

WOW! CCSM's Summer Speaker Series

9:30-10:15am starting July 9

- JULY 9 Bill Dunbar, *Lifting 100 Million Pounds*
- JULY 16 Brian Mathews, *The Future of Making Things and Preserving our Past*
- JULY 23 Bob Bolles, *Exciting Times in Robotics and Artificial Intelligence*
- JULY 30 Eric Hanson, *3-D Printing*
- AUG. 8 Caleb Gatlin, *Working and Learning at Google*
- AUG. 13 Kristin Byrd, *Adapting California's Ecosystems to Climate Change*
- AUG. 20 Peter Bayley, PhD, *Meditation as Therapy*

Join us for a summer featuring “ordinary” CCSMers who do extra-ordinary things. Have you ever wondered how a 3-D printer is possible? Why a minister is running a huge shipyard? What life is really like at Google? Join us for a summer of “WOW!” —an adventure for the curious. Before church (9:30-10:15am), fascinating members of our congregation will share about their lives of exploration and creativity.

JULY 9 • Bill Dunbar, *Lifting 100 Million Pounds*

Marine Engineer, minister, manager, and a really good cook – Bill does it all! He is currently Vice President of Mare Island Dry

Dock in Vallejo and was General Manager of San Francisco Ship Repair at Pier 70, where he has worked on projects from tugboats to cruise ships. The Bay Area was once ringed with shipyards, yet only a few remain. Bill will talk about projects and challenges working in the shipyard, one of the few industries where a high school diploma and a good work ethic can provide a solid family income.

JULY 16 • Brian Mathews, *The Future of Making Things and Preserving our Past*

If God didn't create it, a designer, engineer, or artist did. We'll explore the future of making things and how new design and manufacturing technologies could enable everyone to create a better world. At 3D design software company Autodesk, Brian serves customers in industries that make our future world: architecture, construc-



Summer Series speaker, Caleb Gatlin, will tell us how Googlers really flex their muscles.

tion, infrastructure, manufacturing, and media/entertainment industries. After an overview of new technologies, the talk will focus on pro-bono cultural heritage preservation and education projects including work with the Smithsonian, the National Park Service, the White House, Syrian museums, and others. Time permitting you'll experience off-limits artifacts in Virtual Reality.

JULY 23 • Bob Bolles, *Exciting Times in Robotics and Artificial Intelligence*

Bob is the Director of the Perception Program in the Artificial Intelligence Center at SRI International. He has 45 years of experience in robotics and artificial intelligence, having earned a PhD in Computer Science at Stanford in 1977. His initial research focused on computer-based perception techniques for industrial robots and driverless vehicles. More recently he has been developing techniques that combine deep learning with symbolic methods to recognize people and their activities. Once at CCSM, Bob is now an active United Methodist, former scoutmaster, father of three sons, and an ardent birder and photographer.

JULY 30 • Eric Hanson, PhD, *3-D Printing*

Until retiring last year, Eric led the research organization in Hewlett Packard which explores and invents new techniques in 3D printing. That specialized printing requires a multidisciplinary mix of technologies, including physical processes, materials and imaging algorithms. Earlier in his HP career, he focused on digital commercial printing press technology, as well as office and home printing, so we may have owned a product he helped develop. He holds a Ph.D. in experimental physics from U.C. Berkeley, and has been awarded 21 US patents.

AUGUST 6 • Caleb Gatlin, *Working and Learning at Google*

Caleb is an Instructional Designer at Google. This means people give him something they want employees of Google to learn, and he works to make it more "learnable." It could take the form of a class, a video, a website, or a handout, depending on which format would be best for the learner. After more than 5 years at Google he's seen a lot, and looks forward to sharing about his work and some of what it's like working at Google.

AUGUST 13 • Kristin Byrd, PhD, *Adapting California's Ecosystems to Climate Change*

Kristin is a Research Physical Scientist with the USGS in Menlo Park, CA. Her research focuses on landscape scale patterns of the biophysical and biochemical properties of wetland vegetation to assess carbon stocks and forecast wetland resilience to climate change. In addition, she studies integrated scenarios of land use, climate and hydrological change to assess potential impacts to ecosystem services in California, though she has worked as far away as Ethiopia.

AUGUST 20 • Peter Bayley, PhD, *Meditation as Therapy*

Peter is a scientist whose research focuses on mind-body techniques including meditation, and yoga. He conducts research at the Veterans Affairs Medical Center, Palo Alto and is an Assistant Professor (Affiliated) in the Department of Psychiatry and Behavioral Sciences, Stanford University. He will describe how meditation is being used in his ongoing studies to treat posttraumatic stress disorder, and will provide examples of some simple meditation techniques for the group to try. He will also discuss how these ancient techniques may relate to new ideas coming from the neuroscience of memory, sleep, and emotional regulation.