WEILL CORNELL SEMINAR in SALZBURG

in collaboration with

Medical University Vienna

“Cardiology”

October 8 – 14, 2017
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**Sunday 8 October**
- **08:00** – 09:00: Introduce All Participants Pre-Seminar Test
- **09:00** – 10:00: Classification and Management of Pulmonary Hypertension

**Monday 9 October**
- **08:00** – 09:00: Introduce All Participants Pre-Seminar Test
- **09:00** – 10:00: Classification and Management of Pulmonary Hypertension
- **10:30** – 11:30: Clinical Imaging and the Cardiologist
- **11:30** – 12:30: Introduction to Adult Congenital Heart Disease
- **12:30** – 13:30: LUNCH
- **13:30** – 15:30: Workshop Fellows’ Case Presentations
- **15:30** – 18:00: EP and Device Workshops

**Tuesday 10 October**
- **08:00** – 09:00: Introduce All Participants Pre-Seminar Test
- **09:00** – 10:00: Classification and Management of Pulmonary Hypertension
- **10:30** – 11:30: Clinical Imaging and the Cardiologist
- **11:30** – 12:30: Introduction to Adult Congenital Heart Disease
- **12:30** – 13:30: LUNCH
- **13:30** – 15:30: Workshop Fellows’ Case Presentations
- **15:30** – 18:00: EP and Device Workshops

**Wednesday 11 October**
- **08:00** – 09:00: Introduce All Participants Pre-Seminar Test
- **09:00** – 10:00: Classification and Management of Pulmonary Hypertension
- **10:30** – 11:30: Clinical Imaging and the Cardiologist
- **11:30** – 12:30: Introduction to Adult Congenital Heart Disease
- **12:30** – 13:30: LUNCH
- **13:30** – 15:30: Workshop Fellows’ Case Presentations
- **15:30** – 18:00: EP and Device Workshops

**Thursday 12 October**
- **08:00** – 09:00: Introduce All Participants Pre-Seminar Test
- **09:00** – 10:00: Classification and Management of Pulmonary Hypertension
- **10:30** – 11:30: Clinical Imaging and the Cardiologist
- **11:30** – 12:30: Introduction to Adult Congenital Heart Disease
- **12:30** – 13:30: LUNCH
- **13:30** – 15:30: Workshop Fellows’ Case Presentations
- **15:30** – 18:00: EP and Device Workshops

**Friday 13 October**
- **08:00** – 09:00: Introduce All Participants Pre-Seminar Test
- **09:00** – 10:00: Classification and Management of Pulmonary Hypertension
- **10:30** – 11:30: Clinical Imaging and the Cardiologist
- **11:30** – 12:30: Introduction to Adult Congenital Heart Disease
- **12:30** – 13:30: LUNCH
- **13:30** – 15:30: Workshop Fellows’ Case Presentations
- **15:30** – 18:00: EP and Device Workshops

**Saturday 14 October**
- **08:00** – 09:00: Introduce All Participants Pre-Seminar Test
- **09:00** – 10:00: Classification and Management of Pulmonary Hypertension
- **10:30** – 11:30: Clinical Imaging and the Cardiologist
- **11:30** – 12:30: Introduction to Adult Congenital Heart Disease
- **12:30** – 13:30: LUNCH
- **13:30** – 15:30: Workshop Fellows’ Case Presentations
- **15:30** – 18:00: EP and Device Workshops
WEILL CORNELL SEMINAR in SALZBURG

"Cardiology"
8 October – 14 October, 2017

FACULTY
Wolfgang Aulitzky, MD is the Medical Director of the American Austrian Foundation. He is Associate Dean for International Medicine and Distance Learning, Adjunct Prof. of Clinical Urology and Adjunct Prof. of Clinical Reproductive Medicine at the Weill Medical College of Cornell University/New York Presbyterian Hospital. In 2016, he was appointed Adjunct Professor of Pediatrics in the Associated Faculty of the Perelman School of Medicine at the Children's Hospital of Philadelphia. He is also Associate Prof. of Urology at the Medical University of Innsbruck and Visiting Professor at the Medical University of Vienna. Amongst others he is a member of the American, German and Austrian Societies of Urology and was awarded the Zuckerkandlpreis of the Austrian Society of Urology in 1989. In 1995 he received the Silver Medal, in 2007 the Golden Medal for Merits to the Republic of Austria and in 2014 the cross of honor of the Land Salzburg.

As Director of the Medical Program of the American Austrian Foundation he has initiated the Open Medical Institute, a scientific and educational collaboration of Weill Cornell and the NewYork Presbyterian Hospital, the Children Hospital of Philadelphia, Duke University, Columbia University, the Cleveland Clinic and leading hospitals in Austria. Dr. Aulitzky earned his medical degree at the University of Innsbruck in 1977, was a research associate at the University of Uppsala, Sweden and the Rockefeller University, New York. He received his training as an urologist at the University of Innsbruck and the General Hospital of Salzburg. He is the author of more than 140 publications on Urology, Andrology and Health Care issues and is co-author of books on basic and clinical urology/andrology.

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Paul Kligfield, MD, FACC, FAHA (Course Director) is Professor of Medicine at Weill Cornell Medical College, and has been at the Cornell Center of the New York- Presbyterian Hospital since 1977. He is a 1970 graduate of Harvard Medical School and was an intern and resident in Medicine at Beth Israel Hospital in Boston. He spent a year as a clinical research fellow in Cardiology at St. George's Hospital in London before completing his cardiology fellowship at Cornell. In addition to patient care activities and teaching, his clinical investigation has focused on various aspects of the electrocardiogram, including new algorithms in exercise testing and methodologic issues in standard electrocardiography. His interests in the history of medicine include the development of the stethoscope, the origins of the electrocardiogram, and the development of the pathophysiologic understanding of angina. Dr. Kligfield has served as President of the International Society for Computerized Electrocardiography, on the Board of Governors of the American College of Cardiology and as a member of its Annual Scientific Program Committee, as President of the New York Cardiological Society, and on the Board of Computing in Cardiology. He has previously served as a Director of the New York Heart Association, Secretary and Trustee of the New York Academy of Medicine, and President of the American Osler Society. Dr. Kligfield has published numerous research papers and editorials, and he serves on the editorial boards of a number of subspecialty journals.

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Gerald Maurer, MD (Co-Course Director) is a graduate of the University of Vienna School of Medicine. He trained in Internal Medicine in Vienna and subsequently in Baltimore, at Sinai Hospital. His Cardiology training was done at the University of Rochester (Strong Memorial Hospital). Dr. Maurer worked for 12 years in Los Angeles at Cedars-Sinai Medical Center, where he became the Director of Noninvasive Cardiology and also held an appointment as Associate Professor of Medicine at UCLA School of Medicine. He is Board Certified in Internal Medicine and in Cardiovascular Disease by the American Board of Internal Medicine, as well as in Austria.

Dr. Maurer served as Director of the Division of Cardiology and as Chair of the Department of Medicine II at the Medical University of Vienna until 2016.

Dr. Maurer’s research interests are oriented towards cardiovascular imaging, valvular, and ischemic heart disease. He has authored more than 300 peer-reviewed publications, 20 book chapters and 2 books.

Dr. Maurer has served as President of the Austrian Society of Cardiology, President of the Austrian Society of Internal Medicine and has held a number of functions at the American College of Cardiology and the European Society of Cardiology. He is the Editor-in-Chief of the European Heart Journal–Cardiovascular Imaging and is or has served on the Editorial Board of most major cardiology journals. He was appointed as an Editor of the upcoming 3rd edition of the ESC Textbook of Cardiovascular Medicine.

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Philipp Emanuel Bartko, MD, PhD is a physician and researcher who specializes in cardiology, cardiovascular imaging and valvular heart disease. He is currently affiliated with the Medical University of Vienna and Harvard University. He grew up in Vienna, Austria and graduated from Vienna medical school. During his PhD he gained particular interest in cardiovascular imaging, specifically new imaging techniques for quantification of left ventricular function to improve echocardiographic risk prediction in patients with low-flow, low-gradient aortic stenosis within a multinational framework (TOPAS study). During his Marie-Curie fellowship at Massachusetts General Hospital, Dr. Bartko focused on advanced three-dimensional quantification of mitral valve morphology as well as mitral valve biology in ischemic mitral regurgitation. He serves as a peer reviewer for multiple major cardiology journals. Dr. Bartko is the Austrian representative for the European association of cardiovascular imaging, an active member of the Austrian society of cardiology and a member of the ESC working group of valvular heart disease.

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Evelyn Horn, MD is a Professor of Clinical Medicine and Director of Advanced Heart Failure, Mechanical Assist and Pulmonary Hypertension Programs at Weill Cornell with an adjunct appointment at Columbia University. She is a graduate of Brown University (Math-Econ), Mount Sinai Medical School, internship and residency. She completed cardiology training at the Cedars Sinai/UCLA and a research fellowship at Columbia College of Physicians & Surgeons.

She remained at Columbia University in various capacities for more than 20 years including, Director of the Circulatory Physiology Fellowship Program, Director of Clinical Services for Heart Failure, Associate Director of the combined Pediatric & Adult Pulmonary Hypertension Center, Director of High Risk Cardiac Obstetrics program and Director of the Pulmonary Vascular program of the Center for Advanced Cardiac Care prior to being recruited by Weill Cornell to begin the advanced heart failure program.

She maintains a position at Columbia as Adjunct Professor and remains a part of the multidiscipline transplant team evaluating all patients for heart transplants at NYPH. She started her research career as a CHEST Physician Scientist studying the role of the G protein – beta receptor complex in heart failure, transplant and arrhythmias.

She has been involved with most of the ground breaking PH pharmaceutical studies and many of the classic systolic heart failure studies, the initial biventricular pacing heart failure protocols and remains as a primary investigator in multiple industry and NIH sponsored studies for HFrEF, HFpEF, LVADs and pulmonary hypertension. She is currently a PI of one of 6 centers in the NIH PVDOMCIS grant which is looking at OMICS and endophenotyping in pulmonary vascular disease across the spectrum of WHO Groups 1-5 and appropriate comparators and controls. In collaboration with other NY institutions, they recently completed an NIH study addressing the utility of LVADs in reversing the frailty phenotype in Stage D Heart Failure.

She and her colleagues are actively involved in all aspects of care of the advanced heart failure and pulmonary hypertension patients inclusive of the development of better systems of care for the general population of heart failure patients across the NYPH hospital network, establishing a novel dyspnea clinic and specialty diastolic heart failure program and providing specialty care for the advanced, hard to diagnose, acutely decompensated HF, PH patient inclusive of all mechanical
circulatory device therapies and as a consultant to the structural heart-valve programs.

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Robert J. Kim, MD is a noninvasive general cardiologist who is board certified in Nuclear Cardiology, Echocardiography, and Cardiac CT angiography, and also performs transesophageal echocardiography and attends in the cardiac ICU and on the consults service at New York-Presbyterian Hospital. Dr. Kim was born in Deep River, Ontario, Canada then traveled to the US for his higher education. He received his BA from Harvard University and his MD from Johns Hopkins School of Medicine. He then completed his internal medicine residency at Duke University Medical Center and his cardiology fellowship at Weill Cornell Medical College/New York-Presbyterian Hospital.

Dr. Kim is the Director of Consultative Cardiology and the Associate Program Director for the Cardiovascular Diseases Fellowship program and is the Co-chair of the Quality Improvement and Patient Safety committee of the Department of Medicine. He was a Weill Cornell Health Policy Leadership Fellow in 2012 and continues to work on utilizing health information technology to deliver accurate, efficient, and high-quality care to patients at Weill Cornell.

Dr. Kim is currently a faculty member of the Division of Cardiology at Weill Cornell Medical College/New York-Presbyterian Hospital as an Associate Professor of Clinical Medicine. He lives in New York City with his wife Kelly and son Galen.

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Raphael Rosenhek, MD is a cardiologist who specializes in Valvular Heart Disease and Endocardiography. Dr. Rosenhek received his doctorate of medicine at the University of Vienna in 1998. Since 2005, he has been an Associate Professor at the Medical University of Vienna and in 2007 became Director at the Clinic for Valvular Heart Disease. He has held several positions within the working group on Valvular Heart Disease of the European Society of Cardiology, in addition to serving on numerous editorial boards of academic journals specializing in cardiology (among them, *Heart* and *Cardiology*). Dr. Rosenhek has received multiple awards and grants for his work and contributions to the field of cardiology. He has authored and co-authored 27 scientific publications, which includes 23 journal articles and 4 books. Dr. Rosenhek has been invited to speak at several international scientific meetings, which have taken him around the globe – from Austria to Portugal, Greece, Ukraine, Israel, and the United States to name a few. Similarly, he has been invited to serve as chairman for multiple international scientific meetings.

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Harsimran Singh, MD, MSc is an adult congenital heart disease specialist and interventional cardiologist at Weill Cornell Medical College, New York Presbyterian Hospital in New York City, USA. Dr. Singh grew up in Lancaster, Pennsylvania, earning his undergraduate education in Molecular Biology from Princeton University, his medical degree from Yale University School of Medicine, and public health policy degree from the London School of Hygiene & Tropical Medicine. He completed his post-graduate training in medicine and cardiology at University of California, San Francisco and Columbia University – New York Presbyterian Hospital. He trained in adult congenital heart disease and structural interventional cardiology in Canada at Toronto Congenital Cardiac Centre for Adults at Toronto General Hospital.

For the past five years, Dr. Singh has directed the Adult Congenital Heart Disease program at Weill Cornell Medical College – New York Presbyterian Hospital as clinician and interventional specialist. His research interests focus on structural interventions and congenital heart disease in the pediatric-to-adult population.

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"Cardiology"

8 October – 14 October, 2017

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This week fellows and faculty were lucky for a number of reasons. Firstly, the weather was uncharacteristically good for the month of October—not only was the sun shining almost every day, but there was little precipitation. Secondly, and far more importantly, this was the last seminar Dr Paul D. Kligfield lead the week as course director. Hereafter, the cardiology seminars will be lead by Dr Robert J. Kim, whom Dr Kligfield has mentored for some time now. Thirdly, fellows also had a second teaching staff: four Medtronic representatives, who hosted workshops in electrophysiology and other devices, giving fellows invaluable insight into the most current medical technologies of their field.

The week began with the welcome reception on a balmy Sunday night, where course director Dr Paul D. Kligfield introduced his American faculty from Weill Cornell, and co-course director Gerald Maurer his from the Medical University of Vienna. Unlike some weeks, in which just one or two lectures receive attention in fellows’ comments, each and every faculty member had a lecture mentioned. Fellows felt especially informed by Dr Philipp Bartko’s lecture on myocardial deformation metrics, and Dr Robert Kim’s lecture on the differences between constrictive and restrictive cardiomyopathy. Dr Evelyn Horn received praise for her lecture on heart failure with preserved ejection fraction, and Dr Raphael Rosenhek for his on aortic stenosis. Dr Harsimran Singh’s lecture on adult congenital heart disease was most cited as the technique that fellows will most likely employ in their home country. Many also enjoyed Dr Singh’s lighthearted humor, which was apparent if not from anything but the hoots and hollers he received during the graduation ceremony. Even though course directors are normally given praise for their leadership or organization, they even received attention in fellow’s comments, like Dr Paul Kligfield’s talk on ECG in right ventricular hypertrophy, and Dr Gerald Maurer’s talk on clinical imaging within cardiology. Fellows also found the somewhat esoteric and specific nature of some lectures especially insightful, and noted that they will consider rare conditions like amyloidosis and sarcoidosis more often in their future diagnoses.

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Photos with Faculty

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12 October, Thursday, started as usual at 6:00 am. Constrictive vs Restrictive Cardiomyopathy (Dr.Robert Kim) was a pearl of this day. I liked his interactive and exciting way to teach. In addition, diagnostic approaches were discussed.

After dinner, we listened to chamber music concert in Schloss Arenberg. It was amazing memorable evening!

13 October, Friday. The last lectures and finally test. After so productive and informative lectures, the test seemed to me very easy! Additional thanks for Dr. Zvonimir Ostojic for informative and interesting case presentations and discussion.

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**Day 1. Sunday, 8th of October.**

Salzburg welcomes me in a rainy mood. Not bad. However, it could be better 😊

Dr Maurer and Dr Kligfield gave us short introduction into the course and represented the structure of next 5 days, which we will spend in Schloss.

Welcome dinner started with smiles and handshakes. I was surrounded by the only one pediatric cardiologist from Tanzania and brittle interventional cardiologist from Armenia. Does it still a man’s man’s world? 😊

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Dr Kligfield showed an importance of ECG in our routine work. It is always more attractively to involve cartoon examples in the presentation. And all those fifty slides passed, before my very eyes, as one.

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SALZBURG WEILL CORNELL SEMINAR CARDIOLOGY
October 8 – 14, 2017

- 32 fellows from 27 different countries and regions
- 7 faculty members from the United States and Austria
- 19 lectures and 3 workshops given by faculty
- 32 interesting cases presented by fellows
- 7 cases selected by faculty to be published in the Online Case Library

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SEMINAR DIARY FROM FELLOW

Diary of Tatyana Arkhipova, MD
Central Clinical Hospital, Almaty, Kazakhstan

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Wholeheartedly,
Tamila.
Sunday evening, 8th October. It was my third visit to Austria (Vienna, Graz), but only the first to this beautiful town. The impressive scenery of the city was reinforced by the Mozart’s one of great Sonatas on my headphone. I found Schloss Arenberg very cozy and friendly. After welcome reception we enjoyed very tasty dinner and were introduced to each other in a very friendly and easy manner. The atmosphere in Schloss Arenberg was perfect.

Monday, 9th October. Despite the 5 hour difference, I woke up at 6 o’clock without any difficulty. After breakfast the seminar started. We introduced ourselves briefly to the participants and lecturers. Director of the course Dr. Paul Kligfield introduced the aims and goals of whole seminar. Pre-seminar test was rather challenging, yet interesting and relevant. The first lection of Dr. Evelyn Horn was dedicated to Pulmonary Hypertension. After break there were two lectures on clinical imaging and adult congenital Heart disease by Dr. Gerald Maurer and Dr. Harsimran Singh. As a second-year resident, who started his rotations in heart failure department, these lectures were extremely relevant and interesting.

After delicious lunch and group photo, one of the most important parts of the Seminar – fellows’ case-presentations – started. Presentations were divided into three days, and I was a bit lucky to present my case on the third day. First 11 cases of the Monday were challenging, some of them even rather unique. The audience was very active and presented several thought-provoking questions to each presenter.

Then came the workshops. I chose TAVI workshop for Monday. It was an extremely relevant workshop, including both theoretical and practical issues of the procedure. Each participant was produced with an opportunity to work on the TAVI simulator.

After a productive day, we finished a day with a delightful dinner, sharing our impressions with lectures and workshops. Despite the fact that this was only the first day of the Seminar, I felt as I knew these people for years.

Tuesday, 10th October. The second day of the Seminars started with a pleasant breakfast. And it continued with fantastic lectures from two speakers, Dr. Harsimran Singh and Dr. Evelyn Horn. Both topics, Cyanotic Heart Disease and Dilated Cardiomyopathy, were quite relevant for me. I took very important messages from these lectures.

After coffee-break we had another two great speeches on two clinical topics: Cardiac Sarcoidosis and Hypertrophic Cardiomyopathies. Despite the fact that these were rather challenging topics, the ease with which the information was provided by lectures made them easy to understand.

Lunch...

Case presentations... Another 13 interesting clinical cases from fellows all around the world!!! Then came the workshops and today I chose Pacemaker implantation tutorial.

The day finished with a dinner at an exciting company from Serbian, Croatian and Bosnian colleagues.
Wednesday, 11th October. The day we all waited for (because we were given a free afternoon) came. After four very sophisticated lectures dedicated to Heart Failure and Valvular Heart Diseases, we had another pleasant lunch.

At lunch, we carefully planned our trip to Hohensalzburg Schloss and Mozarts’ birthplace. I was astonished by the beauty of the Castle and its fantastic location. And to our surprise, we found that Father of the Doppler echo Christian Doppler was from Salzburg!

Our long trip was concluded with a beer party at one of Salzburg’s pubs.

Thursday, 12th October. Wake up, breakfast... Today’s topics were on the Cardiomyopathies and ECG.

After a coffee-break we had another two exciting lectures about Strain imaging by Dr. Phillip Bartko, and Amyloid Heart Disease by Dr. Evelyn Horn. These were the topics of my interest.

I had my lunch quite fast and went to prepare to present my case. I was delighted that my case generated interest and discussion from the audience. Finally I realized that my case was chosen for publication to the online case library.

After dinner, we had a great piece of chamber music and relaxed after a productive day...

Friday, 13th October. The last day of the Seminars. After Dr. Phillip Bartko’s speech on 3D echo, came the most exciting part of the whole Seminar: Dr. Harsimran Singh’s Jeopardy game on Congenital Heart Disease. I was surprised by the way the lecture was given with such an ease.

After lunch we had a post-seminar evaluation test, on which we all did really well thanks to lectures by the speakers.

At Graduation Dinner despite awards and fun we had it was a little bit sad moment. For this short period we have become attached to each other. The speakers gave their final talks and we all had memorable photos with The Faculty Members.

Tomorrow is departure. Come back to our families and daily routine at work...

Thanks to Faculty and Administration of Schloss Arenberg for this wonderful week.

Kudrat Rakhimov