University of Virginia Thought-Leaders & Venture Panel Discussion

THURSDAY, MARCH 25, 2010
1 P.M. TO 5 P.M.
OLD CABELL HALL
Welcome
1 p.m. – 1:15 p.m.

Thomas C. Skalak, Vice President for Research, University of Virginia

U.Va. Thought-Leader Presentations
VISIONS OF A GLOBAL FUTURE FROM PROMINENT UNIVERSITY RESEARCHERS
1:15 p.m. – 3 p.m

Biotech: The Systems Approach
Jason A. Papin, Biomedical Engineering

Computer Science Foundations of Future Software Advances
Kim Hazelwood, Computer Science

Design Thinking for a Clean Tech Future
Kim M. Tanzer, Architecture

“Windows on the Future” Venture Panel Discussion
A DISCUSSION OF OPPORTUNITIES IN EMERGING TECHNOLOGY AREAS FROM ELITE VENTURE CAPITALISTS
3:30 p.m. – 4:45 p.m

PANEL LEADER: J. Stephan Dolezalek, Managing Director and Group Leader, VantagePoint Venture Partners
A.G.W. “Jack” Biddle III, General Partner, Novak Biddle Venture Partners
Frank Levinson, Founder and Managing Director, Small World Group
J. Sanford “Sandy” Miller, General Partner, Institutional Venture Partners
Robert Paull, Co-founder and Managing Partner, Lux Capital

Closing Remarks
4:45 p.m. – 5 p.m

Thomas C. Skalak, Vice President for Research, University of Virginia
Jason A. Papin
ASSISTANT PROFESSOR OF BIOMEDICAL ENGINEERING, UNIVERSITY OF VIRGINIA

Papin received his Ph.D. in bioengineering from the University of California, San Diego in 2004. His current research focuses on polymicrobial interactions in human disease; signaling networks in cancer; and the integration of signaling, regulatory and metabolic networks in embryogenesis.

The completed sequences of multiple genomes have catalyzed a phase transition in bioengineering research. Systems analysis has become a requirement for making sense of high-throughput data and for characterizing properties of biological networks. In order to extend these recent developments to medical applications, there is a pressing need for reconstructing and analyzing the biochemical networks that direct cellular processes. The subsequent analysis of these networks requires high-performance computing and sophisticated mathematical techniques.

Papin's research includes the construction and analysis of large-scale biochemical networks and their application to human disease. He is working to develop methods for incorporating high-throughput data with integrated signaling, metabolic and regulatory network reconstructions and using these tools to study fundamental problems in infectious disease, cancer and bioenergy.

The development and application of computational methods to analyze large biological networks will revolutionize medical research and lead to the characterization of novel therapeutic targets that would otherwise prove impossible.

Kim Hazelwood
ASSISTANT PROFESSOR OF COMPUTER SCIENCE, UNIVERSITY OF VIRGINIA

Hazelwood works at the boundary between hardware and software, with research efforts focusing on computer architecture, run-time optimizations, and the implementation and applications of virtual execution environments. Since receiving her Ph.D. from Harvard University in 2004, she has become widely known for her active contributions to the Pin dynamic instrumentation system (www.pintool.org), which allows users to easily inject arbitrary code into existing program binaries at run time. Pin is widely used throughout industry and academia to investigate new approaches to program introspection, optimization, security and architectural design. It has been downloaded more than 35,000 times and cited in more than 500 publications since its release in July 2004.

Hazelwood has published more than 35 peer-reviewed articles related to computer architecture and virtualization. She has served on more than a dozen program committees — including ISCA, PLDI, MICRO and PACT — and is the program chair of CGO 2010. She is the recipient of numerous awards, including the FEST Distinguished Young Investigator Award for Excellence in Science and Technology, the NSF CAREER Award, the Woodrow Wilson Career Enhancement Fellowship and the Anita Borg Early Career Award as well as research awards from Microsoft, Google, NSF and the SRC. Her research has been featured in Computer World, ZDNet, EE Times and Slashdot. She is a faculty consultant for Intel.
Kim M. Tanzer  
DEAN AND EDWARD E. ELSON PROFESSOR OF ARCHITECTURE, UNIVERSITY OF VIRGINIA

Prior to beginning her tenure at U.Va. in July 2009, Tanzer served as a professor of architecture at the University of Florida for more than two decades. She received her Bachelor of Arts from Duke University and her Master of Architecture from North Carolina State University.

Much of her teaching and research focuses on the relationship between the human body and large shared spaces such as the city and the landscape, with an emphasis on creating sustainable environments. In her writing, teaching, and architectural and urban design, she forges connections between the phenomenal experience of space and more abstract understandings of the environment developed by architectural professionals.

For her community-based teaching, practice and service she has received several local and national awards, including the Association of Collegiate Schools of Architecture’s (ACSA) Collaborative Practice Award and Robert R. Taylor Award as well as the North Florida American Institute of Architects Community Service Award. She is a recipient of the University of Florida’s Service Learning Award; the Morton Wolfson Faculty Award for service to the student body; the University of Florida Association for Academic Women’s Woman of Distinction Award; and the College of Design, Construction and Planning’s Teacher of the Year Award.

J. Stephan Dolezalek
MANAGING DIRECTOR AND GROUP LEADER, VANTAGEPOINT VENTURE PARTNERS

Dolezalek has spent 23 years in Silicon Valley working exclusively with technology-driven companies. He joined VantagePoint in 1999. He served as head or co-head of the firm’s Software and Life Sciences groups prior to crafting the firm’s CleanTech platform in 2002, actively heading the CleanTech Group since its inception.

Prior to joining VantagePoint, Dolezalek was a senior partner with Brobeck, Phleger & Harrison, acting as managing partner of that firm’s Palo Alto office, head of the Business and Technology Group and chairman of the Life Sciences Group. He is a graduate of the University of Virginia School of Architecture, where he earned a Bachelor of City Planning, and the University of Virginia School of Law, where he earned a J.D.

A.G.W. “Jack” Biddle III
GENERAL PARTNER, NOVAK BIDDLE VENTURE PARTNERS

Prior to co-founding Novak Biddle Venture Partners (NBVP), Biddle was president and CEO of InterCap, a venture-backed computer software company. InterCap was number 18 on the “Fast 50” list of the mid-Atlantic’s fastest-growing companies and was acquired by Intergraph in 1995. From 1987 to 1990, Biddle rose from senior associate to partner at Vanguard Atlantic Ltd., a merchant banking group focused on M&A advisory work and control investments in software companies. At VAL, he served as turnaround CEO of a system software company and then as COO of an application software company.

Earlier in his career, Biddle was an IT industry generalist focused on telecommunications technology at the Gartner Group, where he was also executive assistant to the CEO, Gideon Gartner. He began his career in 1983 in Austin, Texas, at Business Development Partners, an early-stage venture capital partnership. Biddle holds a B.A. in economics from the University of Virginia.

Frank Levinson
FOUNDER AND MANAGING DIRECTOR, SMALL WORLD GROUP

Levinson is the founder and managing director of Small World Group, an early-stage venture capital firm and incubator that operates out of Singapore. From 1988 through 2008, he served as chief technology officer and chairman of Finisar Corporation, which he founded and which is today the world’s largest optical communications subsystems company. Levinson is an active venture investor and serves on multiple private small company boards with a focus on clean tech and optical systems.

Levinson earned a B.S. in mathematics and physics from Butler University and both an M.S. and a Ph.D. in astronomy from the University of Virginia.
J. Sanford “Sandy” Miller  
GENERAL PARTNER, INSTITUTIONAL VENTURE PARTNERS

Miller focuses on later-stage venture and growth equity investments in technology, Internet and digital media companies. He was recognized by Forbes magazine as one of the top 100 venture capitalists in the world by his inclusion in the 2007, 2008 and 2009 Forbes Midas Lists. He was also recognized by AlwaysOn as one of the top 100 venture capitalists by his inclusion in the AlwaysOn 2009 VC 100 List.

Miller has led investments in Constant Contact (CTCT), Data Domain (DDUP), LiveOps, Merchant e-Solutions, Ngmoco, Placeware (acquired by Microsoft Corp.), SkyStream Networks (acquired by Ericsson), USInternetworking (acquired by AT&T Corp.) and Zynga. He has also been actively involved with the firm’s investments in Cortina Systems, RGB Networks and Spiceworks.

Prior to IVP, Miller was a senior partner with 3i, a leading global venture capital firm. He co-founded Thomas Weisel Partners (TWPg), where he was a member of the executive committee, chief administrative and strategic officer, and co-director of investment banking. He was also a senior partner at Montgomery Securities, where he led the technology group, and a managing director for Merrill Lynch and Donaldson, Lufkin & Jenrette.

Miller serves as a board member of the Stanford Law School and the Cantor Art Center (Stanford University Art Museum). He also serves on the executive committee of the Capital Campaign of the University of Virginia, where he previously was a College trustee. He earned a B.A. from the University of Virginia (Phi Beta Kappa) and an M.B.A. and J.D. from Stanford University.

Robert Paull  
CO-FOUNDER AND MANAGING PARTNER, LUX CAPITAL

Paull manages Lux Capital’s investment in Cerulean Pharmaceuticals (pharmaceutical nanoencapsulation), Magen Biosciences (dermatology) [acquired by PPD], Molecular Imprints (semiconductor imprint lithography), Kereos (targeted nanoparticle diagnostics) and Parasol Therapeutics (infectious diseases). He was founding CEO and is currently on the board of directors at Harvard Medical School spinout Genocea Biosciences (vaccine discovery). In 2009, Paull was nominated as Biotech CEO of the Year at the World Vaccine Congress.

Paull is a member of Motorola’s Research Visionary Board and an invited lecturer at the Memorial Sloan-Kettering Cancer Center, the National Cancer Institute, Yale University, Georgetown and the University of Virginia. He has been published in the Journal of Biomedical Materials Research (Applied Biomaterials) and Nature Biotechnology.

Paull graduated from the University of Virginia and was a member of the Regional Selection Committee for U.Va.’s Jefferson Scholars Foundation.