Over the last 20 years, a bunch of us at Tufts have been working with LEGO Education on the LEGO Mindstorms product—a robotic toolkit used by students from 3 to 80 years old. A direct result of the educational theories of Papert, the Mindstorms product has been instrumental in getting engineering into classrooms and in changing how classes are taught—helping move teachers from instructionally based teaching to more project-based, constructivist teaching. As part of the LEGO Engineering team, I have interacted with thousands of teachers and students on almost all continents (or software has run on all continents and space) and will show what students are capable of doing if given the chance to drive their own learning in all countries.

Chris Rodgers is a Professor of Mechanical Engineering at Tufts University and co-directs the Center for Engineering Education and Outreach. He has done research for the NSF, LEGO Education, Intel, National Instruments, Steinway and Sons, McDonnell-Douglas, NASA, and a host of other companies. In 2003 he received the NSF Director's Distinguished Teaching Scholar Award for excellence in both teaching and research. Most importantly, he has flown over 700 parabolas in NASA’s 0g aircraft without getting sick and has managed to involve all of his children in his research.