

2020 Annual Lecturers

66th Annual Louis H. Bauer Lecturer:

Daniel Kraft, M.D.

"The Future of Health & Medicine: Where Can Technology Take Us?"

Daniel Kraft is a Stanford and Harvard trained physician-scientist, inventor, entrepreneur, and innovator. With over 25 years in clinical practice, biomedical research, and healthcare



innovation, Kraft has served as Faculty Chair for Medicine at Singularity University since its inception in 2008, and is the Founder and Chair of Exponential Medicine, which explores convergent, rapidly developing technologies and their potential in biomedicine and healthcare. Following undergraduate degrees from Brown University and medical school at Stanford, he was Board Certified in both Internal Medicine and Pediatrics after completing a Harvard residency at the Massachusetts

General Hospital and Boston Children's Hospital, and fellowships in hematology, oncology, and bone marrow transplantation at Stanford.

Dr. Kraft has multiple scientific publications and medical device, immunology, and stem cell related patents through the Stanford University School of Medicine and as clinical faculty for the pediatric bone marrow transplantation service at University of California San Francisco. He is a member of the Kaufman Fellows Society (Class 13) and member of the Inaugural (2015) class of the Aspen Institute Health Innovators Fellowship. He is also the inventor of the MarrowMiner, an FDA approved device for the minimally invasive harvesting of bone marrow, and founded RegenMed Systems, a company developing technologies to enable stem cell-based regenerative therapies. He is also the founder of IntelliMedicine, focused on data driven, precision medicine. He has conducted research on aerospace medicine that was published with NASA, with whom he was a finalist for astronaut selection.

7th Annual Reinartz Lecturers:

James C. McEachen, M.D., ME, M.P.H., and Anthony P. Tvaryanas, M.D., Ph.D.

"The Flight Path Toward Precision-Based Aeromedical Decision Making"

James McEachen is currently the Optimization of Human Capital Core Research Lead/Aerospace Medicine Physician at the 711th Human Performance Wing, Wright-Patterson AFB, OH, USA. He is also ANG Assistant to the Defense Health Agency Director of Combat Support for the Air National Guard at Defense Health Headquarters, Falls Church, VA. He holds a B.S. in Electrical Engineering from the University of Notre Dame, an M.E. in Electrical Engineering from the University of Virginia, an M.D. from the University of Illinois, and an M.P.H. from the University of Minnesota. From 2009 to 2014, he was Chief of Aerospace Medicine/Flight Surgeon for the Air



National Guard in Des Moines, IA. In 2013, he became Associate Professor/Director of Aerospace Medicine Research at Wright State University in Dayton until 2015. In 2014, he was promoted to ANG Assistant to the Command Surgeon, 25th Air Force Headquarters, Lackland AFB, TX, and from 2017 to 2018 was ANG Assistant to the Command Surgeon, AMC, at the office of the Command Surgeon, Scott AFB, IL. Starting in 2015, he was also Human Performance Research Thrust Area Lead/Aerospace Medicine Physician at USAFSAM, Wright-Patterson AFB, until 2019. He

holds various awards, including the Legion of Merit, three Meritorious Service Medals, the Air Force Commendation Medal, AsMA's Julian E. Ward Memorial Award, and was twice a NASA Astronaut Selection Board finalist.

Anthony Tvaryanas is the Manager of the Aerospace Medical Research Division, Civil Aerospace Medical Institute, Federal Aviation Administration, Oklahoma City, OK, USA. He holds a B.S. in Chemistry from George Washington University, and an M.D. from the Uniformed Services University of the Health Sciences, an M.P.H. from Tulane University, and a Ph.D. in Modeling, Virtual Environments, and Simulation from the Naval Postgraduate School. He is Board certified in Aerospace Medicine and Occupational and Environmental Medicine. He served as a Flight Surgeon at the 99th Air Refueling Squadron, Robins AFB, GA, from 1998–2001. In 2004, he became Chief



of the Unmanned Aircraft Human System Integration Branch, 311th Performance Enhancement Directorate at Brooks City-Base, TX. In 2010 he took the position of Technical Advisor at the 711th Human Performance Integration Directorate at Wright-Patterson AFB, OH. He then became Senior Research Scientist at KBR in Beavercreek, OH, in 2017. In 2018, he was promoted to Principal Specialist of Research Operations, which he held until 2019, when he took his current position. His honors and awards include the Stanley N. Roscoe Award for the best doctoral dissertation, AsMA's Marie Marvingt Award, the Ellingson Trophy from AsMA's Associate Fellows Group, and four Howard R. Unger Awards for outstanding research articles. His military awards include the Meritorious Service Medal, the Aerial Achievement Medal, the Air Force Commendation Medal with two devices, the National Defense Service Medal with one device, and the Armed Forces Expeditionary Medal with one device.

55th Annual Harry G. Armstrong Lecturer: Thomas Dimitroff

Panel: "Selection and Training in Professional Sports"

One of the longest-tenured general managers in the NFL, Thomas Dimitroff has held his post since 2008. A two-time Executive of the Year honoree by Sporting News (2008 and 2010), Dimitroff has been the architect of the most successful run in franchise history. During his tenure, the Falcons have posted a 102–74 regular-season record and the eighth-best winning percentage in the NFL over that span. Dimitroff is responsible for all aspects of football operations with the Falcons and works with Coach Dan Quinn when constructing the roster.



Dimitroff began his scouting career as the Canadian Scouting Coordinator for the Saskatchewan Roughriders of the CFL in 1990. In 1992, he moved to the World League of American Football, where he scouted all NFL, CFL, and World League rosters while tracking player transactions for the NFL's developmental league. After that, he moved onto the Detroit Lions as a college scout in 1994. From there, he went back to Cleveland in 1998 as a college scout for the Browns for 4 years before landing with the Patriots in 2002. During his 5 years as the director of college scouting in New England (2003–2007), he was responsible for overseeing area scouts who evaluated all the nation's college prospects while scouting and tracking the development and availability of drafted players. The Patriots had a 77–17 overall record in Dimitroff's tenure and they won back to back Super Bowls in 2003 and 2004.