October 10-12, 2019

Renaissance Columbus Downtown Hotel
Columbus, Ohio

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Randall W. Franz, MD, FACS, FICA, RVT, RPVI

Chairman, Scientific Committee
Prof. Otmar M. Pachinger, MD, FESC, FAHA, FICA

Scientific Program
61st Annual World Congress • ICA 2019
International College of Angiology
Jointly Provided by OhioHealth Continuing Medical Education
OhioHealth Heart and Vascular

Renaissance Columbus Downtown Hotel
Columbus, Ohio • October 10-12, 2019

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Rajinder Sharma, MD (2015-2017)

Executive Director
Denise M. Rossignol, BS
International College of Angiology
Scientific Committee

Responsible for review and selection of all scientific papers pro-offered for the Annual World Congress within budgetary and space limitations, responsible for the organization of special symposia and workshops.

Otmar M. Pachinger, M.D., Chairman
Innsbruck, Austria

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Otmar M. Pachinger, M.D., Chairman
Innsbruck, Austria

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Tokyo, Japan

Sibu P. Saha, M.D., MBA
Tokyo, Japan

Rajinder P. Sharma, M.D.
West Bloomfield, Michigan

Josef Veselka, M.D., Ph.D.
Prague, Czech Republic

Wei Zhou, M.D.
Tucson, Arizona

Young Investigator Award Recipients

Robert N.A. Gasser, M.D., Ph.D. (1988)
Simon Ashley, B.M., FRCS (1989)
Dimitrios N. Psathakis, M.D. (1989)
Daniel Duprez, M.D., Ph.D. (1991)
Philippe Bull, M.D. (1992)
Patricia Cristodor, M.D. (1992)
Manfred Grisold, M.D. (1992)
Bruno Papaleo, M.D. (1992)
F.C. Rada, M.D. (1992)
Patricia Amado, M.D. (1993)
Jutta Bergloff, M.D. (1993)
Claudia Dimofte, M.D. (1993)
Antti Korpeila, M.D. (1993)
R.S. More, MRCP (1993)
Antero Sahlnam, M.D. (1993)
I. Schaflalter, M.D. (1993)
Nilanjan Maulik, Ph.D. (1994)
J. Melichercik, M.D. (1994)
Satoshi Sakai, M.D. (1996)
Gernold Wozniak, M.D. (1996)
Sabine Horn, M.D. (1997)
Roberto Baglini, M.D. (1997)
Maziar Rahmani, M.D. (1997)

Professor John B. Chang Research Achievement Award Recipients

Kailash Prasad, M.D., Ph.D. (1995)
Vikrom S. Sotttirai, M.D., Ph.D. (1997)
Kensuke Esato, M.D. (1999)
Jose Aleanmy, M.D. (2001)
Francis Robicieck, M.D. (2005)

ICA Lifetime Achievement Award
Kailash Prasad, MBBS (Hons), M.D., Ph.D., D.Sc. (2015)
John B. Chang, M.D. (Posthumously 2016)
Otmar M. Pachinger, M.D. (2019)
International College of Angiology
61st Annual World Congress
Organizing Committee

Program Chairman
Kailash Prasad, MBBS (Hons), MD, PhD, DSc, FRCP, FACC, FIACS, FICA
Professor Emeritus of Physiology, College of Medicine, University of Saskatchewan, Saskatoon, Canada
Chairman, Board of Directors, International College of Angiology
Consulting Editor, International Journal of Angiology
Department of Physiology
College of Medicine, University of Saskatchewan
Saskatoon, Saskatchewan, Canada

Chairman, Scientific Committee
Otmar M. Pachinger, MD, FESC, FAHA, FICA
Professor Emeritus, Distinguished Professor of Cardiology, Medical University of Innsbruck, Innsbruck, Austria; Member, Board of Directors, International College of Angiology; Chairperson, Scientific Committee, International College of Angiology; Senior Editor, International Journal of Angiology; President, Austrian Heart Foundation, Innsbruck, Austria.

Executive Director
Denise M. Rossignol, BS
Executive Director and CME Program Administrator, International College of Angiology; Managing Editor, International Journal of Angiology, Jay, Vermont.

Chairman, Local Organizing Committee
Randall W. Franz, MD, FACS, FICA, RVT, RVPI
Chief, Vascular and Endovascular Surgery, Medical Director, Grant Vascular and Vein Center; Assistant Professor of Surgery, Ohio State University; Professor of Surgery, Ohio University, Columbus, Ohio, USA; First Vice Chairman and Member, Board of Directors, International College of Angiology; Chairman, Local Organizing Committee, 61st Annual World Congress-ICA 2019; Co-Chairperson, Scientific Committee, International College of Angiology; Editorial Board, International Journal of Angiology.

Co-Chairpersons, Local Organizing Committee
Greg Campbell, BSRT
Manager, Medical Imaging, OhioHealth Grant Medical Center, Columbus, Ohio

Chris Cornett, BS
Senior Accountant, OhioHealth Physicians Group, Columbus, Ohio

Pam Estell, MBA, BSN, BS, RN
Vascular Outcomes Manager, OhioHealth Grant Medical Center, Columbus, Ohio.

Jess Henry, aPHR
Consultant, Learning, OhioHealth Learning Continuing Medical Education, OSMA Volunteer CME Accreditation Site Surveyor, Columbus, Ohio

Paul Hilderbrandt, BS
Interventional Radiology Technologist, OhioHealth Grant Medical Center, Columbus, Ohio

Tim Jaikissoon, BA
Communication Specialist, OhioHealth, Columbus, Ohio

Jed Karas, BSN, RN
Administrative Nurse Manager, Cardiovascular Unit, OhioHealth Grant Medical Center, Columbus, Ohio

Susan Polis, BSN, RN
Clinical Nurse Manager, Vascular Surgery and Anesthesia Specialist, OhioHealth Grant Medical Center, Columbus, Ohio

Kate Sarna, BA
Marketing Manager, Heart & Vascular, OhioHealth, Columbus, Ohio

Brittany Workman, BSN, RN
Nurse Educator, Cardiovascular Unit, OhioHealth Grant Medical Center, Columbus, Ohio
### International College of Angiology

**Founding Fathers and Past Congresses**

The founding fathers of the International College of Angiology were Dr. Saul Simon Samuels and Dr. Rene LeRiche. It was Dr. Saul Samuels who in 1942 coined the name “Angiology” from the Greek words meaning the “science of the blood vessels.” The International College of Angiology was organized and chartered in 1958, in order to encourage, support, and facilitate research and education in vascular diseases. It was the founding fathers of the International College of Angiology that have made our College unique, in that it integrates the discipline, knowledge, and skills of several specialties, which treat the many faceted illnesses that result from disorders of the vascular system.

<table>
<thead>
<tr>
<th>Year</th>
<th>Event Type</th>
<th>Venue</th>
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<tbody>
<tr>
<td>1958</td>
<td>1st Annual Meeting</td>
<td>Atlantic City, New Jersey</td>
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<tr>
<td>1959</td>
<td>2nd Annual Meeting</td>
<td>Mexico City, Mexico</td>
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<td>1960</td>
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<td>1961</td>
<td>4th Annual Meeting</td>
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<td>1962</td>
<td>5th Annual Meeting</td>
<td>Las Vegas, Nevada</td>
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<td>1963</td>
<td>Caribbean Conference on Angiology</td>
<td>San Juan, Puerto Rico</td>
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<td>1964</td>
<td>6th Annual Meeting</td>
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<td>1965</td>
<td>7th Annual Meeting</td>
<td>London, England</td>
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<td>1966</td>
<td>8th Annual Meeting</td>
<td>Madrid, Spain</td>
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<tr>
<td>1967</td>
<td>9th Annual Meeting</td>
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<td>1968</td>
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<td>1969</td>
<td>11th Annual Meeting</td>
<td>Rome, Italy</td>
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<td>1970</td>
<td>12th Annual Meeting</td>
<td>Dublin, Ireland</td>
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<td>1971</td>
<td>13th Annual Meeting</td>
<td>Copenhagen, Denmark</td>
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<tr>
<td>1972</td>
<td>14th Annual Meeting</td>
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<td>1973</td>
<td>15th Annual Meeting</td>
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<td>1974</td>
<td>16th Annual Meeting</td>
<td>Montreal, Canada</td>
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<td>1975</td>
<td>French Scientific Congress</td>
<td>Paris, France</td>
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<td>1976</td>
<td>17th Annual Meeting</td>
<td>Herzlia, Israel</td>
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<td>1977</td>
<td>18th Annual Meeting</td>
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<td>1978</td>
<td>19th Annual Meeting</td>
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<td>1979</td>
<td>20th Annual Meeting</td>
<td>Marbella, Spain</td>
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<td>1980</td>
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<td>1981</td>
<td>22nd Annual Meeting</td>
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<td>1982</td>
<td>23rd Annual Meeting: Part I</td>
<td>Zurich, Switzerland</td>
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<td>1983</td>
<td>24th Annual Meeting: Part II</td>
<td>Lisbon, Portugal</td>
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<td>1984</td>
<td>25th Annual Meeting</td>
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<td>1985</td>
<td>26th Annual Meeting</td>
<td>Killarney, Ireland</td>
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<td>1986</td>
<td>27th Annual Meeting</td>
<td>San Antonio, Texas</td>
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<td>1987</td>
<td>28th Annual Meeting</td>
<td>Hilton Head, South Carolina</td>
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<td>1988</td>
<td>29th Annual Meeting</td>
<td>Nice, France</td>
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<td>1989</td>
<td>30th Annual Meeting</td>
<td>Montreux, Switzerland</td>
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<td>1990</td>
<td>31st Annual Meeting</td>
<td>Amsterdam, The Netherlands</td>
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<td>1991</td>
<td>32nd Annual Meeting</td>
<td>Rome, Italy</td>
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<td>1992</td>
<td>33rd Annual Meeting</td>
<td>Toronto, Canada</td>
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<td>1993</td>
<td>34th Annual Meeting</td>
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<td>1994</td>
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<td>1995</td>
<td>36th World Congress</td>
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<td>1996</td>
<td>37th World Congress</td>
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<td>1997</td>
<td>38th World Congress</td>
<td>Helsinki, Finland</td>
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<td>1998</td>
<td>39th Annual World Congress</td>
<td>Cologne, Germany</td>
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<td>1999</td>
<td>40th Annual World Congress</td>
<td>Istanbul, Turkey</td>
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<td>2001</td>
<td>42nd Annual World Congress</td>
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<td>2002</td>
<td>43rd Annual World Congress</td>
<td>Berlin, Germany</td>
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<td>2003</td>
<td>44th Annual World Congress</td>
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<td>2004</td>
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<td>2005</td>
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<td>2006</td>
<td>47th Annual World Congress</td>
<td>Uncasville, Connecticut</td>
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<td>2007</td>
<td>48th Annual World Congress</td>
<td>Charlotte, North Carolina</td>
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<td>2008</td>
<td>49th Annual World Congress</td>
<td>Vancouver, Canada</td>
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<td>2009</td>
<td>50th Golden Anniversary Congress</td>
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<td>2010</td>
<td>51st Annual World Congress</td>
<td>Beijing, China</td>
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<td>2011</td>
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<td>2012</td>
<td>53rd Annual World Congress</td>
<td>Bali, Indonesia</td>
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<td>2013</td>
<td>54th Annual World Congress</td>
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<td>2014</td>
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<td>2015</td>
<td>56th Annual World Congress</td>
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<td>2016</td>
<td>57th Annual World Congress</td>
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<td>2017</td>
<td>58th Annual World Congress</td>
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<td>2018</td>
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<td>2019</td>
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<td>Tokyo, Japan</td>
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<tr>
<td>2020</td>
<td>61st Annual World Congress</td>
<td>Columbus, Ohio</td>
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</tbody>
</table>
Congress Description/Objectives
The overall mission of the 61st Annual World Congress of the International College of Angiology is to bring together basic and clinical scientists to share current knowledge and techniques in angiology to update the pathophysiology of disease, clinical diagnostic methods, and treatment for improved healthcare delivery and future research.

This program will provide a forum for the synthesis of State-of-the-Art information that encompasses the pathophysiology, clinical diagnosis, and treatment of cardiovascular diseases as they are encountered by primary care physicians, vascular, general, thoracic, cardiothoracic, and cardiovascular surgeons, neurosurgeons, cardiologists, internists, and cardiology and vascular interventional radiologists. The theme of the 61st Annual World Congress of the ICA is “A World of Opportunities in Vascular Medicine.”

This Congress is designed to meet the specific educational needs of medical professionals involved with the management and treatment of cardiovascular diseases as they are encountered by primary care physicians, vascular, general, thoracic and cardiovascular surgeons, cardiologists, interventional radiologists, neuroradiologists, fellows and residents of the above specialties, vascular biologists, their staff and nurses.

The objective is to offer a serious academic forum to those physicians and allied healthcare personnel interested in research, education and clinical investigation in the field of cardiovascular medicine and surgery.

The intention is to provide an in-depth review of the spectrum of topics related to the management and treatment of patients with cardiovascular and vascular disease. Special emphasis will be placed upon evolving trends, therapies, and minimally invasive treatment of cardiovascular disease. The congress will feature internationally renowned faculty, and recognized leaders will discuss state-of-the-art techniques in the management and diagnosis and treatment of vascular disease. The focus will be on surgical, percutaneous and medical management from peripheral vascular disease to coronary and cerebrovascular disease and abdominal aortic aneurysms offering a comprehensive review of what is new in management, techniques, approaches and prevention.

This Congress is designed to offer a serious academic forum to those physicians and allied healthcare personnel interested in research, education, and clinical investigation in the field of cardiovascular diseases. The congress is intended to provide an in-depth review of the spectrum of topics related to the management and new treatment modalities, including diagnosis, assessment, intervention, risk factors management and surgery.

At the conclusion of this activity, the attendees should be more confident in their ability to:
1. Examine concepts related to cardiovascular diseases.
2. Discuss strategies to improve patient outcomes in managing cardiovascular diseases.
3. Analyze treatment strategies that involve complex patient situations with multiple contributing risk factors.

Learning Objectives
After completion of this activity, participants will be able to:

1. Describe and apply the value of an integrated approach to the diagnosis and treatment of cardiac and vascular disease.
2. Assess and differentiate between competing technologies for vascular intervention.
3. Choose when and how to appropriately apply various interventional and non-interventional procedures in the treatment of vascular disease.
4. Describe new developments and techniques in the diagnosis, medical management, and treatment of cardiac, peripheral vascular and cerebrovascular disorders to make improved patient care decisions based on outcome and cost.
5. Enhance knowledge in the practice of treating vascular disease.
6. Identify and explore new research problems for future collaboration.

All presentations have a purpose while providing a balanced view of diagnostic and therapeutic options followed by constructive debate. These objectives are achieved through nationally and internationally recognized invited guest lectures, special symposia, oral and poster presentations and exhibits, highlighting the most challenging and controversial topics and procedures performed in interventional medicine. Submitted abstracts and invited guest lecturers serve as a major part of the overall program. A significant portion of the program is reserved for questions and answers between the presenters and the audience.

Disclaimer
The information provided at this CME activity is for continuing education purposes only, and not meant to substitute for independent medical judgment of a physician relative to diagnostic and treatment options of a specific patient’s medical condition.

Instruction to Speakers
We remind speakers presenting submitted oral papers, their presentations are limited to ten (10) minutes with an invited discussion following the session. Speakers presenting submitted electronic poster presentations must limit their presentation to seven (7) minutes. SPEAKERS MAY VIEW THEIR PRESENTATIONS UP TO 30-MINUTES PRIOR TO THEIR SESSION.
Accreditation

AMA
This activity has been planned and implemented in accordance with the accreditation requirements and policies of the Ohio State Medical Association (OSMA) through the joint providership of OhioHealth and the International College of Angiology. OhioHealth is accredited by the OSMA to provide continuing medical education to physicians.

OhioHealth designates this live activity for a maximum of 18.25 AMA PRA Category 1 Credit(s)™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

ASRT
OhioHealth will be submitting an application to the American Society of Radiologic Technologists (ASRT) to provide CE credits for this activity.

NURSING
The Ohio Board of Nursing recognizes events approved by a nationally recognized accreditation system of continuing education approval. This activity is awarded 18.25 AMA PRA Category 1 Credit(s)™.

DISCLOSURE
As an accredited CME provider, OhioHealth must insure balance, independence, objectivity, and scientific rigor in all education activities we sponsor. Faculty and planners participating in sponsored activities must disclose any significant financial interests or other relationships. Any potential conflicts of interest will be resolved and revealed prior to the education start.

COMMERCIAL SUPPORT
This activity is commercially supported in part by Abbott, Boston Scientific Corporation, Medtronic, and Merit Medical.

Name Badges
Please obtain your Congress name badge and all congress materials at the Registration Desk located in the Pre-Function West, East and South of the Renaissance Downtown Columbus Hotel. We ask that you wear your name badge at all group sponsored functions. It will help you get acquainted with your colleagues.

Venue
Renaissance Columbus Downtown Hotel
50 N 3rd Street
Columbus, Ohio 43215

The Renaissance Hotel is conveniently located in the heart of the city so you can easily explore nearby attractions such as the Ohio Theatre, German Village and Columbus Convention Center. Delight in the charming hotel’s whimsical design featuring local artwork, eclectic décor and upscale amenities. Take a dip in our rooftop pool or enjoy a moment of quiet at our Club Lounge. Savor a delicious bite at our signature eatery, Latitude 41, or plan your next adventure over cocktails at Bar 41, our own downtown hotspot. The guest rooms are complete with fashionable décor, sumptuous bedding, deluxe toiletries and inspiring views of the city skyline.

Registration Desk Hours
The registration desk for the duration of the congress will be located on the 2nd Floor of the meeting room area of the Renaissance Downtown Columbus Hotel. PLEASE REFER TO THE FLOOR PLAN BELOW FOR REGISTRATION AREA AND MEETING ROOMS.

<table>
<thead>
<tr>
<th>Day</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>Thursday, October 10th</td>
<td>7:00 AM – 3:30 PM</td>
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<tr>
<td>Friday, October 11th</td>
<td>7:00 AM – 3:30 PM</td>
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<tr>
<td>Saturday, October 12th</td>
<td>7:30 AM – 11:00 AM</td>
</tr>
</tbody>
</table>

Scientific Sessions
Please refer to the “Schedule-At-A-Glance” for room assignment of all Symposiums, Special Lectures, Oral Presentations and e-Poster Presentations. All congress sessions will be held at the Renaissance Downtown Columbus Hotel.

Messages
We request all meeting participants to turn off or lower their cellular telephones, or utilize their “vibrate” feature on the cellular telephone.

Boston Scientific Hands-On Exhibit
Local Organizing Committee—Welcome Address

Randall W. Franz, MD, FACS, FICA, RVT, RVPI
Chief, Vascular and Endovascular Surgery,
Medical Director, Grant Vascular and Vein Center;
Assistant Professor of Surgery, Ohio State University;
Professor of Surgery, Ohio University, Columbus, Ohio;
First Vice Chairman and Member, Board of Directors, International College of Angiology;
Chairman, Local Organizing Committee, 61st Annual World Congress-ICA 2019

Dear Colleagues,

It is my honor to welcome you to the 61st Annual World Congress of the International College of Angiology being held in Columbus, Ohio, from October 10-12, 2019 at the beautiful Renaissance Hotel. This academic forum is jointly sponsored by OhioHealth Continuing Medical Education in cooperation with Grant Medical Center for those physicians and allied healthcare personnel interested in research, education, and clinical investigation in the field of cardiovascular medicine and surgery.

As the 15th largest city in the United States and the largest city in Ohio, Columbus has much to experience and enjoy. In addition to attending the meeting, I hope you take the time to explore. Downtown Columbus offers excellent restaurants and diverse entertainment venues. The capital city’s incredible culinary scene features top-ranked chefs, one-of-a-kind restaurants and creative artisan desserts, beers, wines and spirits. Nationally acclaimed distilleries work together with brewers, coffee roasters, high-end cocktail bars, theatres, casinos, and music halls to deliver unforgettable nightlife.

If you love sports, Columbus is home to several major sports teams, including the NHL’s Columbus Blue Jackets; MLS’s Columbus Crew SC; Triple-A affiliate of the Cleveland Indians, the Columbus Clippers; and various The Ohio State University sports teams. You can catch a game no matter what the season!

I look forward to personally welcoming you to Columbus in October 2019. May you connect with old friends, create new friendships, enjoy this fabulous city, and leave with cutting edge knowledge that will benefit the patients that you serve.

Respectfully yours,
Randall W. Franz, MD, FACS, FICA, RVT, RVPI
On behalf of the International College of Angiology, it gives me great pleasure to welcome all of you to the 61st Annual World Congress in Columbus. We are grateful to the participants who have come here to exchange their experience in the management of cardiovascular diseases.

This 2½ day congress will provide an excellent opportunity to discuss at length the latest development and emerging challenges in the field of angiology. We are pleased to have highly respected and world renowned speakers on the podium for this congress. During the congress, you will have ample opportunity to interact with fellow clinicians and scientists in an endeavour to advance the knowledge for patient care. This Annual World Congress will provide an opportunity for networking, as well as to renew old friendships and make new ones.

On your behalf of the ICA, it is my honor to give a hearty thanks to Dr. Randall W. Franz, Chairman of the Local Organizing Committee, along with his colleagues for their time, energy and dedication to make this congress a most successful event.

Again, it is with an esteemed sense of pride, I, on behalf of the International College of Angiology, welcome all of you and wish you a pleasant and stimulating time here in Columbus.

Sincerely,
Kailash Prasad, MBBS (Hons), MD, PhD, DSc, FRCP, FACC, FIACS, FICA
Chairman, Board of Directors
Program Chairman
Dear Friends and ICA Fellows,

Together with our Program Chairman, Professor Kailash Prasad, our Local Organizing Committee Chairman, Dr. Randall W. Franz, and our Scientific Committee Chairman, Professor Otmar M. Pachinger, on behalf of the International College of Angiology, OhioHealth Continuing Medical Education, and OhioHealth Heart and Vascular, we are delighted to welcome you to Columbus, Ohio, to our 61st Annual World Congress “A World of Opportunities in Vascular Medicine.”

This event is the continuation of an enormous collective effort that began in 1958 with the founding of the International College, was subsequently thoroughly invigorated by Drs. John and Lucy Chang, and is now brought into the forefront of the 21st Century by our current stellar leadership. We have evolved beyond isolated specialties into an integration of disciplines, guided by the vision of developing the most innovative technologies and the mission of providing unsurpassed care. As evidenced by our outstanding program, we once again demonstrate that our ideals are upheld by the strength of our actions.

I would finally like to express my sincere gratitude to all those who have transformed this meeting from the expression of a dream into the truth of a reality.

Sincerely,

Ernesto
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<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>07:00</td>
<td>Registration, Continental Breakfast &amp; Exhibits</td>
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<tr>
<td>08:15</td>
<td>Opening Ceremony/Opening Remarks</td>
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<td></td>
<td>Woody Hayes Rooms D &amp; E</td>
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<tr>
<td></td>
<td>Randall W. Franz, Ohio and Stephen Markovich, Ohio</td>
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<tr>
<td>08:30</td>
<td>Local Organizing Committee Chairman’s Address</td>
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<td></td>
<td>Randall W. Franz</td>
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<tr>
<td>08:45</td>
<td>Memorial Lectures</td>
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<td>Woody Hayes Rooms D &amp; E</td>
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<tr>
<td>08:45</td>
<td>HbA1, A Risk Factor for Cardiovascular Diseases—Professor John B.</td>
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<td>Chang Memorial Lecture</td>
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<td>Kailash Prasad, Canada</td>
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<tr>
<td>09:00</td>
<td>Transcatheter Aortic Valve Implantation—From Evidence to Clini</td>
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<td>cal Practice—Professor Hans J. Hachen Memorial Lecture</td>
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<td>Josef Veselka, Czech Republic</td>
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<td>09:15</td>
<td>New Directions in Vascular Surgery—Professor Albert Senn Memorial</td>
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<td>Lecture</td>
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<td>John D. Corson, New Mexico</td>
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<td>09:30</td>
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<td>Coffee Break &amp; Exhibits</td>
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<td>Woody Hayes Rooms D &amp; E</td>
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<tr>
<td>10:45</td>
<td>Central Venous Disease/Pulmonary Embolism/IVC Filters</td>
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<td>Chairperson:</td>
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<td>Michael Winkler, Kentucky</td>
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<td>10:00</td>
<td>Pulmonary Embolism</td>
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<td>Mitchell Silver, Ohio</td>
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<td>10:15</td>
<td>Implementing a Successful Program to Follow and Remove Temporary IVC</td>
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<td>Filters with Difficult Removal Cases</td>
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<td>10:30</td>
<td>Questions &amp; Answers</td>
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<td>10:45</td>
<td>Structural Heart</td>
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<td>Woody Hayes Rooms D &amp; E</td>
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<td>Chairpersons:</td>
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<td>Frank Manetta, New York</td>
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<td>Rajinder P. Sharma, Michigan</td>
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<tr>
<td>11:00</td>
<td>The Impella Device: Historical Background, Clinical Applications and</td>
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<td>Comparison with other Mechanical Support Devices</td>
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<td>James J. Glazier, Michigan</td>
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<td>11:15</td>
<td>Advanced Cardiac CT Visualizations for Structural Heart Disease—Proce</td>
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<td>dural Planning</td>
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<td>Michael Winkler, Kentucky</td>
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<td>11:15</td>
<td>Aortic Valve Repair</td>
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<td></td>
<td>Geoffrey Blossom, Ohio</td>
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<td>11:30</td>
<td>TAVR</td>
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<td>Thomas Salamon, Ohio</td>
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<tr>
<td>11:45</td>
<td>Questions &amp; Answers</td>
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<tr>
<td>12:00</td>
<td>Luncheon Break &amp; Exhibits</td>
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<td>Woody Hayes Rooms D &amp; E</td>
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<td>Luncheon Lectures</td>
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<td>Woody Hayes Rooms D &amp; E</td>
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<td>Chairpersons:</td>
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<td>Iwan Dakota, Indonesia</td>
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<td>Petr Hajek, Czech Republic</td>
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<tr>
<td>12:10</td>
<td>Detection of Coronary Vulnerable Atherosclerotic Plaque—The Role of</td>
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<td>Biomarkers and Advanced Imaging</td>
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<td>Martin Horváth, Czech Republic</td>
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<td>12:40</td>
<td>Intravascular Ultrasound and Near Spectroscopy of the Carotid Artery</td>
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<td>—From Stenosis to Vulnerable Plaque</td>
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<td>Cyril Steshovský, Czech Republic</td>
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<tr>
<td>12:50</td>
<td>Complete Atrioventricular Block in Pregnancy cause by SLE Exacerbatio</td>
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<td>Maria Patricia Inggriani, Indonesia</td>
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<td>01:00</td>
<td>Giant Left Ventricular Thrombus with Concomitant Massive Hemothypsis</td>
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<td>due to Bronchiectasis—Management Dilemma</td>
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<td>Kristian Sudana Hartano, UK</td>
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<tr>
<td>01:10</td>
<td>Questions &amp; Answers</td>
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<tr>
<td>01:20</td>
<td>Arch and Cerebral Disease</td>
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<td>Woody Hayes Rooms D &amp; E</td>
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<td></td>
<td>Randall W. Franz, Ohio</td>
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<td>Wei Zhou, Arizona</td>
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<tr>
<td>01:20</td>
<td>Endovascular Techniques for Head and Neck Cancers and Carotid Blow-Out</td>
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<td>Michael Silva, Jr., Texas</td>
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<td>01:35</td>
<td>Endovascular Treatment of Stroke</td>
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<td>Nirav Vora, Ohio</td>
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<tr>
<td>01:50</td>
<td>Questions &amp; Answers</td>
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### THURSDAY, OCTOBER 10, 2019 (Continued)

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<tr>
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<tr>
<td>02:00</td>
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<tr>
<td>02:15</td>
<td>CAROTID DISEASE</td>
<td>Wooden Hayes Rooms D &amp; E</td>
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<td></td>
<td>Chairperson: Jürgen Falkensammer, Austria</td>
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<tr>
<td>02:00</td>
<td>Identifying High Risk Asymptomatic Carotid Stenosis</td>
<td>Wooden Hayes Rooms D &amp; E</td>
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<td></td>
<td>Chairperson: Wei Zhou, Arizona</td>
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<tr>
<td>02:15</td>
<td>Local and National Experience of Trans-Carotid Arterial Revascularization Technique</td>
<td>Wooden Hayes Rooms D &amp; E</td>
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<td></td>
<td>Chairperson: Robert Schwartz, Ohio</td>
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<tr>
<td>02:45</td>
<td>QUESTIONS &amp; ANSWERS</td>
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<tr>
<td>03:15</td>
<td>SURGICAL INNOVATIONS—SPECIAL LECTURE</td>
<td>Wooden Hayes Rooms D &amp; E</td>
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<td></td>
<td>Chairperson: Ernesto P. Molmenti, New York</td>
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<td>03:15</td>
<td>COFFEE BREAK &amp; EXHIBITS</td>
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<td>Pre-Function West, East &amp; South</td>
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<td>03:30</td>
<td>VENOUS</td>
<td>Wooden Hayes Rooms D &amp; E</td>
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<td>Chairpersons: Pertti T. Aarnio, Finland, Jon Henry, Ohio</td>
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<tr>
<td>03:30</td>
<td>Endovenous Laser Ablation Therapy to Treat Varicose Veins—Mid-Term Results</td>
<td>Wooden Hayes Rooms D &amp; E</td>
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<td></td>
<td>Chairperson: Iwan Dakota, Indonesia</td>
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<td>03:45</td>
<td>New Technology in Venous Insufficiency</td>
<td>Wooden Hayes Rooms D &amp; E</td>
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<td>Chairperson: Raghu Kolluri, Ohio</td>
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<tr>
<td>04:00</td>
<td>Questions &amp; Answers</td>
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<td>COFFEE BREAK &amp; EXHIBITS</td>
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<td>Pre-Function West, East &amp; South</td>
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<tr>
<td>04:30</td>
<td>WELCOME RECEPTION, DINNER &amp; DANCING</td>
<td>Ohio Statehouse</td>
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### FRIDAY, OCTOBER 11, 2019

<table>
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<tr>
<th>Time</th>
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<tbody>
<tr>
<td>07:00</td>
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<tr>
<td>08:00</td>
<td>CORONARY ARTERY DISEASE</td>
<td>Wooden Hayes Rooms D &amp; E</td>
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<td></td>
<td>Chairpersons: James J. Glazier, Michigan, Josef Veselka, Czech Republic</td>
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<tr>
<td>08:00</td>
<td>Impact of Stress on Cardiovascular Health</td>
<td>Wooden Hayes Rooms D &amp; E</td>
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<td>Chairperson: Sibu P. Saha, Kentucky</td>
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<td>08:15</td>
<td>On the Road to the Optimal TAVI Valve</td>
<td>Wooden Hayes Rooms D &amp; E</td>
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<td>Chairperson: Petr Hájek, Czech Republic</td>
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<tr>
<td>08:30</td>
<td>Chest Pain in the ED—Role of Patient Centered Testing, New Troponin Assay and New Imaging Technology</td>
<td>Wooden Hayes Rooms D &amp; E</td>
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<td>Chairperson: Karanvir Grewal, Ohio</td>
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<tr>
<td>08:45</td>
<td>The New Era of PCI without Surgical Back-Up</td>
<td>Wooden Hayes Rooms D &amp; E</td>
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<td>Chairperson: Kevin Stiver, Ohio</td>
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<tr>
<td>09:00</td>
<td>IFR and FFR—Physiological Assessment of Arterial Flow</td>
<td>Wooden Hayes Rooms D &amp; E</td>
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<td>Chairperson: Michael Tempelhof, Ohio</td>
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<td>09:15</td>
<td>Questions &amp; Answers</td>
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<td>COFFEE BREAK &amp; EXHIBITS</td>
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<td>Pre-Function West, East &amp; South</td>
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<tr>
<td>11:00</td>
<td>THORACIC AORTIC DISEASE</td>
<td>Wooden Hayes Rooms D &amp; E</td>
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<td>Chairpersons: Ernesto P. Molmenti, New York, Sibu P. Saha, Kentucky</td>
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<td>09:45</td>
<td>TEVAR for Type B Aortic Dissection—A Single Center Experience</td>
<td>Wooden Hayes Rooms D &amp; E</td>
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<td>Chairperson: Iwan Dakota, Indonesia</td>
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<tr>
<td>10:00</td>
<td>Aortic Dissection Management</td>
<td>Wooden Hayes Rooms D &amp; E</td>
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<td>Chairperson: Frank Manetta, New York</td>
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<td>10:15</td>
<td>Genetics of Thoracic Aortic Aneurysm Disease</td>
<td>Wooden Hayes Rooms D &amp; E</td>
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<td>Chairperson: John A. Elefteriades, Connecticut</td>
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<tr>
<td>10:30</td>
<td>Mycotic Aortic Aneurysms—Presentation of a Case and Review of Strategies</td>
<td>Wooden Hayes Rooms D &amp; E</td>
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<td>Chairperson: Richard W. Schutzler, New York</td>
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<td>10:45</td>
<td>Questions &amp; Answers</td>
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<th>Time</th>
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<td>11:00</td>
<td>THORACIC AORTA TRAUMA AT A LEVEL 1 TRAUMA CENTER—PROFESSOR JOHN B. CHANG RESEARCH ACHIEVEMENT AWARD</td>
<td>Woody Hayes Rooms D &amp; E</td>
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<tr>
<td>11:30</td>
<td>PAD #1</td>
<td>Woody Hayes Rooms D &amp; E</td>
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<td>11:30</td>
<td>UPDATE ON THE USE OF DRUG ELUTING STENTS IN FEMORAL POPLITEAL OCCLUSIVE DISEASE</td>
<td>Woody Hayes Rooms D &amp; E</td>
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<td>11:45</td>
<td>THE PACITAXEL CONTROVERSY: WHERE DO WE STAND?</td>
<td>Woody Hayes Rooms D &amp; E</td>
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<td>12:00</td>
<td>OPEN SURGERY FOR COMMON FEMORAL OCCLUSIVE DISEASE</td>
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<td>QUESTIONS &amp; ANSWERS</td>
<td>Woody Hayes Rooms D &amp; E</td>
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<td>12:30</td>
<td>LUNCHEON POSTER PRESENTATIONS</td>
<td>Woody Hayes Rooms D &amp; E</td>
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<td>01:00</td>
<td>EFFECTS OF FICUS AURICULATA L. TOWARD OXIDATIVE STRESS-RELATED BIOMARKERS IN BLOOD AND CARDIAC TISSUE DUE TO PROLONGED EXPOSURE TO SYSTEMIC HYPOXIA</td>
<td>Woody Hayes Rooms D &amp; E</td>
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<tr>
<td>01:07</td>
<td>SUCCESSFUL TREATMENT OF RECURRENT THROMBOSIS ASSOCIATED WITH MALIGNANCY WITH APOKABAN AND FOLLOW-UP FOR 1.5 YEARS</td>
<td>Woody Hayes Rooms D &amp; E</td>
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<tr>
<td>01:14</td>
<td>CHALLENGES IN TREATING EXTENSIVE DEEP VEIN THROMBOSIS WITH SEVERE THROMBOCYTOPENIA SYNDROME—A FOLLOW-UP OF 2 YEARS</td>
<td>Woody Hayes Rooms D &amp; E</td>
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<td>01:21</td>
<td>SUCCESSFUL RESOLUTION OF THROMBOSIS IN PATIENTS TREATED WITH APOKABAN FOLLOWING STENTING FOR MAY-THURNER SYNDROME (MTS)</td>
<td>Woody Hayes Rooms D &amp; E</td>
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<tr>
<td>01:28</td>
<td>ASSOCIATION BETWEEN SOLUBLE ST2 AND INFARCT LOCATION WITHIN 12-24 HOURS OF STEMI</td>
<td>Woody Hayes Rooms D &amp; E</td>
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<tr>
<td>01:35</td>
<td>ORAL VITAMIN C VS. INTRAVENOUS VITAMIN C FOR IMPROVING OUTCOMES OF CHD</td>
<td>Woody Hayes Rooms D &amp; E</td>
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<td>01:42</td>
<td>ASSOCIATION OF SOLUBLE ST2 AND LILIP CLASS WITHIN 24-HOURS OF STEMI</td>
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<td>QUESTIONS &amp; ANSWERS</td>
<td>Woody Hayes Rooms D &amp; E</td>
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<tr>
<td>02:00</td>
<td>PAD #2</td>
<td>Woody Hayes Rooms D &amp; E</td>
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<td>02:15</td>
<td>ENDOVASCULAR MANAGEMENT OF AORTO-ILAC OCCLUSIONS—STICKS IN THE MUD</td>
<td>Woody Hayes Rooms D &amp; E</td>
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<td>02:15</td>
<td>BYPASS VERSUS ENDOVASCULAR INTERVENTION FOR HEALING ISCHEMIC FOOT WOUNDS IN PATIENTS WITH TIBIAL DISEASE</td>
<td>Woody Hayes Rooms D &amp; E</td>
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<td>02:30</td>
<td>CRITICAL LIMB ISCHEMIA</td>
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<td>ECONOMICAL TREATMENT OF FEMPOP DISEASE</td>
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<td>QUESTIONS &amp; ANSWERS</td>
<td>Woody Hayes Rooms D &amp; E</td>
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<td>COFFEE BREAK &amp; EXHIBITS</td>
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<td>VASCULAR IMAGING</td>
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<td>POINT OF CARE ULTRASOUND: WHY SHOULD WE CARE?</td>
<td>Woody Hayes Rooms D &amp; E</td>
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<td>04:00</td>
<td>QUESTIONS &amp; ANSWERS</td>
<td>Woody Hayes Rooms D &amp; E</td>
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<td>04:05</td>
<td>ICA BUSINESS MEETING—BOARD OF DIRECTORS (PRIVATE)</td>
<td>Woody Hayes Rooms D &amp; E</td>
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<td>COCKTAIL RECEPTION</td>
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<td>07:30</td>
<td>REGISTRATION, CONTINENTAL BREAKFAST &amp; EXHIBITS</td>
<td>Pre-Function West</td>
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<td>MEDICAL MANAGEMENT</td>
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<td>MEDICAL MANAGEMENT</td>
<td>Woody Hayes Rooms</td>
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<td>MONOCLONAL ANTIBODY TRIAL FOR PERIPHERAL VASCULAR DISEASE</td>
<td>Woody Hayes Rooms</td>
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<td>08:45</td>
<td>Treatment of Peripheral Vascular Disease via Percutaneous Brachial Artery Access</td>
<td>Woody Hayes Rooms</td>
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<tr>
<td>09:00</td>
<td>Medical Management of Peripheral Arterial Disease (Compass and Voyager)</td>
<td>Woody Hayes Rooms</td>
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<td>09:30</td>
<td>QUESTIONS &amp; ANSWERS</td>
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<td>10:30</td>
<td>ABDOMINAL AORTA</td>
<td>Woody Hayes Rooms</td>
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<td>09:30</td>
<td>Pathway to Treating Type II Endoleaks</td>
<td>Woody Hayes Rooms</td>
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<td>10:00</td>
<td>Comparative Clinical and Economical Analysis of Percutaneous vs. Open Access for Endovascular Aorta Repair—A Protective Randomized Trial</td>
<td>Woody Hayes Rooms</td>
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<td>10:00</td>
<td>Management of Aortic Infections with Cryopreserved Homografts</td>
<td>Woody Hayes Rooms</td>
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<td>10:15</td>
<td>QUESTIONS &amp; ANSWERS</td>
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<td>10:30</td>
<td>COFFEE BREAK &amp; EXHIBITS</td>
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<td>11:30</td>
<td>Long-Term Results after Fenestrated EVAR—Professor Otmar M. Pachinger Oration Lecture</td>
<td>Woody Hayes Rooms</td>
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<td>11:30</td>
<td>QUESTIONS &amp; ANSWERS</td>
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<td>12:30</td>
<td>YOUNG INVESTIGATOR AWARD COMPETITION</td>
<td>Woody Hayes Rooms</td>
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<td>11:30</td>
<td>Evaluation of Upper Extremity Arterial Injuries at an Urban Level 1 Trauma Center: 10 Years of Experience</td>
<td>Woody Hayes Rooms</td>
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<td>11:45</td>
<td>Cardioprotective Potency of Alabash due to Cardiac Hypoxia Consequences</td>
<td>Woody Hayes Rooms</td>
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<tr>
<td>12:15</td>
<td>QUESTIONS &amp; ANSWERS</td>
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<tr>
<td>12:15</td>
<td>AWARDS CEREMONETY</td>
<td>Woody Hayes Rooms</td>
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<td>12:30</td>
<td>CLOSE OF THE SCIENTIFIC MEETING</td>
<td>Woody Hayes Rooms</td>
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<td>12:30</td>
<td>ICA BUSINESS MEETING</td>
<td>Woody Hayes Rooms</td>
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<td>01:30</td>
<td>Officers, Editorial Board &amp; Membership Meeting</td>
<td>Woody Hayes Rooms</td>
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Scientific Program

Thursday, October 10, 2019
7:00 AM – 8:15 AM
Registration, Continental Breakfast and Exhibits

Woody Hayes Rooms D and E
8:15 AM – 8:30 AM
Opening Ceremony and Welcome Address

Master of Ceremonies
Introduction By:

Randall W. Franz, MD, FACS, FICA, RVT, RVPI
Chief, Vascular and Endovascular Surgery, Medical Director, Grant Vascular and Vein Center; Assistant Professor of Surgery, Ohio State University; Professor of Surgery, Ohio University, Columbus, Ohio; First Vice Chairman and Member, Board of Directors, International College of Angiology; Chairman, Local Organizing Committee, 61st Annual World Congress-ICA 2019; Co-Chairperson, Scientific Committee, International College of Angiology; Editorial Board, International Journal of Angiology.

Program Chairman and Chairman, Board of Directors
Kailash Prasad, MBBS (Hons), MD, PhD, Dsc, FRCP, FACC, FIACS, FICA
Professor Emeritus, Department of Physiology, College of Medicine, University of Saskatchewan, Saskatoon, Canada; Chairman, Board of Directors, and Program Chairman, 60th Anniversary World Congress, International College of Angiology; Consulting Editor, International Journal of Angiology.

President
Ernesto P. Molmenti, MD, PhD, MBA, FICA
Member and President, Board of Directors, International College of Angiology; Board of Directors, International Journal of Angiology; Vice Chairman, Department of Surgery; Director, Chief, Surgical Innovation; Director, Kidney Transplantation, Professor of Surgery, Medicine and Pediatrics, Donald and Barbara Zucker School of Medicine at Hofstra/Northwell, Transplant Center, Manhasset, New York.

Chairman, Scientific Committee
Otmar M. Pachinger, MD, FESC, FAHA, FICA
Professor Emeritus, Distinguished Professor of Cardiology, Medical University of Innsbruck, Innsbruck, Austria; Member, Board of Directors, International College of Angiology; Chairperson, Scientific Committee, International College of Angiology; Senior Editor, International Journal of Angiology; President, Austrian Heart Foundation, Innsbruck, Austria.

Opening Remarks

Stephen Markovich, MD
President and Chief Executive Officer, OhioHealth, Columbus, Ohio.

8:30 AM – 9:45 AM
Local Organizing Committee Chairman’s Address

Randall W. Franz, MD, FACS, FICA, RVT, RVPI
Chief, Vascular and Endovascular Surgery, Medical Director, Grant Vascular and Vein Center; Assistant Professor of Surgery, Ohio State University; Professor of Surgery, Ohio University, Columbus, Ohio; First Vice Chairman and Member, Board of Directors, International College of Angiology; Chairman, Local Organizing Committee, 61st Annual World Congress-ICA 2019; Co-Chairperson, Scientific Committee, International College of Angiology; Editorial Board, International Journal of Angiology.

8:45 AM – 9:45 AM
MEMORIAL LECTURES

Randall W. Franz, MD, FACS, FICA, RVT, RVPI
Chief, Vascular and Endovascular Surgery, Medical Director, Grant Vascular and Vein Center; Assistant Professor of Surgery, Ohio State University; Professor of Surgery, Ohio University, Columbus, Ohio; First Vice Chairman and Member, Board of Directors, International College of Angiology; Chairman, Local Organizing Committee, 61st Annual World Congress-ICA 2019; Co-Chairperson, Scientific Committee, International College of Angiology; Editorial Board, International Journal of Angiology.

Presentation By:
Kailash Prasad, MBBS (Hons), MD, PhD, Dsc, FRCP, FACC, FIACS, FICA
Professor Emeritus, Department of Physiology, College of Medicine, University of Saskatchewan, Saskatoon, Canada; Chairman, Board of Directors, and Program Chairman, 60th Anniversary World Congress, International College of Angiology; Consulting Editor, International Journal of Angiology.
### Thursday, October 10, 2019

#### MEMORIAL LECTURES (CONTINUED)

**9:00 AM – 9:15 AM**

**TRANSCATHETER AORTIC VALVE IMPLANTATION—FROM EVIDENCE TO CLINICAL PRACTICE**

**PROFESSOR HANS H. HACHEN MEMORIAL LECTURE**

**Introduction By:**
Kailash Prasad, MBBS (Hons), MD, PhD, DSc, FRCP, FACC, FICA
Professor Emeritus, Department of Physiology, College of Medicine, University of Saskatchewan, Saskatoon, Canada; Chairman, Board of Directors, and Program Chairman, 60th Anniversary World Congress, International College of Angiology; Consulting Editor, *International Journal of Angiology*.

**Presentation By:**
Josef Veselka, MD, PhD, FICA
Professor of Internal Medicine; Member and President-Elect, Board of Directors, International College of Angiology; Editor, *International Journal of Angiology*; Chief, Department of Cardiology, 2nd School of Medicine, Charles University, University Hospital Motol, Prague, Czech Republic.

**9:15 AM – 9:30 AM**

**NEW DIRECTIONS IN VASCULAR SURGERY**

**PROFESSOR ALBERT SENN MEMORIAL LECTURE**

**Introduction By:**
John A. Elefteriades, MD, PhD (Hon), FACS, FICA
William W.L. Glenn Professor of Cardiothoracic Surgery; Second Vice Chairman and Member, Board of Directors, International College of Angiology; Co-Chairperson, Scientific Committee, International College of Angiology; Editor-in-Chief, *International Journal of Angiology*; Director, Aortic Institute at Yale-New Haven, Yale University School of Medicine, New Haven, Connecticut.

**Presentation By:**
John D. Corson, MB, ChB, FRCS(Eng), FRCS(Edin), FACS, FICA
Clinical Professor of Surgery, University of New Mexico (UNM), Albuquerque, New Mexico; Member, Board of Directors, International College of Angiology; Senior Editor, *International Journal of Angiology*.

**09:30 AM – 09:45 AM**

Questions & Answers

**09:45 AM – 10:00 AM — BREAK**

**Pre-Function West, East and South**

**10:00 AM – 10:45 AM**

**CENTRAL VENOUS DISEASE/PULMONARY EMBOLISM/IVC FILTERS LECTURES**

**Chairperson:**
Michael Winkler, MD, FSCCT, FICA
Associate Professor of Radiology and Cardiovascular Medicine, Thoracic and Cardiovascular Radiology, University of Kentucky, UK HealthCare Enterprise, Lexington, Kentucky.

**10:00**

**Pulmonary Embolism:** Mitchell Silver, DO, FACC, FSVM, RPVI, Interventional Cardiology and Vascular Medicine, OhioHealth Heart & Vascular Physicians, Columbus, Ohio; Director, Center for Critical Limb Care, McConnell Heart and Vascular Hospital, Riverside Methodist Hospital, Columbus, Ohio; Director, Section of Cardiovascular Medicine and Cardiac Catheterization Laboratory, O’Bleness Memorial Hospital, Athens, Ohio.

**10:15**

**Implementing a Successful Program to Follow and Remove Temporary IVC Filters with Difficult Removal Cases:** Charles F. Botti, Jr., MD, FACC, RPVI, Interventional Cardiovascular Medicine, OhioHealth Heart & Vascular Physicians, Columbus, Ohio; Medical Director, Hyperbaric Oxygen Center, Riverside Methodist Hospital, Columbus, Ohio; Chair, Heart and Vascular Clinical Operations Council, Columbus, Ohio.

**10:30 AM – 10:45 AM**

Questions & Answers
10:45 AM – 12:00 PM
Thursday, October 10, 2019
STRUCTURAL HEART
Chairpersons:

Frank Manetta, MD, FICA
Program Director, Independent and Integrated Thoracic Surgery Residencies, Surgical Director, Acute Lung Injury Program; Medical Director, Perfusion Medicine Program at Hofstra University, Uniondale, New York; Associate Professor of Surgery, Donald and Barbara Zucker School of Medicine at Hofstra/Northwell, Uniondale, New York; Department of Cardiovascular and Thoracic Surgery, Manhasset, New York; Vice President, Scientific Council, International College of Angiology; Senior Editor, International Journal of Angiology.

Rajinder P. Sharma, MD, FSIR, FICA
Clinical Associate Professor of Radiology, Wayne State University School of Medicine; Former Senior Staff, Interventional Radiology, Henry Ford Hospital, Detroit, Michigan; Member, Board of Directors, International College of Angiology; Editor, International Journal of Angiology.

10:45 The Impella Device: Historical Background, Clinical Applications and Comparison with Other Mechanical Support Devices: James J. Glazier, MD, FRCP, FRCPI, FRCP (London), FACP, VACC, FSCAI, CCDS, RPVI, FICA, Clinical Professor of Medicine, Wayne State University, Department of Medicine, Division of Cardiology, Detroit Medical Center, Detroit, Michigan.

11:00 Advanced Cardiac CT Visualizations for Structural Heart Disease—Procedural Planning: Michael Winkler, MD, FSCCT, FICA, Associate Professor of Radiology and Cardiovascular Medicine, Thoracic and Cardiovascular Radiology, University of Kentucky, UK HealthCare Enterprise, Lexington, Kentucky.

11:15 Aortic Valve Repair: Geoffrey Blossom, MD, FACC, Clinical Assistant Professor, University of Toledo Medical Center, Toledo, Ohio; Chief, Division of Cardiothoracic & Vascular Surgery, Riverside Methodist Hospital, Columbus, Ohio; Director, Cardiovascular Quality, OhioHealth, Columbus, Ohio; Assistant Program Director, General Surgery Residency Program and Critical Care Committee Member, Riverside Methodist Hospital, Columbus, Ohio.

11:30 TAVR: Thomas Salamon, MD, Medical Director, Structural Heart Disease Program, OhioHealth Grant Medical Center, Columbus, Ohio.

11:45 AM – 12:00 PM
Questions & Answers

12:00 PM – 12:30 PM
LUNCHEON BREAK

12:30 PM – 1:20 PM
LUNCHEON LECTURES
Chairpersons:

Iwan Dakota, MD, PhD, FACC, FESC, FICA
Secretary General and Member, Board of Directors, International College of Angiology; Member, Editorial Board, International Journal of Angiology; Head, Peripheral Vascular Intervention, Vascular Division, Department of Cardiology and Vascular Medicine, University of Indonesia, School of Medicine, Jakarta, Indonesia; Director of General Affairs and Human Capital, National Cardiovascular Center, Harapan Kita Hospital, Jakarta, Indonesia.

Petr Hájek, MD, PhD, FICA
Professor of Internal Medicine; Vice President, Scientific Council, International College of Angiology; Editor, International Journal of Angiology; Department of Cardiology, 2nd School of Medicine, Charles University, University Hospital Motol, Prague, Czech Republic.

12:30 Detection of Coronary Vulnerable Atherosclerotic Plaque—The Role of Biomarkers and Advanced Imaging: Martin Horváth, MD; Cyril Štěchovský, MD; Petr Hájek, MD, PhD, FICA, Vice President, Scientific Council, International College of Angiology; Editor, International Journal of Angiology; Josef Veselka, MD, PhD, FICA, Professor of Internal Medicine; President-Elect and Member, Board of Directors, International College of Angiology; Senior Editor, International Journal of Angiology; Chief, Department of Cardiology, 2nd School of Medicine, Charles University, University Hospital Motol, Prague, Czech Republic.

12:40 Intravascular Ultrasound and Near-Infrared Spectroscopy of the Carotid Artery—From Stenosis to Vulnerable Plaque: Cyril Štěchovský, MD; Petr Hájek, MD, PhD, FICA, Vice President, Scientific Council, International College of Angiology; Editor, International Journal of Angiology; Martin Horváth, MD; Josef Veselka, MD, PhD, FICA, Professor of Internal Medicine; President-Elect and Member, Board of Directors, International College of Angiology; Senior Editor, International Journal of Angiology; Chief, Department of Cardiology, 2nd Faculty of Medicine, Charles University, University Hospital Motol, Prague, Czech Republic.

12:50 Complete Atrioventricular Block in Pregnancy caused by SLE Exacerbation—A Case Report: Rio Alexandre, MD, FICA; Maria Patricia Ingriani, MD; Rachelle Betsy, MD; Putu Aditya, MD; Erika Maharan, MD, FIHA; Mustika Mahbubi, MD, FIHA; Department of Biochemistry, Faculty of Medicine, University of Tarumanagara, Jakarta, Indonesia; Public Health and Nursing and Department of Cardiology and Vascular Medicine, Faculty of Medicine, University of Gadjah Mada, Yogyakarta, Indonesia; Cardiology Resident, University of Diponegoro, Semarang, Indonesia; Department of Cardiology and Vascular Medicine, Soewondo Hospital District, Pati, Central Java, Indonesia.
1:00 Giant Left Ventricular Thrombus with Concomitant Massive Hemoptysis due to Bronchiectasis: Management Dilemma: Grace Juniaty, MD; Rio Alexsandro, MD, FICA; Maria Patricia Inggriani, MD; Kristian Sudana, Hartano, MD; Made Indra Dwi Putra, MD; Gilbert Renardi Kusila, MD; Putu Ayu Diah Puspita Sari, MD; I Putu Gede Budiana, MD, FIHA; Department of Cardiovascular Medicine, Mangusada Regional Hospital, Badung, Bali, Indonesia; Department of Biochemistry and Molecular Biology, Faculty of Medicine, University of Tarumanagara, Jakarta, Indonesia; Public Health and Nursing, University of Gadjah Mada, Yogyakarta, Indonesia; Institute of Cardiovascular Science, University College, London, UK; Department of Pulmonology, Mangusada Regional Hospital, Bali, Indonesia; Faculty of Medicine, Pelita Harapan University, Jakarta, Indonesia.

1:10 PM – 1:20 PM
Questions & Answers

1:20 PM – 2:00 PM
ARCH AND CEREBRAL DISEASE

Chairpersons:

Randall W. Franz, MD, FACS, FICA, RVT, RVPI
Chief, Vascular and Endovascular Surgery, Medical Director, Grant Vascular and Vein Center; Assistant Professor of Surgery, Ohio State University; Professor of Surgery, Ohio University, Columbus, Ohio; First Vice Chairman and Member, Board of Directors, International College of Angiology; Chairman, Local Organizing Committee, 61st Annual World Congress-ICA 2019; Co-Chairperson, Scientific Committee, International College of Angiology; Editorial Board, International Journal of Angiology.

Wei Zhou, MD, FACS, FICA
Professor of Surgery; Treasurer and Member, Board of Directors, International College of Angiology; Co-Chairperson, Scientific Committee, International College of Angiology; Editor, International Journal of Angiology; Chief, Vascular Surgery, Department of Surgery, University of Arizona, Tucson, Arizona.

1:20 Endovascular Techniques for Head and Neck Cancers and Carotid Blow-Out: Michael B. Silva, Jr., MD, FACS, FICA (Hon), Chief, Division of Vascular Surgery and Endovascular Therapies, The University of Texas Medical Branch, Galveston, Texas.

1:35 Endovascular Treatment of Stroke: Nirav Vora, MD, Department of Neurology, OhioHealth Riverside Methodist Hospital, Columbus, Ohio; Riverside Interventional and Radiology Associates at Riverside Methodist Hospital, Columbus, Ohio.

1:50 PM – 2:00 PM
Questions & Answers

2:00 PM – 2:45 PM
CAROTID DISEASE

Chairperson:

Jürgen Falkensammer, MD, FEBVS, FICA
Vice President, Scientific Council, International College of Angiology; Department of Vascular and Endovascular Surgery, Wilhelminenspital Vienna, Austria; Medical Faculty of the Sigmund Freud University, Vienna, Austria.

2:00 Identifying High Risk Asymptomatic Carotid Stenosis: Wei Zhou, MD, FACS, FICA, Professor of Surgery; Treasurer and Member, Board of Directors, International College of Angiology; Co-Chairperson, Scientific Committee, International College of Angiology; Editor, International Journal of Angiology; Chief, Vascular Surgery, Department of Surgery, University of Arizona, Tucson, Arizona.

2:15 Local and National Experience of Trans-Carotid Arterial Revascularization Technique: Robert Schwartz, MD, FACS, RVT, Department of Vascular Surgery, OhioHealth, Mansfield, Ohio.

2:30 PM – 2:45 PM
Questions & Answers
Thursday, October 10, 2019
2:45 PM – 3:15 PM
SURGICAL INNOVATIONS IN TRANSPLANT SURGERY—SPECIAL LECTURE

Introduction By:

Randall W. Franz, MD, FACS, FICA, RVT, RVPI
Chief, Vascular and Endovascular Surgery, Medical Director, Grant Vascular and Vein Center; Assistant Professor of Surgery, Ohio State University; Professor of Surgery, Ohio University, Columbus, Ohio; First Vice Chairman and Member, Board of Directors, International College of Angiology; Chairman, Local Organizing Committee, 61st Annual World Congress-ICA 2019; Co-Chairperson, Scientific Committee, International College of Angiology; Editorial Board, International Journal of Angiology.

Presentation By:

Ernesto P. Molmenti, MD, PhD, MBA, FICA
Member and President, Board of Directors, International College of Angiology; Editorial Board, International Journal of Angiology; Vice Chairman, Department of Surgery; Director, Chief, Surgical Innovation; Director, Kidney Transplantation, Professor of Surgery, Medicine and Pediatrics, Donald and Barbara Zucker School of Medicine at Hofstra/Northwell, Transplant Center, Manhasset, New York.

3:15 PM – 3:30 PM — BREAK and EXHIBITS
Pre-Function West, East and South

3:30 PM – 4:30 PM
VENOUS
Chairpersons:

Pertti T. Aarnio, MD, PhD, FICA
Emeritus Professor of Surgery, University of Turku, Pori, Finland; Emeritus, Chief, Department of Surgery, Satakunta Central Hospital, Pori, Finland; Member, Board of Directors and Co-Chairperson, Scientific Committee, International College of Angiology, Senior Editor, International Journal of Angiology.

Jon C. Henry, MD, MS, RPVI, FICA
Attending Vascular Surgeon, OhioHealth Heart & Vascular, Grant Medical Center, Columbus, Ohio.

3:30 Endovenous Laser Venous Ablation Therapy to Treat Varicose Veins: Mid-Term Results: Iwan Dakota, MD, PhD, FACC, FESC, FICA, Secretary General and Member, Board of Directors, International College of Angiology; Member, Editorial Board, International Journal of Angiology; Head, Peripheral Vascular Intervention, Vascular Division, Department of Cardiology and Vascular Medicine, University of Indonesia, School of Medicine, Jakarta, Indonesia; Director of General Affairs and Human Capital, National Cardiovascular Center, Harapan Kita Hospital, Jakarta, Indonesia.

3:45 New Technology in Venous Insufficiency: Raghu Kolluri, MD, MS, RVT, RPVI, FACC, FACP, FSVM, FSCAI, President, The Society for Vascular Medicine; System Medical Director, Syntropic CoreLab, OhioHealth Research and Innovation Institute, Columbus, Ohio; System Medical Director, Vascular Medicine, OhioHealth Heart and Vascular, Columbus, Ohio; Administrative Medical Director for Vascular Medicine and Medical Director, Vascular Laboratories, OhioHealth, Columbus, Ohio.

4:00 Venous Compression Syndrome: Samih Bittar, MD, FACP, FSVM, RPVI, Consultant Physician, Vascular Medicine, Staff Physician, Vein Center, Wound Medicine and Critical Limb Center, OhioHealth Heart & Vascular Institute and Riverside Methodist Hospital, Columbus, Ohio.

4:15 PM – 4:30 PM
Questions & Answers

4:30 PM – 4:45 PM
ADJOURNMENT

Randall W. Franz, MD, FACS, FICA, RVT, RVPI
Chief, Vascular and Endovascular Surgery, Medical Director, Grant Vascular and Vein Center; Assistant Professor of Surgery, Ohio State University; Professor of Surgery, Ohio University, Columbus, Ohio; First Vice Chairman and Member, Board of Directors, International College of Angiology; Chairman, Local Organizing Committee, 61st Annual World Congress-ICA 2019; Co-Chairperson, Scientific Committee, International College of Angiology; Editorial Board, International Journal of Angiology.
Scientific Sessions Pre-Function West, East & South

Friday, October 11, 2019
7:00 AM – 8:00 AM
REGISTRATION, CONTINENTAL BREAKFAST AND EXHIBITS

Scientific Sessions Woody Hayes Room D & E

8:00 AM – 9:30 AM
CORONARY ARTERY DISEASE

Chairpersons:
James J. Glazier, MD, FRCP, FRCP (London), FACP, VACC, FSCAI, CCDS, RPVI, FICA
Clinical Professor of Medicine, Wayne State University, Department of Medicine, Division of Cardiology, Detroit Medical Center, Detroit, Michigan.
Josef Veselka, MD, PhD, FICA
Professor of Internal Medicine; Member and President-Elect, Board of Directors, International College of Angiology; Editor, International Journal of Angiology; Chief, Department of Cardiology, 2nd School of Medicine, Charles University, University Hospital Motol, Prague, Czech Republic.

8:00 Impact of Stress on Cardiovascular Health: Sibu P. Saha, MD, MBA, FICA, Professor of Surgery and Bioengineering; Member, Board of Directors and Scientific Committee, International College of Angiology; Editorial Board, International Journal of Angiology; Chief, Division of Cardiovascular and Thoracic Surgery, University of Kentucky, Lexington, Kentucky.

8:15 On the Road to the Optimal TAVI Valve: Petr Hájek, MD, PhD, FICA, Professor of Internal Medicine; Vice President, Scientific Council, International College of Angiology; Editor, International Journal of Angiology; Department of Cardiology, 2nd School of Medicine, Charles University, University Hospital Motol, Prague, Czech Republic.

8:30 Chest Pain in the ED—Role of Patient Centered Testing, New Troponin Assay and New Imaging Technology: Karanvir S. Grewal, MD, FACC, FASE, FASNC, System Chief, Cardiovascular Imaging, OhioHealth Heart & Vascular Physicians, Columbus, Ohio; Cardiologist, OhioHealth Heart & Vascular Physicians, Columbus, Ohio; Investigator, OhioHealth Research Institute, Columbus, Ohio.

8:45 Performing STEMI without Surgical Back-Up: Kevin Stiver, MD, MS, Interventional Cardiologist, OhioHealth Doctor’s Hospital, Medical Director of Patient Experience Heart and Vascular Service Line and OhioHealth Physician Envoy, Columbus, Ohio;

9:00 IFR and FFR: Physiological Assessment of Arterial Flow: Michael Tempelhof, MD, MSc, FACC, FSCAI, FPVI, Interventional Cardiologist, OhioHealth Heart and Vascular Specialists, Grant Medical Center, Columbus, Ohio.

9:15 AM – 9:30 AM
Questions & Answers

9:30 AM – 9:45 AM — BREAK and EXHIBITS

Pre-Function West, East and South

9:45 AM – 11:00 AM
THORACIC AORTIC DISEASE

Chairpersons:
Ernesto P. Molmenti, MD, PhD, MBA, FICA
Member and President, Board of Directors, International College of Angiology; Editorial Board, International Journal of Angiology; Vice Chairman, Department of Surgery; Director, Chief, Surgical Innovation; Director, Kidney Transplantation, Professor of Surgery, Medicine and Pediatrics, Donald and Barbara Zucker School of Medicine at Hofstra/Northwell, Transplant Center, Manhasset, New York.

Sibu P. Saha, MD, MBA, FICA
Professor of Surgery and Bioengineering; Member, Board of Directors and Scientific Committee, International College of Angiology; Editorial Board, International Journal of Angiology; Chief, Division of Cardiovascular and Thoracic Surgery, University of Kentucky, Lexington, Kentucky.

9:45 TEVAR for Type B Aortic Dissection—A Single Center Experience: Iwan Dakota, MD, PhD, FACC, FESC, FICA, Secretary General and Member, Board of Directors, International College of Angiology; Member, Editorial Board, International Journal of Angiology; Head, Peripheral Vascular Intervention, Vascular Division, Department of Cardiology and Vascular Medicine, University of Indonesia, School of Medicine, Jakarta, Indonesia; Director of General Affairs and Human Capital, National Cardiovascular Center, Harapan Kita Hospital, Jakarta, Indonesia.

10:00 Aortic Dissection Management: Frank Manetta, MD, FICA, Program Director, Independent and Integrated Thoracic Surgery Residencies, Surgical Director, Acute Lung Injury Program; Medical Director, Perfusion Medicine Program at Hofstra University, Uniondale, New York; Associate Professor of Surgery, Donald and Barbara Zucker School of Medicine at Hofstra/Northwell, Uniondale, New York; Department of Cardiovascular and Thoracic Surgery, Manhasset, New York; Vice President, Scientific Council, International College of Angiology; Senior Editor, International Journal of Angiology.

10:15 Genetics of Thoracic Aortic Aneurysm Disease: John A. Elefteriades, MD, PhD (Hon), FACS, FICA, William W.L. Glenn Professor of Cardiothoracic Surgery; Second Vice Chairman and Member, Board of Directors, International College of Angiology; Co-Chairperson, Scientific Committee, International College of Angiology; Editor-in-Chief, International Journal of Angiology; Director, Aortic Institute at Yale-New Haven, Yale University School of Medicine, New Haven, Connecticut.

10:30 Mycotic Aortic Aneurysms—Presentations of a Case and Review of Strategies: Richard W. Schutzer, MD, FACS, FICA, Department of Cardiovascular Surgery, New York Presbyterian Hospital, Columbia University Medical Center, New York, New York; Editor, International Journal of Angiology.

10:45 AM – 11:00 AM
Questions & Answers
### Scientific Sessions

**Friday, October 11, 2019**

**11:00 AM – 11:30 AM**

**THORACIC AORTA TRAUMA AT A LEVEL 1 TRAUMA CENTER—PROFESSOR JOHN B. CHANG RESEARCH ACHIEVEMENT AWARD**

**Introduction By:**

Kailash Prasad, MBBS (Hons), MD, PhD, DSc, FRCP, FAC, FIC, FACS, FICA
Professor Emeritus, Department of Physiology, College of Medicine, University of Saskatchewan, Saskatoon, Canada; Chairman, Board of Directors, and Program Chairman, 60th Anniversary World Congress, International College of Angiology; Consulting Editor, *International Journal of Angiology.*

**Presentation By:**

Randall W. Franz, MD, FACS, FICA, RVT, RVPI, Chief, Vascular and Endovascular Surgery, Medical Director, Grant Vascular and Vein Center; Assistant Professor of Surgery, Ohio State University; Professor of Surgery, Ohio University, Columbus, Ohio; First Vice Chairman and Member, Board of Directors, International College of Angiology; Chairman, Local Organizing Committee, 61st Annual World Congress-ICA 2019; Co-Chairperson, Scientific Committee, International College of Angiology; Editorial Board, *International Journal of Angiology.*

### 11:30 AM – 12:30 PM

#### PAD #1

**Chairperson:**

John D. Corson, MB, ChB, FRCS(Eng), FRCS(Edin), FACS, FICA
Clinical Professor of Surgery, University of New Mexico (UNM), Albuquerque, New Mexico; Member, Board of Directors, International College of Angiology; Senior Editor, *International Journal of Angiology.*

- **11:30** Update on the Use of Drug Eluting Stents in Femoral Popliteal Occlusive Disease: Jeffrey Prem, MD, FACS, FICA, Associate Professor of Surgery, Department of Surgery, Northeast Ohio Medical University, Rootstown, Ohio; Medical Director, Vascular and Endovascular Services, Aultman Hospital, North Canton, Ohio; Regional Surgical Specialists, Inc., Regional Vascular & Vein Institute, North Canton, Ohio; Editorial Board, *International Journal of Angiology.*

- **11:45** The Paclitaxel Controversy: Where Do We Stand? Gary Ansel, MD, FACC, FSCAI, System Medical Chief, Vascular Program, OhioHealth Heart & Vascular Physicians, Columbus, Ohio; Co-Director, OhioHealth Research Institute, Columbus, Ohio.

- **12:00** Open Surgery for Common Femoral Occlusive Disease: Sibu P. Saha, MD, MBA, FICA, Professor of Surgery and Bioengineering; Member, Board of Directors and Scientific Committee, International College of Angiology; Editorial Board, *International Journal of Angiology*; Chief, Division of Cardiovascular and Thoracic Surgery, University of Kentucky, Lexington, Kentucky.

#### 12:15 PM – 12:30 PM

**Questions & Answers**

### 12:30 PM – 2:00 PM

**LUNCHEON BREAK, POSTER PRESENTATIONS & EXHIBITS**

**12:30 PM – 1:00 PM

**LUNCHEON BREAK**

**Chairpersons:**

Kailash Prasad, MBBS (Hons), MD, PhD, DSc, FRCP, FAC, FIC, FACS, FICA
Professor Emeritus, Department of Physiology, College of Medicine, University of Saskatchewan, Saskatoon, Canada; Chairman, Board of Directors, and Program Chairman, 60th Anniversary World Congress, International College of Angiology; Consulting Editor, *International Journal of Angiology.*

Clinical Assistant Professor of Surgery, Ohio University of Osteopathic Medicine, Athens, Ohio; OhioHealth Heart & Vascular, Columbus, Ohio.

- **1:00** Effect of *Ficus auriculata* L. towards Oxidative Stress-Related Biomarkers in Blood and Cardiac Tissue due to Prolonged Exposure to Systemic Hypoxia: Alexandro Rio, MD, FICA1,2; Mohammad Gallih Pratama, MD1; David Limanani, MD, MSc1; Eni Yuliariti1; Kurnia Halimi1; Melanie Salim2; Michael Chen2; Renny Benettan,MD3; Rizal Helmi, Dra, MSc, PhD1; Frans Ferdinal, MD, MSc, PhD3; 1Department of Biochemistry and Molecular Biology, Faculty of Medicine, University of Tarumanagara, Jakarta, Indonesia; 2Faculty of Medicine, Public Health and Nursing, University of Gadjah Mada, Yogyakarta, Indonesia; 3Soewondo District Hospital, Pati, Central Java, Indonesia.

- **1:07** Successful Treatment of Recurrent Thrombosis Associated with Malignancy with Apixaban and Follow-up for 1.5 Years: Timothy Boyle1; Ashita Ashish Sule2; Ashish Anil Sule, MBBS, MD, MRCP, FAMS, FICA, FRCP3; Roland Boey, MD1; 1Student Attachment, Anglo Chinese Junior College, Singapore; 2Student Attachment, Raffles Girl’s School, Singapore; 3Senior Consultant, Associate Professor, Regional Secretary, Membership Committee, International College of Angiology; 1Senior Consultant, Associate Professor; Department of General Medicine, Vascular Medicine and Hypertension, Tan Tock Seng Hospital, Singapore.
1:14 Challenges in Treating Extensive Deep Vein Thrombosis with Severe Thrombocytopenia in Patients with Antiphospholipid Syndrome—A Follow-Up of 2 Years: Kui Ting Teong, MBBS, MRCP; Ashish Anil Sule, MBBS, MD, MRCP, FAMS, FICA, FRCP; 1Senior Resident; 2Senior Consultant, Associate Professor, Department of General Medicine, Subspecialty of Vascular Medicine and Hypertension, Tan Tock Seng Hospital, Singapore; Regional Secretary, Membership Committee, International College of Angiology.

1:21 Successful Resolution of Thrombosis in Patients Treated with Apixaban Following Stenting for May-Thurner Syndrome (MTS): Erickson Galapati Tenorio, MD; Annamarie Pineda Borja, MD; Ashish Anil Sule, MBBS, MD, MRCP, FAMS, FICA, FRCP; Senior Consultant, Associate Professor, Regional Secretary, Membership Committee, International College of Angiology; 1Department of General Medicine, 2Division of Vascular Medicine and Hypertension, Tan Tock Seng Hospital, Singapore.

1:28 Association of Soluble ST2 and Infarct Location within 12-24 Hours in Stemi: Sem David Timothy Sitanggang, MD; Vita Yanti Anggraeni, MD, MSc, PhD; Maria Patricia Inggriani, MD; Rio Aleksandro, MD, FICA; Anggoro Budi Hartopo, MD, MSc, PhD; 1Faculty of Medicine, 2Department of Cardiology and Vascular Medicine, Public Health and Nursing, Universitas Gadjah Mada and Dr. Sardjito Hospital, Jalan Farmako Sekip Utara, Yogyakarta, Indonesia; 3Department of Biochemistry and Molecular Biology, Faculty of Medicine, University of Tarumanagara, Jakarta, Indonesia.

1:35 Oral Vitamin C vs Intravenous Vitamin C for Improving Outcomes in Coronary Heart Disease: Yeni Purnamasari, MD, M. Biomed; Asevano Christobed Panjaitan, MD; B.A. Mahdi, MD; J.K. Fajar, MD; Rachelle Betsy, MD; Nesha Tabita Rachel, MD; Rio Aleksandro, MD, FICA; 1Faculty of Medicine, University of Brawijaya, Malang, Indonesia; 2Faculty of Medicine, Diponegoro University, Semarang, Indonesia; 3Emergency Department, Aisyah Islamic Hospital, Malang, Indonesia; 4Faculty of Medicine, Syiah Kuala University, Banda Aceh, Indonesia; 5Department of Biochemistry, Faculty of Medicine, University of Tarumanagara, Jakarta, Indonesia; 6Soewondo District Hospital, Pati, Central Java, Indonesia.

1:42 Association of Soluble ST2 and Killip Class within 24-Hours of Stemi: Maria Patricia Inggriani, MD; Vita Yanti Anggraeni, MD, MSc, PhD; Rachelle Betsy, MD; Sem David Timothy Sitanggang, MD; Rio Aleksandro, MD, FICA; Anggoro Budi Hartopo, MD, MSc, PhD; 1Faculty of Medicine, University of Brawijaya, Malang, Indonesia; 2Faculty of Medicine, Diponegoro University, Semarang, Indonesia; 3Department of Cardiology and Vascular Medicine, Universitas Gadjah Mada and Dr. Sardjito Hospital, Jalan Farmako Sekip Utara, Yogyakarta, Indonesia; 4Department of Biochemistry and Molecular Biology, Faculty of Medicine, University of Tarumanagara, Jakarta, Indonesia; 5Soewondo District Hospital, Pati, Central Java, Indonesia.

1:49 PM – 2:00 PM Questions & Answers

2:00 Endovascular Management of Aorto-Iliac Occlusions: Sticks in the Mud: Michael B. Silva, Jr., MD, FACS, FICA(Hon), Chief, Division of Vascular Surgery and Endovascular Therapies, The University of Texas Medical Branch, Galveston, Texas.

2:15 Bypass versus Endovascular Intervention for Healing Ischemic Foot Wounds in Patients with Tibial Disease: Jon C. Henry, MD, MS, RPVI, FICA, Attending Vascular Surgeon, OhioHealth Heart & Vascular, Grant Medical Center, Columbus, Ohio.

2:30 Critical Limb Ischemia: John Phillips, MD, Interventional Cardiology, OhioHealth Heart and Vascular Physicians, Columbus, Ohio.

2:45 Economical Treatment of Fempop Disease: Gary Ansel, MD, FACC, FSCAIJ, System Medical Chief, Vascular Program, OhioHealth Heart & Vascular Physicians, Columbus, Ohio; Co-Director, OhioHealth Research Institute, Columbus, Ohio.

3:00 PM – 3:15 PM Questions & Answers
### Scientific Sessions Woody Hayes Rooms D & E

**3:30 PM – 4:00 PM**  
**Friday, October 11, 2019**  
**VASCULAR IMAGING**

**Chairperson:**  
**Rajinder P. Sharma, MD, FSIR, FICA**  
Clinical Associate Professor of Radiology, Wayne State University School of Medicine; Former Senior Staff, Interventional Radiology, Henry Ford Hospital, Detroit, Michigan; Member, Board of Directors, International College of Angiology; Editor, *International Journal of Angiology*.

- **3:30**  
  **Point of Care Ultrasound—Why Should We Care?**  
  **George H. Meier III, MD, RVT, FACS**, Professor of Surgery, Chief and Program Director, Department of Vascular Surgery, University of Cincinnati School of Medicine, Cincinnati, Ohio.

**3:45 PM – 4:00 PM**  
**Questions & Answers**

- **4:00 PM – 4:15 PM**  
  **ADJOURNMENT**

**Randall W. Franz, MD, FACS, FICA, RVT, RVPI**  
Chief, Vascular and Endovascular Surgery, Medical Director, Grant Vascular and Vein Center; Assistant Professor of Surgery, Ohio State University; Professor of Surgery, Ohio University, Columbus, Ohio; First Vice Chairman and Member, Board of Directors, International College of Angiology; Chairman, Local Organizing Committee, 61st Annual World Congress-ICA 2019; Co-Chairperson, Scientific Committee, International College of Angiology; Editorial Board, *International Journal of Angiology*.

- **4:15 PM – 5:00 PM**  
  **ICA BUSINESS MEETING**  
  **ICA BOARD OF DIRECTORS MEETING (PRIVATE)**
Scientific Sessions
Pre-Function West, East & South

7:30 AM – 8:00 AM
Saturday, October 12, 2019
Registration, Continental Breakfast and Exhibits

Scientific Sessions Woody Hayes Rooms D & E

8:00 AM – 9:30 AM
MEDICAL MANAGEMENT

Chairpersons:
John D. Corson, MB, ChB, FRCS(Eng), FRCS(Edin), FACS, FICA
Clinical Professor of Surgery, University of New Mexico (UNM), Albuquerque, New Mexico; Member, Board of Directors, International College of Angiology; Senior Editor, International Journal of Angiology.

Jon C. Henry, MD, MS, RPVI, FICA
Attending Vascular Surgeon, OhioHealth Heart & Vascular, Grant Medical Center, Columbus, Ohio.

8:00 ECMO and Acute Lung Injury: Frank Manetta, MD, FICA, Program Director, Independent and Integrated Thoracic Surgery Residencies, Surgical Director, Acute Lung Injury Program; Medical Director, Perfusion Medicine Program at Hofstra University, Uniondale, New York; Associate Professor of Surgery; Donald and Barbara Zucker School of Medicine at Hofstra/Northwell, Uniondale, New York; Department of Cardiovascular and Thoracic Surgery, Manhasset, New York; Vice President, Scientific Council, International College of Angiology; Senior Editor, International Journal of Angiology.

8:15 What’s Happening with Vascular Rehab? Jean Starr, MD, RPVI, FACS, Director, Endovascular Services, Ohio State University Medical Center, Columbus, Ohio; Program Director, Vascular Surgery, Professor of Clinical Surgery, Division of Vascular Diseases and Surgery, Ohio State University Wexner Medical Center, Columbus, Ohio.

8:30 Monoclonal Antibody Trial for Peripheral Vascular Disease: Lucy LaPerna, DO, RVT, RPVI, FSVM, Director, Vascular Laboratory, Riverside Radiology and Interventional Associates, Columbus, Ohio.

8:45 Treatment of Peripheral Vascular Disease via Percutaneous Brachial Artery Access: Randall W. Franz, MD, FACS, FICA, Chief, Vascular and Endovascular Surgery, Medical Director, Grant Vascular and Vein Center; Assistant Professor of Surgery, Ohio State University; Professor of Surgery, Ohio University, Columbus, Ohio; First Vice Chairman and Member, Board of Directors, International College of Angiology; Chairman, Local Organizing Committee, 61st Annual World Congress-ICA 2019; Co-Chairperson, Scientific Committee, International College of Angiology; Editorial Board, International Journal of Angiology.

9:00 Medical Management of Peripheral Arterial Disease (Compass and Voyager): Samih Bittar, MD, FACP, FSVM, RPVI, Consultant Physician, Vascular Medicine, Staff Physician, Vein Center, Wound Medicine and Critical Limb Center, OhioHealth Heart & Vascular Institute and Riverside Methodist Hospital, Columbus, Ohio.

9:15 AM – 9:30 AM
Questions & Answers

9:30 AM – 10:30 AM
ABDOMINAL AORTA

Chairpersons:
John A. Elefteriades, MD, PhD (Hon), FACS, FICA
William W.L. Glenn Professor of Cardiothoracic Surgery; Second Vice Chairman and Member, Board of Directors, International College of Angiology; Co-Chairperson, Scientific Committee, International College of Angiology; Editor-in-Chief, International Journal of Angiology; Director, Aortic Institute at Yale-New Haven, Yale University School of Medicine, New Haven, Connecticut.

Michael B. Silva, Jr., MD, FACS, FICA (Hon)
Chief, Division of Vascular Surgery and Endovascular Therapies, The University of Texas Medical Branch, Galveston, Texas.

9:30 Pathway to Treating Type II Endoleaks: Wei Zhou, MD, FACS, FICA, Professor of Surgery; Treasurer and Member, Board of Directors, International College of Angiology; Co-Chairperson, Scientific Committee, International College of Angiology; Editor, International Journal of Angiology; Chief, Vascular Surgery, Department of Surgery, University of Arizona, Tucson, Arizona.

9:45 Comparative Clinical and Economic Analysis of Percutaneous vs. Open Access for Endovascular Aortic Repair— A Protective, Randomized Trial: Jürgen Falkensammer, MD, FEBVS, FICA, Vice President, Scientific Council, International College of Angiology; Department of Vascular and Endovascular Surgery, Wilhelminenspital Vienna, Austria; Medical Faculty of the Sigmund Freud University, Vienna, Austria.

10:00 Management of Aortic Infections with Cryopreserved Homografts: Charles Pugar, DO, RPVI, OhioHealth Doctors Hospital and Riverside Methodist Hospital, Columbus, Ohio; Department of Vascular Surgery, OhioHealth Heart & Vascular Institute, Columbus, Ohio.

10:15 AM – 10:30 AM
Questions & Answers

10:30 AM – 10:45 AM — BREAK and EXHIBITS

Pre-Function West, East and South
<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>10:45 AM – 11:00 AM</td>
<td><strong>ORATION LECTURES</strong></td>
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<td><strong>LONG-TERM RESULTS AFTER FENESTRATED EVAR—PROFESSOR OTMAR M. PACHINGER ORATION LECTURE</strong></td>
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<tr>
<td><strong>Introduction By:</strong></td>
<td>Kailash Prasad, MBBS (Hons), MD, PhD, DSc, FRCPC, FACC, FICA</td>
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<td><strong>Presentation By:</strong></td>
<td>Jürgen Falkensammer, MD, FEBVS, FICA</td>
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<td>11:00 AM – 11:15 AM</td>
<td><strong>IS IT TIME FOR A “LEFT-SHIFT” TOWARD EARLIER SURGERY OF THE ASCENDING AORTA? PROFESSIONAL KAILASH PRASAD ORATION LECTURE</strong></td>
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<tr>
<td><strong>Introduction By:</strong></td>
<td>Pertti T. Aarnio, MD, PhD, FICA</td>
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<tr>
<td><strong>Presentation By:</strong></td>
<td>John A. Elefteriades, MD, PhD (Hon), FACS, FICA</td>
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<tr>
<td>11:15 AM – 11:30 AM</td>
<td><strong>QUESTIONS &amp; ANSWERS</strong></td>
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<td>11:30 AM – 12:15 PM</td>
<td><strong>YOUNG INVESTIGATOR AWARD COMPETITION</strong></td>
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<tr>
<td><strong>Chairpersons:</strong></td>
<td>John A. Elefteriades, MD, PhD (Hon), FACS, FICA, Josef Veselka, MD, PhD, FICA</td>
</tr>
<tr>
<td>11:30 Evaluation of Upper Extremity Arterial Injuries at an Urban Level 1 Trauma Center—10-Years of Experience:</td>
<td>Simon R. Fraser, DO, Surgical Resident, OhioHealth Doctors Hospital, Columbus, Ohio.</td>
</tr>
<tr>
<td>11:45 Cardioprotective Potency of Alabash due to Cardiac Hypoxia Consequences: Rio Alessandro, MD, FICA, Alfred H. Alphanto, David Limanan, MD, MSc, Eny Yulaianti, BSc, Michelle Arviani, Daniel F. Poso, Rachelle Betsy, MD, Melissa A. Chionandes, Asevano Christobed Panjaitan, MD, Maria P. Inggriani, MD, Sem David Timothy Sitanggang, MD, Mohammad G. Pratama, MD, Vita Y. Anggraeni, MD, MSc, PhD, Kristian S. Hartanto, MD, Frans Ferdinal, MD, MSc, PhD, Department of Biochemistry and Molecular Biology, Faculty of Medicine, University of Tarumananagara, Jakarta, Indonesia, Faculty of Medicine, Diponegoro University, Semarang, Indonesia, Department of Cardiology and Vascular Medicine, Faculty of Medicine, Public Health and Nursing, University of Gadjah Mada, Yogyakarta, Indonesia, Institute of Cardiovascular Science, University College, London, United Kingdom, Soewondo District Hospital, Pati, Central Java, Indonesia.</td>
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<tr>
<td>12:00 AM – 12:15 AM</td>
<td><strong>QUESTIONS &amp; ANSWERS</strong></td>
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12:15 PM – 12:30 PM
AWARDS CEREMONY
•
AWARDS PRESENTATION
•
12:30 PM
CLOSE OF THE SCIENTIFIC MEETING

Randall W. Franz, MD, FACS, FICA, RVT, RVPI
Chief, Vascular and Endovascular Surgery, Medical Director, Grant Vascular and Vein Center; Assistant Professor of Surgery, Ohio State University; Professor of Surgery, Ohio University, Columbus, Ohio; First Vice Chairman and Member, Board of Directors, International College of Angiology; Chairman, Local Organizing Committee, 61st Annual World Congress-ICA 2019; Co-Chairperson, Scientific Committee, International College of Angiology; Editorial Board, International Journal of Angiology.

12:45 PM – 1:30 PM
ICA BUSINESS MEETING
ICA OFFICERS, VICE PRESIDENTS, EDITORIAL BOARD MEMBERS & ICA GENERAL MEMBERSHIP MEETING
(PRIVATE)
ACKNOWLEDGMENTS

The International College of Angiology in joint providership with OhioHealth Continuing Medical Education, OhioHealth Heart and Vascular, gratefully acknowledges the educational grants provided in support of this CME activity. Without the support of all of the following companies, this program would not have been possible:

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„Individualisierte Gefäßmedizin – Von Immuntherapie bis zur chirurgischen Maßanfertigung“

SAVE THE DATE

October 6 – 9, 2020

Parkhotel Schönbrunn • Vienna, Austria

PROGRAM CHAIRMAN
Prof. Kailash Prasad, MBBS (Hons), MD, PhD, DSc, FRCPC, FIACS, FICA

CHAIRMAN, LOCAL ORGANIZING COMMITTEE
Prof. Jürgen Falkensammer, MD, FEBVS, FICA

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