



Clinical Professor Dr. Hans-Christoph Becker currently serves as Clinical Professor of Radiology at Stanford University and practices at Stanford Health Care and Stanford Medicine Children's Health. He completed his medical studies and doctoral training at Ludwig-Maximilians-University in Munich, Germany, where he specialized in in vivo and in vitro H1-NMR spectroscopy of intracerebral tumors. He completed his residency in diagnostic radiology and a fellowship in cardiovascular radiology at LMU, later becoming Professor of Radiology and Section Chief for Body CT at the university's Grosshadern campus. His academic work includes a professorial thesis on CT of coronary atherosclerosis, and he has published extensively on CT radiation exposure, neuro- and cardiac CT angiography, cardiac perfusion CT, rotating C-arm CT in liver interventions, and tumor response assessment in oncologic imaging.



PD Dr. med. Andreas S. Brendlin serves as Senior Consultant for Hybrid Imaging (PET-CT / PET-MRI) at the Department of Radiology at the University of Tübingen, where he also studied. His expertise lies in diagnostic and interventional radiology, nuclear medicine, and molecular imaging, with a strong focus on oncologic diagnostics. He is an active member of several international professional societies, including the DRG, ESR, and RSNA, and is involved in both research and academic teaching. In his work, he combines cutting-edge clinical practice with the latest advancements in medical imaging science.



Prof. Dr. Joachim Wildberger is a full Professor of Radiology and Chairman of the Department of Radiology and Nuclear Medicine at Maastricht UMC+. He graduated from the Rhenish-Westphalian Technical University (RWTH) in Aachen, Germany, in 1994 and completed his residency in Diagnostic Radiology at University Hospital Aachen. Dr. Wildberger's research focuses on technical developments in CT, contrast media, cardiac imaging, and image-guided interventions. As Principal Investigator for Imaging within CARIM, he integrates various imaging modalities into cardiovascular diagnostics to improve patient care.



Prof. Dr. Jiří Moláček is Head of the Department of Surgery at the Faculty of Medicine in Pilsen, Charles University, and University Hospital Pilsen. He earned his medical degree and Ph.D. from Charles University. Prof. Moláček specializes in vascular surgery, with clinical and research interests in aortic aneurysms, vascular graft infections, and oncovascular procedures. He has authored over 180 scientific publications and serves as Vice-Dean of the Faculty of Medicine in Pilsen



Dr. Filip Heidenreich is a radiologist at the Department of Imaging Methods at the Faculty of Medicine in Pilsen, Charles University, and University Hospital Pilsen. He earned his medical degree and Ph.D. from Charles University. Dr. Heidenreich specializes in advanced diagnostic imaging, with a focus on computed tomography and magnetic resonance imaging. His clinical and research interests include the application of cutting-edge imaging techniques in the diagnosis and management of complex medical conditions.



doc. Dr. Hynek Mírka, MD, PhD is Deputy Head of the Department of Imaging Methods at the Faculty of Medicine in Pilsen, Charles University, and University Hospital Pilsen. He earned his medical degree and Ph.D. from Charles University. Dr. Mírka specializes in radiology, with clinical and research interests in computed tomography, fluoroscopy, nuclear medicine, positron emission tomography, interventional radiology, and genitourinary imaging. He has authored over 70 scientific publications and is actively involved in medical education and research.



Dr. Hatem Alkadhi is a Professor of Diagnostic and Interventional Radiology at the University of Zurich and works at the University Hospital Zurich. He completed his medical studies at Ludwig-Maximilians-University Munich, Germany, and earned his doctorate in neuroradiology with a focus on the motor cortex anatomy. Dr. Alkadhi underwent extensive clinical and research training at institutions such as the University Hospital Zurich, the National Center of Competence in Research (NCCR) in Neural Plasticity and Repair, and Harvard School of Public Health. His research interests include advanced imaging techniques, computer-aided medical interventions, and image-guided surgery. He holds a Master of Public Health from Harvard and has been a full professor since 2015 at the University of Zurich.



Prof. Filippo Cademartiri is a leading clinical radiologist specializing in advanced imaging technologies in cardiology, oncology, and gastroenterology. He earned his medical degree and specialization in Diagnostic and Interventional Radiology, both cum laude, from the University of Parma. Currently, he serves as Director of Clinical and Research Imaging for Advanced Cardiovascular Diagnostics at IRCCS SYNLAB SDN in Naples. Author of over 1,000 scientific publications (h-index 90), he is among the most cited radiologists worldwide.



Prof. Dr. Jan Baxa, MD, PhD is Deputy Head for Education and Research at the Department of Imaging Methods, Faculty of Medicine in Pilsen, Charles University, and University Hospital Pilsen. He earned his medical degree and Ph.D. from Charles University. Prof. Baxa specializes in radiology, with clinical and research interests in computed tomography, magnetic resonance imaging, and interventional radiology. He is actively involved in medical education and has contributed to numerous scientific publications in the field of diagnostic imaging.



Prof. Dr. med. Matthias Frölich, MHBA is a senior radiologist at the University Medical Center Mannheim, where he leads the Division of Oncologic Imaging and Personalized CT and co-directs the Center for Integrative Diagnostics. He also heads the research group for AI-driven image analytics, focusing on advanced imaging technologies such as photon-counting CT and radiomics. Prof. Frölich earned his medical degree from the Technical University of Munich and holds a Master's in Health Business Administration. His research emphasizes cost-effectiveness in radiology and the integration of AI in diagnostic workflows.



Prof. Dr. U. Joseph Schoepf, MD is Professor of Radiology, Cardiovascular Medicine, and Pediatrics at the Medical University of South Carolina. He directs the Division of Cardiovascular Imaging and the Center for Biomedical Imaging. A graduate of Ludwig Maximilian University in Munich, his research focuses on cardiac CT, vascular imaging, and AI applications. Author of over 1,000 publications, he is among the most cited experts in cardiovascular imaging.



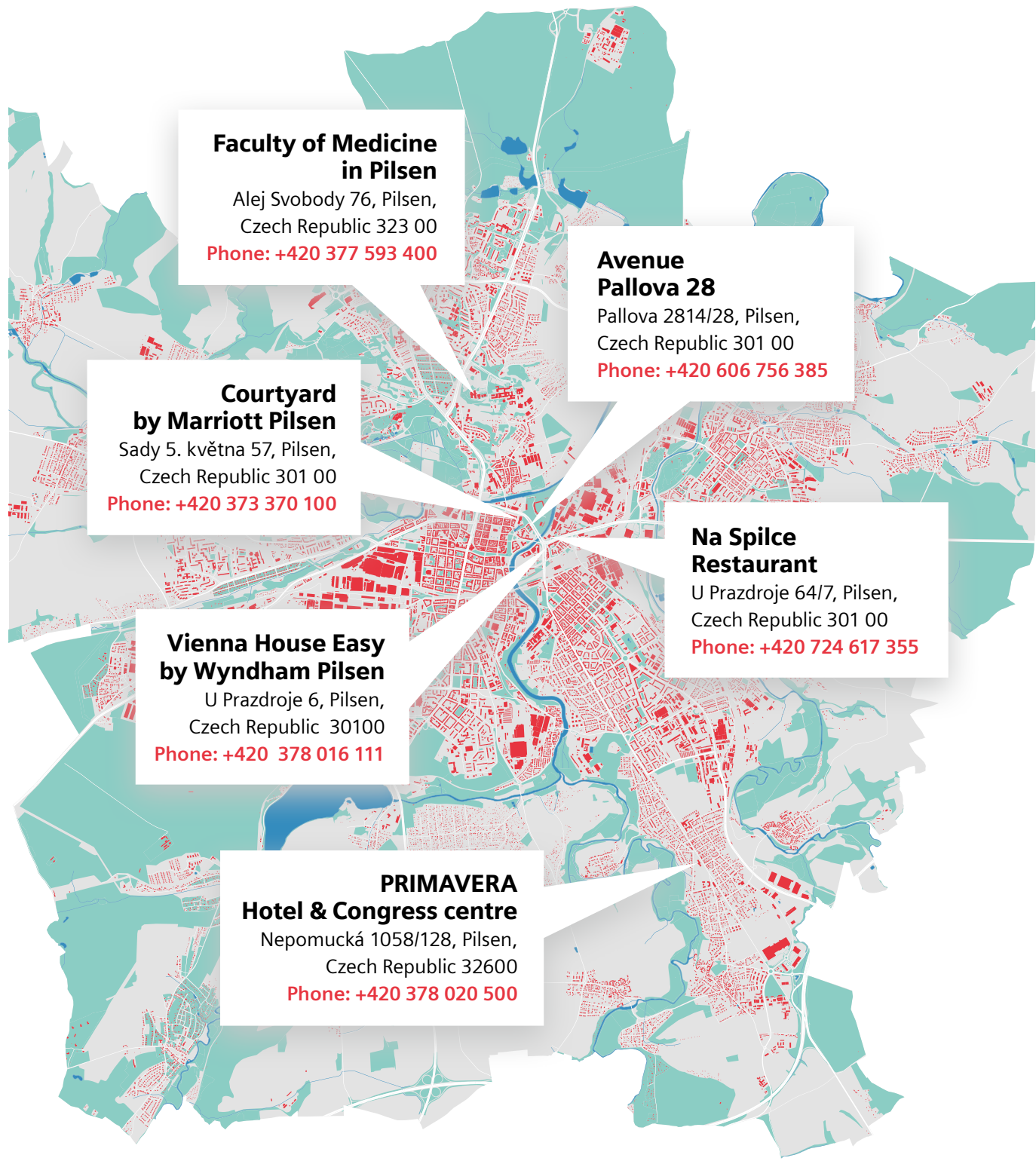
Thomas Kurmann is Head of Digital for Central Eastern Europe and Central Asia at Siemens Healthineers. He studied Business Informatics at Carinthia University of Applied Sciences. At Siemens Healthineers, he leads digital transformation initiatives across healthcare systems in the region, with a focus on patient-centered innovations such as digital health platforms and integrated care solutions. Under his leadership, the region has been recognized for excellence in digital diagnostics, including the implementation of the „Hallo Gesundheit“ patient portal in Austria.

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Photon-counting CT Talks



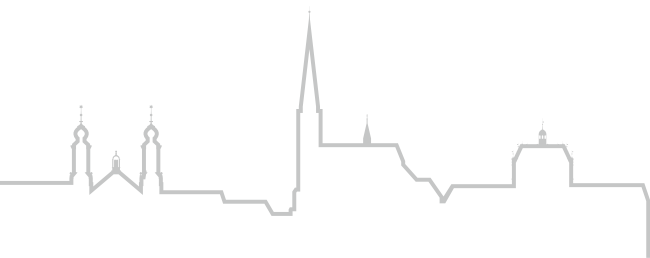
FIVE YEARS OF CLINICAL IMAGING

Charles University, Medicine Faculty in Pilsen





Professor Jiří Ferda, MD, PhD
Head of the Department of Imaging Methods | Vice-Dean for General Medicine and Non-Medical Study Programmes | Head of the Institute of Anatomy Faculty of Medicine in Pilsen, Charles University & University Hospital Pilsen
Scientific Guarantor of the Conference



ABOUT

Pilsen (Plzeň) is the fourth-largest city in the Czech Republic, renowned for its rich history, vibrant culture, and contributions to the brewing industry. It is internationally famous as the birthplace of Pilsner beer, which originated in 1842. The city blends historic architecture, such as the Pilsner Urquell Brewery and St. Bartholomew’s Cathedral, with modern innovation and growth. As a center for education and technology, Pilsen is also home to a thriving medical community, fostering both local and international research.

Faculty of Medicine in Pilsen, Charles University is one of the leading medical schools in the Czech Republic. It is part of Charles University, the oldest university in Central Europe, established in 1348. The Faculty of Medicine in Pilsen is known for its world-class research, innovative teaching methods, and close collaboration with University Hospital Pilsen. It offers a wide range of medical programs, including undergraduate, graduate, and doctoral courses. With a strong emphasis on clinical education, it prepares students for careers in various specialties, contributing significantly to medical advancements both locally and internationally.

Dear Friends of Photon-Counting Computed Tomography,

It is a great pleasure and honour to welcome you all to Pilsen, at the Charles University Faculty of Medicine. We gather here to celebrate five remarkable years of clinical imaging using photon-counting computed tomography. Just as it is said that the first five years of childhood shape the entirety of a human personality, these initial five years of photon-counting CT will undoubtedly shape the future of CT technology. To me, this future is immensely exciting.

Our meeting takes place at the oldest university north of the Alps and east of the Rhine. Thus, we should fully embrace the oldest academic tradition—engaging in vigorous discussion and debate, fostering a critical exchange of ideas and visions for photon-counting CT imaging. And, in my completely unbiased opinion, we could not have chosen a better faculty anywhere in the world.

Special things happen here in Pilsen, in the heart of West Bohemia. In 1842, the renowned Pilsner Brewery introduced the world to an entirely new style of beer—Pilsner. 178 years later, another revolutionary innovation emerged at the University Hospital in Pilsen: photon-counting computed tomography entered clinical practice for the first time. Once again, Bavarians and Bohemians have come together to create something truly exceptional.

So please, remember to savour the full experience of Pilsen.



PROGRAM DAY 1



Thu June 5 th	
06:30 – 08:00	Breakfast
from 08:10	Shuttle Departures from Hotels to the Faculty of Charles University in Pilsen for workshops
from 08:30	Participant Registration
from 11:00	Shuttle Departures from Hotels to the Faculty of Charles University in Pilsen
11:30	Participant Registration
09:00 – 12:00	Syngo.via simulator workshop
12:00 – 13:00	Lunch
13:00 – 13:30	Welcome adress J. Ferda, Ph. Fischer, B. Ohnesorge
13:30 – 15:00	Five years of clinical imaging with PCCT
⌚ 20 min	From physics to imaging T. Flohr, Erlangen, Maastricht
⌚ 20 min	Technology deep dive and future perspectives B. Schmidt, Forchheim
⌚ 20 min	Five years of photon-counting CT in clinical imaging J. Ferda, Pilsen
⌚ 20 min	Discussion
15:00 – 15:30	Coffee break
15:30 – 16:45	PCCT imaging strategies
⌚ 20 min	Stanford perspective - imaging protocols Ch. Becker, Stanford
⌚ 20 min	Tübingen perspective - oncology imaging A. S. Brendlin, Tübingen
⌚ 20 min	Maastricht perspective - contrast material application J. Wildberger, Maastricht
⌚ 20 min	Surgeon’s experience - pancreatic surgery planning with PCCT J. Moláček, Pilsen
16:45 – 18:00	PCCT special focus in Pilsen
⌚ 20 min	Stroke imaging F. Heidenreich, Pilsen
⌚ 20 min	Children imaging J. Ferda, Pilsen
⌚ 20 min	Lung carcinoma screening H. Mírka, Pilsen
⌚ 20 min	Discussion
18:00	Transfer to dinner location
19:00 – 21:00	Dinner at Spilka Restaurant
21:00 – 22:00	Beer Tapping Workshop
22:00	End of dinner and return to hotels

RESTAURANT



Na Spilce A brewery pub offering modern Czech cuisine

Accept our invitation to the traditional Na Spilce Pub, which is located in the former fermentation cellars of the Pilsner Urquell brewery. We cook using genuine ingredients delivered directly from local farmers and serve Pilsner Urquell in the best quality.



PROGRAM DAY 2



Fri June 6 th	
from 08:10	Shuttle Departures from Hotels to the Faculty of Charles University in Pilsen
09:00 – 10:30	PCCT in cardiovascular imaging - ultra HD or spectral?
⌚ 20 min	Coronary arteries and myocardium - Zürich perspective H. Alkadhi, Zürich
⌚ 20 min	Coronary arteries and myocardium - Napoli Perspective F. Cademartiri, Napoli
⌚ 20 min	Coronary arteries and myocardium - Pilsen Perspective J. Baxa, Pilsen
⌚ 30 min	Discussion
10:30 – 11:00	Coffee break
11:00 – 12:45	PCCT - AI, radiomics and informatics infrastructure
⌚ 20 min	Radiomics and PCCT M. Frölich, Mannheim
⌚ 20 min	AI in cardiac imaging with PCCT J. Schoepf, Charleston
⌚ 20 min	IT infrastructure perspective Th. Kurmann, Vienna
⌚ 30 min	Discussion
12:45	Closing remarks J. Ferda, Ph. Fischer, B. Ohnesorge
13:00 – 14:00	Lunch
14:00	Departures to Prague Airport

BIOS



Prof. Dr. Jiří Ferda, MD, PhD is Head of the Department of Imaging Methods at the Faculty of Medicine in Pilsen, Charles University, and University Hospital Pilsen. He also leads the Institute of Anatomy and serves as Vice-Dean for General Medicine and Non-Medical Study Programs. Prof. Ferda specializes in advanced CT and hybrid imaging techniques, including PET/CT and PET/MRI, with a focus on oncological and vascular diagnostics. He is President of the Czech Neuroradiological Society and Vice-President of the Czech Radiological Society. Prof. Ferda has authored over 100 scientific publications and contributed to several monographs and book chapters.

Philipp Fischer is Head of Computed Tomography at Siemens Healthineers, where he leads the development of advanced CT technologies, including photon-counting CT. Under his leadership, Siemens Healthineers has introduced the Naeotom Alpha class, the world’s first photon-counting CT scanners, enhancing diagnostic precision and patient care. Fischer’s work focuses on expanding access to high-performance imaging solutions globally, aiming to scan 1 billion patients with photon-counting CT within the next decade.

Bernd Ohnesorge is President of Europe, Middle East, and Africa (EMEA) at Siemens Healthineers. He holds a master’s degree in data communication and digital signal processing from Friedrich-Alexander University Erlangen-Nuremberg and earned his Ph.D. in biomedical engineering from Ludwig Maximilian University of Munich. Since joining Siemens in 1994, Dr. Ohnesorge has held various leadership roles

across imaging modalities and regions, including Head of Magnetic Resonance and CEO of Siemens Healthcare China. He has authored over 30 scientific publications and holds 16 international patents.

Thomas Flohr is a Senior Principal Key Expert in Computed Tomography at Siemens Healthineers and an adjunct professor of medical physics at Eberhard Karls University in Tübingen, Germany. He is recognized as a key innovator in the development of photon-counting CT technology. Flohr holds a Ph.D. in physics and has authored over 80 scientific publications. He has been instrumental in advancing CT technology, including the development of Dual Source CT and photon-counting CT systems. In 2021, he was a finalist for the German Future Prize for his contributions to photon-counting CT.

Bernhard Schmidt is Senior Director of CT R&D Collaborations and Senior Key Expert at Siemens Healthineers. He holds a Ph.D. in physics and has authored over 300 scientific publications with nearly 45,000 reads and approximately 15,000 citations . Dr. Schmidt has contributed to more than 15 patents in the field of medical imaging . His research focuses on photon-counting CT, spectral imaging, and advanced image reconstruction techniques. He has been instrumental in developing clinical applications for photon-counting detector CT systems and has collaborated with leading institutions such as Mayo Clinic and Ruijin Hospital .

