

Nanotechnology Business Panel

An inside look at what Fortune 500 companies are doing in
Nanotechnology

PANELISTS

Dr. Stan Williams (HP)
Dr. Hans Coufal (IBM)
Dr. Waqar Qureshi (ChevronTexaco)

MODERATOR

Steve Jurvetson (DFJ)

VENUE

TCSEQ auditorium, Stanford University
Jun 26, 2003
6:00-9:00 pm

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AGENDA

6:00 – 6:50 pm	Registration, Refreshments and Networking
7:00 – 7:10 pm	Introduction Wasiq Bokhari , Chair, MIT Stanford UC Berkeley Nanotechnology Forum
7:10 – 7:50 pm	Presentations by the moderator and panelists
7:50 – 8:30 pm	Panel discussion
8:30 – 9:00 pm	Q&A session
9:00 pm	Session close

SPEAKER BIOS

Steve Jurvetson is a Managing Director of Draper Fisher Jurvetson. He was the founding VC investor in [Hotmail](#) (MSFT), [Interwoven](#) (IWOV), and [Kana](#) (KANA). He also led the firm's investments in [Tradex](#) (acquired by Ariba for \$6B) and [Cyras](#) (acquired by [Ciena](#) for \$2B), and most recently, in pioneering companies in nanotechnology and molecular electronics. Previously, Mr. Jurvetson was an R&D Engineer at [Hewlett-Packard](#), where seven of his communications chip designs were fabricated. His prior technical experience also includes programming, materials science research (TEM atomic imaging of GaAs), and computer design at HP's PC Division, the Center for Materials Research, and Mostek. He has also worked in product marketing at [Apple](#) and [NeXT Software](#). As a Consultant with [Bain & Company](#), Mr. Jurvetson developed executive marketing, sales, engineering and business strategies for a wide range of companies in the software, networking and semiconductor industries. At [Stanford University](#), he finished his BSEE in 2.5 years and graduated #1 in his class, as the Henry Ford Scholar. Mr. Jurvetson also holds an MS in Electrical Engineering from Stanford. He received his MBA from the Stanford Business School, where he was an Arjay Miller Scholar. Mr. Jurvetson also serves on the Merrill Lynch Technical Advisory Board and is Co-Chair of the NanoBusiness Alliance. He was recently honored as "The Valley's Sharpest VC" on the cover of Business 2.0 and chosen by the SF Chronicle and SF Examiner as one of "the ten people expected to have the greatest impact on the Bay Area in the early part of the 21st Century." He was

profiled in the [New York Times Magazine](#) and featured on the cover of [Worth](#) and Fortune Magazines. Steve was chosen by Forbes as one of "Tech's Best Venture Investors", by the VC Journal as one of the "Ten Most Influential VCs", and by [Fortune](#) as part of their "Brain Trust of Top Ten Minds." Steve has written several [columns](#) on nanotech and other developing technologies.

R. Stanley Williams is an HP Senior Fellow at Hewlett-Packard Laboratories and founding Director (since 1995) of the HP Quantum Science Research (QSR) group. The QSR was established to prepare HP for the major challenges and opportunities ahead in electronic device technology as features continue to shrink to the nanometer size scale, where quantum mechanics becomes important. He received a B.A. degree in Chemical Physics in 1974 from Rice University and his Ph.D. in Physical Chemistry from U. C. Berkeley in 1978. He was a Member of Technical Staff at AT&T Bell Labs from 1978-80 and a faculty member (Assistant, Associate and Full Professor) of the Chemistry Department at UCLA from 1980 – 1995. He is currently Adjunct Professor of Chemistry at UCLA and of Computer Science at the University of North Carolina at Chapel Hill. His primary scientific research during the past twenty-five years has been in the areas of solid-state chemistry and physics, and their applications to technology. This has evolved into the areas of nanostructures and chemically-assembled materials, with an emphasis on the thermodynamics of size and shape. Most recently, he has examined the fundamental limits of information and computing, which has led to his current research in molecular electronics. He has received awards for scientific and academic achievement, including the 2000 Julius Springer Award for Applied Physics, the 2000 Feynman Prize in Nanotechnology, the Dreyfus Teacher-Scholar Award and the Sloan Foundation Fellowship. He was named to the inaugural Scientific American 50 Top Technology leaders in 2002, and the molecular electronics program he leads was named the Technology of the Year for 2002 by Industry Week magazine. He was a co-organizer and co-editor of the workshop and book "Vision for Nanotechnology in the 21st Century", respectively, that led to the establishment of the U. S. National Nanotechnology Initiative. He has been awarded twelve US patents with twenty-five more pending, has published 212 papers in reviewed scientific journals, and has written general articles for technical and business publications. One of his patents was named as one of five that will "transform business and technology" by MIT's Technology Review in 2000.

Hans J. Coufal is manager of the "Science and Technology" research function at IBM's Almaden Research Center in San Jose, California. He manages a group of departments focusing on some of the most exciting realms of research today, including quantum information, nanotechnology, biotechnology, supercomputer simulations and holographic data storage.

After receiving his Ph.D. degree in applied physics from the Technical University of Munich, Germany, Dr. Coufal spent several years on the faculty there and at the Free University in Berlin. He then spent a sabbatical at IBM's San Jose Research Laboratory, the precursor to the Almaden lab, and joined IBM's research staff there in 1981. Dr. Coufal's personal research specialized in studies of radiation-induced chemical, physical, thermal and acoustic transients, and he developed and applied many novel detection schemes and applications for them.

Dr. Coufal has managed IBM's holographic data storage research effort since 1991. In 1996, he was named one of the two principal investigators of the two government-industry-academia consortia cosponsored by the Defense Advanced Research Projects Agency (DARPA) -- HDSS (Holographic Data Storage Systems) and PRISM (Photorefractive Information Storage Materials) -- which were active from 1993-2002. He was named Manager of New Directions within the Science and Technology function in 1996 and Manager of Science and Technology in 2000.

Dr. Coufal is a Fellow of the Optical Society of America and of the International Union of Pure and Applied Chemistry and received the 2000 Leadership Award from the National Storage Industry Consortium for his role in managing the HDSS and PRISM programs. He is a member of the editorial board of the technical journal, Applied Physics, where he is responsible for articles on holographic data storage materials and systems. Dr. Coufal is author or co-author of more than 140 technical publications, editor of six books and holds 13 patents.

Waqar Qureshi is responsible for managing MolecularDiamond Technologies (MDT), an internal technology startup in ChevronTexaco. He was part of the team at ChevronTexaco that created the company's venturing arm, where MDT is now located. He also participated in the corporate venture capital group, helping manage an energy technology fund and its portfolio companies. His previous experiences include zeolite catalyst research and development, capital project analysis, technology marketing and licensing, business planning, and business development. He received his bachelors degree from the University of Sydney and his doctoral degree from M.I.T., both in chemical engineering.

MIT • Stanford • UC Berkeley Nanotechnology Forum

Introduction and Mission Statement

The Nanotechnology Forum is dedicated to promoting the burgeoning field of nanotechnology by connecting ideas, technology and people.

We hold monthly events that focus on topics of broad interest. Each event features invited speakers who are world-renowned researchers, business leaders, investors or policy makers.

The Nanotechnology Forum primarily serves the alumni communities of MIT, Stanford and the University of California, Berkeley, but events are open to anyone interested or active in the field of nanotechnology. We provide opportunities for industry experts, researchers, entrepreneurs, venture capitalists, private investors, technologists and the interested public to discuss, understand and evaluate the state-of-the art in nanotechnology.

Our previous event "Nanotechnology beyond the hype" featured Nobel laureate Steven Chu (Stanford), Paul Alivisatos (Berkeley) and Meyya Meyyappan (NASA). The event was attended by more than 500 people, including prominent presence from Fortune 500 companies, investment and academic communities.

Future event topics

- Nanotech and Energy
- Nano-medicine
- Nanotech in Memory and Data Storage
- Nanotech and Materials
- Ethical, Social and Environment panel
- Nanotech and semi-conductors
- Emerging tools and instrumentation

Steering Committee

Anuranjita Tewary, Arun Mehta, Anthony Waitz, Bert Bruggeman, Ed Korczynski, Fred Lam, Jonathan Goldman, Kitu Bindra, Klaudyne Hong, Qian Wu, Victor Boksha, Vivek Nadkarni, Wasim Bokhari (Chair).

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Girvan Institute of Technology, NASA

The Girvan Institute of Technology is a non-profit corporation focused on research, technology development, technology transfer, and technology commercialization at the NASA Research Park, Moffett Field, California. Girvan's primary mission is to accelerate the convergence of commercial markets and government-developed technologies, and to spur the use of innovative commercial technology for NASA missions. Girvan identifies commercially developed technologies of interest to NASA, and assists small companies in accessing technology developed by US government agencies for eventual application in commercial markets.



Quantum Insight

Quantum Insight is a pioneering business strategy services firm in the field of emerging new materials and nanotechnology. Its customers include Fortune 500 companies as well as venture and corporate funds.

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NEXT EVENT

Nanotech investment panel

A conversation with the most prominent investors in nanotechnology

LOCATION

TCSEQ auditorium, Stanford University

Jul 24, 2003

6:00-9:00 pm

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