Welcome to Berlin and the ISMICS Annual Meeting! The ISMICS meeting provides the perfect venue to experience the newest and most innovative developments in cardiac, vascular, and thoracic surgery. The program includes many outstanding scientific sessions, presentations, debates, and speakers, along with many opportunities to visit with colleagues and friends. We hope that you will also take time to visit this wonderful city and experience its unique culture and traditions.

An exceptional scientific program has been developed by the Program Committee, under the direction of Chairpersons Tomislav Mihaljevic, MD, Richard S. Lazzaro, MD, Hendrick Treede, MD, Jens C. Rückert, MD, and (continued on page 7)

Welcome to ISMICS 2015

MEETING HIGHLIGHTS

Wednesday

Cardiac Masters Day
Offsite Thoracic Masters Day Featuring Live Case Presentations
SIM CITY
Young Surgeons Encouraged to Attend the Simulation Based Training
Technical Challenges, Pitfalls & Disasters

Thursday

Thoracic Masters Day Didactic Presentations
Cardiac Abstracts
Poster Competition: 1st Round
Presidential Address: Prof. Volkmar Falk, M.D.
Deutsches Herzzentrum Berlin

Berlin Welcomes the ISMICS Annual Meeting

The ISMICS Annual Meeting is one of the foremost educational events for minimally invasive thoracic and cardiovascular professionals and Berlin provides the perfect setting for this exceptional scientific meeting and outstanding social events.

In addition to the ISMICS Attendee Reception on Friday evening at the Meistersaal, we encourage you to take full advantage of all that this historic city has to offer. Berlin is a world city of culture, politics, media, and science.

Divided during the Cold War, today’s Berlin is known for its art scene, nightlife and modern architecture, such as Mies van der Rohe’s landmark Neue Nationalgalerie. Reminders of the city’s turbulent 20th century history include the Holocaust Memorial and the Berlin Wall’s graffitied remains.

The Brandenburg Gate has become an iconic symbol of reunification. Throughout its existence, the Brandenburg Gate was often a site for major historical events and is today considered a symbol of the tumultuous history of Europe and Germany, but also of European unity and peace.
EDWARDS INTUITY Elite VALVE SYSTEM

Built on a Proven Trusted Valve Platform

VASOVIEW HEMOPRO 2
Endoscopic Vessel Harvesting System

- Safe & effective
- Patient friendly
- Cost saving

This document is intended to provide information to an international audience outside of the US.
ISMICS Research and Education Fund Announces NEW Awards

ISMICS Chitwood Educational Travel Awards

ISMICS and the ISMICS Research and Education Fund, will be awarding, for the first time, two “Chitwood Educational Travel Awards.” These awards are provided through the ISMICS Research and Education Fund, via a contribution to ISMICS by former ISMICS President, Dr. W. Randolph Chitwood, Jr.

Each award will be for $1,000. The two selected winners will also receive complimentary Annual Meeting registration, and a year’s complimentary Candidate membership in ISMICS, which includes a subscription to ISMICS journal, INNOVATIONS.

All Residents and Fellows attending the 2015 ISMICS Annual Meeting were eligible to submit for consideration. Applicants were required to submit:

- A 500 word statement on why they believe it is important for young surgeons to attend the ISMICS Annual Meeting, and why it is important for young surgeons to be part of a Society like ISMICS;
- A letter from their hospital confirming Resident or Fellow status; and
- A copy of their CV.

The Winners will be announced on Thursday, immediately after the introduction of the New Members during the Morning Plenary Session.

Subramanian Innovation Award

ISMICS is extremely grateful to Dr. Valavanur “Mani” Subramanian for his generous donation to the ISMICS’ Research and Education Fund in support of the Subramanian Innovation Award.

Please watch your email and the ISMICS website (www.ismics.org) for further details on how you can apply!

ISMICS After Hours

Welcome Reception
Wednesday 3 June (17:15-19:00) InterContinental Hotel - Berlin Potsdam Foyer & Potsdam II

Exhibition Hall Reception
Thursday 4 June (17:15-18:30) InterContinental Hotel - Berlin Potsdam Foyer & Potsdam II

Attendee Reception
Friday 5 June (16:30-20:30) Moetenassl - Berlin Köthener Str. 38, 10963

2015 SOCIAL EVENTS:

EDWARDS EDITORIAL: Rapid Deployment with the EDWARDS INTUITY Elite Bioprosthesis: MIS-AVR Reoperations Made Simpler?

Tommaso Danesi Hinna, Loris Salvador, San Bortolo Hospital, Vincenza, Italy

Optimal application of new devices typically evolves naturally with time and experience. Yet despite the advantages of rapid deployment (or sutureless) valves, including ease of implantation, fast learning curves and the associated reduction of procedural times, clear-cut indications remain broadly undefined.

As Minimally-Invasive Surgical Aortic Valve Replacement (MIS AVR) requires easily implantable devices, rapid deployment devices are especially suitable for UHI and RAT videothoracoscopy; in our view, potentially one of the more interesting applications is for redo-MISAVR patients.

Indeed patients undergoing redo-MISAVR due to a failed conventional stented, stentless or full root prosthesis, often require lengthy procedures, with a high risk of injury during debridement especially in small calcified annuli or during the removal of degenerated aortic root stentless bioprosthesis. In these challenging cases RD AVR could prove the difference.

We report herein our first two implants of an EDWARDS INTUITY Elite valve in complex redo-MISAVR. The first patient was a 55-year-old male with systemic and pulmonary hypertension, HCV chronic infection and persistent AFib. In 2015, the patient presented with a severe calcific degeneration of the homograft and underwent a minimally invasive upper J-resterotomy with a 21 mm EDWARDS INTUITY Elite. Aortic cross clamp and CPB time were 62 and 113 minutes respectively. No inotropic agents were needed. AMV time, ICU stay and hospital stay were 3 hours, 1 and 6 days respectively.

These two cases demonstrate how the prosthetic choice at the time of the first and second operation is crucial. The classical surgical approach would have required a redo-Bentall-de Bono procedure with a higher grade of surgical complexity and risk. Rapid deployment bioprostheses demonstrated to be safe and suitable for redo-MISAVR patients, allowing performing fast and efficient reoperation in a safe minimally invasive fashion. In our experience redo-MISAVR has finally become “minimal” for patients and “simpler” for surgeons.

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The following companies are supporting industry symposia, which are not part of the official ISMICS scientific program:

**THURSDAY, 4 JUNE 2015**

- Edwards Lifesciences (Luncheon)
  11.45-13.15 / Tiergarden I Room
- Medtronic (Luncheon)
  11.45-13.15 / Charlottenburg II Room
- Sorin Group — (Luncheon)
  11.45-13.15 / Charlottenburg III Room
- St. Jude Medical (Luncheon)
  11.45-13.15 / Charlottenburg II Room
- AtriCure (Dinner)
  18.00-20.00 / Potsdam I Room

**FRIDAY, 5 JUNE 2015**

- Siemens (Breakfast)
  06.30-07.50 / Tiergarden Room
- HeartWare (Luncheon)
  12.00-13.30 / Charlottenburg II Room
- Medtronic (Luncheon)
  12.00-13.30 / Charlottenburg I Room
HeartWare Inc.
500 Old Connecticut Path, Framingham, MA 01701
www.heartware.com

HeartWare is dedicated to delivering safe, high-performing and transformative therapies that enable patients with heart failure to get back to life. The company’s breakthrough innovations begin with the HVAD® system, designed to be implanted in the pericardial space avoiding the more invasive surgical procedures required with older LVAD technologies. The HVAD® system is commercially available around the world.

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Intuitive Surgical is the global leader in minimally invasive, robotic-assisted surgery. Its da Vinci® Surgical System – with a 3D-HD vision system and EndoWrist® instrumentation – enables surgeons to offer a minimally invasive approach for a range of complex procedures. da Vinci is used in more than 2,500 hospitals around the world.

JenaValve Technology GmbH
Guerickestr. 25, 80805 Munich, Germany
www.jenavalve.com

JenaValve™ Technology is a medical device company focused on developing transcatheter aortic valve implantation (TAVI) systems to treat patients suffering from aortic valve disease. The company’s vision is to develop second generation transcatheter aortic valve implantation (TAVI) systems for transapical and transfemoral implantation to address the needs of the cardiac surgeon and cardiologist, respectively. Company’s transapical TAVI system is the world’s first and only TAVI system CE-approved for the treatment of aortic stenosis and aortic insufficiency thanks to its unique features: feeler guided anatomically correct positioning, clipping mechanism to actively fix the prosthesis onto the native leaflets and a controlled and intuitive 3-step delivery mechanism. The company is based in Munich (Germany), Irvine (USA), Leeds (UK).

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MAQUET Medical Systems is a market leader focused on improving patient care and quality of life. We offer a comprehensive portfolio of innovative products designed to meet the needs of clinical professionals in the areas of advanced hemodynamic monitoring, cardiothoracic and vascular surgery, thoracic drainage, cardiac intervention, perfusion, anesthesia and ventilation.

Medtronic, Inc.
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www.medtronic.com

Medtronic, headquartered in Dublin, Ireland, is the global leader in medical technology – alleviating pain, restoring health and extending life for millions of people around the world. Medtronic operates in 160 countries with more than 85,000 employees around the world. Medtronic’s breadth of solutions in structural heart and aortic disease management includes: tissue, mechanical and transcatheter valves as well as a comprehensive portfolio of OPCAB, MICS CABG and carniulla products.

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quick learning curve. The company’s headquarters are in Ecublens (Lausanne),
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Wexler Surgical designs and manufactures a variety of titanium and stainless
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racic, and Micro Surgery. Come see our VATS/MICS instruments and ask
about our Optimus Series. Visit us online at www.wexlersurgical.com for more
information about our products and the services.

Aurelie M. Alger, JD

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IMA DE LA VENAGIE 11, CH-1024 Ecublens, Switzerland
Strada Per Crescentino Saluggia, 13040, Italy
Switzerland

Smartcanula LLC presents its new meshed 24F Smartcanula/iST which was
inserted through a 20F access vessel, drains directly at all levels of the vena cava,
and provides a dry surgical field.

Smartcanula Ltd. 21 AVE de Tribunal Federal, Lausanne, CH-1005,
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by-pass can also be optimized to minimize postoperative complications without
compromising the quality of the surgical procedure. To learn more, please visit
us at booth #212.

St. Jude Medical

St. Jude Medical develops medical technology designed to put more con
trol into the hands of those who treat cardiac, neurological and chronic pain pa-
cients worldwide. The company is dedicated to advancing the practice of med-
cine by reducing risk wherever possible and contributing to successful patient
outcomes. Learn more at sjmprofessional.com.

Symetis

Symetis is a leading developer of innovative, transcatheter aortic valve implan-
tation (TAVI) systems for transfemoral and transapical access routes. The company’s CE marked products, ACURATE TA™ and ACURATE neo™, are
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The program begins on Wednesday with a full Masters Day Program. The morning General Session courses will included “How I Do It: Live in a Box” presentations, as well as state-of-the-art lectures on Hybrid Coronary Revascularization, Establishing a Minimally Invasive Aortic Surgery Program, and New Innovations in LVAD Therapy. Focused sessions will follow that delve into more details and provide ample opportunity for discussion and debate among presenters and the audience.

The morning program also features a Thoracic Masters off site opportunity at the Berliner Medizinhistorisches Museum der Charite where attendees will view two parallel live operations on robotic thymectomy and unipolar VATS.

The afternoon sessions will continue with the “How I Do It” presentations and additional state-of-the-art lectures, as well as focused sessions on Minimally Invasive Robotic Mitral Valve Surgery, Arrhythmia, and Transcatheter Mitral.

Wednesday evening will feature the always popular “Technical Challenges: Pitfalls and Difficulties” course, chaired by Valavanur A. Subramanian, MD and Ramchandra C. Reddy, MD where fifteen of the most challenging and unusual cases are presented and reviewed by the audience.

Speaker highlights include the Presidential Address by Volkmar Falk on Thursday, the Kit V. Anom Lectureship on “The Evolution of Modern Cardiac Surgery and the Necessity to Change” by Hermann Reichenpumper, MD from University Hospital Eppendorf, Hamburg, Germany, and the Keynote Address which will be presented by Prof. Wendelin Stark from the ETH Zurich Institute for Chemical and Bioengineering in Zurich, Switzerland.

Once again this year “SIM City” will feature hands on simulation and training, where you can actually test and practice various techniques, technologies, and equipment. We encourage you to stop by and experiment. In addition to SIMCity, please stop by the ISMICS Exhibition Hall in the Potsdam Foyer and Potsdam Ballroom to view the latest offerings from our industry colleagues and supporters.

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The Social Program takes advantage of this year’s location and embraces the history and architecture of Berlin. On Friday, Dr. Volkmar Falk, ISMICS President, invites you to join us at the Attendee Reception at Meistersaal Berlin, to experience the history behind the Meistersaal, enjoy live music, and relax with your colleagues.

The Meistersaal is an historic concert hall built in 1919 as a chamber music concert hall. It is one of the remaining buildings that survived the Second World War and one of the few remaining concert and dance halls from the golden 20s of Berlin. The golden era of the Meistersaal was during the epic times after 1961 when it was used as a recording studio. The Meistersaal was known across the globe in music circles as "The big hall by the wall" or "the studio by the wall".
TURN THE RIGHT CORNER IN SIM CITY,
AND YOU CAN FIND ANYTHING...

Pavilion Room
InterContinental Hotel

Wednesday (3 June):
10:00 - 12:00
14:00 - 17:00
Young surgeons encouraged to attend!

Thursday (4 June):
07:30 - 17:00

Friday (5 June):
07:00 - 16:30

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Aortic and Mitral Bioprostheses 16 and 11 Year Clinical Compendium data from
the Mosaic long-term, post approval study (PMA). ©Medtronic, Inc. 2014.
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Welcome to ISMICS 2015

The Best Moderated Poster Competition is a peer-review session conducted in two rounds. The first round will be held on Thursday at 17.00. First round presentations are divided into topic groups, with several groups presenting concurrently. Topic groups include: Minimal Invasive General; Imaging, Perfusion, and Clotting; Assist Devices, Heart Failure and Pediatric; Arrhythmia Surgery; Coronary Grafting and Conduits; Revascularization Strategy; Cancer; Thoracic General; Aortic Valve; Mitral; and Valve - Transcatheter Therapies. Participants score each presentation in the First Round.

The highest scoring posters in each group are the semi-finalists. In the Final Round, on Friday at 16.30, the semi-finalists make their presentations to the entire audience. Topic moderators score the semi-finalists to select the Best Moderated Poster.

The Best Moderated Poster Competition Held on Thursday and Friday

The highest scoring posters in each group are the semi-finalists. In the Final Round, on Friday at 16.30, the semi-finalists make their presentations to the entire audience. Topic moderators score the semi-finalists to select the Best Moderated Poster.

2014 Winners: Duy Nguyen and Candice Y. Lee

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1. Download Guidebook from the Apple App store or the Android Market Place
2. Scan the QR Code with your mobile phone or search “ISM/COS2015”

FEATURES:
- BROWSE the entire schedule for Annual Meeting, sessions and events.
- Program Schedule
- View an Exhibit floor MAP
- Create your own PERSONAL SCHEDULE. Choose “Add an Item to My Schedule” within a session to add the session to “My Schedule”. Choose “View” to view sessions added to your schedule.
- CONNECT with colleagues for activities, sessions and social events. Choose “To see who is attending the Annual Meeting.”
- LEARN MORE about the International Society for Minimally Invasive Cardiothoracic Surgeons by choosing
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ISMICS Insider
The official newspaper of the ISMICS 2015 Annual Meeting

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One Plaza, St. Paul, MN 55107
www.scanlaninternational.com
Highest quality surgical products designed and manufactured by the Scanlan family since 1921. Full line of VATS instruments including the New Gonzalez-Rivas Lung Grasper for Uniportal, Cardiac instruments including the New Mini-AVR Chimney Clamp, LEGACY titanium needle holders and forceps. Single-use products include SCANLAN® Aorta/Vein Punch, VATCUT® bulldog clamps.

Siemens AG, Healthcare
Nonnenmadammestraße 101, Berlin, 13629, Germany
www.healthcare.siemens.com
Siemens Healthcare is one of the world’s largest suppliers of technology to the healthcare industry and a leader in medical imaging, laboratory diagnostics and healthcare IT. All supported by a comprehensive portfolio of clinical consulting, training, and services available across the globe and tailored to customers’ needs.

Smartcanula LLC.
21 Ave de Tribunal Federal, Lausanne, CH-1005, Switzerland
www.smartcanula.com
Smartcanula LLC presents its new meshed 24F Smartcanulati ST which was specifically developed for Minimally Invasive Cardiac Surgery (MICS) with augmented venous drainage. The 24F Smartcanulati ST can be inserted through a 20F access vessel, drains directly at all levels of the vena cava, and provides a dry surgical field.

Sorin Group ITALIA
Strada Per Crescentino Saluggia, 13040, Italy
www.sorin.com
Sorin’s comprehensive MICS offering includes educational programs with the latest surgical techniques, innovative tunnelless heart valves and mitral repair solutions, unique MICS canuulae and surgical instruments. When combined with Sorin Group Goal-Directed Perfusion systems, the cardiopulmonary by-pass can also be optimized to minimize postoperative complications without compromising the quality of the surgical procedure. To learn more, please visit us at booth #212.

St. Jude Medical
Avenue Da Vinci 11, Zaventem, 1935, Belgium
www.sjm.com
St. Jude Medical develops medical technology designed to put more control into the hands of those who treat cardiac, neurological and chronic pain patients worldwide. The company is dedicated to advancing the practice of medicine by reducing risk wherever possible and contributing to successful patient outcomes. Learn more at sjmprofessional.com.

Symetis
Chemin de la Venage 11, CH-1024 Ecublens, Switzerland
www.symetis.com
Symetis is a leading developer of innovative, transcatheter aortic valve implantation (TAVI) systems for transmemoral and transapical access routes. The company’s CE marked products, ACURATE TAV® and ACURATE neo™, are based on proprietary geometry and delivery technologies. Our bioprostheses are based on a unique, intelligent, self-seating and self-sealing design that allows for optimal positioning and predictable deployment of the valve. Our ACURATE TAVI systems are intuitive and easy to use allowing for a quick learning curve. The company’s headquarters are in Ecublens (Lausanne), Switzerland. Manufacturing sites are in Ecublens, Switzerland and Belo Horizonte, Brazil.

Wexler Surgical
11333 Chimney Rock Road Suite #110, Houston, TX 77035
www.wexlersurgical.com
Wexler Surgical designs and manufactures a variety of titanium and stainless steel specialty surgical instruments and products for Cardiac, Vascular, Thoracic, and Micro Surgery. Come see our VATS/MICU instruments and ask about our Optimus Series. Visit us online at www.wexlersurgical.com for more information about our products and the services.

The expansion of programming to include live surgery is a sign of ISMICS’ continuing mission to innovate across all areas of cardiac, thoracic and cardiovascular surgery. Yet in its efforts to innovate ISMICS does not forget popular programming aspects, such as our 2-day Poster Competition, the hands-on opportunities presented by “SimCity,” and the ever-popular “Technical Challenges: Pitfalls and Disasters” session on Wednesday evening. On the “change” side, you will note that this year the INNOVATIONS abstract issue is online only. Special thanks to our Editor, Dr. Ralph Damianio, and our Managing Editor, Carol Blasberg, for their efforts to produce this special online supplement for ISMICS. The full ISMICS program and abstracts are also available via our Meeting App, and we encourage you to download that today - we are pleased to offer our attendees complimentary Wi-Fi throughout the meeting space for the duration of our conference.
ISMICS strives to communicate with our members and attendees in as many media forms as possible, so in addition to the App and the online abstract issue of our journal, we will continue to offer both print and online versions of the ISMICS Insider, our daily newspaper, to provide real time updates for our attendees.

A very special aspect of ISMICS is the continued involvement of our Past Presidents, and I would be remiss in not acknowledging three Past Presidents who have established named Awards through the ISMICS Education and Research Fund. Special thanks to Dr. W. Randolph Chipot, Dr. Mani Subramaniam, and Dr. Naresh Trehan for their personal contributions to establish ISMICS Awards for Resident Fellow Travel, for Innovation, and for Young Investigators, respectively.

In addition, Dr. Ferdinand continues to oversee development for the Annual Meeting and international outreach on educational programs. Virtually every ISMICS Past President continues to remain active in some capacity with the society – something not many organizations can say!

A panel discussion from the 2014 Annual Meeting in Boston.

A Message From Your ISMICS Executive Director
I am delighted to welcome our attendees and industry partners to the vibrant city of Berlin for our 2015 ISMICS Annual Meeting. This year’s meeting has a special significance for its location, with our President, Professor Volkmar Falk, now a Berlin resident in his capacity as head of the German Heart Centre.
ISMICS last met in Berlin in 2010, and over the past 5 years the society has continued to expand, grow its membership, and co-sponsor an increasing number of courses on an international basis. That is not to say that this year’s return to Berlin has not brought some challenges – we are sharing the city and particularly our hotel with the UEFA Champions League Finals, which has made housing arrangements over the weekend extremely difficult. That said, we hope that you and your family and friends enjoy the additional festive atmosphere which the Champions League Finals are generating here in the city.

As of last week we had total pre-registration of 427, not including our industry partners. Europe has always had very high onsite registration for ISMICS, with the 2010 Berlin meeting setting records, so we hope to see the high registration figures for which ISMICS is known continue to climb. Our membership now stands at 874 and continues to grow thanks to the efforts of our Secretary, Professor Grandman, our Board of Directors, and our Membership Chair, Dr. Nifong.

ISMICS 2015 is proud to be able to offer our attendees Live Surgical Cases, something done only once before in the New York Meeting in 2005. There will be live Thoracic Presentations on Wednesday during the offsite Thoracic Program at the Berliner Medizinhistorisches Museum de Charité, and then on Friday there will be two live Cardiac Presentations transmitted to the InterContinental from the Berlin Heart Center. Both days offer 3D transmission of the surgeries.

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Your President Dr. Falk has focused extensively on continuing to expand the reach of ISMICS, and also in insisting that the society offer the finest scientific presentations, speakers and faculty. Despite an incredibly busy schedule with his move to Berlin last fall, Dr. Falk always found time for ISMICS and overseeing all aspects of the Society, from Board Meetings, to industry discussions, to scientific programming. He joined ISMICS in 1998, only one year after the Annual Meeting and international outreach on educational programs. Virtually every ISMICS Past President continues to remain active in some capacity with the society – something not many organizations can say!

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HeartWare, Inc.

500 Old Connecticut Path, Framingham, MA 01701

HeartWare is dedicated to delivering safe, high-performing and transformative therapies that enable patients with heart failure to get back to life. The company’s breakthrough innovations begin with the HVAD® system, designed to be implanted in the pericardial space avoiding the more invasive surgical procedures required with older LVAD technologies. The HVAD® system is commercially available around the world.

Intuitive Surgical, Inc.

1020 Kifer Rd., Sunnyvale, CA 94086

Intuitive Surgical is the global leader in minimally invasive, robotic-assisted surgery. Its da Vinci® Surgical System – with a 3D-HD vision system and EndoWrist® instrumentation – enables surgeons to offer a minimally invasive approach for a range of complex procedures. da Vinci is used in more than 2,500 hospitals around the world.

JenaValve Technology GmbH

Guerickestr. 25, 80805 Munich, Germany

JenaValve™ Technology is a medical device company focused on developing transcatheter aortic valve implantation (TAVI) systems to treat patients suffering from aortic valve disease. The company’s vision is to develop second generation transcatheter aortic valve implantation (TAVI) systems for transapical and transfemoral implantation to address the needs of the cardiac surgeon and cardiologist, respectively. Company’s transapical TAVI system is the world’s first and only TAVI system CE-approved for the treatment of aortic stenosis and aortic insufficiency thanks to its unique features: feeler guided anatomically correct positioning, clipping mechanism to actively fix the prosthesis onto the native leaflets and a controlled and intuitive 3-step delivery mechanism. The company is based in Munich (Germany), Irvine (USA), Leeds (UK).

LSI Solutions

7796 Victor-Mendon Road, Victor, NY 14564

COR-KNOT® delivers instant security with automated knot placement and integrated suture trimming in one easy step. COR-KNOT® may reduce cardiopulmonary bypass and cross-clamp time in your OR. Visit LSI SOLUTIONS® at booth P200 to learn more.

MAQUET Medical Systems, USA

45 Barbour Pond Road, Wayne, NJ 07470

MAQUET Medical Systems is a market leader focused on improving patient care and quality of life. We offer a comprehensive portfolio of innovative products designed to meet the needs of clinical professionals in the areas of advanced hemodynamic monitoring, cardiothoracic and vascular surgery, thoracic drainage, cardiac intervention, perfusion, anesthesia and ventilation.

Medtronic, Inc.

710 Medtronic Parkway, Minneapolis, MN 55432

Medtronic, headquartered in Dublin, Ireland, is the global leader in medical technology – alleviating pain, restoring health and extending life for millions of people around the world. Medtronic operates in 160 countries with more than 85,000 employees around the world. Medtronic’s breadth of solutions in structural heart and aortic disease management includes: tissue, mechanical and transcatheter valves as well as a comprehensive portfolio of OPCAB, MICS CABG and cannulae products.

Your vessel harvest is done, but the impact of the conduit quality on cardiac bypass outcomes is just beginning.

The new VirtuoSaph® Plus Endoscopic Vessel Harvesting System helps deliver a conduit you can have confidence in every time.

- Simple, one-step coagulate-and-cut mechanism delivers low targeted energy at the tunnel wall away from the main conduit
- Advanced spot cautery provides direct cautery in the tunnel
- Longer effective dissector length with V-Gliss PTFE surface
- Open system and ergonomic design just like the original VirtuoSaph system

There’s an ongoing need to improve conduit quality. The VirtuoSaph Plus EVH system is the answer.

Visit www.terumo-cvgroup.com/vaplus to find out more.

New VirtuoSaph® Plus

Endoscopic Vessel Harvesting System

Harvesting a new standard of care.

To watch on your smartphone, scan this code.
Abbott Vascular Deutschland, GmbH
Schonenfeld Str. 2, 35578 Wetzlar, Germany
Abbott Vascular is the world’s leader in drug-eluting stents. Abbott Vascular has an industry-leading pipeline and a comprehensive portfolio of market-leading products for cardiovascular care, including products for coronary artery disease, vessel closure, endovascular disease and structural heart disease.

Aesculap AG
P210 & P223
Am Aesculap Platz, Tuttlingen, 78532, Germany
www.aesculap.de
Aesculap - a B. Braun company offer an extensive cardiovascular instrument portfolio. Our range of Minimal Invasive Valve Surgery Instrumentation and the new Einstein Vision 3D HD Camera system are the results of high objective of creating surgical innovations. Our first-class products simplify the daily routine of surgeons all over the world. The latest instrument series is pursuing a goal: to improve therapies and make processes more efficient.

Cardio Medical GmbH
Industriestraße 3A, Cangenhagen, 30855, Germany
www.cardiomedical.de
Your innovative partner of medical technology. This year the company CardioMedical celebrates its 21st anniversary. The company markets advanced medical quality products for cardiac, thoracic and vascular surgery. Under its own label CardiVision it has been 21 years now that the company offers its high-tech surgical products for minimally invasive surgery and future technologies made in Germany.

Dendrite Clinical Systems, Ltd
The Hub, Station Road, Henley-on-Thames, Oxfordshire, RG9 2BA, United Kingdom
www.e-dendrite.com
Dendrite Clinical Systems is a specialist supplier of cardiac database systems for hospitals and national registries, with installations in over 40 countries around the globe. Dendrite has published the series of Adult Cardiac Surgical Database Reports and developed, and is currently hosting, the EURIMACS Registry for collecting data on mechanical circulatory support devices. Dendrites flexible software can create a database for any clinical scenario and to track any outcome. Please visit our booth for a software demonstration.

Direct Flow Medical, Inc.
Kerkbrader Str., Giessen 35394, Germany
www.directflowmedical.com
Direct Flow Medical is a transcatheter heart valve innovator focused on technologies that improve patient outcomes while reducing complications. Its non-metallic, double-ring TAVI device is fully repositionable, retrievable and designed to minimize aortic regurgitation. The Direct Flow valve is commercially available in Europe and undergoing pivotal trial in the USA.

Edwards Lifesciences
Route de l’Etraz 70, Nyon, CH - 1260, Switzerland
www.edwards.com
Edwards Lifesciences is the global leader in the science of heart valves and hemodynamic monitoring. Driven by a passion to help patients, the company partners with clinicians to develop innovative technologies in the areas of structural heart disease and critical care monitoring, enabling them to save and enhance lives. Additional company information can be found at www.edwards.com.

Fehling Instruments GmbH & Co. KG
Hanauer Landstr. 7A, Karlstein, 63791, Germany
www.fehling-instruments.de
FEHLING INSTRUMENTS is a traditional family owned and family run company with more than thirty years of experience in the medical business. FEHLING INSTRUMENTS develops, manufactures, and distributes surgical instruments, implants and single use products for use mainly in the OR and provides all corresponding re-pair service. FEHLING INSTRUMENTS is constantly striving for excellence in function and economy of products. This objective is achieved by continuous innovation in materials, mechanics and design.

Gebrüder Martin GmbH & Co KG
KLS Martin Platz 1, Tuttlingen, 78532, Germany
www.kls-martin.com
The KLS Martin Group is a manufacturer of high-quality instruments with the objective of creating surgical innovations. Our first-class products simplify the daily routine of surgeons all over the world. The latest instrument series marCore® demonstrates how we manage to meet the surgeon’s hands to the applied tools for minimally invasive surgery.

Geister Medizintechnik GmbH
Foehrenstrasse 2, Tuttlingen, D-78532, Germany
www.geister-chirurgie.com
Geister is celebrating 30 years of providing instruments for life and 20 years of excellence in MICS! With unparalleled experience, close cooperation with opinion leaders, Geister is proud to offer the highest quality instrumentation available. Please see our ValveGate™ and ValveGate™PRO lines for the leading edge in MICS products.

Industry Symposium
The following companies are supporting industry symposia, which are not part of the official ISMICS scientific program:

Thursday, 4 June 2015
Edwards Lifesciences (Luncheon)
11.45-13.15 / Tiergarden Room
Medtronic (Luncheon)
11.45-13.15 / Charlottenburg I Room
Sorin Group — (Luncheon)
11.45-13.15 / Charlottenburg II Room
St. Jude Medical (Luncheon)
11.45-13.15 / Charlottenburg III Room
AtriCure (Dinner)
18.00-20.00 / Potsdam I Room

Friday, 5 June 2015
Siemens (Breakfast)
06.30-07.50 / Tiergarden Room
HeartWare (Luncheon)
12.00-13.30 / Charlottenburg II Room
Medtronic (Luncheon)
12.00-13.30 / Charlottenburg I Room
ISMICS Research and Education Fund Announces NEW Awards

ISMICS Chitwood Educational Travel Awards

ISMICS and the ISMICS Research and Education Fund, will be awarding, for the first time, two “Chitwood Educational Travel Awards.” These awards are provided through the ISMICS Research and Education Fund, via a contribution to ISMICS by former ISMICS President, Dr. W. Randolph Chitwood, Jr.

Each award will be for $1,000. The two selected winners will also receive complimentary Annual Meeting registration, and a year’s complimentary Candidate membership in ISMICS, which includes a subscription to ISMICS journal, INNOVATIONS.

All Residents and Fellows attending the 2015 ISMICS Annual Meeting were eligible to submit for consideration. Applicants were required to submit:

- A 500 word statement on why they believe it is important for young surgeons to attend the ISMICS Annual Meeting, and why it is important for young surgeons to be part of a Society like ISMICS;
- A letter from their hospital confirming Resident or Fellow status; and
- A copy of their CV.

The Winners will be announced on Thursday, immediately after the introduction of the New Members during the Morning Plenary Session.

Subramanian Innovation Award

ISMICS is extremely grateful to Dr. Valavanur “Mani” Subramanian for his generous donation to the ISMICS’ Research and Education Fund in support of the Subramanian Innovation Award.

Please watch your email and the ISMICS website (www.ismics.org) for further details on how you can apply!

ISMICS Chitwood Educational Travel Awards

Optimal application of new devices typically evolves naturally with time and experience. Yet despite the advantages of rapid deployment (or sutureless) valves, including ease of implantation, fast learning curves and the associated reduction of procedural times, clear-cut indications remain broadly undefined.

As Minimally-Invasive Surgical Aortic Valve Replacement (MISAVR) requires easily implantable devices, rapid deployment devices are especially suitable for UHHS and RAT videothoracoscopy; in our view, potentially one of the more interesting applications is for redo-MISAVR patients.

Indeed patients undergoing redo-MISAVR due to a failed conventional stented, stentless or full root prosthesis, often require lengthy procedures, with a high risk of injury during debridement especially in small calcified annuli or during the removal of degenerated aortic root stentless bioprostheses. In these challenging cases RDAVR could prove the difference.

We report herein our first two implants of an EDWARDS INTUITY Elite valve in complex redo-MISAVR.

The first patient was a 55-year-old male with systemic and pulmonary hypertension, HCV chronic infection and persistent AFib. Indeed patients undergoing redo-MISAVR due to a failed conventional stented, stentless or full root prosthesis, often require lengthy procedures, with a high risk of injury during debridement especially in small calcified annuli or during the removal of degenerated aortic root stentless bioprostheses. In these challenging cases RDAVR could prove the difference.

The second patient was a 57-year-old male affected by systemic hypertension. In 2009 the patient presented with a severe calcific degeneration of the aortic root enlargement; at that time a 25 mm homograft was implanted. In 2015, the patient presented with a severe calcific degeneration of the homograft and underwent a minimally invasive upper J-re Sternotomy with a 21 mm EDWARDS INTUITY Elite. Aortic cross clamp and CPB time were 62 and 113 minutes respectively. No inotropic agents were needed. AMV time, ICU stay and hospital stay were 3 hours, 1 and 6 days respectively.

These two cases demonstrate how the prosthetic choice at the time of the first and second operation is crucial. The classical surgical approach would have required a redo-Bentall-de Bono procedure with a higher grade of surgical complexity and risk.

Rapid deployment bioprostheses demonstrated to be safe and suitable for redo-MISAVR patients, allowing performing fast and efficient reoperation in a safe minimally invasive fashion. In our experience redo-MISAVR has finally become “minimal” for patients and “simpler” for surgeons.
EDWARDS INTUITY Elite
VALVE SYSTEM

Built on a Proven
Trusted Valve
Platform

VASOVIEW HEMOPRO 2
Endoscopic Vessel Harvesting System

- Safe & effective
- Patient friendly
- Cost saving

evh.maquet.com
Welcome to Berlin and the ISMICS Annual Meeting! The ISMICS meeting provides the perfect venue to experience the newest and most innovative developments in cardiac, vascular, and thoracic surgery. The program includes many outstanding scientific sessions, presentations, debates, and speakers, along with many opportunities to visit with colleagues and friends. We hope that you will also take time to visit this wonderful city and experience its unique culture and traditions.

An exceptional scientific program has been developed by the Program Committee, under the direction of Chairpersons Tomislav Mihaljevic, MD, Richard S. Lazzaro, MD, Hendrick Treede, MD, Jens C. Rückert, MD, and (continued on page 7)

Berlin Welcomes the ISMICS Annual Meeting

The ISMICS Annual Meeting is one of the foremost educational events for minimally invasive thoracic and cardiovascular professionals and Berlin provides the perfect setting for this exceptional scientific meeting and outstanding social events.

In addition to the ISMICS Attendee Reception on Friday evening at the Meistersaal, we encourage you to take full advantage of all that this historic city has to offer. Berlin is a world city of culture, politics, media, and science.

Divided during the Cold War, today’s Berlin is known for its arts scene, nightlife and modern architecture, such as Mies van der Rohe’s landmark Neue Nationalgalerie. Reminders of the city’s turbulent 20th century history include the Holocaust Memorial and the Berlin Wall’s graffitied remains.

The Brandenburg Gate has become an iconic symbol of reunification. Throughout its existence, the Brandenburg Gate was often a site for major historical events and is today considered a symbol of the tumultuous history of Europe and Germany, but also of European unity and peace.