Conference Express is selected by the ISTH Congress scientific steering committee. The concise summary articles are written entirely from primary source material. The presenting faculty are invited to review and comment on the short summaries, which are then subjected to

rigorous peer-review by an advisory board of experts from top medical institutions around the world. This process ensures that the resulting summary articles are of top quality and free of any commercial bias.

MD Conference Express: ISTH 2013 will be available to ISTH members and attendees of the ISTH 2013 Congress in Amsterdam just five weeks after the close of the event. Translated copies are planned to be made available to thrombosis and haemostasis researchers and practitioners around the world.

To introduce the concept of peer-reviewed congress highlights to our community, MD Conference Express has created a custom reprint collection of bleeding and clotting topics summarized from other major congresses in 2012. This special "ISTH Presents: MD Conference Express Highlights in Thrombosis and Haemostasis" is now available on [www.isth.org](http://www.isth.org) and also on [http://www.nxtbook.com/nxtbooks/md\\_conference\\_express/ISTH2012/](http://www.nxtbook.com/nxtbooks/md_conference_express/ISTH2012/). For more information about MD Conference Express, please visit: [www.mdconferencexpress.com](http://www.mdconferencexpress.com). The official peer-reviewed highlights of the ISTH 2013 Congress will be available in August 2013.





Looking Ahead:

## The 60th Annual Meeting of the ISTH's Scientific and Standardization Committee (SSC)



While the 2013 meeting is just weeks away, we encourage you to start planning to attend next year's SSC meeting in Milwaukee, Wisconsin, U.S.A. This hallmark anniversary meeting will take place from June 23 to June 26, 2014, at the Delta Center located in the heart of Milwaukee and minutes away from beautiful Lake Michigan. **To learn more, visit our ISTH booth #500 at the XXIV Congress in Amsterdam! You can also take your picture on one of Milwaukee's finest Harley Davidson motorcycles!**

During the past 60 years, the increasing number of participants at the ISTH's SSC meetings has confirmed its ever-expanding importance as the foremost meeting devoted to the discussion of diagnostic standards, disease nomenclature and classification, and the latest research on bleeding and thrombotic disorders. The SSC 2014 meeting will build on the success of previous meetings and will bring together renowned experts from around the world to discuss practical issues that require the translation of scientific knowledge into reliable methods for the evaluation of normal haemostasis and the diagnosis and treatment of thrombotic and bleeding disorders. Furthermore, it will facilitate an exciting discourse among experts while at the same time allowing for the next generation of scientists and clinicians to become engaged and have access to the latest scientific and clinical resources available.

Milwaukee's location and size is ideal for our SSC meeting. The environment is perfect for high-impact networking and relationship building. Its efficient airport and proximity to Chicago, IL, makes Milwaukee easily accessible from around the world. Please mark your calendars to join us in Milwaukee for the ISTH's SSC 2014 meeting. We look forward to your support of one of the most important scientific events in our field. Visit our website at [www.ssc2014.org](http://www.ssc2014.org) for details.



### Milwaukee, Wisconsin, U.S.A.

*Vibrant, fun and forward-thinking — everywhere you look, Milwaukee has made the transformation from Brew City to New City. From the futuristic wings of the Milwaukee Art Museum soaring dramatically over Lake Michigan, to the charming RiverWalk linking lively, walk-around neighborhoods like the Historic Third Ward and the German heritage Old World Third Street, there's an undeniable energy. While still celebrating its history with brewery tours and the Harley-Davidson Museum, the city now has a powerhouse arts scene, professional sports teams, award-winning restaurants and the Milwaukee Public Market. See you in June of 2014, one of the loveliest months of the year! [Learn more here.](#)*



did you know?

The State of Wisconsin is known for early discoveries in anticoagulation and blood disorders. The first was Armand Quick's discovery of the prothrombin time in Milwaukee at Marquette Medical School (forerunner of the Medical College of Wisconsin). The second was the discovery of a bleeding disorder in cows eating sweet clover that led to WARFarin (Wisconsin Alumni Research Foundation) at the University of Wisconsin's School of Agriculture in Madison. Standardization of newer anticoagulants and their requisite laboratory monitoring still remain as the focus of the SSC's subcommittees. Many additional discoveries have taken place in Wisconsin at some of the world renowned medical institutions making this state a great location for the SSC 2014 meeting.





## SAVE THE DATE ISTH 2015 Toronto

XXV ISTH Congress with 61st  
Annual SSC Meeting  
June 20-25, 2015  
Toronto, Ontario, Canada

Learn more about Toronto! [Click here.](#)  
Additional details are coming soon!



## 18th Congress of the European Hematology Association (EHA)

An exciting program has been compiled with numerous sessions on Thrombosis, Hemostasis and other non-malignant topics. The highly valued Education Sessions on Friday include sessions on Bleeding Disorders (Chair: Imre Bodó; Speakers: Alan Nurden, Karin Fijnvandraat and Charles Hay) and Thrombosis (Chair: Frank Leebeek; speakers: Laurent Mosnier, Saskia Middeldorp and Sabine Eichinger). Paul Imbach and Peter Huijgens will debate on the statement “Should splenectomy be performed before TPO agonist as second line therapy in chronic ITP?”

Besides the scientific sessions on Saturday, the best submitted abstracts will be presented during the Presidential Symposium. A full program of simultaneous oral and poster sessions has been selected from the 2,272 submitted abstracts, a new record. The Sunday Plenary Session will consist of three speakers, one of them being Evan Sadler with a presentation on “Von Willebrand factor and ADAMTS13 in human disease.”

Special attention for the (patient)  
Advocacy Track: four sessions



for hematologists with a focus on advocacy, patient related issues and lobbying. The third Joint Symposium of the Japanese Society of Hematology (JSH) and EHA will cover the topic of myelodysplastic syndromes. In collaboration with the American Society of Hematology (ASH), a joint program has been designed on delivering healthcare in the era of economic crises. The joint program with the European School of Haematology (ESH) is an interactive session on communication: “What do you mean, I can’t have the treatment?”

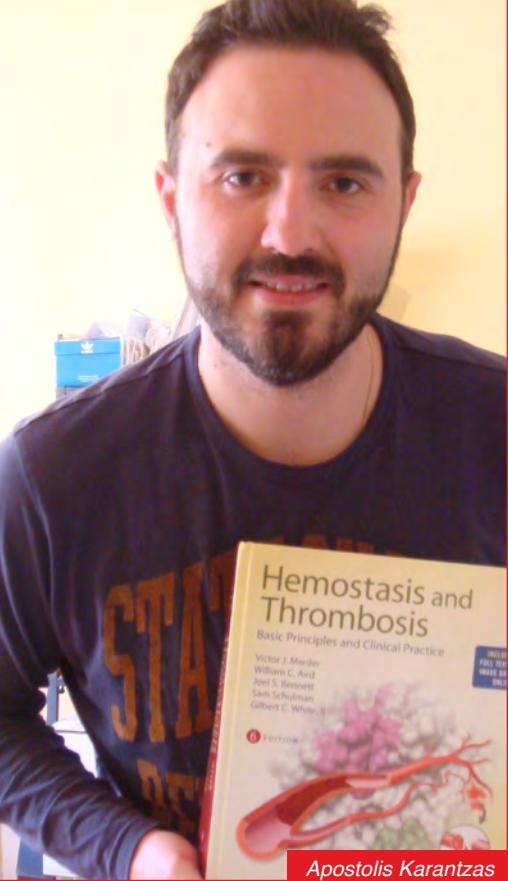
Online registration for the congress closes on May 28, 2013. After this date you are invited to register on-site in Stockholm. [View the Congress program here.](#)

### Don't Miss the 18th Congress of the EHA!

Under the leadership of Jorge Sierra, the Scientific Program Committee of the EHA has developed a wide-ranging program with experts presenting state-of-the-art sessions for scientists, clinicians and hematologists in training. During the Opening Ceremony on Friday, the EHA-ISTH Joint Fellowship Award winner will be announced.




**STOCKHOLMSMÄSSAN,  
SWEDEN  
JUNE 13-16, 2013**



Apostolis Karantzas

## Social Media Textbook Giveaway is a Success!

In March, the 2015 ISTH Congress President, Sam Schulman, donated the newly re-released textbook, titled: "Hemostasis and Thrombosis: Basic Principles and Clinical Practice" to the ISTH for its first textbook giveaway via  [Facebook](#). Since publication of the First Edition in 1982, "Hemostasis and Thrombosis" has grown and now details the essentials of bleeding and thrombotic disorders and the management of patients with these and related problems. It delivers the most up-to-date information on normal biochemistry and function of platelets or endothelial cells, as well as discussions of the pharmacology of anticoagulant, fibrinolytic, and hemostatic drugs. Furthermore, each of the editors, including Sam, are members of the ISTH.

The giveaway received a great response from scientists, clinicians, trainees and

students from around the world who were interested in winning the textbook valued at over \$325 USD. In the end, the winner of the textbook giveaway was Apostolis Karantzas from Greece. Apostolis is a Biomedical Technologist/Scientist at Papageorgiou General Hospital. After finding out that he won, he said via email, "Thank you very much! I'm so glad for winning the ISTH textbook giveaway of, "Hemostasis and Thrombosis: Basic Principles and Clinical Practice." I am sure that it will be very useful and helpful in my daily work at the lab!" Apostolis took a minute to snap a picture with his new book and decided to become an ISTH Allied Health member in support of the Society and to further his career.

If you'd like to participate in the next giveaway, visit our [Facebook page](#) and become a fan today!

## ISTH Member's Benefit: 35% Reduction on all Wiley-Blackwell Books

Together with our partner, Wiley-Blackwell, publisher of ISTH's journal *JTH*, the ISTH is pleased to offer to all members a special 35% discount on virtually the entire book catalog (medical and non-medical) of Wiley-Blackwell! Titles range from cooking to psychology, engineering to leadership, and also include the popular Dummies series. To take advantage of this special discount, please follow these steps:

1. Choose your desired titles at Wiley.com.
2. Enter your [ISTH promotional number](#) in the promotional field of your shopping cart.
3. Click the "Apply Discount" button; the total should be automatically adjusted.

We encourage you to take advantage of this ISTH membership benefit-it could mean significant savings for you!

**RENEW OR JOIN NOW**

ISTH 2013 Membership

[CLICK HERE](#)



Exciting change is in the air.

June 30, 2013



# Council Strategic Planning Retreat Yields Positive Results and Exciting New Directions



In February, the ISTH council participated in a strategic planning retreat in Barcelona, Spain, with the facilitation support of Milagros Mostaza, managing director of Interel's Association Management practice. The planning retreat was designed to guide the council through a process of creating and implementing a purpose drive plan and to help move the organization toward a shared destiny.

As part of the retreat, the council reviewed the progress made since the last planning session in 2010, assessed changes and developments, discussed future opportunities and challenges via a detailed strengths, weaknesses, opportunities, threats (SWOT) analysis and identified the realistic future priorities and developments for the Society. Through a detailed analysis of ISTH's structural, strategic and governance/management situation as well as the development of a prioritized three-year strategic plan, the result included

actionable next steps, goals and timelines to support the growth of the Society.

In summary, the council focused on initiatives supporting the following key areas:

1. Further strengthen ISTH's role in promoting leading edge science and the development of treatments.
2. Foster and encourage global collaborations of scientists and physicians through the provision of information and educational initiatives around the world.
3. Increase collaborations with other medical disciplines to highlight the linkages with thrombosis and hemostasis.
4. Increase awareness about thrombosis and hemostasis among other scientific/medical fields as well as the general public.

5. Foster the engagement, participation and professional development of young researchers and physicians.
6. Engage and educate physicians and investigators in developing countries.
7. Increase the overall engagement, collaboration and participation of the global T+H community

## Why is Strategic Planning Important?

Strategic planning is critical to the success of any organization. Apart from classic business planning, the strategic variety involves mission, vision and out-of-the-box thinking on behalf of all participants. Strategic planning describes where you want your organization to go, not how to get there. Areas of discussion often include: function, use of a SWOT analysis, envisioning goals and defining strategies and future definitions of your action plan to achieve the results desired.

## ISTH Reach-the-World Membership

**Reduced fee memberships for researchers, educators and clinicians from the developing\* countries.**

In pursuit of its mission and recognizing that certain parts of the world have limited financial resources, the ISTH Reach-the-World Membership aims at allowing professionals from developing\* countries to become actively involved and benefit from membership in our Society.

**The membership fee for qualifying members is reduced to US \$35.**

ISTH Reach-the-World members have full membership privileges including online-only subscription to ISTH's scientific journal JTH, may vote on Society matters, serve on Committees, enjoy members-only access to the website, as well as receive the ISTH e-Newsletter. ISTH RtW members also qualify for special discounts and eligibility for travel grants and other awards at ISTH meetings and congresses.

For more information on the program, eligibility criteria and to join, please visit: [www.isth.org](http://www.isth.org) and go to "Membership" or contact the ISTH Office by email at [headquarters@isth.org](mailto:headquarters@isth.org).

\* countries designated as 'developing' by the classification of the World Bank.

[isth.org](http://isth.org)



# ISTH Council Standing Committees: Spotlight on the Membership and Communications Committee

In the second part of 2012, the new 2012-2014 ISTH Council standing committees were finalized. Comprised of council members as well as ISTH members at large, these committees work to initiate important programs and initiatives in line with the strategic directions set by council. In this ISTH newsletter issue, we highlight the Society's Membership and Communications Committee.

The Membership and Communications Committee works on behalf of the Society to help increase membership, promote educational opportunities and programs and build the Society's brand via communication tactics that increase the visibility and impact of the ISTH. The input of members as well as councilors is vital to the marketing and communications plans developed by the committee and the Society. The committee meets periodically to review current membership statistics and discuss marketing strategies.

Currently, the committee is providing input for the ISTH brand awareness and restructuring as well as the overall ISTH marketing and communications plan. In addition, reviews of membership statistics are currently providing essential feedback for future membership goals as well as global insights from the committee members located around the world.

Members of the committee for 2012-2014 are Hugo ten Cate (Chair), Claire McLintock (Vice-Chair), Pantep Angchaisuksiri, Jeffrey Berger, Marco Cattaneo, Thein Oo, Ingrid Pabinger, Aurora de la Peña, Renu Saxena and Cheng-Hock Toh. If you have ideas on how ISTH can do a better job to communicate and/or increase its visibility and membership, please let us know by emailing Louise Bannon at ISTH headquarters at [louise\\_bannon@isth.org](mailto:louise_bannon@isth.org).

## ISTH Nurses Forum

The Nursing Forum continues to develop and demonstrate its vital contribution through the dissemination of knowledge generated by research into clinical practice highlighted by abstracts selected for presentations this year. The abstracts include: Barriers and motivators of adherence to prophylactic treatment in haemophilia; Thromboprophylaxis: Analysis of hospital acquired thrombosis; and Effectiveness of patient education in VTE prevention: a nurse led collaborative local service. At ISTH 2013, nurses will have the unique opportunity to further illuminate the roles of nurses in thrombosis and haemostasis as well as develop strategies for how nurses can maximize discipline-specific contributions. [More information is available here.](#)

The mission of the ISTH Nurses Forum is to promote, support, and sustain sharing and adoption of, evidence-based practice; thereby facilitating knowledge translation to direct patient care. [Read more about the ISTH Nurses Forum online here.](#)

# ISTH Relaunches its Online eLearning Platform

The ISTH is pleased to announce its partnership with Digitec Interactive, the leader in easy-to-use learning portals and engaging eLearning programs and courseware for online continuing medical education (CME). The ISTH has selected the Knowledge Direct® MED learning management system (LMS) from Digitec Interactive to deliver educational content to its members and interested scientists and physicians worldwide. The new online portal will act as a single, unified repository for self-paced courses, live and recorded webinars, recorded conferences, and poster sessions which will be available to both members and non-members.

Development of the new online portal is under way and includes many benefits to members looking to learn online. Members can expect an intuitive and easy-to-use experience tailored to help them meet their personal learning goals. The online portal also gives busy researchers and physicians

**d**igitec **i**nteractive

the option of completing activities and assignments on-the-go from any mobile device or laptop, anytime – day or night.

The new, engaging eLearning portal will launch this fall with the first two self-paced courses modules (The Coagulation System, Venous Thrombosis) of a full online course on Venous Thrombosis. Additional interactive self-paced courses (Diagnosis of VT, Treatment of VT, Antithrombotic drugs, Prevention of VT, Laboratory tests and Thrombosis early in life) will be authored by leaders in the field, designed and developed in collaboration between ISTH and Digitec Interactive and be made available to members through the portal later this year.

The new, engaging eLearning portal authored by leaders in the field will launch this fall with the first two self-paced courses modules of a full online course on Venous Thrombosis.



# SSC Official Communications

## April 2013

- [Measuring Oral Direct Inhibitors of Thrombin and Factor Xa: A Recommendation from the Subcommittee on Control of Anticoagulation of the SSC](#)
- [Guidance for Diagnosis and Treatment of Disseminated Intravascular Coagulation from Harmonization of the Recommendations from Three Guidelines - The SSC Subcommittee on DIC](#)

## May 2013

- [Recommendations on the Potency Labeling of Factor VIII and Factor IX Concentrates – The Factor VIII and Factor IX SSC Subcommittee](#)

## June 2013

- [Recommendations for the Standardization of Light Transmission Aggregometry: A Consensus of the Working Party from the Platelet Physiology Subcommittee of SSC/ISTH](#)

- [Standardization of Pre-Analytical Variables in Plasma Microparticle Determination: Results of the ISTH's SSC Collaborative workshop](#)

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## Bringing Next Generation Sequencing to the Bedside

Report prepared by Graham Kiddle, on behalf of the ISTH SSC ThromboGenomics working group

A recent global survey by the Platelet Physiology SSC subcommittee has revealed that about 15,000 detailed laboratory investigations are performed per year to support the diagnosis of patients with rare platelet disorders. DNA sequencing is only used for a small fraction of cases because Sanger sequencing is prohibitively expensive. With the advent of next generation sequencing and DNA capture technologies it has now become feasible to translate modern genomics into the clinic with the aim to reduce the time to diagnosis of rare inherited bleeding and platelet disorders.

[The SSC Working Group on ThromboGenomics](#) has commenced a project which will undertake the following three key activities:

1. Gene annotation to clinical standards and databasing to provide a stable and sustainable frame of reference.
2. Proof of principle that the use of next generation sequencing at Level 1 in the diagnostic algorithm can substantially reduce the time to diagnosis of rare inherited bleeding and platelet disorders.
3. Provide training to clinical care teams

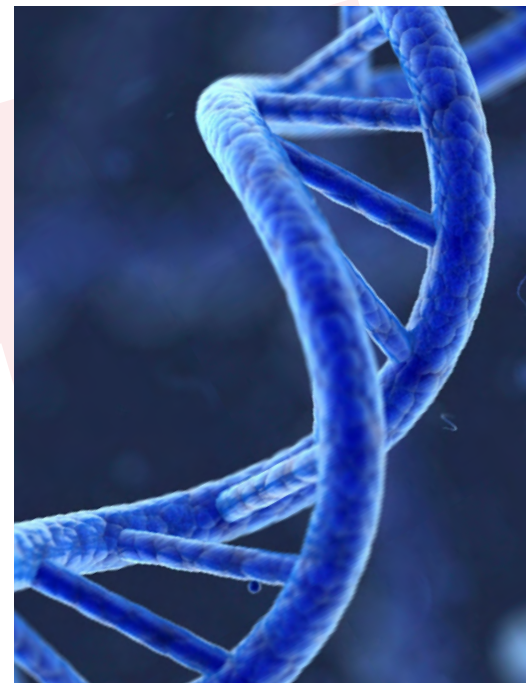
and clinical bioinformatics support for the use of human phenotype ontology terms for the capturing of clinical signs and symptoms.

To achieve these goals, ISTH experts are collaborating to agree on the DNA sequence, transcripts and clinically relevant variants of 96 genes. This effort will result in the creation of stable and sustainable LRG ([www.lrg-sequence.org](http://www.lrg-sequence.org)) records. In parallel, an industry sponsored custom panel capturing nearly one million base pairs has been designed to capture all regions containing bleeding and platelet disorder variants present in the Human Gene Mutation Database for these 96 genes.

A number of tertiary clinical referral centres have provided DNA from patients with an established diagnosis, and these will be sequenced alongside control samples to assess the selectivity and sensitivity of the platform. If this initial evaluation is promising then other clinical centres may want to join the ThromboGenomics project.

During the XXIV Congress of the ISTH in Amsterdam, the latest progress of this NIHR funded translational genomics

programme will be reviewed at a public session of the workgroup on Saturday, June 29, from 12-2 p.m., and again during the Rare Bleeding Disorder II session on July 3 from 8:30-8:45 a.m.



# The Factor VIII, Factor IX and Rare Coagulation Disorders SSC Subcommittee: Innovative Clotting Factor Concentrates

Report prepared by Flora Peyvandi, Chair

Current hemophilia treatment, based on intravenous replacement therapy of Factor VIII (FVIII) and Factor IX (FIX), have favorably supported the efficacy, tolerability and safety profiles. The onset of alloantibodies inactivating the infused coagulation factor is the main problem in hemophilia patients rendering replacement therapies ineffective; another disadvantage is the short half-life of the infused clotting factors with the need for demands multiple and frequent infusions to manage a bleeding episode. The bioengineering strategies, previously applied successfully to other therapeutic proteins, encourage the current efforts to produce novel coagulation factors with more prolonged bioavailability, with increased potency and resistance to inactivation and potentially reduced immunogenicity. Now, the evaluation of efficacy and safety of these new products, consisting in potency assignment and laboratory monitoring, clinical trial design harmonization (EMA vs. FDA) and post registration surveillance, is a required step. To achieve these ends, the FVIII & FIX and Rare Coagulation Disorders subcommittee (SSC) appointed experts into two project groups with specific mandates to:

- Gain an understanding of haemostatic dynamics of novel FVIII/FIX concentrates and by-passing agents by global hemostasis assays and to make comparisons between therapeutic preparations in terms of

therapeutic efficacy (Project entitled “Evaluation of hemostatic efficacy of novel FVIII / FIX concentrates and FVIII-inhibitor by-passing agents” chaired by A. Lawrie and A. Tripodi)

- Provide end points of safety and hemostatic efficacy in pre- and in post-authorization clinical trials of hemostatic products for hemophilia. This task is being pursued with the collaboration of regulatory bodies in the USA (FDA) and Europe (EMEA) to reach a full harmonization of their requirements for optimal clinical trial design.

Finally, all drugs have side-effects that may be unexpected or emerge after long period of treatment. The potential for immunogenicity of new drugs with molecular manipulation requires therefore a rigid post-marketing surveillance. Since the pre-approval studies are performed in selected populations most serious complications of safety and efficacy do not appear until after the product has been approved and used on a large scale. Rigorous and prolonged independent surveillance studies may replace some of the pre-approval studies and speed up the approval process while at the same time improve the likelihood of identifying complications and side-effects. A new FVIII & FIX and Rare Coagulation Disorders SSC project needs to be planned to monitor approaches to pharmacovigilance and risk assessment.

The bioengineering strategies, previously applied successfully to other therapeutic proteins, encourage the current efforts to produce novel coagulation factors with more prolonged bioavailability, with increased potency and resistance to inactivation and potentially reduced immunogenicity.

## SSC Call for Collaborations

*Are you a clinician, researcher or educator with a continuing scientific interest in thrombosis, haemostasis and vascular biology? If so, we would very much appreciate your input or review of any of the documents and questionnaires [available via the ISTH website](#) that apply to your work.*

Your involvement would greatly benefit the work of the Scientific and Standardization Committee (SSC) as it develops a better understanding of practical issues related to thrombosis and disorders of haemostasis, as well as advances projects designed to generate reliable and standardized clinical and basic science tools.





## JTH Editors Picks for April–June 2013

### APRIL



#### DEBATE

Which Test to Measure the Anticoagulant Effect of Rivaroxaban: The Prothrombin Time Test A. Tripodi

Which Test to Measure the

Anticoagulant Effect of Rivaroxaban? The Anti-Xa Assay M. M. Samama

#### REVIEW ARTICLES

Weibel-Palade Bodies: A Window to von Willebrand Disease K. M. Valentijn and J. Eikenboom

Transcription Factors in Late Megakaryopoiesis and Related Platelet Disorders M. R. Tijssen and C. Ghevaert

The Organizing Principle of Platelet Glycoprotein Ib-IX-V Complex R Li and J Emsley

Recommendations for Thromboprophylaxis in the 2012 Focused Update of the ESC Guidelines on Atrial Fibrillation: A Commentary G. Y. H. Lip

#### COAGULATION

Commentary: Pre-Analytical Issues in the Measurement of Circulating Microparticles: Current Recommendations and Pending Questions F. Mullier, N. Bailly, C. Chatelain, B. Chatelain and J.-M. Dogné

In-Focus Paper: Is a Decrease of Microparticles Related to Improvement of Hemostasis after FVIII Injection in Hemophilia: Are Patients Treated on Demand? F. Mobarrez, D. Mikovic, A. Antovic and J. P. Antovic

### FIBRINOLYSIS

Commentary: Coagulation Disorders and Aortic Stenosis: A Chicken and Egg Question? N M Htun, K Peter

Impaired Fibrinolysis is Associated with the Severity of Aortic Stenosis in Humans J. Natorska, E. Wypasek, G. Grudzien', J. Sadowski and A. Undas

### MAY



#### REVIEW ARTICLES

Post-Thrombotic Syndrome: A Clinical Review

M. J. Baldwin, H. M. Moore, N. Rudarakanchana, M. Gohel

and A. H. Davies

Tissue Regenerating Functions of Coagulation Factor XIII C. Soendergaard, P. H. Kvist, J. B. Seidelin and O. H. Nielsen

Tissue Factor Non-Coagulant Signalling: Molecular mechanisms and biological consequences with focus on cell migration and apoptosis M Åberg and A Siegbahn

Differentiating Disseminated Intravascular Coagulation (DIC) with the Fibrinolytic Phenotype from Coagulopathy of Trauma and Acute Coagulopathy of Trauma-Shock (COT/ACOTS) Satoshi Gando, Hideo Wada and Jecko Tachil, The Scientific Standardization Committee on DIC of the ISTH

### JUNE



#### REVIEW ARTICLE

Inherited Thrombocytopenias Frequently Diagnosed in Adults

C.L. Balduini, A. Savoia and M. Seri

### CLINICAL HAEMOSTASIS AND THROMBOSIS

Commentary: Catheter-Directed Thrombolysis for Deep Venous Thrombosis Might be Cost-Effective, But for Whom? A. Perrier and H. Bounameaux

In Focus Paper: Cost-Effectiveness of Additional Catheter-Directed Thrombolysis for Deep Vein Thrombosis T. Eenden, S. Resch, C. White, H. Skuterud Wik, N. Einar Kløw and P. Morten Sandset

## Submit Your Research for Publication in JTH!

We welcome you to submit your manuscript for consideration online, here: <http://mc.manuscriptcentral.com/jth>. The Journal publishes high quality, original research reports, state-of-the-art reviews, invited commentary and debate on timely topics, letters and announcements. For more information, click here.



## The Journal of Thrombosis and Haemostasis (JTH) Unveils a New Look

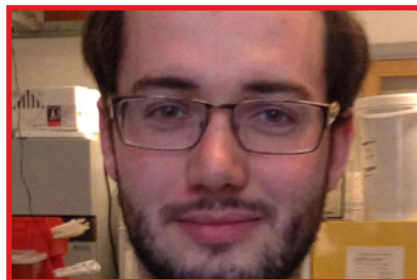
As part of the excitement at this year's Congress, the *JTH* will unveil a new, beautifully designed journal cover. This design will also be featured as part of its year State-of-the-Art issue. The new cover features modern imagery, updated branding and a crisp white background that allows the artwork and wording to pop off the page and engage readers with ease. See the new journal cover in Amsterdam or online in July.

## The Mannucci Awards

The Mannucci Prizes are awarded in honor of Pier M. Mannucci, the first Editor-in-Chief of the *JTH*, for the best articles by investigators younger than 35 years of age. The prizes are made possible by a generous contribution from Bayer Health Care and recipients are selected by a jury of editors. We congratulate the 2012 winners:



**Leslie Skeith**, London, Ontario, Canada, London Health Sciences Centre  
[Conservative Perioperative Anticoagulation Management in Patients with Chronic Venous Thromboembolic Disease: A Cohort Study](#)



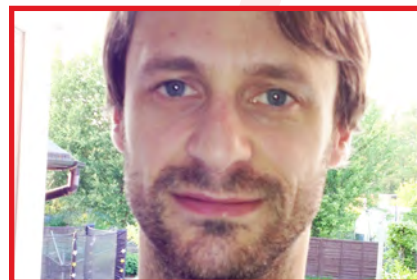
**John Welsh**, Philadelphia, PA, USA, University of Pennsylvania  
[Platelet-Targeting Sensor Reveals Thrombin Gradients Within Blood Clots Forming in Microfluidic Assays and in Mouse](#)



**Janine van Loon**, Schiedam, the Netherlands, Erasmus University Medical Centre  
[Von Willebrand Factor Plasma Levels, Genetic Variations and Coronary Heart Disease in an Older Population](#)



**Yuji Kasiwakura**, Tochigi, Japan, Dkkyo Medical University  
[Intra-Articular Injection of Mesenchymal Stem Cells Expressing Coagulation Factor Ameliorates Hemophilic Arthropathy in Factor VIII-Deficient Mice](#)



**Peter Allan**, Tyne and Wear, UK, University of Leeds  
[Evidence that Fibrinogen Directly Interferes with Protofibril Growth: implications for Fibrin Structure and Clot Stiffness](#)

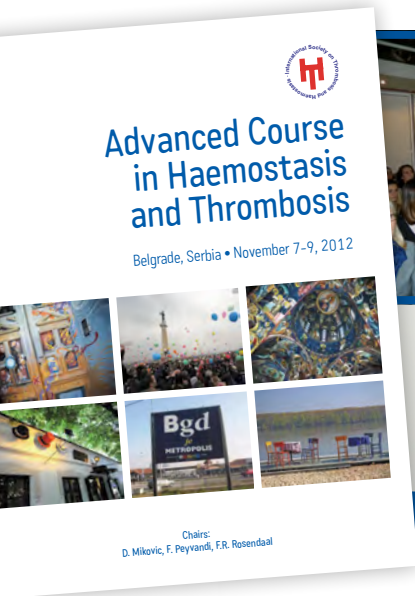


Official Sponsor



## WORLD VIEW:

# ISTH Course Reports from Belgrade, Mexico and Kiev



*Held in Belgrade, Serbia, from November 7-9, 2012,* this advanced course was organized by the ISTH in collaboration with the World Federation of Hemophilia and the Serbian Society of Haemostasis and Thrombosis. Chairs of the course were Danijela Miković (Belgrade), Flora Peyvandi (Milan) and Frits R. Rosendaal (Leiden). The organization was supported by the local meeting secretariat as well as the ISTH.

This meeting was an excellent opportunity for young Serbian doctors to present their achievements in forms of case and research presentations within interactive sessions. At the same time, they had an extraordinary opportunity

to get important recommendations for their future work from experts. The programme was divided in three sessions: Platelets, Coagulation-Haemorrhage and Coagulation- Thrombosis. Within each session, one part was dedicated to the invited lectures presented by international leaders in the field.

Each session was followed by lively and constructive discussions which contributed to the overall atmosphere of the meeting: highly professional and at the same time relaxed, and marked with the close and very active exchange of opinions between invited speakers and participants. One of the greatest achievements of the meeting is that a regional network of young professionals

in haemostasis and thrombosis field has been established. That liaison will certainly show its effects in future through collaboration, mutual projects etc.

A total of 103 participants took part in the course. Participants were medical professionals from South East and Central European countries as well as Russia, and were made up of trainees and junior specialists in internal medicine, hematology, cardiology, pediatrics, transfusion medicine and anesthesiology. Competitive grants to support participation at the course were awarded to 53 participants who were 35 years old or younger.

*The course titled, "International Advanced Educational Course on Thrombosis and Haemostasis in Cardiovascular Diseases," took place April 17-19, 2013, at the Instituto Nacional de Cardiología "Ignacio Chávez," Mexico DF, México. It was organized by Raúl Izaguirre (Mexico), Alicia Blanco (Argentina), Diego Mezzano (Chile), Suely Rezende (Brazil) and Raúl Altman (Argentina). The course was sponsored by the Educational Committee of the ISTH.*

A total of 373 individuals registered for the advanced course. About 80% of

*continued on next page >>*



participants were medical doctors, of whom 62% were cardiologists and 86% were residents in Mexico DF. Ninety-four percent of the participants evaluated the quality of the course and the quality of the presentations as high or very high.

The course was a great success and allowed a major interaction between cardiologists and hematologists towards a common field of interest - thrombosis. Participants could improve their knowledge on several fields of cardiology, hemostasis and thrombosis and exchanged experiences. Participants and speakers had a chance to interact and also had an enjoyable time.

A parallel workshop also sponsored by the ISTH, titled, "Thrombosis and Haemostasis Laboratory Course," led by Alicia Blanco (Argentina) and Evelyn Cortina (Mexico), with the collaboration of Alejandro Ramírez (Mexico), was run at the Instituto on April 18 and 19. It offered participants the opportunity to attend theoretical lectures in which practical aspects of laboratory tests, diagnostic algorithms and clinical cases were discussed. In addition, a wet lab was organized in which attendees were able to perform several tests using different reagents and equipment. The objective was to obtain and compare results in different clinical circumstances (anticoagulation control, blood coagulation deficiencies and acquired inhibitors such

as lupus anticoagulant, FVIII or FIX).

The workshop was designed to teach and train attendees to foster their professional development and enhance their competencies. The theoretical part of the workshop was attended by 46 participant; 27 of whom went on to undertake hands-on training in blood coagulation in the lab, divided into 9 working groups. Positive feedback was received; attendees rated the workshop as excellent (4.7 out of 5) in terms of the quality of the course and the presentations, new information received and relevance and applicability to their work.



*On April 4-5, 2013, a group of European thrombosis and haemostasis experts traveled to Kiev* to meet with Alexander Parkhomenko and the 140 participants that he recruited, most of them young cardiologists and internists. Due to the recently released epidemiological data from the World Health Organization (WHO) confirming that the highest peaks of total and cardiovascular mortality are reported for Eastern Europe, particularly for countries former members of the Soviet Union as Moldova, Byelorussia,

Ukraine and the Russian Federation, Kiev was a great location to convene a group for in-depth discussions. Together with Raffaele De Caterina, professor of cardiology and member of the ISTH, the group contacted Alexander Parkhomenko, a distinguished professor of cardiology in Kiev and forwarded him the project for a course on thrombosis and antithrombotic therapy. Later, the group obtained the endorsement of the Thrombosis Group of the European Society of Cardiology, a step that was helpful in ensuring the participation of cardiologists as tutors. Four working sessions were held, including:

Antithrombotic drugs in acute coronary syndromes; Primary and secondary prevention of cardiovascular events; Prophylaxis and treatment of venous thromboembolisms; Prophylaxis of cardiogenic embolism and stroke. There was an equal number of Ukrainian and non-Ukrainian speakers and chairmen for each session. Participation and discussion from the audience was intense and fruitful and besides sharing updated medical knowledge, facilitators created personal bridges by fostering new relationships with the centers of excellence represented.

## Apply for the Reach-the-World Program

The ISTH is working to ensure that scientists, physicians and allied health professionals with an interest in thrombosis and haemostasis have access to the latest training, information and education regardless of where they live. Our Reach-the-World Fellowship program gives junior clinicians and researchers from developing countries the opportunity

to study at host institutes known for their expertise in thrombosis and haemostasis. The program aims to promote knowledge and expertise in one or all of the areas of medical care, laboratory methods and/or research. As part of the program, we provide fellows with financial support for travel, accommodation and living expenses for a fellowship period of up to four months.

### INTERESTED IN APPLYING?

#### Applicants must be:

- An M.D. or Ph.D.
- 37 years old or younger
- Able to read, write and speak in English or in the primary language used at the host institute
- From an academic institute in a developing country and not affiliated with a commercial pharmaceutical or other biomedical company
- Able to show a publishing record in the field of thrombosis and haemostasis

To apply, visit the ISTH website [here](#) and submit all documents to the ISTH Headquarters by January 1.



# Upcoming Meetings Calendar

## ISTH Educational Opportunity:

**ISTH Education Course**  
November 2013; Valdivia, Chile

For more information on ISTH Educational Courses, please contact the ISTH office at [education@isth.org](mailto:education@isth.org)

## Other Meetings of Interest:

**7th European Meeting for Vascular Biology and Medicine**

July 21-26, 2013; Birmingham, UK  
<http://www.microcirculation.org.uk/27esm7evbo/index.html>

**2013 American Association for Clinical Chemistry Annual Meeting**

July 28-August 1, 2013; Houston, TX, USA  
<http://www.aacc.org/events/annualmeeting/pages/default.aspx>

**42nd Annual Scientific Meeting of Society for Hematology and Stem Cells**

August 22-25, 2013; Vienna, Austria  
<http://www.iseh.org/?2013Vienna>

**European Society of Cardiology Congress 2013**

August 31-September 4, 2013; Amsterdam, the Netherlands  
<http://www.escardio.org/congresses/esc-2013/Pages/welcome.aspx>

**UK NEQAS for Blood Coagulation Scientific Meeting**

September 3-4, 2013; Sheffield, UK  
<http://www.ukneqasbc.org/content/Pageserver.asp>

**Australian Vascular Biology Society 2013 Scientific Meeting**

September 5-8, 2013; Barossa Valley, South Australia, Australia  
<http://www.avbs.org/meet.html>

**The 46th Annual Congress of the German Society for Transfusion Medicine and Immunohematology**

September 24-27, 2013; Munster, Germany  
<http://www.dgti-kongress.de/>

**Jubilee XXV Congress of the Polish Society of Hematology and Transfusion Medicine**

September 25-28, 2013; Pozan, Poland  
<http://www.gradatim-sympozja.pl/pthit/>

**7th Annual Thrombosis Summit**

September 28, 2013; Boston, MA, USA  
<http://www.natfonline.org/events>

**65th National Hemophilia Foundation Annual Meeting**

October 3-5, 2013; Anaheim, CA, USA  
<http://www.hemophilia.org/NHFWeb/MainPgs/MainNHF.aspx?menuid=327&contentid=1083&rptname=annualmeeting>

**Eurothrombosis 2013**

October 3-5, 2013; Uppsala, Sweden  
<http://www.akademikonferens.uu.se/eurothrombosis2013>

**75th Annual Meeting of the Japanese Society of Hematology**

October 11-13, 2013; Sapporo City, Japan  
<http://www.jshem.or.jp/en/meetings/am.html>

**AABB Annual Meeting & CTTXPO 2013**

October 12-15, 2013; Denver, CO, USA  
<http://www.aabb.org/events/annualmeeting/Pages/default.aspx>

**British Blood Transfusion Society (BBTS) Annual Conference 2013**

October 16-18, 2013; Birmingham, UK  
<https://www.bbts.org.uk/annualconference/>

**XXIX Congreso de la SETH & LV Meeting of SEHH**

October 17-18, 2013; Sevilla, Spain  
<http://www.seth.es/images/congresos/2013/Congreso-SEHH-SETH-2013.pdf>

**Vascular 2013**

October 17-19, 2013; Montreal, Canada  
<http://www.vascular2013.ca/>

**Annual Meeting of the German, Austrian and Swiss Societies of Hematology and Oncology**

October 18-22, 2013; Vienna, Austria  
<http://www.haematologie-onkologie-2013.at/haupt/gruswort/>



**Haematology Association of Ireland National Society Meeting**

October 18-19, 2013; Belfast, Ireland  
<http://haematologyireland.org/default.htm>

**North American Vascular Biology Organization Meeting**

October 20-24, 2013; Cape Cod, MA, USA  
<http://www.navbo.org/events/vb2013>

**44 Congresso Nazionale SIE**

October 20-23, 2013; Verona, Italy  
<http://www.sie2013.com/>

**HAA 2013 (HSANZ/ANZSBT/ASTH Joint Scientific Meeting)**

October 20-23, 2013; Gold Coast, Australia  
<http://www.fcconventions.com.au/HAA2013/>

**Turkish Society of Hematology National Meeting**

October 23-26, 2013; Belek, Turkey  
<http://www.ulusalhematoloji2013.org/>

**New Job Opening!** McGill University Thrombosis Fellowship for 2014-2015 at Jewish General Hospital in Montreal, Quebec. To obtain more information please contact Dr. Susan Kahn at +1 514-340-7587; [susan.kahn@mcgill.ca](mailto:susan.kahn@mcgill.ca).

**Is your meeting not on this list or part of the ISTH online calendar of events?** Email us your details at [headquarters@isth.org](mailto:headquarters@isth.org).

# ISTH Membership Continues to Grow ...

ISTH is excited to announce that it has surpassed its membership of 3,000 and the Society is quickly moving closer to 4,000 every day! It has also expanded its global audience by adding members from four additional countries/regions, including: Montenegro, Slovak Republic, South Korea and Vietnam, for the first time. The total number of countries now represented at the ISTH is: 84.

Thanks to everyone who has shared the ISTH with colleagues, friends, students and trainees in the field of bleeding and clotting disorders. Together, we are working to advance the understanding, prevention, diagnosis and treatment of thrombotic and bleeding disorders.

## Membership by the Numbers

Our increased communications with both members and nonmembers has spurred great interest, renewals and many new members. Specifically:

- ISTH is nearing **3,500** members.
- There have been more than **800** new memberships recorded for 2013 so far!
- The average age of our members is **45**.
- The average length of membership is **4+** years. This is due to our recent growth of new, first time members.
- Members' location is split between International (**65%**) and the U.S./Canada (**35%**).
- **Did you know?** Our current membership number is the highest membership number ever recorded! Let's keep growing together!

## Take a closer look!

NORTH AMERICA  
**35%**

LATIN AMERICA  
**4%**

EUROPE  
**43%**

MIDDLE EAST, W. ASIA  
**2%**

AFRICA  
**2%**

ASIA  
**9%**

OCEANIA  
**5%**

## ISTH Global Membership Grows Rapidly

ISTH is pleased to introduce the new members who have joined the Society's global network in the past three months, from February 15 until May 1 (inclusive). Due to the success of our membership outreach activities and the number of new members who have joined our Society, we are

providing you with a direct link to all of our new ISTH members. Please click on the link below to directly access a comprehensive list and be sure to wish them a warm welcome to the ISTH!

To all of our new members, we are happy to have you as part of

our Society and wish you much success in your careers. We look forward to your active engagement in 2013 and beyond! Welcome!

[View all new members](#)





## ISTH Mission

The International Society on Thrombosis & Haemostasis (ISTH) is the leading worldwide organization dedicated to the advancement of the understanding, prevention, diagnosis and treatment of thrombotic and bleeding disorders.

ISTH is an international professional individual membership organization with over 3,000 members in more than 80 countries around the world.

Among its highly regarded activities and initiatives are education and standardization programs, research activities, meetings and conferences, peer-reviewed publications and expert committees.

## Contact info

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[www.isth.org](http://www.isth.org)

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## Link with ISTH on LinkedIn

Join us on LinkedIn to continue networking with other professionals in the field of thrombosis and haemostasis. Engage with ISTH members worldwide. Stay up-to-date on ISTH announcements about upcoming meetings, educational initiatives, and standardization programs.

LINK WITH US

## Tweet with ISTH on twitter

Follow ISTH on Twitter @ISTH to stay in touch and informed about upcoming meetings, educational programs, and other announcements.

TWEET WITH US



WE'RE ON FACEBOOK, TOO!

## ISTH Council

**Chair of Council (2012-2014)**  
Michael Berndt, Australia

**Secretary/Chair-Elect (2012-2014)**  
Nigel Key, USA

**Treasurer (2011-2015)**  
Nuala Booth, UK

**Class of 2014**  
Nuala Booth, UK  
Francoise Dignat-George, France  
Nigel Key, USA  
Robert Montgomery, USA  
Hugo ten Cate, The Netherlands

**Class of 2016**  
Marco Cattaneo, Italy  
Björn Dahlbäck, Sweden  
Andreas Greinacher, Germany  
Paula Tracy, USA  
Yukio Ozaki, Japan

**Class of 2018**  
Peter Lenting, France  
Claire McLintock, New Zealand  
James Morrissey, USA  
Ingrid Pabinger, Austria  
Jeffrey Weitz, Canada

## EX-OFFICIO COUNCIL MEMBERS

**Secretary General (2010-2013)**  
Bruce Furie, USA

**Immediate Past Chair (of Council)**  
Henri Bounameaux, Switzerland

**President of the XXIV Congress (Amsterdam, 2013)**  
Frits R. Rosendaal, The Netherlands

**Vice-President of the XXIV Congress (Amsterdam, 2013)**  
Pieter Reitsma, The Netherlands

**Past President, XXIII Congress (Kyoto 2011)**  
Yasuo Ikeda, Japan

**Editors-in-Chief, Journal of Thrombosis and Haemostasis**  
Frits R. Rosendaal and Pieter Reitsma, The Netherlands

**Chair, Scientific and Standardization Committee**  
David Lillicrap, Canada

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2013

**NETHERLANDS**

**ISTH**

XXIV CONGRESS  
OF THE INTERNATIONAL  
SOCIETY ON THROMBOSIS  
AND HAEMOSTASIS

JUNE 29 - JULY 4  
Amsterdam, The Netherlands

[www.isth2013.org](http://www.isth2013.org)

**DON'T MISS IT!!**

