

Actuarial Science

Speaker: Irene He

Actuary has been rated as one of the best jobs for quite some years
<http://www.businessinsider.com/actuary-is-the-best-job-in-america-2013-4>

So it's fun to talk about it, especially given the rather eclectic career path our speaker took - an undergraduate physics education, a Ph.D. in physics and neurobiology from Caltech and a housewife of 9 years before embarking on a 7-year journey of taking exams to become FSA (the top designation for actuary), while along the way she always manages to keep her favorite subject in school close to her heart - guess what it is?

Astrophysics

Speaker: Cristina dalle Ore

Curious about astronomy, science, and astrophysics? Cristina will talk about her career path (PhD in Astronomy and Astrophysics from UC Santa Cruz) as well as her work as a Senior Research Scientist at the Carl Sagan Center, SETI Institute.

Biomedical Research

Speaker: Yvonne Strom

A PhD in Genetics from UC Berkeley, Yvonne is experienced in advanced techniques for high-complexity genetic testing and molecular diagnostics. Her specialties include: Gene Expression Analysis, Genome sequencing and mutation detection and more.

Biotechnology

Speaker: Eric Sharps

Eric has over 30 years of experience in the biotechnology and pharmaceutical industries. He was an analytical protein biochemist for 12 years at Monsanto, Hoffmann-La Roche and Scios (formerly California Biotechnology). He currently advises investors in the biotech industry.

Chip (IC) Design

Speaker: Avner Schwartz

Avner returns as a popular speaker sharing his experience in the semiconductor industry. He has 19 years of experience at Intel Corporation, starting off as a chip designer and moving on to a management role.

Disruptive Technologies

Speaker: Syrous Parsay

Disruptive Technologies – hear about technology solutions that change the way we live and do things, many times while disrupting entire industries (think smartphones, tablets, Facebook, Twitter, Cloud Computing, self-driving cars, Google Glass, Netflix, etc.). What do these technologies have in common? How are they funded? Who influences them? What career path leads to them? How much money can

be made? Come talk to Syrous Parsay -- a lecturer at Stanford University, retired inventor, entrepreneur, investor, and corporate executive, who is experienced in high tech, medical science, retail, academia, and venture capitalism, as well as in running companies from start-up scale to large multi-national.

Engineering - Chemical

Speaker: Ganesh Balgi

After completing a PhD in chemical engineering from SUNY Buffalo Dr. Balgi did a post-doc at Purdue and then started working in the industry as a biosystems engineer at Entelos who are leaders in predictive biosimulation for pharmaceutical and consumer product R&D. They partner with R&D organizations to reduce cost and improve success by quantitatively modeling the systems biology of virtual humans and animals.

Engineering - Material Science

Speaker: Janice Lin

Janice is an MV grad and now works at a large medical technology company. She studied Bioengineering at UC Berkeley and then earned a doctorate in Materials Science and Engineering at Johns Hopkins. She has industry experience at a startup medical device company producing orthopedic bone cement as well as a large, global corporation producing peripheral intravenous catheters and medical instruments used for analyzing patient blood samples for diseases. Janice will introduce the materials science engineering field as well as career opportunities for materials scientists and engineers both inside and outside the biotechnology industry.

Engineering - Mechanical

Speaker: Martin Nordby

Mr. Martin Nordby received his B.S. in Mechanical Engineering from Stanford University. He works at SLAC National Accelerator Laboratory as the Systems Integration Manager for the LSST project, a ground-based 8 meter class telescope to investigate the nature of dark energy and evolution of the universe. While at SLAC, Mr. Nordby has served as mechanical design engineer, mechanical installation manager, and systems integration lead for a number of physics research instruments, and worked with engineers and scientists from many fields.

Engineering - Networks

Speaker: Bruce Hahne

Bruce Hahne is an engineering manager at Google, serving as part of the Corporate Network Engineering team, which designs and operates the internal global network for Google employees. Prior to Google, he's held positions as a senior network engineer with the IT (information technology) team at Palo Alto Research Center / PARC, and with San Francisco-based internet service provider Digital Island, which provided some of the early connectivity for ETrade. He's also the co-founder of one of the first internet service providers in Japan. Bruce received his Bachelor's from Swarthmore College in Pennsylvania, followed by an M.S. degree from Cornell University, and an MBA from U.C. Berkeley.

Engineering – Career Options

Some of the most exciting opportunities in STEM are for those that can work across traditional discipline boundaries, whether between different STEM categories (for example, biocomputation) or between STEM and other areas like business. The growth of STEM can make it harder to see all the options that exist and can make selecting a major seem daunting, but keys to anything are getting good fundamentals and staying flexible.

Speaker: Preethi Narayanan

I am Preethi Narayanan, currently working at Amazon. I manage a team of engineers who are building a device to enable some cool technologies for consumers. It is an amazing time in engineering and technology in general and I have been part of these technological breakthroughs for about 20 years now. I have a Bachelors degree in Electronics and communications and a masters degree in software engineering. Before joining Amazon, I worked for 15 years at Motorola, at different locations, and in different teams. I have been fortunate to be part of developing bleeding edge technologies and to work with extremely talented engineers from around the world. I would like to see more women engineers making bigger impacts in technology and would like to share some of my experiences and some amazing opportunities available in this field.

Engineering - Options

Speaker: Guha Jayachandran

Guha was co-founder of Cruxlux, a search-technology startup which was acquired by Kosmix (and has since been acquired by Walmart). He completed his Ph.D. at Stanford University in 2007. His work was primarily on the Folding@Home worldwide distributed computing project, which conducts molecular simulations. He has published several papers and given invited talks on grid computing, computational drug discovery, and on crowd-sourcing. Guha is currently at Walmart Labs, where he recently launched <https://getontheshelf.walmart.com/>

For those who aren't sure whether a STEM major is for them, this session will introduce the range of career options that exist with interdisciplinary knowledge. For those already know they want to go into a STEM field, this session will include ideas on what to do in college, regardless of specific major, to maximize career options. The speaker's background is in biocomputation, the Internet, and retail; and he has experience in academia, startups, and big companies.

Engineering - Product Strategy

Speaker: Greg McNeil

What are the career options when it comes to developing and manufacturing the world's technology products: mobile phones we all use, servers that deliver the internet and everything from game consoles to next generation devices we have yet to envision.

Engineering - Software

Speaker: Akash Gupta

What's it like interviewing for a job, and finally working at Facebook? Akash is a Software Engineer at Facebook. He works on the Photos team, most recently working on the Facebook for Android app. Akash will also talk about various careers in Computer Science.

Information Technology

Speaker: Mike Kail

As VP of I.T. Operations at Netflix, Mike is responsible for an organization of 100+ employees that includes the Corporate Help Desk team, Enterprise Services, HR/IS, Financial Applications, and Admin teams for the various technical groups.

Marine Biology

Speaker: Hayley Usedom Huffman

With a bachelor's degree in Earth Systems Science and Policy (Marine and Coastal Ecology), Hayley will share what it's like working in environmental and educational fields of Marine Ecology, Marine Conservation, and Environmental Education.

Medicine - Neurology

Speaker: Brian Lee Dr

Dr. Lee graduated Phi Beta Kappa in biological sciences from Stanford University. He received his medical degree in 1998 from UC San Diego School of Medicine. He completed his internship at Kaiser Permanente in San Francisco and residency at Harbor-UCLA Medical Center. He is certified in Neurology with the American Board of Psychiatry and Neurology. He joined Kaiser Permanent in 2006. His medical interests include stroke, multiple sclerosis and headache.

Physics

Speaker: Philip Gleckman

Dr. Gleckman is a physicist with varied interests and a wide range of experience in the field. Of late, he has been interested in harnessing solar energy as a clean, renewable source. In this quest he has worked in start-ups and larger companies (such as Google) on R&D as well as strategic projects involving both photovoltaic (converting the Sun's radiation directly into electricity) and thermal (heat generation using energy from the Sun) methods. Before that Dr. Gleckman worked in optics and lasers on a number of projects that have since become highly successful consumer names (such as the LCD technology). In addition to all this, he maintains his interest in physics education and has presented a paper exploring ways to enhance the effectiveness of physics instruction. Dr. Gleckman received his bachelors from MIT and his doctorate from the University of Chicago - both in physics.

Researcher - Chemistry

Speaker: Sung Lim

Dr. Lim is the co-inventor of the nanoporous colorimetric array technology on which the Specific Tech. sensors are based. He has over 10 years of both academic and industry experience. Dr. Lim received his B.A. from Northwestern University and his Ph.D. from the University of Illinois at Urbana-Champaign. He then spent four years as a senior scientist at LG Chem developing functional coating materials. More recently, he has been working on the development of the new nanoporous pigment sensor array technology. He has authored over 40 peer-reviewed journal articles, book chapter, and patent/patent applications.

Video Game Development

Speaker: Tim Perry

Tim is Co-Founder and CTO at Mtuity. He has extensive experience in all aspects of digital product development, people and project management, game design and content creation.