

**Caltech/MIT Enterprise Forum
April 22, 2006**

**The Business of Making
Semi-Autonomous Systems and the
Increasing Entrepreneurial Opportunities**

KEYNOTE SPEAKER

Dr. Paul MacCready
*Chairman & Founder
AeroVironment, Inc.*

Dr. Paul MacCready, (Ph.D. Aeronautics, California Institute of Technology, 1952), Chairman/Founder of AeroVironment Inc., is world famous for pioneering developments. He has been considered “the father of human-powered flight” since 1977-79 when his human-powered Gossamer Condor and Gossamer Albatross captured the first two Kremer Prizes, then the largest cash prizes in aviation history. His continued pioneering developments with the teams at AeroVironment fit the themes of efficiency, conservation, and “doing more with less”. The Solar Challenger carried its pilot 163 miles from Paris to England solely on the power of sunbeams. With GM support, the teams created the GM Sunraycer that handily won the first solar car race across Australia, and two years later conceived of and built the GM Impact battery-powered demonstrator car, predecessor to GM’s production EV-1. In 2001, the giant AV solar-powered Helios climbed to 96,863 feet, while a tiny, 2.5 ounce, video camera-equipped surveillance plane was demonstrated indoors and outdoors.

In addition to his technical and corporate roles at AeroVironment, Dr. MacCready lectures widely. His keynote talks for education groups and presentations for industry typically cover creativity, the unleashing of thinking skills, and the challenge of finding a balance between nature and future technology. He participates on advisory committees for educational institutions, authors articles, and is regularly interviewed for print and video media. His professional and personal interests fit the theme of causing rapid change in institutions, technologies, and public understanding in order to improve the likelihood of a desirable, sustainable future world.

RESEARCH PRESENTER

Richard M. Satava, MD
*Professor of Surgery, Department of Surgery
University of Washington Medical Center*

Richard M. Satava, MD FACS, is Professor of Surgery at the University of Washington Medical Center, Program Manager of Advanced Biomedical Technology at the Defense Advanced Research Projects Agency (DARPA), and Special Assistant in Advanced Surgical Technologies at the US Army Medical Research and Materiel Command in Ft. Detrick, MD.

Prior positions include Professor of Surgery at Yale University and a military appointment as Professor of Surgery (USUHS) in the Army Medical Corps assigned to General Surgery at Walter Reed Army Medical Center.

His undergraduate training was at Johns Hopkins University, medical school at Hahnemann University of Philadelphia, internship at the Cleveland Clinic, surgical residency at the Mayo Clinic, and a fellowship with a Master of Surgical Research at Mayo Clinic.

RESEARCH PRESENTER (cont.)

He has served on the White House Office of Science and Technology Policy (OSTP) Committee on Health, Food and Safety. He is currently a member of the Emerging Technologies and Resident Education, and Informatics committees of the American College of Surgeons (ACS), is past president of the Society of American Gastrointestinal Endoscopic Surgeons (SAGES), past president of the Society of Laparoendoscopic Surgeons (SLS), and is on the Board of Governors of the National Board of Medical Examiners (NBME) as well as on a number of surgical societies. He is on the editorial board of numerous surgical and scientific journals, and active in numerous surgical and engineering societies.

He has been continuously active in surgical education and surgical research, with more than 200 publications and book chapters in diverse areas of advanced surgical technology, including *Surgery in the Space Environment*, *Video and 3-D imaging*, *Telepresence Surgery*, *Virtual Reality Surgical Simulation*, and *Objective Assessment of Surgical Competence and Training*.

During his 23 years of military surgery he has been an active flight surgeon, an Army astronaut candidate, MASH surgeon for the Grenada Invasion, and a hospital commander during Desert Storm, all the while continuing clinical surgical practice. While striving to practice the complete discipline of surgery, he is aggressively pursuing the leading edge of advanced technologies to formulate the architecture for the next generation of Medicine.

CASE PRESENTER

Alec Hudnut

Chief Executive Officer

Evolution Robotics Retail (an Idealab! company)

2004 Entretec PricewaterhouseCoopers Entrepreneurship Award Winner

Mr. Hudnut is Chief Executive Officer of Evolution Robotics Retail. For the past two years, Alec was CEO of Evolution Robotics, Inc., the parent company of Evolution Robotics Retail. Before joining Evolution Robotics, Alec was a Managing Director at Idealab!, where he launched and supported a number of the organization's operating companies. Alec brings business, consulting and corporate finance experience from previous roles as CEO and co-founder of the educational software company Quisic, as a consultant at McKinsey & Co., and as an investment banker at Goldman Sachs & Co. Alec holds an MBA from Harvard Business School and a BA from the University of North Carolina at Chapel Hill, where he was a Morehead Scholar.

PANELISTS

John Garcia

*Co-Founder and Managing Partner
Angel Strategies, LLC*

Mr. Garcia is the Co-Founder and Managing Partner of Angel Strategies, LLC, an international angel capital firm. As a serial entrepreneur and private and institutional investor of over 18 years, Mr. Garcia leads a team of experienced executives and investors in the funding of pre-IPO companies in all sectors of industry. Mr. Garcia has held senior executive positions with Alcon Labs, Nestle, S.A., and Hitachi, and has been the senior managing partner to several venture capital funds both domestically and internationally. He holds a Masters of Science in Psychology from University of California, Santa Barbara. He currently serves as the Chairman of The Venture Alliance, a national network of funding sources aligned to create standards in the private equity markets.

Mr. Garcia is also Co-Founder of OC Innovation, a non-profit organization aimed at bringing worldwide attention to the quiet innovation uniquely found in Orange County, CA.

Mitchell London

*Chairman
Trustworthy Communication*

Mr. London has a long-time, abiding interest in robotic systems and a 20-year history of technology entrepreneurship. As an undergraduate engineering student at Carnegie Mellon University (CMU) in the early 1980s, Mitchell founded the CMU Robotics Club. Mitchell began work at Microsoft around the time of its IPO, playing a key role in the very early development of Windows. Mr. London later launched a software company (sold in 1995 to a NASDAQ firm) and ran a venture incubator. He was interim president of RedZone Robotics helping to effect its successful restructuring. During the past 2 1/2 years Mr. London actively advised CMU's "Red Team", assisting it to raise the corporate sponsorship which enabled the team to successfully field two fully autonomous robotic vehicles in the DARPA Grand Challenge. Mr. London earned a BS degree in Electrical Engineering and Computer Engineering from Carnegie Mellon University.

MODERATOR

Rogelio F. Nochebuena

*President
Nochebuena R&D*

Nochebuena R&D is a consulting organization based in Pasadena that focus on assisting small companies as well as large enterprises to solve problems in a cost-effective way in the fields of lasers and nanotechnology.

Mr. Nochebuena has more than 20 years of experience in high technology. He has worked in Fortune 100 companies, as well as start-ups. Some of the companies that he has worked for include Agilent Technologies, Xerox Corp, and Carl Zeiss where he served in senior technical and marketing positions. His consulting practice includes clients such as Lawrence-Livermore National Labs, Intelligent Optical Systems as well as tier one universities.

MODERATOR (cont.)

He has developed an ability to spot technologies in the embryonic stages and advise entrepreneurs and venture capital clients on how best to harvest such developments. Recently he was appointed as Executive-in-Residence at Angel Strategies, where he reviews investments in the medical device and biotechnology industries.

Mr. Nochebuena combines knowledge in the physical and biological sciences and has been involved in a variety of projects with strong emphasis on lasers and opto-electronic materials and devices. While working at world famous Xerox PARC, he was tutored in nanotechnology by Professor Cal Quate, the co-inventor of the Atomic Force Microscope. Since then he has been involved in a variety of projects that include nanolaminates, organic nanotubes, OLED's (Organic Light Emitting Diodes), and avant- garde photovoltaics.

He brings expertise in the areas of technology transfer, commercialization and licensing IP, managing innovation and business strategy.

He has participated in a number of panels and local seminars and conferences, and held the position of Chapter Vice-Chair for the IEEE Laser and Opto-Electronics Society.

His education includes graduate work in Electrical Engineering and Material Science from Brigham Young University and Rice University, and holds an MBA from Pepperdine University.

PROGRAM PRODUCERS

Rogelio F. Nochebuena

President

Nochebuena R&D

Ira Moskatel

Attorney

Arnold & Porter LLP



Squire Sanders has been providing quality legal services since the firm's founding in 1890.

In particular the company helps their clients protect and make productive use of intellectual property as a critical element of long-term business growth and success. Companies know that patents, trademarks, copyrights and trade secrets are among their most valuable assets. In light of the substantial investment that businesses make in research and development, brand management and product awareness, programs for the protection, exploitation and enforcement of intellectual property rights should be key elements of a company's business plan.

Squire Sanders represents companies of all sizes, both in the United States and throughout the world, in the design and implementation of these programs. Experience in intellectual property law, combined with the company's ability to handle the largest of litigated cases and all forms of dispute resolution, provides top quality assistance to its clients.

The company also provides patent, trademark and copyright counseling to a large client base, including many in high technology. These companies span many diverse fields, including the Internet, semiconductors, computer hardware and software, life sciences, medical devices, pharmaceuticals, aerospace and avionics, computer imaging systems, process control systems, and electronic games and publishing.