Welcome to the 2013 ISMICS Scientific Meeting

Welcome to Prague and the ISMICS Annual Meeting! We are very thankful that the timing of our annual meeting did not coincide with the recent floods and that life in Prague is now returning to normal. A week ago, the city was experiencing record rainfall, the waters of the Vltava River were cresting and a state of emergency was declared in the Czech Republic.

We are grateful that the waters have receded, the anti-flood barriers throughout the city have protected the city, and the historical centre is intact for our annual meeting. I hope that you will take the opportunity to visit this wonderful city and experience its unique and ancient traditions. From the Prague castle, originally the residence of princes and kings of Bohemia, to Stromovka Park, once a royal hunting park, now a beautiful place to walk, run, or relax amidst the blooms, - please take time to enjoy the culture and charm of this European city.

In addition to the sights and glories of this historical city, I know you will enjoy the outstanding scientific program that has been developed by the Program Committee, under the direction of Chairpersons Niv Ad, MD, Bob Kiaii, MD Franca M.A. Melfi, MD., Daniel L. Miller, MD. The ISMICS Annual Meeting has always been the forum for presenting the latest innovations in our field and this year’s meeting will present and review new technologies, techniques, and ideas that are changing our specialty. There are comprehensive sessions in both cardiovascular and thoracic surgery.

The program begins on Wednesday with a full day Masters Day Program. The morning courses will feature concurrent sessions including Robotic Revascularization, Off Pump Surgery and Atrial Fibrillation. The afternoon will feature Minimally Invasive Valve Surgery, Transcatheter Valves and Thoracic Robotic Surgery. The format has been modified to encourage more interaction (continued on page 14)

The 2012 ISMICS Annual Meeting Scientific Program has been designed to cover all aspects of minimally invasive and innovative surgery and to present the latest scientific developments and innovative techniques across the broad spectrum of minimally invasive CT surgery.

In addition to the Masters Day programs, keynote speakers, mini presentations, videos, and panel discussions, the program features two distinct tracks – cardiac and thoracic – offered simultaneously on Thursday, Friday and Saturday. Each track will focus on the state-of-the-art in each discipline and will include presentations and discussions by the current experts in their respective fields.

There will also be industry sponsored breakfast and lunch symposia, as well as ample opportunities to meet and greet your colleagues and friends.

Social programs and receptions will take full advantage of this beautiful city and we invite you to explore Prague and enjoy the scientific sessions.
MAQUET Introduces an Innovative Retractor System, for Minimally Invasive CABG Procedures.

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Visit us at booth #17 for further details about our lunch symposium.

When: Friday, June 14th
Time: 12:20 pm
Room: Athens & Barcelona & Berlin & Brussels

We look forward to meeting you!

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MCV00011477 Rev B
Technical Challenges: Pitfalls and Disasters

Wednesday, 19.00 – 21.00

Chair: Valavanur A. Subramanian, MD,
St. Luke's-Roosevelt Hospital & Beth Israel Medical Center, New York, New York
Co-Chair: Alex Zapolski, MD, The Valley Hospital, Ridgewood, New Jersey

Recurrent Echinococcal Cyst: Expect Unexpected
David Zeltsman, MD New York, NY, USA

Bronchial Obstruction following VATS Lobectomy: Diagnosis And Therapeutic Challenge
In Kyu Park, MD Seoul, Republic of Korea

Hemodynamic Collapse during TAVI - Successful Rescue
Daniel Watson, MD Columbus, Ohio, USA

Major Rhromboembolic Complication in Transfemoral TAVI Procedure - Clinico-pathological Correlate
Vivek Srivastava, MD Blackpool, United Kingdom

Serial Complications after Repair of Type A Aortic Dissection
Michal Nodzdzukowski, MD Leipzig, Germany

Hemolysis after Total Arch Replacement with the Frozen Elephant Trunk
Yoshitsugu Nakamura, MD Hochaka, Japan

Rupture of the Right Coronary Artery after Aortic Root Replacement: What Do I Do Now?
Jonathan Hemil, MD New York, NY, USA

Valve Embolization during TAVI with Surgical Rescue
Nikolao Bonaros, MD Innsbruck, Austria

Valve-In-Valve-In-Ring Following a Stenotic Mitral Annuloplasty Repair
Gry Dahle, MD, Oslo, Norway

Disaster during Percutaneous Trans Catheter closure of Aortic ParaValvular Leak…Misdiagnosis
Nirav Patel, MD V.A.Subramanian, MD New York, NY, USA

Reefing of Aortic Sinuses to Avoid Root Replacement in a Complex Reoperation
Alex Zapolski, MD New Jersey USA

SCIENTIFIC PROGRAM COMMITTEE
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Hendrik Twee, M.D.
Alfredo Trento, M.D.
Benny Weksler, M.D.
Bryan A. Whitson, M.D., PhD
Rashmi Yadav, M.D.
Alex Zapolski, M.D.

Coronary artery bypass grafting (CABG) has been regarded as the treatment choice for unprotected left main (LM) coronary artery disease. However, recent clinical guidelines have upgraded PCI to a viable alternative in selected LM patients.1,2 PCI offers tangible short-term advantages over CABG as it is less invasive, reduces hospitalization duration and avoids the disability of surgical recovery.

Hybrid coronary revascularization (HCR) may represent a valuable alternative to both traditional CABG and unprotected LM stenting. Combining the durability and survival advantage of the LIMA-LAD graft with less-invasive PCI using drug-eluting stents (DES) to treat non-LAD vessels may reduce some of the morbidity associated with CABG and reduce the incidence of repeat revascularization associated with an all-percutaneous strategy.

HCR was introduced at Emory University in 2003. Since that time, it has come to com-
prise 20% revascularization procedures for patients with multivessel disease. Since 2009, LIMA harvesting has been performed with robotic assistance. The anastomosis is performed manually via a 3-4cm non-rib-spreading anterolateral thoracotomy incision under direct vision without cardiopulmonary bypass.

All HCR patients had a minimally invasive LIMA-LAD bypass performed before or con-
comitant with PCI. The majority of lesions involved the distal LM (15/27). The majority of PCI procedures were performed with DES (92.6%). With the exception of 1 patient, the LM was stented into the circumflex coronary artery. The average SYNTAX score of HCR patients was 23.1.

In-hospital outcomes, were similar between treatment groups, with the exception of the need for blood transfusion, which was reduced with HCR (p = 0.01). Two patients in the HCR group required repeat PCI (1 in-stent restenosis, 1 progression of native disease), and 1 OPCAB patient who required repeat PCI (saphenous vein graft) at a median follow up of 3.2 years. No patients required reoperation.

Since this publication, HCR has been performed in an additional 20 patients with excel-
 lent results. The most suitable anatomy for left main hybrid approaches are patients with either distal left main lesions extending into the bifurcation or any left main lesion plus prox-
imal LAD disease in addition to other lesions. This eliminates concerns for competitive flow between a percutaneously treated left main lesion and the LIMA-LAD graft.

In summary, HCR represents a safe and effective strategy with equivalent in-hospital outcomes, were similar between treatment groups, with the exception of the need for blood transfusion, which was reduced with HCR (p = 0.01). Two patients in the HCR group required repeat PCI (1 in-stent restenosis, 1 progression of native disease), and 1 OPCAB patient who required repeat PCI (saphenous vein graft) at a median follow up of 3.2 years. No patients required reoperation.

References:
1. Task Force on Myocardial Revascularization of the European Society of Cardiology (ESC) and the European Association for Cardio-Thoracic Surgery (EACTS); European Association for Percutaneous Cardiovascular Interventions (EAPCI), Guidelines on myocardial revascularization. Eur Heart J. 2010 Oct;31(20):2501-55.
A Message From Your ISMICS Executive Director

Aurelie M. Alger, JD

I wish all our ISMICS members and Annual Meeting Attendees a warm welcome to Prague, one of Europe’s most beautiful capital cities. We identified Prague as a venue immediately after our Berlin Meeting in 2010, and while it hardly seems that three years have passed, here we are gathered together for ISMICS 16th Annual Scientific Meeting.

As I write this message, I am delighted to inform you that our pre-registration as of June 6th is 497, with a total of 447 Professional Pre-Registrants. This is our second highest professional medical pre-registration in ISMICS history, only behind 2005 in New York. Over the past 5 years we have seen ISMICS attendance continue to increase, with last year’s Los Angeles meeting setting our all-time West Coast record with 534 professional medical attendees. With a few hundred industry partners also participating this year, we anticipate total attendance of over 800 at this year’s meeting.

2012 into 2013 has seen ISMICS move ahead with implementation of its Strategic Plan, which called for expansion of scientific programming to include all forms of innovation in surgery, techniques, and technological advances. Abstract review criteria was tightened to ask reviewers to consider if the content submitted was “ISMICS” in nature – in other words, minimally invasive, or innovative, or forward-thinking. There is tremendous commitment on the part of your ISMICS leadership to keep the society true to its origins and not have it lose its non-traditional and cutting edge personality. This year’s Program Chairs on the Cardiac Side, Drs. Niv Ad and Bob Kiaii, split the Program Committee into two distinct onsite review groups so that more in-depth analysis of papers could be made. And our Thoracic Chairs, Drs. Daniel Miller and Franca Melfi, reviewed the thoracic papers to ensure that they too remained at the forefront of what is relevant in innovative and minimally invasive thoracic surgery. I am sure you will find the content in both the cardiac and thoracic sessions to be both high quality and very informative.

Also in an effort to keep things fresh, the format of our Masters Day was changed – and this year both the morning and afternoon sessions start off in a single room with one portion focused on programming of interest to all three topic-driven sessions, presented through State of the Art Lectures and then “Great Debates.” Then the sessions split for another two hours of topic-specific programming. And on Wednesday afternoon ISMICS also welcomes a partner in educational programming in the first-ever offering of a joint ISMICS/EACTS course on Thoracic Robotic Surgery. Friday morning at ISMICS will feature a “Live on Tape” session with three Live in a Box videos being presented on Transapical Valves, Mini-Mitrales, and Ablation. And finally, Saturday morning usher in two more new program concepts, shortened presentations and mini-cardiac debates, as well as a Thoracic “Movie Day.” We hope that you can attend these new sessions, and look forward to your feedback post-meeting.

Our featured Lectures this year celebrate two of ISMICS’ own, Dr. Joseph Bavaria offering the Keynote Lecture of “Integrating Innovation by Changing Culture,” and Dr. William “Billy” Cohn giving the Kit V. Arom Lecture which will be entitled “Medical Device Innovation 101: One Surgeon’s Perspective on Developing Disruptive Technology.” For the 2013 Expert Panel Consensus Conference, ISMICS took the 10th anniversary of that program back to its roots with a revisit of off-pump surgery. Consensus Panel Chair Dr. John Puskas will present the preliminary report of the Expert Panel, supplemented by a presentation on the Research by Dr. Davy Cheng and Janet Martin, PhD.

ISMICS continues to work with our industry partners in these challenging economic times, and the society remains very grateful for their continued commitment.

(continued on page 14)
When we set out to design the new COBRA Fusion, our goal was to create a new standard of performance for the treatment of Atrial Fibrillation. The result is a uniquely adaptable and effective platform that you have to experience to believe.

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ISMICS 2013 Consensus Statement:
OPCAB/Off Pump Surgery

The International Society for Minimally Invasive Cardiothoracic Surgery (ISMICS) is proud to have conducted its tenth Expert Panel Consensus Conference in 2013. This year’s panel, chaired by Dr. John Puskas of Emory University, focused on ‘OPCAB/Off-Pump Surgery.’ Dr. Davy Cheng of London Health Sciences Centre in Ontario, Canada served as primary researcher and biostatistician. The Consensus Conference was held last month at The Shelbourne Dublin Hotel in Dublin, Ireland on 25-27 May 2013.

ISMICS has assembled this international panel of experts to share their knowledge and expertise and to review the current literature as related to Off Pump Coronary Artery Bypass Surgery.

The main objective of the conference was to determine whether off-pump coronary artery bypass surgery (OPCAB) is superior to conventional on-pump coronary artery bypass surgery (CCAB) with respect to clinical outcomes and resource-related outcomes, and to determine whether effects differ across pre-specified risk groups and settings.

The primary outcomes of interest are death, stroke, AMI, RBC tx and need for reintervention, both in the short term and long-term follow-up. Secondary outcomes involve all other clinically relevant outcomes listed above, and resource-related outcomes. Systematic review of randomized trials were conducted according to recent guidelines set out by Cochrane Collaboration, and will be reported according to the PRISMA guidelines. Comprehensive searches of the literature were done in Medline, Embase, and Cochrane library.

More on the statement will be provided in the second Prague meeting issue of the ISMICS Insider.
### 2013 ISMICS EXHIBITORS

The Exhibition Hall is located in Congress Hall.

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<td>Wednesday 30 May</td>
<td>17.00 – 19.00 (Welcome Reception at 17.00)</td>
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<td>Thursday 31 May</td>
<td>07.30 – 11.30 &amp; 13.30 – 18.00 (Exhibit Hall Reception at 17.00)</td>
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<td>Friday 1 June</td>
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ISMICS Masters Day Program - Wednesday

8.00 – 10.00 MORNING GENERAL SESSION

State of the Art Lecture: Robotic Revascularization
Johannes Bonatti, MD

State of the Art Lecture: CABG
David Taggart, MD

State of the Art Lecture: Surgical Ablation Atrial Fibrillation
Niv Ad, MD

Great Debate: Atrial Fibrillation Monitoring and Follow-Up
Ralph Damiano, MD and Thorsten Hanke, MD

Great Debate: OPCAB is Superior to ONCAB for Most Patients
John Puskas, MD and Michael Halkos, MD

10.00 – 12.15 MORNING FOCUSED SESSIONS

ROBOTIC REVASCULARIZATION
Chair: Husam Balkhy, MD
Sternal Sparing Coronary Revascularization: Why We Need the Robot
How Does the Established Surgeon Get Started?
Robotic Revasc in Europe: Where Do We Go From Here?
What is the Best Way to Achieve a Robotic Revascularization/Hybrid Database?
Robotic Revascularization: Cannulation Techniques
Robotic Revasc Experience in Asia
Connector TECAB
Hybrid Coronary Revascularization Cardiologist’s View
Hybrid Coronary Revascularization Surgeon’s View
Imaging for Robotic Revascularization: Pre and Intra-op Considerations

OFF PUMP SURGERY
Chair: John Puskas, MD
Robotich CABG
Hybrid CABG
eMesh
Anastomotic Connectors
OPCAB Techniques

ATRIAL FIBRILLATION
Chair: Piotr Suwalski, MD and Niv Ad, MD
An Overview
Totally Thoracoscopic Bilateral Ablation with Left Atrial Appendage Exclusion
Robotic Approach
How Should the Left Atrial Appendage be Managed Minimally Invasively
What is the Ideal Hybrid Approach – An EP
The Industry Corner

11.00 – 12.15 AFTERNOON FOCUSED SESSIONS

MINIMALLY INVASIVE VALVE SURGERY
Chair: W. Randolph Chitwood, Jr., MD
Simplifying Mitral Valve Repair
Videoscopic Mitral Valve Repair: How I Do It!
Robotic Mitral Valve Repair: How I Do It!
Avoid Complications in Minimally Invasive Mitral Surgery

TRANSFACHER VALVES
Chair: Gino Gerossa, MD
TAVI Devices: An Updated Overview
TAVI Crucial Steps: Patient Selection, Access and Sizing
TAVI Crucial Steps: Implantation and Management of Complications
Is There a True “No Access” TAVI Patient?
Quality of Life and Cost-Effectiveness: Two Issues That Should Not Be Underestimated
An Emerging Alternative: Transaortic TAVI
Valve-in-Valve Heart Valve Implantation
Transapical Closure Devices

JOINT ISMICS/EACTS COURSE: THORACIC ROBOTIC SURGERY
Chair: Franca Melfi, MD
Learning Curve in Thoracic Robot Surgery
Robotic Versus Open Thoracic Surgery – Feasibility versus Validity
Current Results of Robotic Thoracic Surgery
Strategies for Challenging in Robotic Thoracic Surgery

13.00 – 17.15 AFTERNOON GENERAL SESSION

State of the Art Lecture: Planning and Assessing the Perfect Mitral Valve Repair
W. Randolph Chitwood, Jr., MD

State of the Art Lecture: Transcatheter Valves
Gregory Fontana, MD

State of the Art Lecture: Background and Current Limitations of Surgical Robotics

Great Debate: Mitral Valves: Transcatheter Mitral Valve Repair Will Become Standard of Care
Pro: Hermann Reichenspurner, MD / Con: Volkmar Falk, MD

Great Debate: Is Time for Expanding TAVI Indications to Medium Risk Patients?

15.00 - 17.15 AFTERNOON FOCUSED SESSIONS

THORACIC SURGERY
Chair: Kemp H. Kernstine, MD, PhD
Learning Curve in Thoracic Robot Surgery
Robotic Versus Open Thoracic Surgery – Feasibility versus Validity
Current Results of Robotic Thoracic Surgery
Strategies for Challenging in Robotic Thoracic Surgery

ROBOTIC CARDIAC SURGERY
Chair: Johannes Bonatti, MD
Principles of Robotic Cardiac Surgery
Robotic Mitral Valve Repair – Endoballon Method
Robotic Mitral Valve Repair – Chitwood Clamp Method
Robotic Coronary Surgery
Challenges in Robotic Cardiac Revascularization

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· Take notes on any session in the native app;
· And more....
POSTER COMPETITION GOES ELECTRONIC

The ISMICS Poster Competition remains one of the highlights of the Annual Meeting and provides attendees a unique opportunity to review their colleagues’ research. The Poster Competition is a peer-reviewed session conducted in two rounds. The First Round will be delivered on Thursday from 17:00 - 18:00 in the Congress Hall, with topic groups presenting concurrently. Over 100 posters will be presented. For the first time, all ISMICS competition and display posters will be presented in an all-electronic format.

Topics include: Revascularization Robotic, Heart Failure Revascularization, Imaging And Facilitating, Technology For Cardiac Surgery, Valve Aortic, Valve New Designs, Valve Mitral Mini, Thoracic, Aortic And Endovascular Therapies, Arrhythmias, and Perfusion. During these rapid-fire presentations, authors are allowed a maximum of three minutes, with two minutes for discussion. Participants score each presentation on quality of the presentation and significance of the research. Semi-finalists are selected for the final round and will be announced on Friday morning.

Final Rounds will be delivered from the podium in the main scientific session on Friday from 16:30 - 17:30. Presenters are again allowed a maximum of three minutes, followed by two minutes for audience questions and discussion. Judges will review and the winner will be announced on Friday evening.

Good luck to all of the ISMICS poster presenters.

Chief Moderator: Rex Stanbridge, MD

Previous Winners

<table>
<thead>
<tr>
<th>Year</th>
<th>Winner</th>
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<tbody>
<tr>
<td>2012</td>
<td>Sreekumar Subramanian</td>
</tr>
<tr>
<td>2011</td>
<td>Pencilla Lang</td>
</tr>
<tr>
<td>2010</td>
<td>Andrew B. Goldstone</td>
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<tr>
<td>2009</td>
<td>Faraz Kerendi</td>
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<td>2008</td>
<td>Tine Philipsen</td>
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<td>2007</td>
<td>John D. Puskas</td>
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<td>2006</td>
<td>Simon C. Moten</td>
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<td>2005</td>
<td>Nimesh Desai</td>
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<tr>
<td>2003</td>
<td>Johannes Bonatti</td>
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<tr>
<td>2002</td>
<td>Vassilios Gulielmos</td>
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<tr>
<td>2001</td>
<td>Fraser D. Rubens</td>
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<td></td>
<td>Marc Ruel</td>
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The first round of the poster competition in Los Angeles, 2012.
TURN THE RIGHT CORNER IN SIM CITY, AND YOU CAN FIND ANYTHING...

ISMICS

SIM CITY

Congress Hall 1
Hilton Prague

Supported By:

Medtronic
Welcome from the President

between faculty and attendees, with increased time for discussion. Wednesday evening will feature the always popular “Technical Challenges: Pitfalls and Disasters” course, chaired by Valavanur A. Subramanian, MD and Alex Zapolski, MD.

New this year will be a special area in the Exhibit Hall reserved for “hands on” simulation and training – “Sim City” – where you will be able to actually test and practice various techniques, technologies, and equipment. We encourage you to stop by and experiment.

Speaker highlights include the Kit Arom lecture by Dr. William E. “Billy” Cohn, one of our leading innovators; Dr. Joseph E. Bavaria, a world leader in Minimally Invasive Cardiothoracic Surgery; and Dr. John D. Zapolanski, MD.

Puskas, chair of this year’s Consensus Statement, will report on OPCAB.

The Social Program takes advantage of our location this year and embraces the history and architecture of the Czech Republic. The Attendee Reception at the historic Zofin Palace on Friday, captures the ambience of Old Europe with a modern edge – entertainment by Rekord!, the rock band led by ISMICS own recording artists Volkmar Falk, Piotr Suwalski and colleagues.

I also invite you to join me for the President’s Nightcap on Thursday evening in the Cloud 9 Sky Bar & Lounge.

We look forward to a great meeting and are pleased that you have joined us in Prague. Díkuji.

From the Executive Director

ment to ISMICS. This year ISMICS has debuted a new segment of our hall entitled “Sim City,” which we encourage you to visit to experience hands-on simulation opportunities throughout the day. And one tradition ISMICS continues is the Welcome Reception and Thursday evening reception held right in the Exhibit Hall, so that everyone can spend time meeting with our industry partners. A list of our supporters and their location in the Exhibit Hall and Sim City is included in the INSIDER for your convenience.

As many of you know, last year our own ISMICS journal INNOVATIONS received recognition by the National Library of Medicine and be included in PubMed/MEDLINE. As the journal is now indexed, all presenters at the ISMICS Annual Meeting are expected to submit their work to the journal, and we are offering both a pre-Meeting Best Manuscript as well as a post-Meeting Best Manuscript cash award. The journal is continuing to grow under the efforts of our Editor in Chief, Dr. Ralph Damiano, and our Managing Editor, Carol Blasberg. If you have any questions about your submission to INNOVATIONS, please see either of them while you are here in Prague.

While ISMICS has always had a very active Board of Directors, Scientific Program Committee and Nominating Committee, through the years other committee activity was sporadic. This year we have had several very engaged committees, focused on Membership, Electronic Content and Technology, and Investments. Each of these committees has participated in conference calls, taken action, and presented reports and recommendations to the Board of Directors. Sincere thanks to the Chairs and committee members for your commitment to moving ISMICS forward and offering your time and insight.

ISMICS also remains committed to being an inclusive and welcoming society. We hope that many of our non-member attendees here in Prague will make application to join the Society while you are here. We have many members willing to sponsor new members, and application can be made online or through the paper applications we will have with us onsite. Please visit the Registration Desk and make application to ISMICS today!

Each year as a write this message, I reflect on what an honor it is for me to serve as your Executive Director. I think of the many Presidents I have had the privilege to work with over the years, and how grateful I am that you remain engaged and involved with ISMICS. I am always impressed by the commitment of the Board of Directors, and your willingness to give so freely of your time to our Society.

I sincerely thank Dr. Alan Meniks, this year’s President, for your stewardship of ISMICS over the past year, as well as our many talks and meetings in so many places around the world over the past 12 months. It has been an absolute pleasure.

While I am your Executive Director, I could not do what I do for ISMICS without my amazing team.

From weathering (literally) floods to “Sim City” - an actual test and circulation of our location this year and embraces the history and architecture of the Czech Republic. The Attendee Reception at the historic Zofin Palace on Friday, captures the ambience of Old Europe with a modern edge – entertainment by Rekord!, the rock band led by ISMICS own recording artists Volkmar Falk, Piotr Suwalski and colleagues.

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Not an ISMICS Member? Join TODAY

ISMICS is helping shape the future of less invasive cardiac, vascular and thoracic surgery on a global basis. The mission of the Society is to lead and promote innovation and technological advancement in cardiothoracic and cardiovascular surgery through scientific analysis and education. If you are here in Prague, you KNOW the value of ISMICS’ educational programs.

The Society has over 800 international members. Stop by the Registration Area and complete an application onsite. Current Members are available to serve as your sponsor.
ISMICS wishes to thank these companies for their support of the Society and for their commitment to developing minimally invasive surgery techniques and technologies:

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