

Symposium Agenda

January 12, 2017 - Mission Bay Conference Center, San Francisco, CA

8:00 – 8:30	Registration & Breakfast
8:30 – 8:40	Welcome <p>Hanmin Lee, MD <i>Surgeon-in-Chief, UCSF Benioff Children's Hospital, Professor & Chief, UCSF Division of Pediatric Surgery</i></p> <p>Bertram Lubin, MD <i>Associate Dean of Children's Health, UCSF</i></p> <p>Shuvo Roy, PhD <i>Professor, UCSF Department of Bioengineering & Therapeutic Sciences</i></p>
8:40 – 9:00	Opening Remarks <p>Sam Hawgood, MBBS <i>Chancellor, UCSF</i></p> <p>Nicholas Dirks, PhD <i>Chancellor, UC Berkeley</i></p> <p>S. Shankar Sastry, PhD <i>Dean, UC Berkeley College of Engineering</i></p> <p>Talmadge King, Jr., MD <i>Dean, UCSF School of Medicine</i></p>
	Part I Improving Patient Safety & Health Disparities Through Technology <i>Moderator: Bert Lubin</i>
9:00 – 9:15	Social determinants of children's health <p>Dayna Long, MD <i>Medical Director, UCSF Benioff Children's Hospital Oakland</i></p>
9:15 – 9:30	Inside out network effect <p>Ralph Gonzales, MD, MSPH <i>Associate Dean for Clinical Innovation, UCSF School of Medicine</i></p> <p>Jessica Chao, PharmD, MBA <i>Program Director, UCSF Clinical Innovation Center</i></p>
9:30 – 9:45	Gamified microlearning to standardize care across children's hospitals <p>Arup Roy-Burman, MD <i>Associate Professor, UCSF Department of Pediatrics; Co-founder & CEO, Elemeno Health</i></p>
9:45 – 10:00	Preventing Never Events for kids <p>Hanmin Lee, MD <i>Surgeon-in-Chief, UCSF Benioff Children's Hospital, Professor & Chief, UCSF Division of Pediatric Surgery</i></p>
10:00 – 10:15	Printed and flexible pediatric MRI receiver coils <p>Ana Claudia Arias, PhD <i>Associate Professor, UC Berkeley Department of Electrical Engineering & Computer Sciences</i></p>
10:15 – 10:35	Break & Demos*
	Part II Neurologic Disabilities: Current State & Hope for the Future <i>Moderator: Hanmin Lee</i>
10:40 – 10:55	Harnessing the tools of brain development for recovery from brain injury <p>Donna Ferriero, MD <i>Physician-in-Chief, UCSF Benioff Children's Hospital; Professor & Chair, UCSF Department of Pediatrics</i></p>
10:55 – 11:10	Towards a speech neuroprosthetic for restoring communication <p>Edward Chang, MD <i>Associate Professor, UCSF Departments of Neurological Surgery & Physiology</i></p>

Engineering for Children's Health




11:10 – 11:25	Phoenix: An exoskeleton for pediatric mobility disorders Homayoon Kazerooni, PhD Professor, UC Berkeley Department of Mechanical Engineering; Founder & CEO, SuitX
11:25 – 11:40	Algorithms for human-robot interaction Anca Dragan, PhD Assistant Professor, UC Berkeley Department of Electrical Engineering & Computer Sciences
11:40 – 11:50	Exploration of AR/VR in medical training, treatment, and patient management Allen Yang, PhD, Ruzena Bajcsy, PhD, Richard Hernandez, Gregorij Kurillo, PhD, David Saez & Nani Walker UC Berkeley Center for Augmented Cognition
11:50 – 12:00	VR for procedural pain and anxiety Simon Robertson Founder, kindVR
12:00 – 1:00	Lunch & Demos*
Part III	Medical Devices for Kids Moderator: Shuvo Roy
1:00 – 1:15	Recent research in development engineering and children's health Alice Agogino, PhD Professor, UC Berkeley Department of Mechanical Engineering
1:15 – 1:30	Highlights from the UCSF Pediatric Device Consortium Michael Harrison, MD Professor Emeritus, UCSF Departments of Surgery & Pediatrics
1:30 – 1:45	Organ function replacement using silicon membranes Shuvo Roy, PhD Professor, UCSF Department of Bioengineering & Therapeutic Sciences
1:45 – 2:00	Mobile microscopy applications in pediatric global health Michael D'Ambrosio, PhD Research Scientist, Fletcher Lab UC Berkeley Department of Bioengineering & Biophysics
2:00 – 2:25	Break & Demos*
Part IV	Stem Cell Delivery & Therapies for Pediatrics Moderator: Bert Lubin
2:30 – 2:45	Long noncoding RNA regulation of neural stem cells and cancer Daniel Lim, MD, PhD Associate Professor, UCSF Department of Neurological Surgery
2:45 – 3:00	Stem cell transplant for alpha thalassemia Tippi MacKenzie, MD Associate Professor, UCSF Division of Pediatric Surgery
Part V	Panel Discussion: Catalyzing Opportunities for ECHI Moderator: Hanmin Lee
3:00 – 4:00	Michael Anderson, MD President, UCSF Benioff Children's Hospitals Tejal Desai, PhD Professor & Chair, UCSF Department of Bioengineering & Therapeutic Sciences Sanjay Kumar, MD, PhD Professor & Associate Chair, Department of Bioengineering, UC Berkeley Bertram Lubin, MD Associate Dean of Children's Health, UCSF
4:00 – 5:30	Closing Remarks & Cocktail Reception

*Demos by:	LucasFilm ILMxLAB	Cellscope – UC Berkeley	kindVR Virtual Reality Therapy
	SuitX Exoskeletons	SmartDerm	Pediatric Device Consortium
	UCSF Biodesign Lab	Elemeno Health	UC Berkeley Center for Augmented Cognition