



International College of Angiology
55th Annual World Congress
Harkness Auditorium
Yale University School of Medicine
New Haven, Connecticut
November 7-9, 2013



Prof. John B. Chang, MD, FACS, FICA, *Program Chairman*

Local Organizing Chairman
Prof. John A. Eleftheriades, MD, FICA

Scientific Program





International College of Angiology Scientific Committee

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

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55th Annual World Congress ▪ ICA 2013

International College of Angiology

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New Haven, Connecticut ▪ November 7-9, 2013

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Detroit, Michigan

David N. Siegel, M.D.

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Young Investigator Award Recipients

Robert N.A. Gasser, M.D., Ph.D. (1988)

David Wilkinson, M.B., Ch.B. (1988)

Simon Ashley, B.M., FRCS (1989)

G. Galloni, M.D. (1989)

Tony Katras, M.D. (1989)

Dimitrios N. Psathakis, M.D. (1989)

Joseph F. Polak, 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 Berglöff, M.D. (1993)

Claudia Dimofte, M.D. (1993)

Antti Korpela, M.D. (1993)

R.S. More, MRCP (1993)

Antero Sahlman, M.D. (1993)

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Robert W. Chang, B.S. (1995)

T. Ikonen, M.D. (1995)

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Satoshi Sakai, M.D. (1996)

Bernd Wolfgarten, M.D. (1996)

Gernold Wozniak, M.D. (1996)

Jalal Zamani, M.D. (1996)

Sabine Horn, M.D. (1997)

Roberto Baglini, M.D. (1997)

Maziar Rahmani, M.D. (1997)

Sailaritta Vuorisalo, M.D., Ph.D. (1998)

Atsushi Ishida, M.D., Ph.D. (1999)

Dai Wangde, M.D. (1999)

Wolf Drescher, M.D. (2000)

Takashi Yamaki, M.D. (2000)

Mitsuhiro Yamamura, M.D. (2000)

Paul Lee, Ph.D. (2001)

Thomas Zeller, M.D. (2001)

Shoiji Fukuda, M.D., Ph.D. (2002)

Rossella DiStefano, M.D. (2003)

Randy A. Stevens, M.D. (2004)

Nadia Cosentino, M.D. (2005)

Erick McNair, M.Sc. (2005)

Manika Das, Ph.D. (2006)

Suresh Varma Penumathsa (2006)

Mahesh Thirunavukkarasu (2006)

Joseph F. Ndisang, PharmD, PhD (2007)

Ramesh Vidavalur, M.D. (2007)

John Samas, M.D. (2010)

Jang Yong Kim, M.D. (2011)

Professor John B. Chang Research Achievement Award Recipients

Kailash Prasad, M.D., Ph.D. (1995)

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Vikrom S. Sotturrai, M.D., Ph.D. (1997)

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Francis Robicsek, M.D. (2005)

John D. Corson, M.B., Ch.B. (2006)

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International Journal of Angiology

Official Journal of the International College of Angiology
An Official Publication of the International College of Surgeons
An Official Publication of the Asian Society for Vascular Surgery

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Attending Surgeon, North Shore-Long Island Jewish Healthcare System, New Hyde Park, New York

Director, Long Island Vascular Center

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Professor Emeritus of Physiology, College of Medicine, University of Saskatchewan, Saskatoon, Canada; Member, Board of Directors, International College of Angiology; Chairman, Scientific Committee, International College of Angiology; Consulting Editor, *International Journal of Angiology*; Department of Physiology, College of Medicine, University of Saskatchewan, Saskatoon, Saskatchewan, Canada.

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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.

<u>Year</u>		<u>Venue</u>
1958	1 st Annual Meeting	Atlantic City, New Jersey
1959	2 nd Annual Meeting	Mexico City, Mexico
1960	3 rd Annual Meeting	
1961	4 th Annual Meeting	
1962	5 th Annual Meeting	Las Vegas, Nevada
1963	Caribbean Conference on Angiology	San Juan, Puerto Rico
1964	6 th Annual Meeting	
1965	7 th Annual Meeting	London, England
1966	8 th Annual Meeting	Madrid, Spain
1967	9 th Annual Meeting	Las Vegas, Nevada
1968	10 th Annual Meeting	Geneva, Switzerland
1969	11 th Annual Meeting	Rome, Italy
1970	12 th Annual Meeting	Dublin, Ireland
1971	13 th Annual Meeting	Copenhagen, Denmark
1972	14 th Annual Meeting	London, England
1973	15 th Annual Meeting	Lisbon, Portugal
1974	16 th Annual Meeting	Montreal, Canada
1974	French Scientific Congress	Paris, France
1975	17 th Annual Meeting	Herzalia, Israel
1976	18 th Annual Meeting	Tucson, Arizona
1977	19 th Annual Meeting	Dublin, Ireland
1978	20 th Annual Meeting	Marbella, Spain
1979	21 st Annual Meeting	St. Louis, Missouri
1980	22 nd Annual Meeting	Vienna, Austria
1981	23 rd Annual Meeting: Part I	Zurich, Switzerland
1981	23 rd Annual Meeting: Part II	Lisbon, Portugal
1982	24 th Annual Meeting	Antwerp, Belgium
1983	25 th Annual Meeting	Killarney, Ireland
1984	26 th Annual Meeting	San Antonio, Texas
1985	27 th Annual Meeting	Hilton Head, South Carolina
1986	28 th Annual Meeting	Nice, France
1987	29 th Annual Meeting	Montreux, Switzerland
1988	30 th Annual Meeting	Amsterdam, The Netherlands
1989	31 st Annual Meeting	Rome, Italy
1990	32 nd Annual Meeting	Toronto, Canada
1991	33 rd Annual Meeting	Singapore
1992	34 th Annual Congress	Budapest, Hungary
1993	35 th World Congress	Copenhagen, Denmark
1994	36 th World Congress	New York, New York
1995	37 th World Congress	Helsinki, Finland
1996	38 th World Congress	Cologne, Germany
1997	39 th Annual World Congress	Istanbul, Turkey
1998	40 th Annual World Congress	Lisbon, Portugal
1999	41 st Annual World Congress	Sapporo, Japan
2000	42 nd Annual World Congress	San Diego, California
2001	43 rd Annual World Congress	Berlin, Germany
2002	44 th Annual World Congress	New York, New York
2003	45 th Annual World Congress	Indianapolis, Indiana
2004	46 th Annual World Congress	Lexington, Kentucky
2005	47 th Annual World Congress	Uncasville, Connecticut
2006	48 th Annual World Congress	Charlotte, North Carolina
2007	49 th Annual World Congress	Vancouver, Canada
2008	50 th Golden Anniversary Congress	Tokyo, Japan
2009	51 st Annual World Congress	Beijing, China
2010	52 nd Annual World Congress	Lexington, Kentucky
2011	53 rd Annual World Congress	Bali, Indonesia
2012	54 th Annual World Congress	Innsbruck, Austria

55th Annual World Congress

General Program Information

Congress Aim

The overall mission of the 55th Annual World Congress of the International College of Angiology is to bring together basic and clinical scientists to share universally 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 Congress will provide a forum for the synthesis of **State-of-the-Art** information that encompasses the pathophysiology, clinical diagnosis, and treatment of vascular 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.

Learning Objectives

Upon completion of our continuing medical education activities, the participant should be able to:

- Understand and apply the value of an integrated approach to the diagnosis and treatment of cardiac and vascular disease.
- Assess and differentiate between competing technologies for vascular intervention.
- Choose when and how to appropriately apply various interventional and non-interventional procedures in the treatment of vascular disease.
- Describe new developments and techniques that will impact performance, practice, and patient care in the future.
- Apply the most recent developments in the diagnosis, medical management, and treatment of cardiac, peripheral vascular and cerebrovascular disorders in order to make improved patient care decisions based on outcome and cost.
- Enhance knowledge in the practice of treating vascular disease.
- Evaluate treatment options for asymptomatic and symptomatic patients with carotid artery disease to prevent stroke.
- Define the treatment options of patients with abdominal aortic aneurysms to minimize morbidity and mortality.
- Enhance patient selection for renal artery revascularization to improve blood pressure control and renal function.
- 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 invited guest lectures by nationally and internationally recognized leaders, special symposia, workshops, live demonstrations and exhibits, highlighting the most challenging and controversial 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 question and answer interaction between the presenters and the audience.

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 poster presentations must limit their presentation to seven (7) minutes. **All presentations (ORAL and POSTER) are to be given in PowerPoint. Speakers are required to submit their presentations on a CD/DVD/USB Drive or via E-Mail (PC format for Windows XP) to our Executive Director NO LATER THAN November 1, 2013. All presentations WILL be pre-loaded in advance of the Opening Ceremony. THERE WILL BE NO DOWNLOADING or use of personal laptops during any session.**

Venue

Harkness Auditorium at Yale University School of Medicine

333 Cedar Street

New Haven, Connecticut 06510

Location

See the map on page 7 for the location of Congress. The entrance is accessible from the main entrance of the Sterling Hall of Medicine. Take the ramp off of Cedar Street. Ask the security guard at the front desk for assistance and for the key to the lift down the walkway to the left. The second elevator to the left of the main entrance will take you down to the mail level of Harkness Auditorium.

Attire

Smart casual attire will be appropriate for almost all congress activities. However, business attire is required during the Opening Ceremony.

Name Badges

Congress name badges are sent via post in advance of the Congress. **Please be sure to bring this to the Congress with you!** We ask that you wear your name badge at all group sponsored functions. It will help you get acquainted with your colleagues.

YALE UNIVERSITY CAMPUS SOUTH AND MEDICAL CENTER



Registration Desk Hours

The ICA Annual World Congress registration desk will be located in the Foyer of Harkness Auditorium.

Thursday, November 7th	8:00 am – 3:00 pm
Friday, November 8th	8:00 am – 3:00 pm
Saturday, November 9th	8:00 am – 11:30 am

Scientific Sessions

The Scientific Sessions of the 55th Annual World Congress will be held in HARKNESS AUDITORIUM of YALE UNIVERSITY SCHOOL OF MEDICINE.

Messages

The ICA requests all meeting participants to turn off or lower their cellular telephones, or utilize their “vibrate” feature on the cellular telephone.

Accreditation Statement

This activity has been planned and implemented in accordance with the Essential Areas and Policies of the Medical Society of the State of New York (MSSNY) through the joint sponsorship of MSSNY and the International College of Angiology, Inc. MSSNY is accredited by the Accreditation Council for Continuing Medical Education (ACCME) to provide continuing medical education for physicians.

The Medical Society of the State of New York (MSSNY) designates this live activity for a maximum of **17.5 AMA/PRA Category 1 Credits™**. Physicians should **CLAIM ONLY** the credit commensurate with the extent of their participation in the activity.

Faculty Disclosure Policy

As a sponsor accredited by the Accreditation Council for Continuing Medical Education (ACCME) to provide continuing medical education for physicians, the Medical Society of the State of New York, must ensure balance, independence, objectivity, and scientific rigor in all its directly sponsored or jointly sponsored educational activities. We are required to identify all relevant financial relationships with any commercial interest; determine whether these relationships create a conflict of interest with the individual's control or content and resolve all conflicts before the educational activity occurs.

The Medical Society of the State of New York relies upon Course Directors, planners, moderators and invited faculty participants in its CME programs to provide educational information that is objective and free from bias. In this spirit, and in accordance with the ACCME Standards for Commercial Support, Course Directors, planners, moderators and faculty participants are expected to disclose the existence of any significant financial interest or other relationship the faculty member (spouse or partner) or provider has with the manufacturer of any commercial product discussed in an educational presentation.

All are expected to disclose:

- Any relevant financial relationship with the provider of commercial products or services discussed in their educational presentation or that have directly supported the CME activity through an educational grant to the sponsoring organization(s).
- And*
- If the product he/she will be discussing is not labeled for the use under discussion of that the product is still investigational.

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Pertti Aarnio, MD, PhD.....	Nothing to Disclose
Elie D. Aboulafia, MD, MSc, RVT, RPVI.....	Nothing to Disclose
Benedict Azucena Cesar, MD.....	Nothing to Disclose
Annamarie Borja, MD.....	Nothing to Disclose
Richard Cambria, MD.....	No Disclosure Received
John B. Chang, MD.....	Nothing to Disclose
Robert W. Chang, MD.....	Nothing to Disclose
Ivy Cheng, BS.....	Nothing to Disclose
Gautham Chitragari, MBBS.....	Nothing to Disclose
Joseph Colombo, PhD ...	Part owner, shareholder, Medical Director, Executive VP, and Employee of Ansar Medical Technologies, Inc.
Alan Dardik, MD, PhD.....	No Disclosure Received
John A. Elefteriades, MD.....	Grant received from Medtronic, Consultant for IABP Developments, Shareholder of Coolspine, Grant received from the National Marfan Association
Sukru H. Emre, MD.....	No Disclosure Received
Randall W. Franz, MD, FACS, RVT.....	Nothing to Disclose
Mario Gonzalez, MD.....	Nothing to Disclose
Petr Hajek, MD, PhD.....	Nothing to Disclose
Pankaj K. Handa, MD.....	Nothing to Disclose
George L. Hines, MD.....	Nothing to Disclose
Hitoshi Hirose, MD.....	Nothing to Disclose
Jeffrey Indes, MD.....	No Disclosure Received
Pablo Loarte, MD.....	Nothing to Disclose
Frank Manetta, MD.....	Nothing to Disclose
Muhammad Atif Mazhar, MBBS.....	Nothing to Disclose
David J. Minion, MD.....	Speaker has received an honoraria from WL Gore & Associates within the last 12 months on an unrelated topic
Ernesto P. Molmenti, MD, PhD, MBA.....	Nothing to Disclose
Gary L. Murray, MD.....	Co-Author, Dr. Colombo, is Vice-President of Ansar Technologies, Inc.
Stephan Neagu, MD.....	Nothing to Disclose
Deboray Ng Chieh Yih, MBBS.....	Nothing to Disclose
Otmar M. Pachinger, MD.....	Nothing to Disclose
Kailash Prasad, MD, PhD.....	Nothing to Disclose
Kevin Quiusky, MD.....	Nothing to Disclose
Sibu P. Saha, MD, MBA.....	Nothing to Disclose
Darren B. Schneider, MD.....	No Disclosure Received
Muhammad Tariq Shakoob, MD.....	Nothing to Disclose
Sherif Y. Shalaby, MD.....	Nothing to Disclose
Rajinder P. Sharma, MD.....	Nothing to Disclose
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Bauer E. Sumpio, MD, PhD.....	Nothing to Disclose
Brandon Sumpio.....	Nothing to Disclose
Li-Zhong Sun, MD.....	No Disclosure Received
Frank Veith, MD.....	Nothing to Disclose
Josef Veselka, MD, PhD.....	Nothing to Disclose
Thomas F. Whyne, Jr., MD, PhD.....	Nothing to Disclose
Weili Xing, MD.....	Nothing to Disclose
Malka Yahalom, MD, DSc.....	Nothing to Disclose
Mitsuhiro Yamamura, MD.....	Supported by a Grant-in-Aid for Researchers, Hyogo College of Medicine, 2012-2013
Eow Liu Yin, MBBS.....	Nothing to Disclose
Wei Zhou, MD.....	Consultant for SilkRoad Medical

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Yale University School of Medicine • Harkness Auditorium
New Haven, Connecticut • November 7-9, 2013

Local Organizing Committee Chairman Welcome Address



John A. Eleftheriades, MD, FICA
William W.L. Glenn Professor of Cardiothoracic Surgery
Director, Aortic Institute at Yale-New Haven, Yale University School of Medicine
New Haven, Connecticut

Along with Dr. Chang, I would like to welcome you to Connecticut, to New Haven, and to Yale.

The Scientific Program is comprehensive and stimulating. The multi-disciplinary nature and broad scope that characterize the College also distinguish the Scientific Program. I know we will all delight in seeing old friends and making new ones.

I hope between meetings you have a chance to walk our beautiful campus. Please make a point to visit the Beinecke rare book library and see the sun shine through its translucent thick marble walls.

Welcome to Yale and to the 55th Annual World Congress of the International College of Angiology.

John A. Eleftheriades, MD, FICA
Chairman, Local Organizing Committee, 55th Annual World Congress
International College of Angiology
Vice-Chairman, Board of Directors, International College of Angiology

55th Annual World Congress

Program Chairman's Welcome Address



John B. Chang, MD, FACS, FICA
Professor of Clinical Surgery, Hofstra North Shore-LIJ School of Medicine, Uniondale, New York
Adjunct Professor, Clinical Surgery, Albert Einstein College of Medicine, Bronx, New York

Dear Members and Guests:

It is my pleasure to personally welcome you to the 55th Annual World Congress of the International College of Angiology being held at the prestigious academic institution of Yale University School of Medicine. As is tradition, the location of this international congress rotates to different sites throughout the world. This year, we are fortunate to have this Congress at Yale University. We have received overwhelming support from our members and guests from the United States and abroad.

During this Congress, we will be discussing cutting edge clinical practices in the cardiovascular disciplines, updates in endovascular and open surgical repair for cardiovascular disease, and current issues regarding clinical and basic research. As in past meetings, a Young Investigator Award Competition will be held during this Congress. It is also my personal honor to have the Honorable Seymour Boyers, a distinguished Judge and attorney, as our keynote speaker. He is not only a strong supporter of our medical profession, but a personal friend for over four decades. The International College of Angiology is honored to celebrate Professor Elie Aboulafia's presentation of the Professor John B. Chang Research Achievement Award this year. We are also fortunate to have the world renowned vascular surgeon and educator, Professor Frank Veith, who will be presented with the College's Honorary Fellowship during our 55th Annual World Congress. Professor Veith will be delivering a special presentation which will be of interest to all. There will be outstanding and interesting presentations and discussions including a round table discussion.

During the Congress, our members, guests, and family will enjoy the academic forum that we have provided, and will be able to experience the fantastic and beautiful autumn season in New England. The ICA Congress offers the opportunity to renew old friendships, and make new ones.

I take this opportunity to express my appreciation to Professor John Eleftheriades and his local organizing committee for their efforts in assisting us in preparing this wonderful program at the Yale University site. Our officers and local organizing committee members will be more than happy to assist you during our 55th Annual World Congress. I look forward to personally greeting you at this Congress.

Sincerely,

A handwritten signature in black ink, which appears to read "John B. Chang". The signature is written in a cursive, flowing style.

John B. Chang, MD, FACS, FICA
Chairman, Board of Directors
Scientific Program Chairman

55th Annual World Congress

President's Address



O.Univ.-Prof. Dr. Otmar M. Pachinger, MD, FESC, FAHA, FICA
Professor of Medicine and Head, Department of Internal Medicine
Director, Medical University of Innsbruck, Internal Medicine III-Cardiology
Innsbruck, Austria

The International College of Angiology achieves dissemination of vascular scientific information through its Annual World Congress where clinical and basic vascular research, diagnostic, and therapeutic options are discussed by the World's most prominent vascular physicians.

It is the 55th time since the charter of the International College in 1958. Since then, cardiovascular medicine has evolved and expanded tremendously, involving vascular, thoracic, cardiovascular surgeons, cardiologists, interventionists, neuroradiologists, vascular biologists, scientist and health care staff trying to integrate all expertise for an improved management of cardiovascular disease.

The Annual World Congress brings together physicians from all parts of the world irrespective of their specialty.

This year, the Annual World Congress will be held on the Campus of Yale University School of Medicine, New Haven, Connecticut, November 7th – 9th, 2013 under the leadership of Prof. John A. Elefteriades and his Local Organizing Committee.

As President of the International College of Angiology, I would like to congratulate and thank Professor Elefteriades for hosting the Annual meeting.

Finally, I would like to take this opportunity to thank our Chairman, Board of Directors, Professor John B. Chang for his dedication and passion not only for the advancement of vascular science but also for the well-being of our society.

I am delighted that you have chosen to be part of ICA 2013 and help shape the future of cardiovascular medicine.

It is a great pleasure and honor for me to welcome you to the 55th Annual World Congress of the International College of Angiology here at Yale University.

Otmar Pachinger, MD , FICA, FESC, FAHA
Professor of Medicine
Medical University of Innsbruck, Austria
President, International College of Angiology

ICA 2013 • SCIENTIFIC PROGRAM AT-A-GLANCE

Thursday November 7, 2013		Friday November 8, 2013		Saturday November 9, 2013	
9:00 9:15	Opening Ceremony Opening Remarks	8:30 9:00	Coronary Revascularization in Diabetic Patients—An Interventionalist’s Vision Otmarr M. Pachinger, MD	8:00 9:30	New Strategies in the Management of Cardiovascular Disease and Current Issue in Lipid Management
9:15 9:45	Patient’s Safety—A Goal of Medical Care Honorable Seymour Boyers, JD	9:00 10:15	Young Investigator Award Competition Presentations	8:00 8:30 8:40 9:00	Cardiovascular Disease Prevention and Lipid Management Thomas F. Whayne, Jr., MD, PhD Edaravone Injected at the Start of Reperfusion Mitsuhiro Yamamura, MD Flaxseed Component an Alternative to ACE-Inhibitors Kailash Prasad, MD, PhD Melon for Cardiovascular Health Sibu P. Saha, MD, MBA
9:45 10:00	Research Achievement Award Reflections on a Career Before, During, and After Vascular Surgery Elie D. Aboulafia, MD	9:00 9:10	Identifying Rare Human Anomalies through Student Direct Dissection Muhammad Atif Mazhar, MBBS Long-Term Outcomes of CEA with Primary Closure Ivy Cheng, BS	9:30 10:15 9:30	Interventional Radiology History and Current Status of Interventional Radiology Rajinder P. Sharma, MD
10:00 10:15	Prof. Kailash Prasad Oration Lecture Pulse Pressure and Subclinical Peripheral Artery Disease Pertti Aarnio, MD, PhD	9:20 9:30 9:40	Differential Effect of Disturbed vs. Uniform Pulsatile Flow on Phosphorylation of YAP Gautham Chitragari, MBBS Blood Brain Barrier Responses to African Trypanosome Infection Brandon Sumpio Characterization of ERK5 Activation in HUVEC’s Sherif Y. Shalaby, MD	9:45	Classification and Management of Vascular Malformations David N. Siegel, MD
10:15 10:30	Coffee Break	10:15 10:30	Coffee Break	10:15 10:30	Coffee Break
10:30 12:30	Carotid Endarterectomy (CEA) and Carotid Artery Stenting (CAS)	10:30 11:00 11:00 12:00 11:00 11:07 11:14 11:28 11:35 11:42	Prof. John B. Chang Oration Lecture A Novel Risk Factor in the Pathogenesis of Aortic Aneurysm Kailash Prasad, MD, PhD Scientific Poster Presentations Cancer Associated Thrombosis Pankaj K. Handa, MD IVC Vasculoplasty with an Isolated Enteral Segment Stephan Neagu, MD Reno-Splenic Shunting in the Nutcracker Phenomenon Deborah Ng Chieh Yih, MBBS Hemodialysis-Related Thrombophilia Kevin Quiusky, MD Unexpected Finding as the Cause of Life-Threatening Hemoptysis Pablo Loarte, MD Cardiac Performance Effects of AVF for Hemodialysis Mario Gonzalez, MD	10:30 11:15 10:30 10:45 11:15 1:00 11:15	ECMO System and Trans-Aortic Valve Replacement The Current ECMO (VV and VA- ECMO System—How It Works and Its Results Hitoshi Hirose, MD Trans-Aortic Valve Replacement Frank Manetta, MD Current Management of Lower Limb Ischemia and Peripheral Vascular Disease Long-Term Outcome of Lower Extremity Bypass Procedures John B. Chang, MD
10:50	Fine Tuning the Technique of CAS Josef Veselka, MD, PhD	12:00 12:30	Myocardial Contusion in Patients with Prolonged Cardiac Arrest Treated with a Mechanical Chest Compression Device Petr Hajek, MD, PhD	11:35 11:55	Lessons from PREVENT III & Future Directions for Vein Graft Trials Alan Dardik, MD, PhD Treatment of PVD with Autologous Stem Cells Randall W. Franz, MD
11:10	CAS and Current Techniques Wei Zhou, MD			12:15	Is There a Role for Direct Revascularization of Angiosomes in the Management of Chronic Limb Ischemia? Bauer E. Sumpio, MD, PhD
11:30	Post-Endarterectomy Cerebral Hyper-Perfusion Syndrome George L. Hines, MD				

12:30 1:30	Luncheon Break	12:30 1:30	An Interactive Session on Advances in Transplantation A Round-Table Luncheon Discussion	END OF CONGRESS
1:30 2:00	Honorary Fellow Presentation How Can Randomized Controlled Trials in Leading Journals be so Misleading? Frank J. Veith, MD	1:30 5:00	Pathogenesis, Current Management, and Future Directions in the Treatment of Aortic Aneurysms	
2:00 3:00	Coagulants and Anticoagulants in the Management of Surgical and Medical Disease Entities	1:30	Surgical Management of AAA John B. Chang, MD	
2:00	Intracoronary Abciximab Bolus-Only vs. Standard Protocol during Percutaneous Coronary Intervention in ACS Muhammad Shakoob, MBBS	1:50	Practical Tips in Thoracic Aortic Surgery John A. Elefteriades, MD	
2:10	Superior Mesenteric Vein Thrombosis, Gut Malignancy, and Intra-Abdominal Infection Benedict Cesar Azucena, MD	2:10	EVAR of Thoraco-Abdominal and Para-Visceral Aneurysms Darren B. Schneider, MD	
2:20	Behçet's Disease Presenting with Pyrexia of Unknown Origin, PE, and Right Ventricular Thrombus Weili Xing, MD			
2:30	Thrombus Resolution in Patients with Portal Vein Thrombosis Annamarie Borja, MD	2:40	Genetics of Thoracic Aortic Aneurysm John A. Elefteriades, MD	
3:00 4:30	Management of Heart Failure, Coronary Artery Disease, Turner's Syndrome, and Behçet's Disease	3:00	Ten Years of Success with Sun's Procedure for Type A Aortic Dissection Li-Zhong Sun, MD	
3:00	Impact of Ranolazine on Left Ventricular Ejection Fraction Gary L. Murray, MD	3:20	Perils and Pitfalls in AAA Open Surgery Jeffrey Indes, MD	
3:10	Impact of Ranolazine on Autonomic Measures and Outcomes Joe Colombo, PhD	3:40	Long-Term Results after EVAR in an Integrated Health Care System Robert W. Chang, MD	
3:20	Cardiovascular Involvement in Behçet's Disease Malka Yahalom, MD, DSc	4:00	Surgical Management of Thoracic Abdominal and Supra-Renal Aortic Aneurysms Richard Cambria, MD	
3:50	What is the Optimal Management for May Turner's Syndrome? Eow Liu Yin, MBBS, MD	4:30	Preservation of Congenital Pelvic Kidneys during Endovascular Aneurysm Repair David J. Minion, MD	
4:00	Tumors of the Heart Malka Yahalom, MD, DSc	4:40	Topical Hemostatic Agents for the Control of "Anastomotic Leak" Sibu P. Saha, MD, MBA	
4:30	ICA Business Meeting Board of Directors Meeting Harkness Auditorium	5:30	ICA Business Meeting Officers, Scientific Committee & IJA Editorial Board Meeting Harkness Auditorium	
7:00	55th Annual World Congress Welcome Reception Omni Hotel New Haven			

55th Annual World Congress
Yale University School of Medicine • Harkness Auditorium
New Haven, Connecticut
November 7-9, 2013

Scientific Program
Thursday, November 7, 2013

9:00 h. – 9:15 h.

Opening Remarks and Introductions

Master of Ceremonies

Introduction By:

Ernesto P. Molmenti, MD, PhD, MBA

Professor, Departments of Surgery and Medicine, Hofstra North Shore-LIJ School of Medicine, Uniondale, New York, USA; Vice Chairman, Department of Surgery, Director, Transplant Program, North Shore-LIJ Health System, Manhasset, New York, USA; Member and Secretary General, Board of Directors, International College of Angiology; Member, Editorial Board, *International Journal of Angiology*.

President

O.Univ.-Prof. Dr. Otmar M. Pachinger, MD, FESC, FAHA, FICA

Professor of Medicine, President and Member, Board of Directors, International College of Angiology; Senior Editor, *International Journal of Angiology*; Head, Department of Internal Medicine and Director, Medical University of Innsbruck, Internal Medicine III-Cardiology, Innsbruck, Austria.

Program Chairman

John B. Chang, MD, FACS, FICA

Professor, Clinical Surgery, Hofstra LIJ-Northshore School of Medicine, Uniondale, New York, USA; Adjunct Professor, Clinical Surgery, Albert Einstein College of Medicine, Bronx, New York, USA; Chairman, Board of Directors, International College of Angiology; Editor-in-Chief, *International Journal of Angiology*; Founding Chairman, Asian Society for Vascular Surgery; Chairman, Scholarship Committee, and First Vice-President, Society of Honorary Police Surgeons, City of New York, New York, New York, USA; Director, Long Island Vascular Center, Roslyn, New York, USA.

Chairman, Scientific Committee

Kailash Prasad, MBBS (Hons), MD, PhD, FRCPC, FACC, FICA, FIACS

Professor Emeritus of Physiology, College of Medicine, University of Saskatchewan, Saskatoon, Canada; Member, Board of Directors, International College of Angiology; Chairman, Scientific Committee, International College of Angiology; Consulting Editor, *International Journal of Angiology*; Department of Physiology, College of Medicine, University of Saskatchewan, Saskatoon, Saskatchewan, Canada.

Local Organizing Committee Chairman

John A. Eleftheriades, MD, FICA

William W.L. Glenn Professor of Cardiothoracic Surgery, Vice Chairman and Member, Board of Directors, International College of Angiology; Co-Chairperson, Scientific Committee, International College of Angiology; Co-Editor-in-Chief, *International Journal of Angiology*; Director, Aortic Institute at Yale-New Haven, Yale University School of Medicine, New Haven, Connecticut, USA.

Welcome Address

John A. Eleftheriades, MD, FICA

William W.L. Glenn Professor of Cardiothoracic Surgery, Vice Chairman and Member, Board of Directors, International College of Angiology; Co-Chairperson, Scientific Committee, International College of Angiology; Co-Editor-in-Chief, *International Journal of Angiology*; Director, Aortic Institute at Yale-New Haven, Yale University School of Medicine, New Haven, Connecticut, USA.

Presidential Address

O.Univ.-Prof. Dr. Otmar M. Pachinger, MD, FESC, FAHA, FICA

Professor of Medicine, President and Member, Board of Directors, International College of Angiology; Senior Editor, *International Journal of Angiology*; Head, Department of Internal Medicine and Director, Medical University of Innsbruck, Internal Medicine III-Cardiology, Innsbruck, Austria.

Opening Address

John B. Chang, MD, FACS, FICA, Program Chairman

Professor, Clinical Surgery, Hofstra LIJ-Northshore School of Medicine, Uniondale, New York, USA; Adjunct Professor, Clinical Surgery, Albert Einstein College of Medicine, Bronx, New York, USA; Chairman, Board of Directors, International College of Angiology; Editor-in-Chief, *International Journal of Angiology*; Founding Chairman, Asian Society for Vascular Surgery; Chairman, Scholarship Committee, and First Vice-President, Society of Honorary Police Surgeons, City of New York, New York, New York, USA; Director, Long Island Vascular Center, Roslyn, New York, USA.

Scientific Sessions

Thursday, November 7, 2013 (Continued)

9:15 h. – 9:45 h.

Keynote Speaker

Introduction By:

John B. Chang, MD, FACS, FICA, Program Chairman

Professor, Clinical Surgery, Hofstra LIJ-Northshore School of Medicine, Uniondale, New York, USA; Adjunct Professor, Clinical Surgery, Albert Einstein College of Medicine, Bronx, New York, USA; Chairman, Board of Directors, International College of Angiology; Editor-in-Chief, *International Journal of Angiology*; Founding Chairman, Asian Society for Vascular Surgery; Chairman, Scholarship Committee, and First Vice-President, Society of Honorary Police Surgeons, City of New York, New York, USA; Director, Long Island Vascular Center, Roslyn, New York, USA.

Presentation:

Patient's Safety—A Goal of Medical Care

Honorable Seymour Boyers, JD

Gair, Gair, Conason, Steigman, Mackauf, Bloom, and Rubinowitz, New York, New York; Former Associate Justice of the Appellate Division, 2nd Judicial Department, New York; Administrative Judge of the Supreme Court (Civil and Criminal Terms), County of Queens, New York, New York, USA.

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9:45 h. – 10:00 h.

First Scientific Session

Professor John B. Chang Research Achievement Award Reflections on a Career Before, During, and After Vascular Surgery

The Professor John B. Chang Research Achievement Award is presented annually to a Fellow of the International College of Angiology in recognition of excellence in research and scholarly activity in the field of cardiovascular disciplines.

Introduction By:

John A. Elefteriades, MD, FICA

William W.L. Glenn Professor of Cardiothoracic Surgery, Vice Chairman and Member, Board of Directors, International College of Angiology; Co-Chairperson, Scientific Committee, International College of Angiology; Co-Editor-in-Chief, *International Journal of Angiology*; Director, Aortic Institute at Yale-New Haven, Yale University School of Medicine, New Haven, Connecticut, USA.

Presentation By:

Elie D. Abouafia, MD, MSc (Surg), RVT, RPVI, FICA

Clinical Professor of Surgery, Michigan State University, Lansing, Michigan, USA; Clinical Professor of Medicine, Wayne State University, Detroit, Michigan, USA; Member, Board of Directors, International College of Angiology; Vice President, Scientific Council, International College of Angiology; Member, Editorial Board, *International Journal of Angiology*; Member, Board of Trustees, International College of Surgeons (United States Section); Farmington Hills, Michigan, USA.

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10:00 h. – 10:15 h.

Second Scientific Session

Professor Kailash Prasad Oration Lecture Pulse Pressure and Subclinical Peripheral Artery Disease

Introduction By:

John B. Chang, MD, FACS, FICA, Program Chairman

Professor, Clinical Surgery, Hofstra LIJ-Northshore School of Medicine, Uniondale, New York, USA; Adjunct Professor, Clinical Surgery, Albert Einstein College of Medicine, Bronx, New York, USA; Chairman, Board of Directors, International College of Angiology; Editor-in-Chief, *International Journal of Angiology*; Founding Chairman, Asian Society for Vascular Surgery; Chairman, Scholarship Committee, and First Vice-President, Society of Honorary Police Surgeons, City of New York, New York, USA; Director, Long Island Vascular Center, Roslyn, New York, USA.

Presentation By:

Pertti Aarnio, MD, PhD, FICA

Professor of Surgery, Member, Board of Directors and Co-Chairperson, Scientific Committee, International College of Angiology; Treasurer, International College of Angiology; Senior Editor, *International Journal of Angiology*; Chief, Department of Surgery, Satakunta Central Hospital and University of Turku, Pori, Finland.

10:15 h. – 10:30 h. **BREAK**

Scientific Sessions

Thursday, November 7, 2013 (Continued)

10:30 h. – 12:30 h.

Third Scientific Session

Carotid Endarterectomy (CEA) and Carotid Artery Stenting (CAS)

Moderators:

John B. Chang, MD, FACS, FICA, Program Chairman

Professor, Clinical Surgery, Hofstra LIJ-Northshore School of Medicine, Uniondale, New York, USA; Adjunct Professor, Clinical Surgery, Albert Einstein College of Medicine, Bronx, New York, USA; Chairman, Board of Directors, International College of Angiology; Editor-in-Chief, *International Journal of Angiology*; Founding Chairman, Asian Society for Vascular Surgery; Chairman, Scholarship Committee, and First Vice-President, Society of Honorary Police Surgeons, City of New York, New York, USA; Director, Long Island Vascular Center, Roslyn, New York, USA.

Wei Zhou, MD, FICA

Professor of Surgery, Stanford University School of Medicine, Stanford, California, USA; Chief, Vascular Surgery, Palo Alto VA Health Care System, Palo Alto, California, USA; Member, Editorial Board, *International Journal of Angiology*.

10:30 **Long-Term Outcome after CEA with Vein Patch:** John B. Chang, MD, FACS, FICA

10:50 **Fine Tuning the Technique of Carotid Artery Stenting:** Josef Veselka, MD, PhD, FICA, Professor of Medicine, Cardiovascular Center, Department of Cardiology, University Hospital Motol, 2nd Medical School, Charles University, Prague, Czech Republic; Vice President, Scientific Council, International College of Angiology; Member, Editorial Board, *International Journal of Angiology*.

11:10 **CAS and Current Techniques:** Wei Zhou, MD, FICA

11:30 **Post-Endarterectomy Cerebral Hyper-Perfusion Syndrome: The Etiological Significance of “Cerebral Reserve:”** George L. Hines, MD, Department of Thoracic and Cardiovascular Surgery, Winthrop University Hospital, Mineola, New York, USA.

Questions and Answers with Audience Participation

12:30 h. – 1:30 h. – **LUNCHEON BREAK**

1:30 h. – 2:00 h.

Fourth Scientific Session

International College of Angiology Honorary Fellow Presentation and Special Lecture

Introduction By:

Kailash Prasad, MBBS (Hons), MD, PhD, FRCPC, FACC, FICA, FIACS

Professor Emeritus of Physiology, College of Medicine, University of Saskatchewan, Saskatoon, Canada; Member, Board of Directors, International College of Angiology; Chairman, Scientific Committee, International College of Angiology; Consulting Editor, *International Journal of Angiology*; Department of Physiology, College of Medicine, University of Saskatchewan, Saskatoon, Saskatchewan, Canada.

Presentation

How Can Randomized Controlled Trials in Leading Journals be so Misleading?

Frank J. Veith, MD

Clinical Visiting Professor, Department of Surgery, F. Edward Hebert School of Medicine, Uniformed Services University of the Health Sciences, Bethesda, Maryland, USA; Professor of Surgery, Cleveland Clinic Lerner College of Medicine, Case Western Reserve University, Cleveland, Ohio, USA; The William J. von Liebig Chair in Vascular Surgery, The Cleveland Clinic Foundation, Cleveland, Ohio, USA; Professor of Surgery, New York University Medical Center, New York, New York, USA.

Questions and Answers with Audience Participation

Scientific Sessions

Thursday, November 7, 2013 (Continued)

2:00 h. – 3:00 h.

Fifth Scientific Session

Coagulants and Anticoagulants in the Management of Surgical and Medical Disease Entities

Moderators:

Elie D. Abouafia, MD, MSc (Surg), RVT, RPVI, FICA

Clinical Professor of Surgery, Michigan State University, Lansing, Michigan, USA; Clinical Professor of Medicine, Wayne State University, Detroit, Michigan, USA; Member, Board of Directors, International College of Angiology; Vice President, Scientific Council, International College of Angiology; Member, Editorial Board, *International Journal of Angiology*; Member, Board of Trustees, International College of Surgeons (United States Section); Farmington Hills, Michigan, USA.

Edward Ross, MD, FICA

Clinical Professor of Cardiology, Indiana University School of Medicine, Indianapolis, Indiana, USA; Member, Board of Directors, International College of Angiology; Co-Chairperson, Scientific Committee, International College of Angiology; Member, Editorial Board, *International Journal of Angiology*.

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- 2:00 **Complications of Intracoronary Abciximab Bolus-Only versus Standard Protocol during Percutaneous Coronary Intervention in Acute Coronary Syndrome:** Muhammad Tariq Shakoor, MD, Baystate Medical Center, Springfield, Massachusetts, USA.
- 2:10 **Superior Mesenteric Vein Thrombosis, Gut Malignancy, and Intra-Abdominal Infection—Is it Difficult to Treat with Anticoagulation?** Benedict Cesar Azucena, MD, Department of General Medicine, Tan Tock Seng Hospital, Singapore, Republic of Singapore.
- 2:20 **A Rare Case of Behçet's Disease Presenting with Pyrexia of Unknown Origin, Pulmonary Embolism, and Right Ventricular Thrombus:** Weili Xing, MD, Department of General Medicine, Tan Tock Seng Hospital, Singapore, Republic of Singapore.
- 2:30 **Case Series: Thrombus Resolution in Two Patients with Portal Vein Thrombosis without Anticoagulation—Do We Need to Anticoagulate Patients with Portal Vein Thrombosis?** Annamarie Borja, MD, Department of General Medicine, Tan Tock Seng Hospital, Singapore, Republic of Singapore.

Questions and Answers with Audience Participation

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3:00 h. – 4:30 h.

Sixth Scientific Session

Management of Heart Failure, Coronary Artery Disease, Turner's Syndrome, and Behçet's Disease

Moderators:

Pertti Aarnio, MD, PhD, FICA

Professor of Surgery, Member, Board of Directors and Co-Chairperson, Scientific Committee, International College of Angiology; Treasurer, International College of Angiology; Senior Editor, *International Journal of Angiology*; Chief, Department of Surgery, Satakunta Central Hospital and University of Turku, Pori, Finland.

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

Associate Professor of Surgery, Ohio University School of Medicine, Columbus, Ohio, USA; Adjunct Assistant Professor of Surgery, Ohio State University School of Medicine, Columbus, Ohio, USA; Chief, Vascular and Endovascular Surgery; Medical Director, Grant Vascular and Vein Center, Columbus, Ohio, USA; Vice President, Scientific Council, International College of Angiology; Member, Editorial Board, *International Journal of Angiology*.

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- 3:00 **The Impact of Ranolazine on Left Ventricular Ejection Fraction, Autonomic Measures, and Outcomes in Patients with Chronic Heart Failure:** Gary L. Murray, MD, FACA, FACC, FASNC, FSCAI, The Heart and Vascular Institute, Germantown, Tennessee, USA.
- 3:10 **The Impact of Ranolazine on Autonomic Measures and Outcomes in Coronary Disease Patients:** Joseph Colombo, PhD, ANSAR Medical Technologies, Inc., Philadelphia, Pennsylvania, USA.
- 3:20 **Cardiovascular Involvement in Behçet's Disease—Clinical Implications:** Malka Yahalom, MD, DSc, FICA, Member, Editorial Board, *International Journal of Angiology*; Heart Institute, HaEmek Medical Center, Afula, Israel; Adjunct Senior Lecturer Emeritus, Rappaport Faculty of Medicine, Technion, Haifa, Israel; Director Emeritus, Pacemaker Unit, Western Galilee Hospital, Nahariya, Israel.
- 3:50 **What is the Optimal Management for May Turner's Syndrome (MTS)?** Eow Liu Yin, MBBS, MD, Registrar, Department of General Medicine, Tan Tock Seng Hospital, Singapore, Republic of Singapore.
- 4:00 **Tumors of the Heart (Hemangiomas)—The Clinical Significance of Non-Invasive Cardiac Imaging in Incidental Check-up:** Malka Yahalom, MD, DSc, FICA

Questions and Answers with Audience Participation

4:30 h.

ICA Business Meeting

Board of Directors Meeting—Harkness Auditorium

Scientific Sessions

Friday, November 8, 2013

8:30 h. – 9:00 h.

Seventh Scientific Session

Coronary Revascularization in Diabetic Patients—The Interventionalist’s Vision

A Special Lecture

Introduction By:

Josef Veselka, MD, PhD, FICA

Professor of Medicine; Cardiovascular Center, Department of Cardiology, University Hospital Motol, 2nd Medical School, Charles University, Prague, Czech Republic; Vice President, Scientific Council, International College of Angiology; Member, Editorial Board, *International College of Angiology*.

Presentation By:

O.Univ.-Prof. Dr. Otmar M. Pachinger, MD, FESC, FAHA, FICA

Professor of Medicine, President and Member, Board of Directors, International College of Angiology; Senior Editor, *International Journal of Angiology*; Head, Department of Internal Medicine and Director, Medical University of Innsbruck, Internal Medicine III-Cardiology, Innsbruck, Austria.

Questions and Answers with Audience Participation

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9:00 h. – 10:15 h.

Eighth Scientific Session

Young Investigator Award Competition Presentations

Moderators:

Ernesto P. Molmenti, MD, PhD, MBA

Professor, Departments of Surgery and Medicine, Hofstra North Shore-LIJ School of Medicine, Uniondale, New York, USA; Vice Chairman, Department of Surgery, Director, Transplant Program, North Shore-LIJ Health System, Manhasset, New York, USA; Member and Secretary General, Board of Directors, International College of Angiology; Member, Editorial Board, *International Journal of Angiology*.

Kailash Prasad, MBBS (Hons), MD, PhD, FRCPC, FACC, FICA, FIACS

Professor Emeritus of Physiology, College of Medicine, University of Saskatchewan, Saskatoon, Canada; Member, Board of Directors, International College of Angiology; Chairman, Scientific Committee, International College of Angiology; Consulting Editor, *International Journal of Angiology*; Department of Physiology, College of Medicine, University of Saskatchewan, Saskatoon, Saskatchewan, Canada.

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- 9:00 **Identifying Rare Human Anomalies through Student Directed Dissection at Al-Faisal University:** Muhammad Atif Mazhar, MBBS, Alfaisal University, College of Medicine, Riyadh, Kingdom of Saudi Arabia.
- 9:10 **Long-Term Outcomes of Carotid Endarterectomy with Primary Closure:** Ivy Cheng, BS, University of Kentucky, Lexington, Kentucky, USA.
- 9:20 **Differential Effect of Disturbed vs. Uniform Pulsatile Flow on the Phosphorylation of Yes Associated Protein (YAP):** Gautham Chitragari, MBBS, Section of Vascular Surgery, Department of Surgery, Yale University School of Medicine, New Haven, Connecticut, USA.
- 9:30 **Blood Brain Barrier Responses to African Trypanosome Infection:** Brandon Sumpio, Section of Vascular Surgery, Department of Surgery, Yale University School of Medicine, New Haven, Connecticut, USA.
- 9:40 **Characterization of Extracellular Signal-Regulated Kinase (ERK5) Activation in Human Umbilical Vein Endothelial Cells (HUVEC’s) Exposed to Disturbed and Uniform Pulsatile Flow:** Sherif Y. Shalaby, MD, Section of Vascular Surgery, Department of Surgery, Yale University School of Medicine, New Haven, Connecticut, USA.

Questions and Answers with Audience Participation

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10:15 h. – 10:30 h. **BREAK**

Scientific Sessions

Friday, November 8, 2013 (Continued)

10:30 h. – 11:00 h.

Ninth Scientific Session

Professor John B. Chang Oration Lecture

A Novel Risk Factor in the Pathogenesis of Aortic Aneurysm

Introduction By:

John A. Elefteriades, MD, FICA

William W.L. Glenn Professor of Cardiothoracic Surgery, Vice Chairman and Member, Board of Directors, International College of Angiology; Co-Chairperson, Scientific Committee, International College of Angiology; Co-Editor-in-Chief, *International Journal of Angiology*; Director, Aortic Institute at Yale-New Haven, Yale University School of Medicine, New Haven, Connecticut, USA.

Presentation By:

Kailash Prasad, MBBS (Hons), MD, PhD, FRCPC, FACC, FICA, FIACS

Professor Emeritus of Physiology, College of Medicine, University of Saskatchewan, Saskatoon, Canada; Member, Board of Directors, International College of Angiology; Chairman, Scientific Committee, International College of Angiology; Consulting Editor, *International Journal of Angiology*; Department of Physiology, College of Medicine, University of Saskatchewan, Saskatoon, Saskatchewan, Canada.

Questions and Answers with Audience Participation

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11:00 h. – 12:00 h.

Tenth Scientific Session

Scientific Poster Presentations

Moderators:

Sibu P. Saha, MD, MBA, FICA

Professor of Surgery, Department of Surgery, University of Kentucky College of Medicine, Lexington, Kentucky, USA; Member, Board of Directors, International College of Angiology; Chairman, Membership Committee, International College of Angiology; Co-Chairperson, Scientific Committee, International College of Angiology; Member, Editorial Board, *International Journal of Angiology*.

Thomas F. Whayne, Jr., MD, PhD, FICA

Professor of Medicine, Division of Cardiovascular Medicine, Gill Heart Institute, University of Kentucky, Lexington, Kentucky, USA; Vice President, International College of Angiology; Member, Editorial Board, *International Journal of Angiology*.

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- 11:00 **Cancer Associated Thrombosis: A Five Review at Tan Tock Seng Hospital, Singapore:** Pankaj K. Handa, MD, MRCP, FAMS(Int.Med), Department of General Medicine, Tan Tock Seng Hospital, Singapore, Singapore.
- 11:07 **Inferior Vena Cava Vasculoplasty with an Isolated Enteral Segment: A Canine Experimental Model:** Stephan Neagu, MD, University of Medicine and Pharmacy “Carol Davila,” Bucharest, Romania; University and Emergency Hospital, Bucharest, Romania.
- 11:14 **Reno-Splenic Shunting in the Nutcracker Phenomenon: A Discussion and Paradigm Shift in Options?** Deborah Ng Chieh Yih, MBBS, Department of General Medicine, Tan Tock Seng Hospital, Singapore, Singapore.
- 11:28 **Hemodialysis-Related Thrombophilia Affecting Hemodialysis Access Survival—A Case Presentation:** Kevin Quiusky, MD, Woodhull Medical Center, Brooklyn, New York, USA.
- 11:35 **An Unexpected Finding as the Cause of Life-Threatening Hemoptysis—Case Presentation:** Pablo Loarte, MD, Division of Nephrology and Hypertension, Brookdale University Hospital and Medical Center, Brooklyn, New York, USA.
- 11:42 **Cardiac Performance Effects of Arterio-Venous Fistula (AVF) for Hemodialysis—A Case Presentation:** Mario Gonzalez, MD, Division of Nephrology and Hypertension, Brookdale University Hospital and Medical Center, Brooklyn, New York, USA.

Questions and Answers with Audience Participation

Scientific Sessions

Friday, November 8, 2013 (Continued)

12:00 h. – 12:30 h.

Eleventh Scientific Session

Myocardial Contusion in Patients with Prolonged Cardiac Arrest Treated with a Mechanical Chest Compression Device

A Special Lecture

Introduction By:

O.Univ.-Prof. Dr. Otmar M. Pachinger, MD, FESC, FAHA, FICA

Professor of Medicine, President and Member, Board of Directors, International College of Angiology; Senior Editor, *International Journal of Angiology*; Head, Department of Internal Medicine and Director, Medical University of Innsbruck, Internal Medicine III-Cardiology, Innsbruck, Austria.

Presentation By:

Petr Hajek, MD, PhD

Department of Cardiology, 2nd Medical School, Charles University Hospital, Prague, Czech Republic.

Questions and Answers with Audience Participation

12:30 h. – 1:30 h.

Twelfth Scientific Session

An Interactive Session on Advances in Transplantation

A Round-Table Luncheon Discussion

Panelists:

Ernesto P. Molmenti, MD, PhD, MBA

Professor, Departments of Surgery and Medicine, Hofstra North Shore-LIJ School of Medicine, Uniondale, New York, USA; Vice Chairman, Department of Surgery, Director, Transplant Program, North Shore-LIJ Health System, Manhasset, New York, USA; Member and Secretary General, Board of Directors, International College of Angiology; Member, Editorial Board, *International Journal of Angiology*.

Sukru H. Emre, MD

Professor of Surgery (Transplant) and Pediatrics, Director, Yale-New Haven Transplant Center, and Section Chief of Transplant Surgery and Immunology, Department of Surgery, Yale University School of Medicine, New Haven, Connecticut, USA.

Questions and Answers with Audience Participation

1:30 h. – 5:30 h.

Thirteenth Scientific Session

Pathogenesis, Current Management, and Future Directions in the Treatment of Aortic Aneurysms

Moderators:

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

Associate Professor of Surgery, Ohio University School of Medicine, Columbus, Ohio, USA; Adjunct Assistant Professor of Surgery, Ohio State University School of Medicine, Columbus, Ohio, USA; Chief, Vascular and Endovascular Surgery; Medical Director, Grant Vascular and Vein Center, Columbus, Ohio, USA; Vice President, Scientific Council, International College of Angiology; Member, Editorial Board, *International Journal of Angiology*.

Bauer E. Sumpio, MD, PhD

Professor of Surgery and Radiology, Chief, Vascular Surgery, Yale University School of Medicine, New Haven, Connecticut, USA; Senior Editor, *International Journal of Angiology*.

1:30 **Surgical Management of AAA and Long-Term Results:** John B. Chang, MD, FACS, FICA

1:50 **Practical Tips in Thoracic Aortic Surgery:** John A. Elefteriades, MD, FICA

2:10 **Endovascular Repair of Thoraco-Abdominal and Para-Visceral Aneurysms:** Darren B. Schneider, MD, Chief, Vascular and Endovascular Surgery, Weill Cornell Medical College, and Director, Center for Vascular and Endovascular Surgery, New York-Presbyterian Hospital-Weill Cornell Medical Center, New York, New York, USA.

2:40 **Genetics of Thoracic Aortic Aneurysm:** John A. Elefteriades, MD, FICA

3:00 **Ten Years of Success with Sun's Procedure for Type A Aortic Dissection:** Li-Zhong Sun, MD, Beijing Anzhen Hospital, Capital Medical University, Beijing, China.

3:20 **Perils and Pitfalls in Abdominal Aortic Aneurysm Open Surgery:** Jeffrey Indes, MD, Assistant Professor of Surgery and Radiology, Section of Vascular Surgery, Department of Surgery, Yale University School of Medicine, New Haven, Connecticut, USA.

3:40 **Long-Term Results after EVAR in an Integrated Health Care System:** Robert W. Chang, MD, Permanente Medical Group, San Francisco, California, USA.

4:00 **Surgical Management of Thoraco-Abdominal and Supra-Renal Aortic Aneurysms:** Richard Cambria, MD, Professor of Surgery, Harvard Medical School, and Chief, Division of Vascular and Endovascular Surgery, Massachusetts General Hospital, Boston, Massachusetts, USA.

4:30 **Preservation of Congenital Pelvic Kidneys during Endovascular Aneurysm Repair:** David J. Minion, MD, Professor of Surgery, Department of Surgery, University of Kentucky, Lexington, Kentucky, USA.

4:40 **Topical Hemostatic Agents for the Control of "Anastomotic Leak:"** Siby P. Saha, MD, MBA, FICA

Questions and Answers with Audience Participation

5:30 h.

ICA Business Meeting • Officers, Scientific Committee & IJA Editorial Board Meeting—Harkness Auditorium

Scientific Sessions

Saturday, November 9, 2013

8:00 h. – 9:30 h.

Fourteenth Scientific Session

New Strategies in the Management of Cardiovascular Disease and Current Issues in Lipid Management

Moderators:

Josef Veselka, MD, PhD, FICA

Professor of Medicine, Cardiovascular Center, Department of Cardiology, University Hospital Motol, 2nd Medical School, Charles University, Prague, Czech Republic; Vice President, Scientific Council, International College of Angiology; Member, Editorial Board, *International College of Angiology*.

Malka Yahalom, MD, DSc, FICA

Co-Chairperson, Membership Committee, International College of Angiology; Member, Editorial Board, *International Journal of Angiology*; Heart Institute, HaEmek Medical Center, Afula, Israel; Adjunct Senior Lecturer Emeritus, Rappaport Faculty of Medicine, Technion, Haifa, Israel; Director Emeritus, Pacemaker Unit, Western Galilee Hospital, Nahariya, Israel.

- 8:00 **Current Issues and Controversies in Cardiovascular Disease Prevention and Lipid Management:** Thomas F. Wayne, Jr., MD, PhD, FICA
- 8:30 **Edaravone Injected at the Start of Reperfusion Suppresses Lung Damage caused by Myonephropathic Metabolic Syndrome in Rats Focusing on Active Neutrophils:** Mitsuhiro Yamamura, MD, FICA, Co-Chairperson, Membership Committee, International College of Angiology; Department of Surgery, Hyogo College of Medicine, Hyogo, Japan.
- 8:45 **Flaxseed Component—An Alternative to ACE-Inhibitors for the Treatment of Hypertension:** Kailash Prasad, MBBS (Hons.), MD, FACC, FRCPC, FICA, FIACS
- 9:05 **Melon for Cardiovascular Health:** Sib P. Saha, MD, MBA, FICA

Questions and Answers with Audience Participation

9:30 h. – 10:15 h.

Fifteenth Scientific Session

Interventional Radiology

Moderator:

Wei Zhou, MD, FICA

Professor of Surgery, Stanford University School of Medicine, Stanford, California, USA; Chief, Vascular Surgery, Palo Alto VA Health Care System, Palo Alto, California, USA; Member, Editorial Board, *International Journal of Angiology*.

- 9:30 **History and Current Status of Interventional Radiology:** Rajinder P. Sharma, MD, FICA, Member and President-Elect, Board of Directors, International College of Angiology; Co-Chairperson, Scientific Committee, International College of Angiology; Member, Editorial Board, *International Journal of Angiology*; Division of Vascular and Interventional Radiology, Henry Ford Hospital, Detroit, Michigan, USA.
- 9:45 **Classification and Management of Vascular Malformations:** David N. Siegel, MD, FICA, Vice President, Scientific Council, International College of Angiology; Co-Chairperson, Scientific Committee, International College of Angiology; Member, Editorial Board, *International Journal of Angiology*; Chief, Interventional Radiology, Long Island Jewish Medical Center, Hofstra NorthShore-LIJ School of Medicine, New Hyde Park, New York, USA.

Questions and Answers with Audience Participation

10:15 h. – 10:30 h. – **BREAK**

10:30 h. – 11:15 h.

Sixteenth Scientific Session

ECMO System and Trans-Aortic Valve Replacement

Moderator:

John A. Elefteriades, MD, FICA

William W.L. Glenn Professor of Cardiothoracic Surgery, Vice Chairman and Member, Board of Directors, International College of Angiology; Co-Chairperson, Scientific Committee, International College of Angiology; Co-Editor-in-Chief, *International Journal of Angiology*; Director, Aortic Institute at Yale-New Haven, Yale University School of Medicine, New Haven, Connecticut, USA.

- 10:30 **The Current ECMO (VV and VA-ECMO) System—How It Works and Its Results:** Hitoshi Hirose, MD, FICA, Member, Editorial Board, *International Journal of Angiology*; Thomas Jefferson University, Philadelphia, Pennsylvania, USA.
- 10:45 **Trans-Aortic Valve Replacement:** Frank Manetta, MD, FICA, Member, Editorial Board, *International Journal of Angiology*; Department of Cardiothoracic Surgery, Long Island Jewish Medical Center, Hofstra NorthShore-LIJ School of Medicine, New Hyde Park, New York, USA.

Questions and Answers with Audience Participation

Scientific Sessions

Saturday, November 9, 2013 (Continued)

11:15 h. – 1:00 h.

Seventeenth Scientific Session

Current Management of Lower Limb Ischemia and Peripheral Vascular Disease

Moderators:

Pertti Aarnio, MD, PhD, FICA

Professor of Surgery, Member, Board of Directors and Co-Chairperson, Scientific Committee, International College of Angiology; Treasurer, International College of Angiology; Senior Editor, *International Journal of Angiology*; Chief, Department of Surgery, Satakunta Central Hospital and University of Turku, Pori, Finland.

Alan Dardik, MD, PhD, FACS

Professor of Surgery, Yale University School of Medicine; Chief of Vascular Surgery, VA Connecticut, Vascular Biology and Therapeutics, New Haven, Connecticut, USA.

-
- 11:15 **Long-Term Outcome of Lower Extremity Bypass Procedures:** John B. Chang, MD, FACS, FICA
- 11:35 **Lessons from PREVENT III and Future Directions for Vein Graft Trials:** Alan Dardik, MD, PhD, FACS, Professor of Surgery, Yale University School of Medicine; Chief of Vascular Surgery, VA Connecticut, Vascular Biology and Therapeutics, New Haven, Connecticut, USA.
- 11:55 **The Treatment of PVD with Autologous Stem Cells:** Randall W. Franz, MD, FICA, Associate Professor of Surgery, Ohio University School of Medicine, Columbus, Ohio, USA; Adjunct Assistant Professor of Surgery, Ohio State University School of Medicine, Columbus, Ohio, USA; Chief, Vascular and Endovascular Surgery; Medical Director, Grant Vascular and Vein Center, Columbus, Ohio, USA; Vice President, Scientific Council, International College of Angiology; Member, Editorial Board, *International Journal of Angiology*.
- 12:15 **Is There a Role for Direct Revascularization of Angiosomes in the Management of Chronic Limb Ischemia?** Bauer E. Sumpio, MD, PhD

Questions and Answers with Audience Participation

• CLOSE OF SCIENTIFIC SESSIONS •



56th Annual World Congress • ICA 2014

International College of Angiology

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Columbus, Ohio
September 18, 19, 20, 2014
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Join your colleagues from around the world, earn CME, and explore key areas rapidly expanding in cardiovascular medicine and surgery. ICA 2014 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 and their staff, and nurses.

The objective of the Annual World Congress 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 congress is intended 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 ICA is dedicated to establishing educational programs appropriate for practicing physicians and surgeons. The College's aim is to encourage young scientists and clinicians in basic and clinical research through a special forum of a young investigators award program.

This annual world congress will feature an internationally renowned faculty, and recognized leaders will discuss state-of-the-art techniques in the diagnosis and treatment of vascular disease. Live video case presentations, didactic lectures, panel discussions, debates, and question and answer sessions will highlight the most challenging, and controversial topics and procedures performed in interventional medicine. We encourage all of our colleagues to participate in this growing educational program by submission of a formal abstract for a standard oral, poster, or video presentation.

The 2014 program will focus on surgical, percutaneous, and medical management...from peripheral vascular disease to coronary and cerebrovascular disease and abdominal aortic aneurysm, this congress will offer a comprehensive review of what is new in techniques, approaches, and prevention.

Program Highlights

Advances in Endovascular and Interventional Procedures—Tips and Tricks ■ Carotid Arterial Interventions—CEA vs CAS ■ Advances—Controversies—Latest Concepts in Cardiovascular Medicine and Surgery ■ Debates in Cardiovascular Medicine ■ Up-to-Date Techniques for the Treatment of Peripheral Vascular Disease—Techniques and Results ■ Contemporary Treatment in Venous Disease ■ Thoracic Arch—AAA—Open Procedure vs. Stent vs. Hybrid or Combined? ■ Preventive Cardiology—Atherosclerosis—Risk Management—Prevention and Innovative Alternative Medicines ■ Young Investigator Award Competition ■ Oral, Video, and Poster Presentation Sessions ■ Round Table Discussions

For Additional Information and Abstract Forms, please contact:

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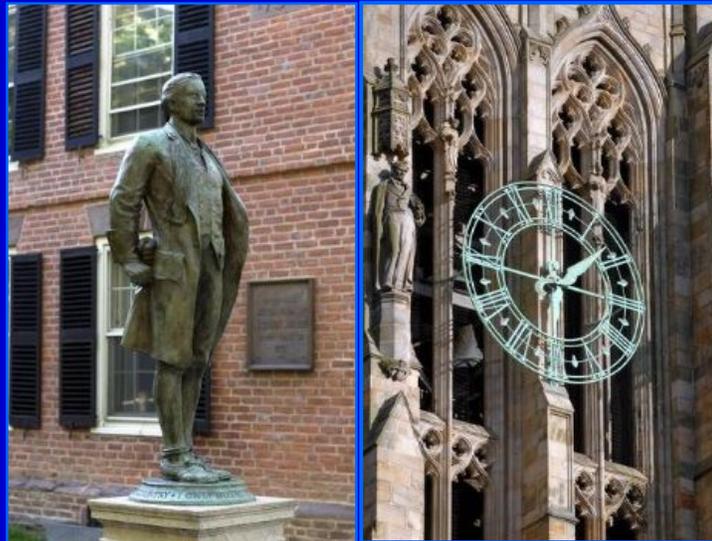
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