GPU Technology Conference - Schedule for Monday, Sept 20

	Marriott SJ Ballroom	Room A5	Room B	Room C
13:00	**2004 - Languages, APIs and Development Tools for GPU Computing (Pre-Conference Tutorial)** Speakers(s): Will Ramey (NVIDIA)	**2157 - DirectX 11 Overview (Pre-Conference Tutorial)** Speakers(s): Cem Cebenoyan (NVIDIA)	**2024 - NVIDIA Acceleration Engines Overview (Pre-Conference Tutorial)** Speakers(s): Phillip Miller (NVIDIA), Holger Kunz (NVIDIA), Brian Harrison (NVIDIA), Thomas Ruge (NVIDIA)	**2158 - Programming the NVIDIA Digital Video Pipeline with OpenGL (Pre-Conference Tutorial)** Speakers(s): Thomas True (NVIDIA)
14:30	**2131 - Introduction to CUDA C (Pre-Conference Tutorial)** Speakers(s): Jason Sanders (NVIDIA)	**2260 - DirectCompute (Pre-Conference Tutorial)** Speakers(s): Eric Young (NVIDIA Corporation)	**2261 - Introduction to GPU Ray Tracing with NVIDIA OptiX (Pre-Conference Tutorial)** Speakers(s): Dave McAllister (NVIDIA), Phillip Miller (NVIDIA)	**2159 - Programming the NVIDIA Digital Video Pipeline with Direct3D (Pre-Conference Tutorial)** Speakers(s): Thomas True (NVIDIA)
16:00	**2018 - OpenCL on the GPU (Pre-Conference Tutorial)** Speakers(s): Cliff Woolley (NVIDIA)	**2127 - OpenGL (Pre-Conference Tutorial)** Speakers(s): Mark Kilgard (NVIDIA Corporation)	**2245 - Parallel Nsight for Microsoft Visual Studio (Pre-Conference Tutorial)** Speakers(s): Kumar Iyer (NVIDIA)	**2010 - Implementing Stereoscopic 3D in Your Applications (Pre-Conference Tutorial)** Speakers(s): Samuel Gateau (NVIDIA), Steve Nash (NVIDIA)

GPU Technology Conference - Schedule for Tuesday, Sept 21

Tues 9/21	Keynote Hall	Marriott SJ Ballroom	Room A1	Room A2	Room A3	Room A5	Room A7	Room A8	Room B	Room C	Room D	Room K	Room L	Room M	Room N
9:00	1001 - Opening Keynote with Jen-Hsun Huang, CEO & Co-Founder, NVIDIA														
11:00		2223 - Academic Welcome Social and Poster Preview	2165 - Rendering Revolution Speakers(s): Ken Pimentel (Autodesk)	2096 - High-Speed CT Reconstruction in Medical Diagnosis & Industrial NDT Applications Speakers(s): Holger Scherl (Siemens AG)	2119 - Supercomputing for the Masses: Killer-Apps, Parallel Mappings, Scalability and Application Lifespan Speakers(s): Robert Farber (PNNL)	2267 - GPU Computing with MATLAB® Speakers(s): Loren Dean (MathWorks)	2130 - GPU Computing and a Revolution in Design Engineering Speakers(s): Peter Varhol (Desktop Engineering Magazine)	2132 - Accelerating Biologically Inspired Computer Vision Models Speakers(s): Tom Dean (Google Inc.)		2079 - A Fast, Scalable High-Order Unstructured Compressible Flow Solver Speakers(s): David M. Williams (Stanford University), Patrice Castonguay (Stanford University)	2172 - Unveiling Cellular & Molecular Events of Cardiac Arrhythmias Speakers(s): Tuan Hoang-Trong (George Mason University)	2047 - Bridging Ray and Raster Processing on GPUs Speakers(s): Kenny Mitchell (Black Rock Studio)	2214 - Faster Simulations of the National Airspace System Speakers(s): Joseph Rios (NASA)		2112 - The Heisenberg Spin Glass Model on GPU: Myth versus Fact Speakers(s): Massimo Bernaschi (Istituto Applicazioni del Calcolo - C.N.R.)
11:30									2149 - Overview of Parallel Nsight for Visual Studio Speakers(s): Kumar Iyer (NVIDIA)						
12:00	1004 - Exhibits Open / Networking Lunch														
14:00		2262 - CUDA Centers of Excellence Super-Session I Speakers(s): Hanspeter Pfister (Harvard University), Jeffrey Vetter (Georgia Tech)	2152 - Using Virtual Texturing to Handle Massive Texture Data Speakers(s): Evan Hart (NVIDIA), Johannes van Waveren (id Software)	2094 - Nearly Instantaneous Reconstruction for MRIs Speakers(s): Babu Narayanan (GE Global Research)	2057 - CUDA-Accelerated LINPACK on Clusters Speakers(s): Everett Phillips (NVIDIA), Massimiliano Fatica (NVIDIA)	2019 - GPU-Accelerated Internet Technologies & Trends Speakers(s): Chris Pedersen (NVIDIA)	2015 - Efficient Tridiagonal Solvers for ADI methods and Fluid Simulation Speakers(s): Nikolai Sakharnykh (NVIDIA) *ROOM CHANGE: Session was in Room C	2013 - iray - GPUs and the Photorealistic Rendering Revolution Speakers(s): Michael Kaplan (mental images/NVIDIA)	2150 - Parallel Nsight: Debugging Massively Parallel Applications [Advanced] Speakers(s): Sebastien Domine (NVIDIA)	2222 - Working Man's Guide to 3D Video Editing Speakers(s): Ian Williams (NVIDIA), Kevan O'Brien (NVIDIA) *ROOM CHANGE: Session was in Room A7	2303 - Using Tegra to Solve The Electric Car Power Dilemma Speakers(s): Theo Valich (Bright Side Network Inc)	2028 - Mathematica for GPU Programming Speakers(s): Ulises Cervantes-Pimentel (Wolfram Research)	2276 - Using GPUs to Run Next-Generation Weather Models Speakers(s): Mark Govett (NOAA Earth System Research Laboratory)	2233 - Solving Your GPU Computing Needs (Sponsored by HP) Speakers(s): Dave Korf (HP), Will Wade (HP)	2299 - Integrating CUDA BLAS with IMSL Fortran Speakers(s): Chris Gottbrath (TotalView Technologies, Inc., a Rogue Wave Software company)
14:30															
15:00		2263 - CUDA Centers of Excellence Super-Session II Speakers(s): Stan Tomov (University of Tennessee), Amitabh Varshney (University of Maryland), Wei Ge (Institute of Process Engineering, Chinese Academy of Sciences)	2227 - OpenGL 4.0 Tessellation for Professional Applications Speakers(s): Philippe Rollin (NVIDIA)	2074 - Driving a Product from Rasterization to Ray Tracing: The Developer Experience Speakers(s): Nicolas Gebbie (Bunkspeed)	2017 - Lessons Learned Deploying the World's First GPU-Based Petaflop System Speakers(s): Dale Southard (NVIDIA)	2235 - Advanced Medical Volume Rendering and Segmentation on the GPU Speakers(s): Mike Roberts (Hotchkiss Brain Institute, University of Calgary, Canada), Eric Penner (Hotchkiss Brain Institute, University of Calgary, Canada)	2224 - GPU Acceleration in Adobe Creative Tools Speakers(s): Paul Young (Adobe), Steve Hoeg (Adobe), Al Mooney (Adobe)	2113 - WebGL: Bringing 3D to the Web Speakers(s): Vladimir Vukicevic (Mozilla Corporation)	2147 - GPGPU Development for Windows HPC Server Speakers(s): Calvin Clark (Microsoft)	2085 - Tridiagonal Solvers: Auto-Tuning and Optimizations Speakers(s): Andrew Davidson (University of California, Davis), Yao Zhang (University of California, Davis)		2148 - Rapid Prototyping and Visualization with OpenCL Studio Speakers(s): Jochen Stier (Geist Software Labs)	2103 - Development of an Efficient GPU-Accelerated Model for Fully Nonlinear Water Waves Speakers(s): Allan Peter Engsig-Karup (Technical University of Denmark)	2270 - Appro's GPU Computing Solutions Speakers(s): John Lee (Appro)	2090 - Developing Highly Scalable Particle-Mesh Codes for GPUs: A Generic Approach Speakers(s): Guido Juckeland (TU Dresden - ZIH), Michael Bussmann (Forschungszentrum Dresden-Rossendorf)
15:30												2268 - Think Data-Parallel! Building Data-Parallel Code with M Speakers(s): Gallagher Pryor (AccelerEyes)			
16:00		2264 - CUDA Centers of Excellence Super-Session III Speakers(s): Wen-mei Hwu (University of Illinois, Urbana-Champaign), Yangdong Deng (Tsinghua University), Charles Hansen (University of Utah)	2022 - Solving PDEs on Regular Grids with OpenCurrent Speakers(s): Jonathan Cohen (NVIDIA Research)	2036 - Algorithms for Automated Segmentation of Medical Imaging Studies Utilizing CUDA Speakers(s): Supratik Moulik (University of Pennsylvania)	2052 - Power Management Techniques for Heterogeneous Exascale Computing Speakers(s): Xiaohui Cui (Oak Ridge National Laboratory)	2067 - Experiences with Code Optimizations for High Performance GPGPU Programs Speakers(s): Huiyang Zhou (North Carolina State University), Yi Yang (North Carolina State University)	2161 - NVIDIA Quadro Digital Video Pipeline Overview Speakers(s): Thomas True (NVIDIA)	2274 - Harnessing the Power of the GPU in Internet Explorer 9 Speakers(s): Jason Weber (Microsoft)	2151 - Parallel Nsight: Analyzing and Optimizing Massively Parallel Applications [Advanced] Speakers(s): Sebastien Domine (NVIDIA)	2056 - Next-Generation Rendering with CgFX Speakers(s): Tristan Lorach (NVIDIA)		2179 - GPU - An R Library for Native GPU Objects Speakers(s): Christopher Brown (Open Data)	2295 - Large-scale CFD Applications and a Full GPU Implementation of a Weather Prediction Code on the TSUBAME Supercomputer Speakers(s): Takayuki Aoki (Tokyo Institute of Technology)	2247 - Reconfiguring a Pool of GPUs on The Fly (Sponsored by NextIO) Speakers(s): K.C. Murphy (NextIO)	2129 - Hardware Subdivision and Tessellation of Catmull-Clark Surfaces Speakers(s): Charles Loop (Microsoft Research)
16:30												2111 - Using R for High-Performance Data Analysis Speakers(s): Domokos Vermes (Worcester Polytechnic Insitute)			
17:00		2265 - CUDA Centers of Excellence Super-Session IV Speakers(s): Paul Calleja (University of Cambridge), Ting-Wai Chiu (National Taiwan University), Satoshi Matsuoka (Tokyo Institute of Technology)		2009 - 4D Visualization and Analysis of Flow Speakers(s): Shalini Venkataraman (NVIDIA)	2225 - Tools for Managing Clusters of NVIDIA GPUs Speakers(s): Peter Buckingham (NVIDIA), Andrew Iles (NVIDIA)	2084 - State of the Art in GPU Data-Parallel Algorithm Primitives Speakers(s): Mark Harris (NVIDIA)	2205 - A Highly Reliable RAID System Based on GPUs Speakers(s): Matthew Curry (Sandia National Laboratories and the University of Alabama at Birmingham)	2060 - GPUs in a Flash: Mapping the Flash Animated Software Vector Rendering Model to the GPU Speakers(s): Lee Thomason (Adobe Systems)	2212 - Parallel Nsight for Accelerated DirectX 11 Development [Advanced] Speakers(s): Simon Barrett (NVIDIA)	2250 - GPU Ray Tracing Exposed: Under the Hood of the NVIDIA OptiX Ray Tracing Engine Speakers(s): Steve Parker (NVIDIA), Austin Robison (NVIDIA), Phillip Miller (NVIDIA)	2304 - Harnessing the GPU to Accelerate Automotive Development Speakers(s): Igor Juric (Juric Design / Dok-Ing), Tomislav Bosko (Dok-Ing), Theo Valich (Bright Side Network Inc)	2297 - Developing CUDA Accelerated .NET Plugins for Microsoft Excel Speakers(s): Peter Decrem (Quantifi)	2239 - Fast GPU Preconditioning for Fluid Simulations in Film Production Speakers(s): Dan Bailey (Double Negative)	2026 - MatCloud: Accelerating Matrix Math GPU Operations with SaaS Speakers(s): Xing Wu (North Carolina State University), Frank Mueller (North Carolina State University)	2102 - Evacuate Now? Faster-than-real-time Shallow Water Simulation on GPUs Speakers(s): André Rigland Brodtkorb (SINTEF ICT)
17:30															
18:00	1005 - Exhibits Open / Networking Reception / Research Posters Showcase														
20:15	Special 3D Screening: "The Third Pillar of Science" - Keynote Hall														

GPU Technology Conference - Schedule for Wednesday, Sept 22

Wed 9/22	Keynote Hall	Marriott Guadalupe	Marriott San Jose Ballroom	Room A1	Room A2	Room A3	Room A5	Room A7	Room A8	Room B	Room C	Room D	Room E	Room K	Room L	Room M	Room N
9:00	1002 - Day 2 Keynote with Dr. Klaus Schulten, University of Illinois at Urbana-Champaign																
10:00	4000 - Emerging Companies Summit Opening Address Speakers(s): Jeff Herbst (NVIDIA)	2082 - CU-LSP: GPU-based Spectral Analysis of Unevenly Sampled Data Speakers(s): Richard Townsend (University of Wisconsin-Madison)	2280 - TSUBAME2.0 Experience Speakers(s): Satoshi Matsuoka (Tokyo Institute of Technology)	2134 - Ultra High Resolution Displays and Interactive Eyepoint Using CUDA Speakers(s): Rajeev Surati (Scalable Display Technologies)	2141 - Moving the Frontier of Oil and Gas Exploration and Production with GPUs Speakers(s): Maurice Nessim (Schlumberger), Shashi Menon (Schlumberger)	2166 - The Triad of Extreme Computing-Fast Algorithms, Open Software and Heterogeneous Systems Speakers(s): Lorena Barba (Boston University)	2249 - New Programming Tools GPU Computing Speakers(s): Wen-mei Hwu (University of Illinois, Urbana-Champaign), Andrew Schuh (University of Illinois)	2169 - Real-time Volumetric Medical Ultrasound Applications for GPU Computing Speakers(s): Roee Lazebnik (Siemens Healthcare)	2305 - PantaRay: Accelerating Out-Of-Core Ray Tracing of Sparsely Sampled Occlusion Speakers(s): Luca Fascione (Weta Digital)	2168 - Interactive Molecular Dynamics for Nanomechanical and Nanochemical Experiments Speakers(s): Axel Kohlmeyer (Institute for Computational Molecular Science, Temple University)	2058 - A Practical Introduction to Computational Fluid Dynamics on GPUs Speakers(s): Tomasz Bednarz (CSIRO)	2163 - Leveraging GPUs for Evolutionary Game Theory Speakers(s): Amanda Peters (Harvard University)	2231 - Driving on Mars, Redux: System Level Simulation of Dynamic Systems Speakers(s): Dan Negrut (University of Wisconsin)	2306 - Gate-Level Simulation with GP-GPUs Speakers(s): Debapriya Chatterjee (University of Michigan)	2160 - StarPU: a Runtime System for Scheduling Tasks Speakers(s): Cedric Augonnet (INRIA)	2232 - What If You Had a Petabyte of Memory and/or a Petaflop of Compute? (Sponsored by SGI) Speakers(s): Bill Mannel (SGI)	2308 - Building Cutting-Edge Realtime 3D Applications with NVIDIA SceniX Speakers(s): Brian Harrison (NVIDIA), Michael Morrison (NVIDIA)
10:30												2109 - Migration of a Complete 3D Poisson Solver from Legacy Fortran to CUDA Speakers(s): Huynh Phung (A*STAR Institute of High Performance Computing)			2300 - High-Performance Compressive Sensing using Jacket Speakers(s): Nabor Reyna (Rice University)			
11:00	4001 - Emerging Companies: CEO on Stage featuring Elemental Technologies, Geomerics, and Milabra Speakers(s): Rob Balgley (Mersive), Sam Blackman (Elemental Technologies, Inc.), Chris Doran (Geomerics) and Panelists Drew Lanza (Morgenthaler), Dan'l Lewin (Microsoft), Jon Peddie (Jon Peddie Research), Jeff Herbst (NVIDIA)	2099 - Cosmology Powered by GPUs Redux Speakers(s): Dominique Aubert (Strasbourg University)	2078 - Shockingly fast and accurate CFD simulations Speakers(s): Timothy Warburton (Rice University)	2071 - Large Scale Visualization Soup Speakers(s): Steve Nash (NVIDIA)	2059 - Industrial Seismic Imaging on GPUs Speakers(s): Scott Morton (Hess Corporation)	2216 - CUDA Libraries Open House Speakers(s): Ujval Kapasi (NVIDIA), Philippe Vandermersch (NVIDIA), Elif Albuz (NVIDIA), Nathan Whitehead (NVIDIA), Frank Jargstorff (NVIDIA)	2275 - The Evolution of GPUs for General Purpose Computing Speakers(s): Ian Buck ()	2146 - Virtual Surgery Speakers(s): Aaron Oliker (BioDigital)	2286 - Towards Peta-Scale Green Computation - Applications of the GPU Supercomputers in the Chinese Academy of Sciences (CAS) Speakers(s): Wei Ge (Institute of Process Engineering, Chinese Academy of Sciences), Xiaowei Wang (Institute of Process Engineeri	2034 - Reformulating Algorithms for the GPU Speakers(s): Narayan Ganesan (University of Delaware), Michela Taufer (University of Delaware)	2177 - Simplifying Parallel Programming with Domain Specific Languages Speakers(s): HyoukJoong Lee (Stanford University). Hassan Chafi (Stanford University)	2207 - Playing Zero-Sum Games on the GPU Speakers(s): Avi Bleiweiss (NVIDIA Corporation)	2065 - Massively Accelerating Iterative Gauss-Newton Fitting Speakers(s): Daniel Härter (University of Freiburg, IMTEK, Laboratory for Process Technology)	2039 - GPU Debugging with Allinea DDT Speakers(s): David Lecomber (Allinea Software)	2092 - Integrating CUDA into a Large-Scale Commercial Database Management System Speakers(s): Richard Wilton (The Johns Hopkins University), Tamas Budavari (Johns Hopkins University), Alex Szalay (The Johns Hopkins University)	2293 - Scaling Up and Scaling Out GPUs with Supermicro's Twin™ Architecture (Sponsored by Supermicro) Speakers(s): Don Clegg ()	2104 - Rapid Prototyping Using Thrust: Saving Lives with High Performance Dosimetry Speakers(s): Guillaume Saupin (Atomic and Alternative Energies Commission (CEA))
11:30										2035 - Simulations of Large Membrane Regions Speakers(s): Michela Taufer (University of Delaware), Narayan Ganesan (University of Delaware), Sandeep Patel (University of Delaware)				2117 - Migration of C and Fortran Apps to GPGPU using HMPP Speakers(s): Francois Bodin (CAPS entreprise)			
12:00	1004 - Exhibits Open / Networking Lunch																
14:00	4002 - Emerging Companies: CEO on Stage featuring Allegorithmic SAS, Bunkspeed, and miGenius Speakers(s): Philip Lunn (Bunkspeed), Sébastien Deguy (Allegorithmic), Chris Blewitt (miGenius Limited) and Panelists Drew Lanza (Morgenthaler), Dan'l Lewin (Microsoft), Jon Peddie (Jon Peddie Research), Jeff Herbst (NVIDIA)	2000 - Gravitational N-body Simulations: How Massive Black Holes Interact with Stellar Systems Speakers(s): Roberto Capuzzo-Dolcetta (Sapienza Univ. of Roma), Alessandra Mastrobuono Battisti (Sapienza- University of Rome)	2204 - Bridging GPU Computing and Neuroscience to Build Large-Scale Face Recognition on Facebook. Speakers(s): Nicolas Pinto (MIT), David Cox (Harvard University)	2125 - Developing GPU Enabled Visual Effects For Film And Video Speakers(s): Bruno Nicoletti (The Foundry)	2142 - Complex Geophysical Imaging Algorithms Enabled by GPU technology Speakers(s): David Nichols (Schlumberger)	2041 - PyCUDA: Even Simpler GPU Programming with Python Speakers(s): Andreas Kloeckner (Courant Institute, NYU)	2140 - Superfast Nearest Neighbor Searches Using a Minimal kd-tree Speakers(s): Shawn Brown (UNC, Chapel Hill)	2139 - Interactive Histology of Large-Scale Biomedical Image Stacks Speakers(s): Won-Ki Jeong (Harvard University), Jens Schneider (King Abdullah University of Science and Technology)	2246 - The challenges of integrating CUDA engines into an existing package, yet not sinking the boat Speakers(s): Eri Rubin (OptiTex)	2068 - Parallelizing FPGA Technology Mapping using GPUs Speakers(s): Doris Chen (University of Toronto)	2164 - Analytical Performance Models to Improve the Efficiency of GPU Computing Speakers(s): Hyesoon Kim (Georgia Tech)	2038 - The Best of Both Worlds: Flexible Data Structures for Heterogeneous Computing Speakers(s): Robert Strzodka (Max Planck Institut Informatik)	2137 - CUDA for Real-Time Multigrid Finite Element Simulation of Soft Tissue Deformations Speakers(s): Christian Dick (Technische Universität München), Joachim Georgii (Technische Universität München)	2045 - Roe-Pike Scheme for 2D Euler Equations Speakers(s): Matthieu Lefebvre (ONERA)	2120 - High Performance Complex Event Processing on GPGPU Speakers(s): Murali Krishna (Infosys Technologies Limited), Dr. Sudeep (Infosys)	2287 - Internal GPUs on Dedicated x16 Slots - Are They Needed For HPC? (Sponsored by Dell) Speakers(s): Mark Fernandez (Dell)	2248 - Parallel Processing on GPUs at the University of Utah Speakers(s): Claudio Silva (University of Utah), Huy Vo (University of Utah)
14:30														2049 - Deflated Preconditioned Conjugate Gradient on the GPU Speakers(s): Rohit Gupta (Delft University Of Technology), Kees Vuik (Delft University Of Technology)					
15:00	4003 - Emerging Companies Summit Panel: GPUs for Computer Vision Moderator: Jon Peddie (Jon Peddie Research); Speakers(s): Sam Cox (Milabra), Tom Dean (Google) Janko Mrsic-Flogel (MirriAd), Joe Stam (NVIDIA), Yoram Yaacovi (Microsoft)	2044 - GRASSY: Leveraging GPU Texture Units for Asteroseismic Data Analysis Speakers(s): Matt Sinclair (UW-Madison)	2281 - Domain-Specific Languages Speakers(s): Hanspeter Pfister (Harvard University), Milos Hasan (Harvard University)	2029 - Computer Vision Algorithms for Automating HD Post-Production Speakers(s): Hannes Fassold (JOANNEUM RESEARCH)	2174 - Reverse Time Migration on GPUs Speakers(s): Alex Loddoch (Chevron)	2234 - Unstructured Finite Volume Code on a Cluster with Multiple GPUs per Node Speakers(s): Keith Obenschain (Naval Research Lab), Andrew Corrigan (Naval Research Laboratory & George Mason University)	2238 - Better Performance at Lower Occupancy Speakers(s): Vasily Volkov (UC Berkeley)	2211 - Modern Architecture for Massively Parallel Medical Tomographic Image Reconstruction on a GPU Cluster Speakers(s): Sven Prevrhal (Philips), Jingyu Cui (Stanford University)	2273 - GPUs In the Front Line of our Defenses (Sponsored by GE) Speakers(s): Simon Collins (GE Intelligent Platforms)	2218 - Redesigning Molecular Dynamics for GPUs and GPU Clusters Speakers(s): Scott Le Grand (NVIDIA)	2122 - Using GPUs for Real-Time Brain-Computer Interfaces Speakers(s): Adam Wilson (University of Cincinnati)	2296 - CUDA Optimization for Ninjas: A Case Study of High-Performance Sorting Speakers(s): Duane Merrill (University of Virginia)	2170 - Lattice Boltzmann Multi-Phase Simulations in Porous Media using GPUs Speakers(s): Jonas Toelke (Ingrain)	2251 - TotalView Debugger for CUDA Speakers(s): Chris Gottbrath (TotalView Technologies, Inc., a Rogue Wave Software company)	2237 - Accelerating Business Intelligence Applications with Fast Multidimensional Aggregation Speakers(s): Tobias Lauer (University of Freiburg), Christoffer Anselm (Jedox AG)	2080 - Tackling Multi-Gigabit Design Challenges with a Practical Virtual EMI/ESD Lab Speakers(s): Davy Pissoort (KHBO-FMEC), Amolak Badesha (Agilent Technologies), Hany Fahmy (NVIDIA)	2050 - Copperhead: Data-Parallel Python for the GPU Speakers(s): Bryan Catanzaro (University of California, Berkeley)
15:30														2143 - CUDA Fortran Programming for NVIDIA GPUs Speakers(s): Brent Leback (The Portland Group)					
16:00	4004 - Emerging Companies: CEO on Stage featuring Coolitis, empulse GmbH, and Playcast Speakers(s): Austin Shoemaker (Coolitis), Michael Hummel (empulse GmbH), Natan Peterfreund (Playcast Media Systems) and panelists Nathan Brookwood (Insight64), Charles	2108 - Binary Black Holes Simulations using CUDA Speakers(s): Abdul Mroue (CITA, Univ. Of Toronto)	2135 - Processing Petabytes per Second with the ATLAS experiment at the Large Hadron Collider at CERN Speakers(s): Philip Clark (University of Edinburgh), Andrew Washbrook (University of Edinburgh)	2072 - GPUs at the Computer Animation Studio Speakers(s): Hugo Ayala (Blue Sky Studios)	2226 - Reverse Time Migration with GMAC Speakers(s): Javier Cabezas (Barcelona Supercomputing Center), Mauricio Araya (Barcelona Supercomputing Center)	2201 - A Case Study of Accelerating Matlab Based Applications using GPUs Speakers(s): Aniruddha Dasgupta (Georgia Institute of Technology)	2154 - The Impact of Data Movement on GPU Performance Speakers(s): John Humphrey (EM Photonics, Inc), Daniel Price (EM Photonics, Inc.)	2144 - Large-Scale Visualization Using A GPU Cluster Speakers(s): Byungil Jeong (TACC / UT-Austin), Paul Navratil (Texas Advanced Computing Center)	2118 - Large-scale Gas Turbine Simulations on GPU Clusters Speakers(s): Tobias Brandvik (University of Cambridge)	2073 - High Performance Molecular Simulation, Visualization, and Analysis on GPUs Speakers(s): John Stone (University of Illinois at Urbana-Champaign)	2093 - Computational Photography: Real-Time Plenoptic Rendering Speakers(s): Andrew Lumsdaine (Indiana University), Georgi Chunev (Indiana University), Todor Georgiev (Adobe Systems)	2020 - GPU-Accelerated Data Expansion for the Marching Cubes Algorithm Speakers(s): Gernot Ziegler (NVIDIA). Chris Dyken (SINTEF)	2083 - GPU Accelerated Solver for the 3D Two-phase Incompressible Navier-Stokes Equations Speakers(s): Peter Zaspel (University of Bonn)	2069 - GPU-Accelerated Business Intelligence Analytics Speakers(s): Ren Wu (HP Labs)	2252 - Simulating Housefly Vision Elements Using OpenCL Speakers(s): Karen Haines (WASP/The University of Western Australia)	2302 - Microsoft Technologies for High Performance Computing (Sponsored by Microsoft) Speakers(s): Calvin Clark (Microsoft)	2217 - GPU-Based Conjugate Gradient Solvers for Lattice QCD Speakers(s): Ting-Wai Chiu (National Taiwan University)
16:30																	
17:00	4005 - Emerging Companies: CEO on Stage featuring Jedox Business Intelligence, Rocketick, and Softkinetic Speakers(s): Kristian Raue (Jedox AG), Uri Tal (Rocketick), Michel Tombroff (Softkinetic) and panelist(s): Nathan Brookwood (Insight64), Charles Carmel (Cisco), Flip Gianos (Interwest Partners), Jeff Herbst (NVIDIA)	2178 - Using GPUs to Track Changes in the Sun Speakers(s): Mark Cheung (Lockheed Martin Solar & Astrophysics Laboratory)	2011 - Fundamental Performance Optimizations for GPUs Speakers(s): Paulius Micikevicius (NVIDIA)	2162 - Real-time Reyes: Programmable Rendering on Graphics Processors Speakers(s): Anjul Patney (University of California, Davis), Stanley Tzeng (University of California, Davis)	2014 - Scalable Subsurface Data Visualization Framework Speakers(s): Tom-Michael Thamm (mental images GmbH), Marc Nienhaus (mental images GmbH)	2005 - Porting Large-Scale Legacy Fortran Codes Speakers(s): Andrew Corrigan (Naval Research Laboratory & George Mason University), Rainald Löhner (George Mason University)	2089 - Analyzing CUDA Accelerated Application Performance at 20 PFLOP/s Speakers(s): Guido Juckeland (TU Dresden - ZIH), Jeremy Meredith (Oak Ridge National Laboratory)	2243 - Microsoft RemoteFX - GPU Virtualization for Desktop Centralization Speakers(s): Tad Brockway (Microsoft)	2077 - Catastrophic Risk Management: Fast and Flexible with GPU Analytics Speakers(s): Philippe Stephan (RMS)	2006 - Short-Range Molecular Dynamics on GPU Speakers(s): Peng Wang (NVIDIA)	2021 - Efficient Volume Segmentation on the GPU Speakers(s): Allan Rasmusson (University of Aarhus), Gernot Ziegler (NVIDIA)	2167 - Designing a Geoscience Accelerator Library Accessible from High Level Languages Speakers(s): Chris Hill (M.I.T), Alan Richardson (M.I.T)	2128 - Hybrid Quantum Mechanics/Electrodynamics (QM/ED) Modeling of Solar Cells on a CUDA Cluster Speakers(s): Hanning Chen (Northwestern University)	2282 - GPU-Enabled Biomedical Imaging Speakers(s): Homer Pien (MGH / HMS)	2285 - Walt Disney Animation Studios' GPU-Acelerated Animatic Lighting Process with Soft Shadows and Depth of Field Speakers(s): David Adler (Walt Disney Animation Studios)	2294 - GPU.NET with TidePowerd Speakers(s): Jack Pappas (TidePowerd)	2242 - Swarming Bacteria and Diffusing Particles: High-Throughput Analysis of Microscopic 3D Motion Speakers(s): Peter Lu (Harvard University)
17:30															2284 - GPU implementation of Collision-Based Deformation Speakers(s): Dmitriy Pinskiy (Walt Disney Animation Studios)		
18:00	1006 - Exhibits Open / Networking Reception																

GPU Technology Conference - Schedule for Thursday, Sept 23

Thurs 9/23	Keynote Hall	Marriott San Jose Ballroom	Room A1	Room A2	Room A3	Room A5	Room A7	Room A8	Room B	Room C	Room D	Room K	Room L	Room M	Room N
9:00	4006 - Fireside Chat with Jen-Hsun Huang - Co-founder & CEO, NVIDIA Speakers(s): Quentin Hardy (Forbes Magazine), Jen-Hsun Huang (NVIDIA)	2156 - GMAC: Global Memory For Accelerators Speakers(s): Isaac Gelado (Universitat Politecnica de Catalunya)	2202 - A Programming Model and Tool for Automatic High-Performance C to CUDA Mapping Speakers(s): Benoit Meister (Reservoir Labs)	2301 - GPU Cluster Computing: Accelerating Scientific Discovery Speakers(s): John Taylor (CSIRO)	2138 - Faster, Cheaper, Better – Hybridization of Linear Algebra for GPUs Speakers(s): Stan Tomov (University of Tennessee), Hatem Ltaief (UNIVERSITY OF TENNESSEE)	2027 - GPU-Based Image Processing in Military Applications Speakers(s): Sean Varah (MotionDSP Inc.)	2033 - Accelerating Pricing Models with virtual GPUs Speakers(s): Scott Donovan (Citadel Investment Group)	2206 - Accelerated Computational Fluid Dynamics Employing GPUs Speakers(s): Daniel Gaudlitz (FluiDyna)	2236 - A Work-Efficient GPU Algorithm for Level Set Segmentation Speakers(s): Mike Roberts (Hotchkiss Brain Institute, University of Calgary, Canada)	2048 - H.264/AVC Video Encoding with CUDA and OpenCL Speakers(s): Thomas Kramer (MainConcept)	2272 - GStream: A General-Purpose Data Streaming Framework on GPUs Speakers(s): Xing Wu (North Carolina State University), Frank Mueller (North Carolina State University)	2145 - Photo Editing on the GPU with MuseMage Speakers(s): Kaiyong Zhao (HKBU), Yubo Zhang (UC Davis)	2030 - High-Throughput Cell Signaling Network Learning with GPUs Speakers(s): Michael Linderman (Stanford University)	2278 - Strategies for Code Encapsulation in GPU Implementations Speakers(s): Brian Cole (OpenEye Scientific Software)	2076 - Implementing CUDA Audio Networks Speakers(s): Giancarlo Del Sordo (Acustica Audio)
9:30								2037 - Numtech & GPGPU, a SME Point of View Speakers(s): Emmanuel Buisson (Numtech)							
10:00	4007 - Emerging Companies: CEO on Stage featuring Aqumin, RTT, and Scalable Display Speakers(s): Andrew Jamison (Scalable Display Technologies), Jeroen Snepvangers (RTT), Michael Zeitlin (Aqumin) and panelists Rob Enderle (Enderle Group), Jeff Herbst (NVIDIA), Savitha Srinivasan (IBM), Norman Winarsky (SRI)	2269 - Bringing GPUs to Mainstream Molecular Dynamics Packages Speakers(s): Ross Walker (San Diego Supercomputer Center)	2176 - Easy GPU Meta-programming: A Case Study in Biologically-Inspired Computer Vision Speakers(s): Nicolas Pinto (MIT), David Cox (Harvard University)	2055 - Application of Fermi GPU to Flow Cytometry and Cancer Detection Speakers(s): Robert Zigon (Beckman Coulter)	2002 - CUDA Debugging on Linux and MacOS with cuda-gdb Speakers(s): Satish Salian (NVIDIA)	2124 - Operating System Abstractions for GPU Programming Speakers(s): Christopher Rossbach (Microsoft Research), Emmett Witchel (University of Texas at Austin)	2032 - Practical Methods Beyond Monte Carlo in Finance Speakers(s): Pierre Spatz (Murex SAS)	2110 - Acceleration of a Novel Rotorcraft Wake Simulation Speakers(s): Christopher Stone (Intelligent Light)	2149 - Overview of Parallel Nsight for Visual Studio Speakers(s): Kumar Iyer (NVIDIA)	2215 - Extending OpenCV with GPU Acceleration Speakers(s): Joe Stam (NVIDIA)		2053 - Pixel Bender: Building a Domain Specific Language on the GPU Speakers(s): Bob Archer (Adobe Systems Inc)	2001 - Acceleration of the Freesurfer Suite for Neuroimaging Analysis Speakers(s): Richard Edgar (Mass. General Hospital)		2116 - Real-time Multichannel Audio Convolution Speakers(s): Jose Antonio Belloch (Institute of Telecommunications and Multimedia Applications, Universidad Politecnica de Valencia), Alberto Gonzalez (Universidad Politecnica de Valencia), Antonio M. Vidal
10:30								2061 - Accelerating Explicit FEM Shock & Blast Simulations Speakers(s): Nachiket Gokhale (Weidlinger Associates Inc)	2292 - Implementation of High-Order Adaptive CFD Methods on GPUs Speakers(s): Z.J. Wang (Iowa State University), Lizandro Solano (Iowa State University), Arun Somani (Iowa State University)						
11:00	4008 - Emerging Companies: CEO on Stage featuring ICD, OTOY and Universal Robotics Speakers(s): David Peters (Universal Robotics), David Hayes (ICD) and Jules Urbach (OTOY) and panelists Rob Enderle (Enderle Group), Jeff Herbst (NVIDIA), Savitha Srinivasan (IBM), Norman Winarsky (SRI)	2219 - High-Productivity CUDA Development with the Thrust Template Library Speakers(s): Nathan Bell (NVIDIA Research)	2075 - GPU-Accelerated Video Encoding Speakers(s): Anton Obukhov (NVIDIA)	2203 - Modeling Evolution Computing the Tree of Life Speakers(s): Daniel Ayres (University of Maryland)	2070 - CUSPARSE Library: A Set of Basic Linear Algebra Subroutines for Sparse Matrices Speakers(s): Maxim Naumov (NVIDIA)	2023 - Processing Device Arrays with C++ Metaprogramming Speakers(s): Jonathan Cohen (NVIDIA Research)	2098 - Enabling On Demand Value-At-Risk for Financial Markets Speakers(s): Matthew Dixon (UC Davis), Jike Chong (Parasians, LLC)	2171 - Parallel Algorithms for Interactive Mechanical CAD Speakers(s): Sara McMains (University of California Berkeley), Adarsh Krishnamurthy (University of California Berkeley)	2007 - Folding@home: Petaflops on the Cheap Today; Exaflops Soon? Speakers(s): Vijay Pande (Stanford University)	2173 - Enabling Large-Scale CCTV Face Recognition Speakers(s): Abbas Bigdeli (NICTA), Ben Lever (NICTA)		2051 - GPGPU in Commercial Software: Lessons From Three Cycles of the Adobe Creative Suite Speakers(s): Kevin Goldsmith (Adobe Systems, Incorporated)	2043 - Disparity Map Generation Speakers(s): Henry Gu (GIC)		2042 - Interactive 3D Audio Rendering Systems Speakers(s): Nicolas Tsingos (Dolby Laboratories)
11:30								2106 - Particleworks: Particle-based CAE Software on Multi-GPU Speakers(s): Issei Masaie (Prometech Software, Inc.)			2298 - Accelerated Image Quality Assessment using Structural Similarity Speakers(s): Mahesh Khadtare (Computational Research Laboratories, Pune, INDIA.)				
12:00	1004 - Exhibits Open / Networking Lunch														
14:00	4009 - Emerging Companies Summit Panel: The "New Normal" For Building Emerging Companies Based On Disruptive Technologies Moderator: Jeff Herbst (NVIDIA); Speakers(s): Gerald Brady (Silicon Valley Bank), Bill Frauenhofer (Citigroup Global Markets), Garre	2054 - NAMD, CUDA, and Clusters: Taking GPU Molecular Dynamics Beyond the Desktop Speakers(s): James Phillips (University of Illinois)	2241 - Standing Out: Implementing a Great Stereo UI Speakers(s): Brendan Iribe (Scaleform)	2115 - Modified Smith-Waterman-Gotoh Algorithm for CUDA Implementation Speakers(s): Richard Wilton (The Johns Hopkins University)	2210 - GPU-Ocelot: An Open Source Debugging and Compilation Framework for CUDA Speakers(s): Gregory Diamos (Georgia Institute of Technology), Andrew Kerr (Georgia Institute of Technology), Sudhakar Yalamanchili (Georgia Institute of Technology)	2008 - OpenCL Optimization Speakers(s): Peng Wang (NVIDIA)	2040 - Derivatives & Bond Portfolio Valuation in a Hybrid CPU/GPU Environment Speakers(s): Peter Decrem (Quantifi)	2155 - GPGPU in the real world. The ABAQUS experience Speakers(s): Luis Crivelli (Dassualt Systems Simulia Corporation)	2220 - Thrust by Example: Advanced Features and Techniques Speakers(s): Jared Hoberock (NVIDIA)	2209 - Accelerating Computer Vision on the Fermi Architecture Speakers(s): James Fung (NVIDIA)		2087 - Fast High-Quality Panorama Stitching Speakers(s): Timo Stich (NVIDIA)	2121 - Maximizing Throughput of Barco's GPU-Enabled Video Processing Server Speakers(s): Maja D'Hondt (imec)		2175 - Hello GPU: High-Quality, Real-Time Speech Recognition on Embedded GPUs Speakers(s): Kshitij Gupta (UC Davis)
14:30								2240 - Accelerating LS-DYNA with MPI, OpenMP, and CUDA Speakers(s): Bob Lucas (USC)							
15:00	4010 - Emerging Companies: CEO on Stage featuring Natural Motion, OptiTex, and Useful Progress Speakers(s): Yoram Burg (OptiTex.), Sylvain Ordureau (Useful Progress), Torsten Reil (NaturalMotion Ltd) and panelists Tim Bajarin (Creative Strategies), Jeff Herbst (NVIDIA), Bill Tai (CRV), Paul Weiskopf (Adobe)	2012 - Analysis-Driven Performance Optimization Speakers(s): Paulius Micikevicius (NVIDIA)	2016 - VDPAU: PureVideo on Unix Speakers(s): Stephen Warren (NVIDIA)	2105 - CUDA-FRESCO: An Efficient Algorithm for Mapping Short Reads Speakers(s): Chun-Yuan Lin (Department of CSIE, Chang Gung University)	2153 - CULA - A Hybrid GPU Linear Algebra Package Speakers(s): John Humphrey (EM Photonics, Inc)	2062 - HOOMD-blue: Fast and flexible Many-Particle Dynamics Speakers(s): Joshua Anderson (University of Michigan)	2064 - Correlated Paths for Monte Carlo Simulations Speakers(s): Thomas Bradley (NVIDIA)	2213 - BCSLIB-GPU: Significant Performance Gains for CAE Speakers(s): Danl Pierce (Access Analytics Int'l, LLC)	2081 - Morphing a GPU into a Network Processor Speakers(s): Yangdong Deng (Tsinghua University)	2123 - Enabling Augmented Reality with GPU Computing Speakers(s): Ryan Ismert (Sportvision, Inc.)		2003 - Using CUDA to Accelerate Radar Image Processing Speakers(s): Aaron Rogan (Neva Ridge Technologies)	2107 - Accelerating Stereographic and Multi-View Images Using Layered Rendering Speakers(s): Jonathan Marbach (TerraSpark Geosciences, LLC)		2046 - Efficient Automatic Speech Recognition on the GPU Speakers(s): Jike Chong (Parasians, LLC)
15:30							2063 - Banking on Monte Carlo... and Beyond Speakers(s): Ian Reid (NAG)	2208 - Acceleration of SIMULIA's Abaqus Solver on NVIDIA GPUs Speakers(s): Chris Mason (Acceleware)							
16:00	4011 - Emerging Companies: CEO on Stage featuring Cinnafilm, Perceptive Pixel, and Total Immersion Speakers(s): Lance Maurer (Cinnafilm, Inc.), Bruno Uzzan (Total Immersion), Jeff Han (Perceptive Pixel) and panelists Tim Bajarin (Creative Strategies), Jeff Herbst (NVIDIA), Bill Tai (CRV), Paul Weiskopf (Adobe)		2095 - Building High Density Real-Time Video Processing Systems Speakers(s): Ronny Dewaele (Barco)	2088 - Nucleotide String Matching Using CUDA-Accelerated Agrep Speakers(s): Hongjian Li (The Chinese University of Hong Kong)	2100 - Hybrid GPU/Multicore Solutions for Large Linear Algebra Problems Speakers(s): Nolan Davis (SAIC)	2271 - Compose CUDA Masterpieces! Write better, Leverage More Speakers(s): James Malcolm (AccelerEyes)	2136 - Pseudo Random Number Generators for Massively Parallel Apps Speakers(s): Holger Dammertz (Ulm University)	2133 - 3D Full Wave EM Simulations Accelerated by GPU Computing Speakers(s): Fabrizio Zanella (CST of America)	2086 - GPGPU DL_POLY Speakers(s): Gilles Civario (ICHEC)	2279 - Working Man's Guide to 3D Video Editing Speakers(s): Ian Williams (NVIDIA), Rudy Sarzo (SMI), Kevan O'Brien (NVIDIA) *ROOM CHANGE: Session was in Room D	2114 - Cascaded HOG on GPU Speakers(s): Kento Tarui (AquaCast Corporation) *ROOM CHANGE: Session was in Room C	2126 - Accelerating Signal Processing: Introduction to GPU VSIPL Speakers(s): Dan Campbell (Georgia Tech Research Institute)	2283 - 500 Teraflops Heterogeneous Cluster Speakers(s): Mark Barnell (Air Force Research Lab (AFRL))		2091 - The GPU in the Reactive Control of Industrial Robots Speakers(s): Dr.Alan Peters (Universal Robotics, Inc.)
16:30							2101 - Pricing American Options Using GPUs Speakers(s): Lokman A. Abbas-Turki (Paris-Est University)	2066 - Accelerating System Level Signal Integrity Simulation Speakers(s): Danil Kirsanov (ANSYS), Ekanathan Palamadai (ANSYS)							
17:00	1003 - Closing keynote with Dr. Sebastian Thrun, Stanford University														
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20:00	1007 - Closing Party for Charity at the Voodoo Lounge														
20:30															
21:00															