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SALZBURG WEILL CORNELL ANESTHESIOLOGY AND INTENSIVE CARE SEMINAR

September 15-21, 2019

- 37 fellows from 29 different countries and regions
- 8 faculty members from the United Kingdom, United States and Austria
- 20 lectures given by faculty
- 1 case presentation session, 1 ultrasound workshop, 1 airway workshop
- 36 interesting case presentations by fellows
- 6 excellent case presentations selected by faculty

Faculty Photo (L-R)

David Baron, MD; Daniela Marhofer, MD; Peter Marhofer (Co-Course Director); Hugh C. Hemmings Jr., MD, PhD, FRCA (Course Director) and June Chan, MB BS, FANZCA
not pictured: Jennifer M. Hunter, MBE, MB, CHB, PhD, FRCA, FCARCSI (Hon);
Karl Schebesta, MD and Roniel Weinberg, MD
Group Photo of Faculty and Fellows
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<tr>
<th>Time</th>
<th>Sunday 15 September - Saturday 21 September 2019</th>
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<td><strong>Weekdays</strong></td>
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<tr>
<td></td>
<td><strong>07:00 – 08:00</strong></td>
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<td></td>
<td><strong>BREAKFAST</strong></td>
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<td><strong>08:00 – 09:00</strong></td>
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<td><strong>Introductions</strong></td>
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<td>09:00</td>
<td><strong>09:00 – 10:00</strong></td>
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<td><strong>Cardiovascular Risk</strong></td>
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<td><strong>Assessment</strong></td>
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<td><strong>COFFEE BREAK</strong></td>
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<td>10:30</td>
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<td></td>
<td><strong>COFFEE BREAK</strong></td>
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<td>11:30</td>
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<td><strong>Pediatric Anesthesia</strong></td>
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<td><strong>Regional Anesthesia: Important Blocks</strong></td>
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<td></td>
<td><strong>Peter Marhofer, MD</strong></td>
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<td>12:30</td>
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<td><strong>Daniela Marhofer, MD</strong></td>
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<td>15:30</td>
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<td><strong>OMI/AAF PRESENTATION</strong></td>
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WEILL CORNELL SEMINAR in SALZBURG

"Anesthesiology and Intensive Care"

September 15 – 21, 2019

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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Hugh C. Hemmings Jr., MD, PhD, FRCA (Course Director) is Joseph F. Artusio Professor and Chair of Anesthesiology and Professor of Pharmacology at Weill Cornell Medical College, and Anesthesiologist-in-Chief at NewYork-Presbyterian Hospital/Weill Cornell Medical Center. Dr. Hemmings earned a BS in Biochemistry from Yale College, a PhD in pharmacology from Yale Graduate School, and an MD from Yale Medical School. His graduate work in the laboratory of Paul Greengard, PhD was cited in his 2000 Nobel Prize in Physiology and Medicine. He completed postdoctoral work at The Rockefeller University, a residency in anesthesia at the Massachusetts General Hospital, and a fellowship in cardiac anesthesia at NewYork-Presbyterian Hospital/Weill Cornell Medical Center, where he has been a faculty member for 28 years. An internationally recognized neuropharmacologist, Dr. Hemmings is an expert in the synaptic effects of general anesthetics and mechanisms of neuronal signal transduction. His research in these areas is supported by grants from the National Institutes of Health. He is active in several national and international societies for anesthesiology and neuroscience, and serves as the Editor-in-Chief for the British Journal of Anaesthesia. He has been elected Fellow of the Royal College of Anaesthetists and as a member of the Association of University Anesthesiologists. Dr. Hemmings has authored more than 100 articles in anesthesiology and neuroscience, and has edited four books, including Foundations of Anesthesia 2e published in 2006 and Pharmacology & Physiology for Anesthesia: Foundations and Clinical Application 2e published in 2019.

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Peter Marhofer, MD (Co-Course Director) is an anesthesiologist and intensive care physician who specialized in trauma, pediatric - and regional anesthesia. Dr. Marhofer grew up in Vienna, Austria and studied medicine at the School of Medicine, University of Vienna (now Medical University of Vienna). He started his fellowship in Anesthesia and Intensive Care in 1994, and habilitated in 2000. Dr. Marhofer's research interest include regional anesthesia and pediatric anesthesia. He was part of the research group developing ultrasound in regional anesthesia. He leads the scientific working group "Regional and Pediatric Anesthesia" at the Department of Anesthesia and Intensive Care Medicine, Medical University of Vienna. The group designs currently several volunteer studies in cooperation with the University Department of Clinical Pharmacology, Medical University of Vienna. This cooperation is only one part of a large international network, which was created during the last 20 years. Dr. Marhofer has a current H-factor of 40 with 119 Pubmed citations, and more than 260 publications. He wrote 2 books and gave more than 570 national and international lectures. He is editorial board member of the highest ranked anesthesia journal, the British Journal of Anesthesia. Dr. Marhofer is currently on the faculty of the Department of Anesthesia and Intensive Care Medicine, Medical University of Vienna as Professor and the head of pediatric anesthesia and pediatric intensive care medicine. He lives close to Vienna with his wife PD Dr. Daniela Marhofer, MBA (also anesthesiologist and intensive care physician). He has one daughter (Melanie, 21 years old and medical student).

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David Baron, MD is an anaesthesiologist and intensive care physician. Dr. Baron graduated from the Medical University of Vienna and completed his anaesthesiology residency at the General Hospital of Vienna. During his residency he completed a postdoctoral research fellowship at the Massachusetts General Hospital of the Harvard Medical School in Boston with Drs. Warren Zapol and Kenneth Bloch. Dr. Baron’s research interests include patient blood management and transfusion medicine, where he is especially interested in the storage lesion of packed red blood cells and epidemiological studies in intensive care medicine. Recent publications include an analysis of the influence of preoperative anaemia on perioperative morbidity and mortality and an evaluation of clinical practice in patient blood management. Dr. Baron’s research efforts have earned him grants from the European Society of Anaesthesiology and several research awards. He has reviewed for several anaesthesiologic journals. Dr. Baron is currently on the faculty of the Medical University of Vienna as Associate Professor for Anaesthesiology and Intensive Care Medicine. He lives in Vienna with his wife Joanna and daughter Naomi.

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June Chan, MB BS, FANZCA is a cardiac anaesthetist at Weill Cornell Medical College, where she is also the assistant director for residency education. Originally from Sydney, Australia, Dr. Chan received her medical degree from the University of New South Wales in 2002 and was a resident medical officer and anaesthetic registrar at Concord Repatriation General Hospital in Sydney. She passed her final examination in 2009 and received her FANZCA (Fellowship of the Australian and New Zealand College of Anaesthetists). Dr. Chan moved to New York City and Weill Cornell Medical College in 2011, where she subsequently completed a residency in anaesthetics and a fellowship in cardiothoracic anaesthesia before being admitted as a Diplomate of the American Board of Anesthesiology in 2016 and National Board of Echocardiography in 2017. Dr Chan's academic and research interests include cardiovascular physiology and monitoring, perioperative echocardiography, graduate medical education, education technology and communication in health care.

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Jennifer M. Hunter, MBE, MB, CHB, PhD, FRCA, FCARCSI (Hon) is an Emeritus Professor and Senior Research Fellow in the University of Liverpool, UK. She graduated with commendation from the University of St. Andrews in 1971 and started her anaesthesia training in Scotland. She then moved to Liverpool where she completed her residency programme before starting on an academic career. Her research interests have been based on the pharmacodynamics and pharmacokinetics of neuromuscular blocking drugs in health and disease. Her clinical responsibilities have included the management of the critically ill, trauma patients and patients with chronic kidney disease. Professor Hunter has been Honorary Secretary of the Anaesthetic Research Society (1991-6) and in 1989 was the first woman to be elected to the Editorial Board of the British Journal of Anaesthesia (BJA). In 1997 she became Editor-in-Chief of the BJA and in 2006 the Chairman of the BJA Editorial Board. Professor Hunter was the Chairman of the Scientific Programme Committee of the European Society of Anaesthesiology from 2006 to 2009, and in 2016 was made an Honorary Life Member of the Society. Professor Hunter has over 240 peer-reviewed publications, and has edited three anaesthetic textbooks. She has been an examiner for the FRCA (UK), and for the MMed Anaesth in Kuala Lumpur, Cairo, Riyadh and Hong Kong. She has been an external examiner of 30 PhD/MD theses. For her contributions to anaesthesia and health care, she was awarded the Gold Medal of the Royal College of Anaesthetists in 2011; and was made a Member of the Order of the British Empire by her Majesty the Queen in 2015.

Jennifer M. Hunter, MBE, MB, CHB, PhD, FRCA, FCARCSI (Hon)  
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Daniela Marhofer, MD, MBA, is an anaesthesiologist and intensive care physician who specializes in obstetric and regional anaesthesia. She is the head of obstetric anaesthesia at the Medical University of Vienna. Dr. Marhofer grew up in Upper Austria and studied medicine at the Medical University of Vienna. She started her fellowship in Anaesthesia and Intensive Care in 2004 and habilitated 2014. Her research interest includes regional anaesthesia. She spent 6 months in the Karolinska Institute, Stockholm, Sweden, for a research fellowship. Recent publications examine dexamethasone as an adjuvant to local anaesthetics for prolonging regional blocks. She finished her postgraduate studies “Master of Business Administration” 2017. She lives close to Vienna with her husband, Prof. Peter Marhofer, MD.

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Karl Schebesta, MD is anesthesiologist, intensivist and prehospital emergency physician. Dr. Schebesta grew up in Lower Austria and got involved in medical education and prehospital medicine as paramedic even before starting his formal medical training. After graduating from Medical University of Vienna he completed his anesthesia and intensive care medicine residency at the Department of Anesthesia, Intensive Care and Pain Medicine at the Vienna General Hospital. A medical simulation fellowship at the University of Ottawa Simulation and Skill Center of the Ottawa University, Department of Anesthesiology followed. Dr. Schebesta’s research interest includes airway management, medical simulation and emergency management. Currently, Dr. Schebesta is Director of the Academic Simulation Center Vienna of the Medical University of Vienna and the Vienna Hospital Association. Furthermore, he is Vice-Director of the Ortho- and Trauma- Anesthesia Unit at the Medical University of Vienne/Vienna General Hospital and Coordinator of the in-hospital emergency response team. He lives in Vienna with his wife and two children.

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Roniel Weinberg, MD is a practicing anesthesiologist at Weill Cornell Medical Center for the past eleven years. He completed his undergraduate studies at Yeshiva University in New York City and graduated from New York University School of Medicine in 2002. After finishing a residency in Anesthesiology in 2007 at Weill Cornell Medical College / New York - Presbyterian Hospital, Dr. Weinberg completed a one-year fellowship in Pain Medicine at the Tri-Institute Pain Fellowship: Weill Cornell Medicine / New York- Presbyterian Hospital, Hospital for Special Surgery, Memorial Sloan Kettering Cancer Center. Since the joining the faculty of the Department of Anesthesiology at Weill Cornell Medicine in 2008, Dr. Weinberg split his time between a busy outpatient interventional pain medicine practice and an inpatient acute pain medicine and anesthesiology practice, with a focus on regional anesthesia. In the summer of 2016, Dr. Weinberg transitioned to a full-time hospital based practice. He served as the director of the Acute Pain Division from 2010-2014 and the co-director of a merged Regional Anesthesiology and Acute Pain Medicine division since July 2014. In addition to serving on many departmental, hospital, and medical school committees, Dr. Weinberg is the Co-Chair of New York Presbyterian’s Sedation and Analgesia Committee and is the Medical-Director of the Baker 15 in-patient unit. Most recently, Dr. Weinberg has directed his department’s effort in coordinating the implementation of Enhanced Recovery Protocols across various surgical service lines. He lives in Bergenfield, New Jersey with his wife Aliza, and children Yonina, Sam and Alex.

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WEILL CORNELL SEMINAR in SALZBURG

"Anesthesiology and Intensive Care"

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FELLOWS
Fellow Booklet 698SWCS19 Anesthesiology and Intensive Care

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**September 15, Sunday.** I arrived to Salzburg early in the afternoon from Vienna by train. I liked the train, it was very comfortable, and I did not get tired of it at all. It was very easy to find the place where I will stay this week, and I caught the bus from the Main Station and in 30 minutes I got to Schloss Arenberg’s gates. After filling in some formal documents in the reception, I got my room key, I went to my room to have some rest. My room was very very nice with a beautiful and comfortable red armchair in the corner. The first meeting was at 7 p.m., we met our course director, Hugh C. Hemmings. He introduced some points about the seminar. Finally, we had a very tasty dinner, because I was really hungry that day. And this first meal helped us not to feel shy, and to be introduced to each other. And during the dinner I met my first friends from Georgia, Kazakhstan, Belarus, Hungary and Turkey.

**September 16 Monday.** I woke up early in the morning, and after having breakfast, we all met in the Grand Hall to listen to our first lectures. European people are famous for their punctuality, which I really like. The seminar started exactly at 8 am, no minute earlier or later. Before lectures, we had a pre-seminar test, and we will have to do this test again after all the lectures are done. I think, it is the best way for understanding, how useful and effective the classes have been. The first lecture was held by the course director and after discussing some questions, June M. Chan continued with the seminar program and her lecture, which was also interesting. I was really attentive for the details, that they mentioned. And one thing, that I really liked is, that they gave us all the copies of the lecture, and we were able to make notes and to study all material after the lectures. We finished at 5 o’clock, and after dinner a group of fellows and me went to a small pub to have a glass of beer.

**September 17, Tuesday.** Again I woke up early in the morning, enjoyed my breakfast with my new friends. The new information day started again at 8 o’clock. I got very useful information about blood transfusion, which I am planning to share with my colleagues, because I am working in one of the biggest hospitals in our country, and, unfortunately, there are many patients with traumas, who really need blood transfusions. It is very important to me to get a new and advanced information about it. In the second part of the seminar after lunch time we were divided into two groups for doing the workshops. The first group started with the ultrasound workshop. I was really happy for getting this opportunity. We tried some good and easy techniques in ultrasound, that I have never tried before. It was very important for me, because in our country we usually insert central venous catheters without
ultrasound, and teaching these techniques will really help me to reach higher standards, and share these skills with my colleagues.

**September 18, Wednesday.** In the morning a tasty breakfast, and then lectures in the Grand Hall. The most interesting lecture for me was about Anaphylaxis. June M. Chan’s talk was very interesting and enjoyable. At the end of the day we met professor Jennifer Hunter. She was funny, clever, and the most interesting person, that I have ever met. She was telling us about reversal agents in anesthesia. She was very active, energetic besides her age, and it was easy to listen to her, despite her British beautiful accent, which is a little bit difficult for us.

**September 19, Thursday.** The day started the same way. I really enjoyed the lecture about difficult airway management, because it is very important for every anesthesiologist. The Lecturer was speaking about the consecutive steps, what to do in case of difficult intubation and what kind of devices we need to use. After the lecture we were divided into two main groups and did the airway workshop. It was also very useful for me, because we don’t have such kind of devices like videolaryngoscopes and AirTrachs in our hospital, I have seen these devices only by video. That’s why I so motivated to work with it, I intubated wax figures due to these devices. And I hope, when I do this on a real patient, it will be easier for me. After the day full of content, we were walking along Salzburg’s clean and beautiful streets, and finally visited Hohensalzburg fortress, and we were very impressed of the beauty and the view from the top of the fortress. The most wonderful event that took place this day was a classical music concert in our Grand Hall. And I really enjoy it, because I love classical music the most.

**September 20, Friday.** This day was special to me, because it was my birthday, and I turned 25, it was the first time that I celebrated my birthday far from my native country. After the first lecture our fellow from Belarus Mariya stood behind me in the hall, and congratulated me. All applauded, and she then gave me a small gift from my new friends, which made me really happy. After that we concluded our final seminar day with Jennifer M. Hunter and she told us about ESA and about European examination, and I can say, she motivated me to try to pass this exam next year. I want to express my great gratitude to everyone in organization, for giving us these opportunities to get new knowledge, new useful skills and sure, new friends. It was my first experience, and I hope, it will help me to become better and better year by year. And I surely will share all of this knowledge and skills with my new colleagues.

Araks Manukyan, MD (Armenia)
**September 15, Sunday.** I had my flight to Salzburg with connection in Vienna. It did not take too much time but still mad my day pretty busy. It was my first time with the OMI and the AAF. I did know what to expect but still I remember the feelings, when I got the letter that my application was accepted. I arrived just before the Welcome Reception and Dinner. I met some colleagues in the lobby, exchanged a welcome words and went to my room. I was impressed how cozy and friendly everything was. Later this evening we had the welcome reception and it was amazing because just after 15-30 minutes we all were talking about everything and were sharing our experiences in the different areas.

**September 16. Monday.** Brief breakfast, some morning talks and we went to auditorium at 8 o’clock. Notes, pens and lectures slides have been prepared for us. Dr. Hugh C. Hemmings welcomed us to the seminar, and introduced the agenda. I was looking at the schedule and everything and I was able to think “How can we fit in everything within a week?”. Later we had a pre-seminar test. Was I nervous? Definitely “Yes”. Later that day, we had such great lectures as “Are anesthesia toxic to the Brain”, “Cardiovascular Risk Assessment”, “Pediatric Anesthesia”, “Perioperative Anemia” and was listening to some medical case presentations from our colleagues. Dr. June Chan’s lecture was impressive. This was my first time, that I took part of a lecture in such an interesting and modern setting. It was incredible. I was listening and thinking about how fantastic this idea actually is and that I definitely should try to implement it to my residents’ educational programme. The coffee-break, lunch and dinner also were a very important part. So we could share impressions, thoughts and took a brief talk with the faculty.

**September 17, Tuesday.** During breakfast the restaurant was so full of energy and conversations. We were talking about everything, discussing and debating sometimes. We started our day with the lecture on “Patient Blood Management” from Dr. David Baron. I attended the lecture about patient blood management during EuroAnesthesia2019 in Vienna. The goal of this talk was about reducing blood samples to decrease the risk of iatrogenic anemia and especially in patients who are staying in ICU for a long time. So after this lecture I returned to my hospital and we reduced blood samples and it really started to work for us. So I was waiting for this lecture as well to try to find another improvement for the implementation. I really like Dr. David Baron’s idea about a more personal patient management. After that we had lectures about regional anesthesia, abdominal nerve blocks and other important blocks. After lunch time the workshops were held. It was a great opportunity to train our hands- on skills in regional anesthesia. It was a really busy day. After dinner we enjoyed the city with
our international team and we knew, that tomorrow was our big day for the medical case presentations. But still I wanted to spend as much time as possible with my friends.

**September 18, Wednesday.** We started the day with lectures about “Enhanced recovery after orthopedic surgery” by Dr. Roniel Weinberg. After that we listened to the fantastic speaker Dr. June Chan about “Perioperative Anaphylaxis”. After that we also had a lecture about OB Anesthesia. Later we met the fantastic Prof. Jennifer M. Hunter with her lecture on “New approaches to Reversal” and it was so interesting. I enjoyed every minute and every little aspect of this lecture. After lunch time we were supposed to present our medical cases. So all my lunch time I was thinking about it and I was trying to stop being nervous because of the presentation. But after a few cases had been presented, I calmed down and stopped being nervous because it was really a friendly atmosphere. It was such a great time and opportunity to know how other international colleagues work and how challenging their cases were. After dinner it was a good time to have some rest. It was a busy day full of emotions.

**September 19, Thursday.** We started our day with a breakfast just like all previous days. But this time it was so quiet in the restaurant and everyone was “breathing out” after Wednesday’s challenge with the medical case presentations. The first lecture was on “Antidotes in Anesthesia” by Dr. Hugh C. Hemmings. It was a great one. Later on we had lectures about cardiac output measurement by fantastic Dr. Chan. After that we talked about Ketamine and its using. The last lecture was on “Trauma Anesthesia”. After lunch time we had an airway workshop. Dr. Schebesta showed us how to prepare the mannequin and we tried to use all devices for difficult airways. It was a great workshop. After that, we had a short rest and there was a culture program prepared for us in the evening: A Chamber Music Concert. It was incredible and amazing. We all were enjoying it for sure. I was listening to the fantastic music and was thinking, that this was really a great time here and how much effort was put into preparing everything to get us here and teach us so many things. It was a fantastic opportunity! It is not just about studying. It is also about being inspired and to inspire others, motivate them and show how strong community is and how many things we can do together, improve the quality for our patients’ lives. It was an amazing evening.

**September 20, Friday.** It is our last day here. This day was full of interesting lectures about the right heart, prehospital management, heart failure and workshop with Prof. Hunter about European Examination. But today most of us were a little bit nervous, because today was the post-seminar test. But it was really a big day and graduation is planned for today in the evening. I feel like saying “Thank you” but it is not enough. I really appreciate this opportunity. It was a fantastic time, both lectures and speakers. It was a great way to connect international doctors and to improve their performance, to motivate them, give them a chance to motivate each other and share their experience with the others. Every time you talked to the faculty or the staff you could feel how much effort was put into everything. Thank you, that I could be here.

_Yelyzaveta Plechysta, MD (Ukraine)_