STAC BENCHMARK COUNCIL ™

STAC® Performance Summit

June 21, 2010, 3pm – 7:30pm

Bank of America Merrill Lynch, New York

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AGENDA

Welcome	**Peter Lankford**, Founder/Director, STAC

"The Mechanics of Mayhem: Market Microstructure and the May 6th Meltdown"
Michel will review the microstructure of today's market and how it allowed the sudden plunge of stock prices to occur on May 6th--as well as other frequent, but less celebrated events in individual stocks. He will also explore the requirements that these realities imply for trading infrastructure and market data systems that seek to be best of breed. **[slides/video]**

	Michel Debiche, CEO, Quantia Analytics. Michel earned M.S. and Ph.D. degrees in Geophysics from Stanford and Princeton Universities. He has been involved in all aspects of quantitative trading since 1991. He worked in proprietary trading groups at Credit Suisse and Daiwa Securities America before building and managing the Global Equity Statistical Arbitrage desk at CIBC World Markets in New York. In 2002, Dr. Debiche formed Quantia Capital, an investment advisor that has been involved in building several systematic trading operations. Dr. Debiche has also consulted to financial services firms in the areas of quantitative analysis, algorithmic trading, high-performance systems development and trading desk integration and enhancement.

The industry's first standard benchmarks for tick databases	**Peter Lankford**, STAC
Analyzing time series is crucial to trading. With data volumes soaring, it is important to quantify the extent to which emerging hardware and software	

innovations improve the performance of tick storage, retrieval, and analysis. With that in mind, the STAC-M3 working group has now delivered the first version of a benchmark suite to serve as a common measuring stick for tick databases. Peter will provide an overview of STAC-M3 and how it is being put to use. **[slides/video]**

Innovation Roundup – Part 1	*Each presenter has 5 minutes.*
• "Optimizing high-performance tick analytics with KX & Oracle" (Part 1) **[slides/video]**	**Simon Garland**, Chief Strategist, KX Systems
• "Optimizing high-performance tick analytics with KX & Oracle" (Part 2) **[slides/video]**	**Amir Halfon,** Senior Director of Technology, Capital Markets, Oracle
• "RAPin' with Sybase: Real-time Meets Deep History**" [slides/video]**	**Peter Thawley**, Sr Director & Architect, Sybase
• "Removing network hops from your colocation architecture" **[slides/video]**	**Nick Ciarleglio**, Senior Architect, Arista Networks
• ""Reducing Application-Level Latency in HFT Environments" **[slides/video]**	**Patrick Guay**, General Manager, EVP Sales and Support, Voltaire
• "Subsecond repricing of a 1TB order book: GemFire on HP Blades with Voltaire InfiniBand" **[slides/video]**	**Lee Fisher**, Business Development WorldWide FSI-HPC, HP
• "Performance without loss – Performance when it counts" **[slides/video]**	**Pramod Srivatsa**, Product Manager, Cisco
• "OpenOnload squashes latency spikes in bursty networks [slides/video]	**Kieran Mansley**, Software Technical Lead Engineer, Solarflare

"Exploiting the latency data opportunity"

Trading organizations are instrumenting many points in their infrastructure in order to monitor latency. The resulting information is highly valuable but challenging to exploit. Chris will explore timely issues such as:
- *How firms are organizing and analyzing this huge volume of data.*
- *What can be done to monitor latency across application boundaries--to see inside applications and correlate a given trade origination with the information that triggered it.*
- *How holistic visualization across trading venues and algo engines can reveal interesting things about infrastructure and strategy.*
- *Whether and how monitoring feedback can be incorporated into trading systems to improve trading outcomes—i.e., can we trust monitoring systems to have an automated finger on The Big Red Button?* **[slides/video]**

Chris "Skip" Mac-Stoker, Distinguished Engineer, NIKSUN. Chris is a technology expert with over ten years' experience on Wall Street, at firms such as Morgan Stanley, Deutsche Bank, and Merrill Lynch. Chris has helped these firms design and implement specialized network, market data, and HFT compute architectures. His specialty is solving complex, real-time operational problems. He is currently consulting with "NIC," the NIKSUN Innovation Center, on R&D futures and practical client problems.

Innovation Roundup – Part 2	*Each presenter has 5 minutes.*
• "Logging Offload" **[slides/video]**	**Henry Young**, Director of Product Development, TS-Associates
• "Back to the Basics" **[slides/video]**	**Jim Wang**, Sr. Product Manager, NetScout
• "Unified Latency Management" **[slides/video]**	**Raymond Russell,** CTO, Corvil
• "Capture once and reuse many times. A simple solution to a complex problem" **[slides/video]**	**Stuart Wilson**, CTO, Endace

STAC update **[slides/video]**	**Peter Lankford**, Founder/Director, STAC