2019 Medical Design Forum: Embracing + Innovating Change
Thursday & Friday, February 7-8, 2019 | The Mountaineers, 7700 Sand Point Way NE, Seattle, WA 98115
* all sessions/speakers subject to change

This year’s Medical Design Forum includes two days of interdisciplinary presentations, design case studies, and conversations around embracing and innovating change. What are today’s key drivers of change in healthcare and healthcare environments, and how do we approach these changes? How do we measure the social and economic value of innovation, manage risk, and keep humans at the center of design? On February 7 and 8, we welcome AEC and healthcare professionals to join us for a dynamic program that kicks off with keynote speaker Beth Kolko, PhD and concludes with a virtual tour of St. Charles Bend’s new patient tower.

**D**AY 1: **T**HURSDAY, **F**EBRUARY **7**, **2019**

10:00 – 10:30 REGISTRATION + **L**IGHT **B**REAKFAST

10:30 – 10:40 WELCOME + INTRODUCTIONS
Cassie Blair | Professional Programs Manager, AIA Seattle

10:40 – 10:45 ARCHITECTURE FOR HEALTH COMMITTEE UPDATE
Thane Eddington | PKA Architects

10:45 – 12:15 NON-EXPERT INNOVATION: DRIVING TRANSFORMATIONAL CHANGE
KEYNOTE Beth Kolko, PhD | Co-founder and CEO, Shift Labs

12:15 – 1:00 **L**UNCH

1:00 – 2:15 INNOVATION LIGHTNING TALKS
A series of short presentations from interdisciplinary innovators, curated by the forum’s planning task force (see pg. 8)

2:15 – 3:45 WHAT HAPPENS THE DAY AFTER OPEN HOUSE?
Gary M. Schindele, FHFI | President, Paladin Healthcare
Randal Brand R.A, MBA | Chief Strategy Officer, MedSpace Innovations

3:45 – 3:55 **B**REAK

3:55 – 4:45 INNOVATIONS IN PUBLIC SECTOR COLLABORATION AND PROJECT DELIVERY
Steve Tatge | Executive Director, Project Delivery, University of Washington Facilities
Garett Buckingham | Assistant Director, Project Delivery, University of Washington Facilities

4:45 – 6:00 WRAP-UP + NETWORKING HAPPY HOUR
Cassie Blair | Professional Programs Manager, AIA Seattle
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DAY 2: FRIDAY, FEBRUARY 8, 2019

8:30 – 9:00  REGISTRATION + LIGHT BREAKFAST

9:00 – 9:05  WELCOME
Cassie Blair | Professional Programs Manager, AIA Seattle

9:05 – 9:15  DOH UPDATE
Susan Upton | Washington Department of Health

9:15 – 10:15  SEATTLE CHILDREN’S HOSPITAL RESEARCH AND PATIENT CARE: A CASE STUDY IN BRIDGING THE DIVIDE BETWEEN BENCH TO BEDSIDE – A STRATEGIC PLAN AND PRACTICAL ASSESSMENT
Vickie Cleator | Vice President, Research Service Line Operations at Seattle Children’s Hospital
Anne Stevens, MD, PhD | University of Washington and Seattle Children’s Hospital

10:15 – 11:15  AN INTEGRATED APPROACH TO BEHAVIORAL HEALTH TREATMENT AND RESEARCH
Jan Willemse, AIA, DBIA, LEED AP | Managing Partner, ZGF
Dr. Lowell Tong | Executive Vice Chair, Department of Psychiatry, Weill Institute for Neurosciences, University of California San Francisco

11:15 – 11:30  BREAK

11:30 – 12:15  CCC BLACKBURN CENTER EMULATING HOME: DESIGNING A REVOLUTIONARY CLINIC WITHIN AFFORDABLE HOUSING
Michael Great, AIA, LEED AP | Managing Design Principal, Ankrom Moisan
Mariah Kiersey, AIA, NCARB, NCIDQ, LEED AP BD+C | Principal, Ankrom Moisan

12:15 – 1:00  LUNCH

1:00 – 2:30  VIRTUAL TOUR: ST. CHARLES BEND’S PATIENT TOWER
Carl R. Tully, AIA, LEED AP | Principal, NBBJ
John Williamson, LEED AP | Project Executive, Skanska
Mark Peckover, PE, LEED AP | Principal, Electrical Engineering, Stantec
Chad Harnish, LEED AP BD+C | Project Architect and Project Manager, NBBJ
Selena E. Smith, RN, BSN | Director of Critical Care Services, St. Charles Health System
Rhonda Skallan, MSM | Senior Project Manager and Healthcare Construction Consultant, Point B

2:30  THANK YOU + PROGRAM ENDS

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KEYNOTE SPEAKER:
Beth Kolko, PhD is a researcher, educator, and entrepreneur who blends disciplinary perspectives to identify hidden problems and craft innovative solutions. She began her career as a professor in the humanities, studying how diverse communities used a then text-based internet to organize and enact change. Her current work focuses on the potential of non-experts to create disruptive solutions, and she builds programs that help people become functional engineers so they can solve problems in their communities. Beth is co-director of the Tactical and Tactile Technology Lab. She also created the Hackademia Project which builds innovation potential among broad audiences by imparting functional engineering skills combined with design thinking. Kolko is the co-founder and CEO of Shift Labs, a for-profit company building low-cost medical devices for emerging markets leveraging global innovation networks. She has been the Director of Innovation at the Makerbot Foundation (2013), a Fulbright professor at the University of World Economy and Diplomacy in Tashkent, Uzbekistan (2000), a Visiting Faculty Researcher at Microsoft Research (2007), and a Fellow (2007-2009) and Faculty Associate (2009-present) at the Berkman Center for Internet and Society at Harvard University.

DAY 1 PRESENTERS:
Randal Brand R.A, MBA has spent over 38 years in the healthcare field with an emphasis on ambulatory facility design and management. He is one of the founding executives and co-creators of MedSpace Innovations, where he serves as Chief Strategy Officer. Randal most recently served for 10 years as Director of Facilities and Support Services for The Polyclinic, Seattle, WA. Over the course of his extensive career, Randal has designed over 3 million square feet of medical space and conducted over 3,500 hours of healthcare, project management, and construction-related lectures. Randal holds bachelor’s degrees in both Architecture and Construction Management from the University of Nebraska and an M.B.A. from the Seattle University. He is also a registered Architect in the State of Washington.

Garett Buckingham is an Assistant Director of the Project Delivery Group for the University of Washington’s Facilities organization. He directs a portfolio, which supports the UW Medical system, Intercollegiate Athletics, Housing and Food Service and UW Seattle Campus Facilities. Garett has been supporting the University of Washington Medical Center’s Capital Program for the last 8 years in various roles, using all of the delivery methods available to a public agency. Prior to joining the University in 2006, Garett worked for MulvannyG2 Architecture in their program development, ISEC Construction to help form their Northwest Architectural Woodwork group, and Skanska Construction. Garett attended the UW and has B.A. in Architectural Studies and a B.S. in Construction Management. He is a member of the Lean Construction Institute and an Associate Design-Build Professional with Design-Build Institute of America.
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Gary M. Schindele, FHFI is a Fellow of the Health Facility Institute. An International Sales and Marketing professional with a strong clinical background, Gary has lead international capital equipment teams in the critical care areas of healthcare for over 35 years and has been involved in many hundreds of healthcare projects around the world during his career. Gary’s clinical experience comes from the pre-hospital and Emergency Department arenas. His certifications include: Firefighter Paramedic, Tactical Emergency Casualty Care. Gary is the President and co-owner of Paladin Healthcare LLC and volunteers as Commanding Officer of the Clermont Battalion, in the U.S. Naval Sea Cadet Corps. Gary has been a Volunteer EMT/Firefighter for 40 years and has recently retired from the Fire service. Gary lives with his wife Cindy and son in Montverde, Florida.

Steve Tatge is an architect and the Executive Director of the Project Delivery Group for the University of Washington’s Facilities organization. He directs a portfolio which typically exceeds a billion dollars and includes projects such as the Bill and Melinda Gates Center for Computer Science and Engineering and the $230M Population Health Facility. Prior to joining the University in 2004, Steve directed the quality control program for Walsh Construction’s Seattle office and managed capital projects for a Seattle biotechnology firm. He was the Senior Associate for the Miller/Hull Partnership and managed several AIA award-winning projects during his 11 years there. Steve attended the UW Masters of Architecture program and has a B.A. in Psychology from Knox College. He is President of the Western Washington Chapter of the Design-Build Institute of America Northwest Region.

DAY 2 PRESENTERS:

Vickie Cleator is vice president of research service line operations at Seattle Children’s. She has oversight of all research operations service lines including Building and Engineering, Environmental Health and Safety, Facilities, Office of Animal Care, Operations, and Security. Vickie has been with Children’s since the inception of its research institute in 2006. Before joining Children’s, Vickie worked in the biotechnology industry where she oversaw the Facilities team at Corixa. Prior, she oversaw operations on the Facilities Design team at Targeted Genetics. Vickie attended Lewis and Clark College where she received a bachelor of science in biology.

Michael Great is leading the design conversation as a Managing Design Principal at Ankrom Moisan. With every project, he studies the environmental and social impacts of design, while keeping an eye on innovative materials and processes that can change the industry. A collaborator by nature, Michael loves exploring options through the lens of different design disciplines. He believes stretching the expectations of the client is critical to any pioneering design or process. As the Principal-in-Charge for Central City Concern’s Blackburn Center, Michael challenged the team to consider how the project could be a catalyst for future development. Located at a convergence of varying activity, the team identified how to define the overall theme of ‘healing’ through varying levels of scale.
Chad Harnish LEED AP BD+C is a Project Architect and Project Manager with over 20 years of experience in the field, specializing in Healthcare architecture since 2006. He leads project teams on a day-to-day basis throughout the duration of projects, and is typically the primary point of contact for the leadership team. Chad has experience planning, organizing and executing projects from Notice To Proceed to occupancy. As the single focal point of contact and communications throughout the life of the project, he is responsible for meeting agreed upon schedules and budgets and for leading and coordinating the design effort.

Mariah Kiersey is a Principal at Ankrom Moisan, a design firm focused on human development with offices in Portland, Seattle, and San Francisco. As a licensed architect and interior designer, Mariah’s extensive experience has influenced projects of varying types and scale. From architecture to urban design Mariah loves pushing her teams to explore innovative solutions while bringing diverse project stakeholders to consensus. As the Project Manager for Central City Concern’s Blackburn Center, Mariah is dedicated to deliver a place that captures the pure essence of a home. Throughout the design process, it was imperative to make each individual—resident, patient, staff, visitor—feel safe. Every space is designed to nurture and support personal transformation and recovery.

Mark Peckover, PE, LEED AP has more than 28 years of electrical engineering experience in healthcare, higher education, commercial, and government projects. He brings excellent design and project management skills to his projects emphasizing a team oriented approach. Combining a thorough understanding of overall building functions and diverse project experience, Mark is able to effectively communicate complex engineering concepts and ideas to non-technical stakeholders, as well as other disciplines and owners. As Principal-in-Charge of Stantec’s team for the St. Charles Medical Center Patient Tower project, he guided the design for the power distribution, fire alarm, technology infrastructure systems, stand-by power and lighting systems.

Rhonda Skallan is a Senior Project Manager and Healthcare Construction Consultant with over 25 years of experience in directing fully integrated programs, project teams through all phases from concept to on-time completion and close out of $500 million Healthcare capital Construction projects... She has proven success leading numerous strategic projects including a $3.8 million expansion of a hospital campus with multiple off-campus locations. She has extensive experience in managing direct reports, cultivating highly diverse teams with significant individual talents and team strengths. She managed Children’s Hospital Colorado Real Estate property acquisition and Network of Care facilities upgrades and renovations for 17 years. Expertise areas include Pediatric and Community Health, Hospital Relocation, and Construction & Expansion programs.
Selena Smith is the Critical Care Director for St. Charles Health System in Bend, Oregon. She has worked with St. Charles Health System since 2002. Selena started as a C.N.A. and has worked her way to her current position as Critical Care Services Director for Bend and Redmond Hospitals. She started on this project as Operational Lead in 2016. During restructuring of the organization, she transitioned into Project Sponsor as Director of Strategic Nursing Initiatives in 2017, assisting with operational readiness for megaprojects occurring within the health system. These projects included implementation of Epic Electronic Health Records that went live April 2018 and the current Tower Expansion set to open May of 2019. Selena has years of experience in healthcare and enjoys the beauty of projects that create a better and safer patient experience, while improving caregiver satisfaction.

Anne Stevens MD, PhD is the Chief, Pediatric Rheumatology and Professor at the University of Washington, a principal investigator in the Seattle Children’s Research Center for Immunity and Immunotherapies, and an attending physician at Seattle Children's Hospital. She earned her BS in Biochemistry at UC Davis, then MD and PhD at Baylor College of Medicine. She completed a residency in pediatrics at Children’s Hospital Medical Center in Cincinnati and a fellowship in pediatric rheumatology at the University of Washington. She is board certified in Pediatrics and Rheumatology. The Stevens Lab is focused on T lymphocyte regulation in pediatric autoimmune diseases. Current studies include immune regulation by oral and fecal microbial communities.

Dr. Lowell Tong is Executive Vice Chair, UCSF Department of Psychiatry. He is a graduate of Stanford University, University of Virginia Medical School and the UCSF Psychiatry Residency Training Program. Since 1988 he has been a UCSF faculty member in various roles designing and directing operational and business models for clinical services; leading medical student and residency curricular transformations; and administrative leadership of academic units at the division, department, medical school and campus levels. He is currently a member of the UCSF campus-wide Space Committee and the UCSF Academic Senate Space Committee, and chairs the UCSF Academic Senate Committee on Curriculum and Education Policy. He is faculty lead for the new physical home of the UCSF Child Teen and Family Center and Psychiatry Department in Dogpatch, adjacent to the Mission Bay campus in San Francisco.

Carl R. Tully, AIA, LEED AP is an NBBJ principal and project manager with 30 years of experience, primarily with NBBJ. He earned a Master of Architecture degree from Washington University in St. Louis and is a licensed architect in both Washington and Oregon. He leads complex healthcare projects, from urban high-rise developments to community hospitals. He has also received training in facilitative mediation and conflict resolution, which complements his management and team leadership skills in guiding diverse client groups through the design process. Beginning in August 2015, Carl has served as chairman of the Standing Advisory Committee for Swedish Hospital’s First Hill campus, an appointed volunteer position for the City of...
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Seattle. Carl has also been involved in his community as an advocate for urban trails and bicycling infrastructure. Carl’s active work includes Seattle’s Denny Substation for Seattle City Light, St. Charles Medical System’s Bend Patient Tower, Oregon Health & Science University’s Casey Eye Institute Elk’s Children’s Eye Clinic and Hospital Expansion Project Tower.

Jan Willemse, AIA, DBIA, LEED AP is managing partner of ZGF’s Portland office, leading design teams on a variety of complex buildings. His approach focuses on synthesizing art and science, infused with a strong sense of social responsibility and resource stewardship. He’s responsible for advancing the firm’s Integrated Project Delivery approach and use of digital design tools. His projects range from children’s hospitals to research buildings, and from sports medicine facilities to a net-zero energy innovation center. Jan has designed clinical facilities at academic medical institutions, including Memorial Sloan-Kettering Cancer Center; Stanford University; Oregon Health & Science University; and the University of Minnesota.

John Williamson, LEED AP is a project executive at Skanska with 26 years in the industry. He holds a degree in Construction Management from the University of Washington. John has experience with a range of markets including aviation, education, retail, civic, historic renovations and healthcare. His projects have taken him throughout the Northwest with a focus on Central and Southern Oregon. In addition to working on multiple projects for a national retail client, he is leading two design-build projects for St. Charles Medical Center in Bend, OR, and Asante Rogue Regional Medical Center in Medford, OR. John enjoys leading teams, serving repeat clients and using collaborative delivery strategies to execute large and complex projects. He is a board member of the Central Oregon Builders Association and is regularly engaged with regional civic organizations, including local chambers of commerce and economic development committees for Central Oregon. John is an outdoor enthusiast, avid cyclist and skier, and enjoys chasing his three young sons, including three-year-old twins.
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INNOVATION LIGHTNING TALKS
The following presentations were curated from responses to a call for proposals put out by AIA Seattle and the Medical Design Forum planning task force. We sought to convene a series of presentations that would deepen the audience’s understanding of current research and innovations driving change.

1:05 – 1:12  What if We Can Design a Children’s Hospital of the Future? | Nolan Rome, WSP
1:12 – 1:19  Innovation of Human-Centered Design in the Operating Room | Leah Meer, ZGF
1:19 – 1:26  Virtual Reality and Transition Planning | Hugh Campbell, HOK
1:26 – 1:33  Virtual Reality: The Art of Pain Management | Julia Beabout, Novaby
1:40 – 1:47  Energy is the Middle Man | Jess Scanlon, PAE
1:47 – 1:54  Material Transparency: Awareness and Advocacy | Stacey Crumbaker + Khue Nguyen, Mahlum
1:54 – 2:01  A Flexible Approach to Pricing | Ty Thornton, Lease Crutcher Lewis

LIGHTNING TALK PRESENTERS
Nolan Rome | US Health Care Director/Global Co-Chair, WSP | An architectural engineer by training, Nolan is a practice leader in WSP’s healthcare team in the US. Although much of his time is devoted to project coordination, Nolan remains a passionate ‘hands-on’ engineer and continues to design mechanical systems including central energy plants. Nolan has spent most of his career in the healthcare sector and thrives on the diversity within the sector and the wide variety of people he meets. After graduating from the University of Texas at Austin in 1999, he joined engineering consultant ccrd, which was acquired by WSP in 2014. Key recent projects include Dell Children’s Medical Center, which was the first hospital in the world to achieve Leadership in Energy & Environmental Design (LEED) Platinum Certification and Phoenix Children’s Hospital. With a keen interest in outdoor pursuits from camping to cycling, Nolan also enjoys mentoring junior colleagues. In 2012, Nolan was named by the US weekly Engineering News-Record (ENR) as one of the country’s ‘top 40 engineers under 40’.
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Leah Meer | Architectural Designer, ZGF | Leah is an architectural designer in ZGF Architects’ Seattle office, where she is currently helping plan and design two healthcare facilities in Washington state. She is influenced to design better, more efficient, patient-focused healthcare facilities by using her own experiences as a patient throughout her entire life with various personal health issues. Leah earned her Bachelor of Design in Architecture from the University of Minnesota and Master of Architecture in Architecture + Health from Clemson University, where she was involved in the research project “Realizing Improved Patient Care through Human-Centered Design in the Operating Room” (RIPCHD.OR). Her involvement in the RIPCHD.OR project spanned from researching and designing multiple iterations of operating rooms to testing their design layouts in a full-scale mock-up with complete surgical teams. She aims to create spaces where patients and staff feel safe, welcome, and in control of their environment.

Hugh J. Campbell, AIA | Principal/Sr. Medical Planner, HOK | Hugh is a healthcare architect and programmer with over 35 years’ experience leading planning teams in the development of cutting edge ideas for replacement hospital, major additions, outpatient facilities and major campus master planning. Hugh’s specialties include hospital and academic medical center master planning and programming and he has planned many of the major children’s hospitals in the U.S. and abroad. He also has a strong focus in perioperative services and cancer centers. He is experienced in Lean Design Principles and the facilitation of integrated design events combining the values and tactics of lean with a long history of planning experience and an understanding of the complexities of the current and future health care system.

Julia Beabout, CEO, Novaby | Julia is CEO of Novaby, a global, digital art production company specializing in 3D content and virtual experiences. As Director of Design, she has over 20 years experience guiding clients, artists and engineers through complex 3D projects up to $200 million, from concept through completion, in the virtual and physical worlds. She is a registered professional engineer (PE) with a degree in Architectural Engineering from The Pennsylvania State University and an MA in Asian Studies from Florida International University in Miami. She is also co-founder of Tech in the Tenderloin (TNT), a non-profit connecting low-opportunity youth and families with high-opportunity tech through fun activities and events in the Tenderloin neighborhood of San Francisco and beyond.

Jack Newman | Green Building Consultant, Sazan | Jack is a certified Renewable Energy Professional with the Association of Energy Engineers, and serves on the board of directors at Solar Washington, a non-profit organization overseeing Washington’s rapidly growing solar industry. With a background in utility renewable energy program management and interconnection policy, solar project development, and net zero energy certification program management at the International Living Future Institute, Jack’s work as a Green Building Consultant with Sázán Environmental Services seeks to engage the latest renewable energy, energy efficiency, battery
storage, and microgrid solutions to complement a wide range of sustainable design consulting services for public and private clients and partners.

Jess Scanlon, Building Performance Specialist, PAE Engineers | Jess focuses on optimizing the energy and water use of buildings and trying to find new ways to integrate the built and natural environment. She feels climate change is her generation’s biggest challenge and feels compelled to be a part of the solution. She has a Masters in Architectural Engineering from CU Boulder and was the VP of Engineers Without Borders at the founding chapter at CU Boulder. She has worked on multiple internal Research & Development (R&D) grants at PAE and enjoys creating engineering infographics to communicate complex data. When she isn’t saving the environment, you can find her trying every new restaurant in town.

Stacey Crumbaker | Associate, Mahlum | Practicing at the intersection of architecture and interiors, Stacey brings a unique perspective and expertise to the design of healthful environments. With more than 12 years of experience, she has cultivated her practice as a response to human experience and deeply believes in architecture’s ability to shape community. Her work stems from a foundation of cohesive project delivery and knits together the poetics of design with the technicalities of construction. She was honored by the International Interior Design Association (IIDA) as the recipient of the 2016 Distinguished Leadership Award. Stacey received a Bachelor of Science in Interior Design and a Master of Architecture from Arizona State University.

Khue Nguyen, Mahlum | A member of Mahlum’s healthcare design studio, Khue creates healthful environments through the thoughtful application of research to the design process resulting in patient-centric clinical environments that promote healing. Khue received a Bachelor of Arts in Architectural Design from the University of Washington.

Tyler Thornton | Project Engineer, Lease Crutcher Lewis | Tyler (Ty) is a Project Engineer at Lease Crutcher Lewis. He has worked exclusively in the healthcare market, including projects for Seattle Cancer Care Alliance, Kaiser Permanente, and EvergreenHealth. Coming from a family with three generations practicing medicine across the country, Ty mixes this history and deep connection to healthcare with his personal passions for engineering and the built environment. He holds a Bachelor of Science in Civil Engineering degree from Washington State University.

Bryan Maggio | Healthcare Market Executive, Mortenson | Bryan is an enthusiastic team leader with a passion for healthcare. As a market executive for Seattle’s Healthcare team, Bryan is responsible for project acquisition and performance, as well as creating new, and growing existing customer and partner relationships. With over 10 years of industry experience delivering a wide range of

complex healthcare projects, he understands the unique demands of this market space and brings an extensive knowledge of working in both active and acute care environments. Bryan is an Associate DBIA Professional and AHA Certified Healthcare Constructor, as well as an associate member of both the American and Washington State Societies for Healthcare Engineering. He actively supports many community service initiatives and has been committed to organizations such as Rebuilding Together and the ACE Mentor Program. He earned his Bachelor of Science degree in construction management from Drexel University, and what a member of the Men's Lacrosse team.