

DOE Computer Graphics Forum

Pacific Grove, CA, April 25 – 28

Site Chair: Wes Bethel, LBL

Program Chair: John Clyne, NCAR

Monday, April 25, 2016

6:00 pm to 7:00 pm	Arrival and badge pickup
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Tuesday, April 26, 2016

7:30 am to 9:00am	Breakfast in Asilomar Dinning Hall & badge pickup	
9:00 am to 10:30 am	Site Reports	Chair: Wes Bethel
9:00 am	Welcome	John and Wes
9:15 am	Argonne National Lab	Joe Insley
9:30 am	ARL APG	Simon Su
9:45 am	DoD HPCMP/Air Force Research Labs	Rhonda Vickery
10:00 am	DoD HPCMP/Naval Research Labs	Sean Ziegeler
10:15 am	Idaho National Lab	Eric Whiting
10:30 am to 11 am	Break	
11:00 am to 12:00 pm	Site Reports	Chair: Kenny Gruchalla
11:00 am	Lawrence Berkeley National Laboratory	Wes Bethel
11:15 am	Lawrence Livermore National Laboratory	Eric Brugger
11:30 am	Los Alamos National Laboratory	John Patchett
11:45 am	National Center for Atmospheric Research	John Clyne
12:00 pm to 1:00 pm	Lunch in Asilomar Dinning Hall	
1:00 pm to 2:30 pm	Site Reports	Chair: John Clyne
1:00 pm	NCSA	Rob Sisneros
1:15 pm	National Renewable Energy Laboratory	Kenny Gruchalla
1:30 pm	ORNL	Dave Pugmire
1:45 pm	Sandia National Laboratories	Alan Scott
2:00 pm	Univ. of Oregon	Hank Childs
2:15 pm	University of Texas at Austin	Terry Turton
2:30 pm to 3:00 pm	Break	

Tuesday, April 26, 2016

3:00 pm to 4:30 pm	Software Updates	Chair: Eric Brugger
3:00 pm	ParaView	Ken Moreland, SNL
3:15 pm	VTK-m	Ken Moreland, SNL
3:30 pm	VI3	Silvio Rizzi, Joe Insley, ANL
3:45 pm	ADIOS	Dave Pugmire, ORNL
4:00 pm to 5:30 pm	Research 1	Chair: Hank Childs
4:00 pm	IsoFind: Halo Finding Using Merge Trees	Gunther Weber, LBL
4:30 pm	User study evaluation of scientific visualizations via Amazon Mechanical Turk	Terry Turton, LANL
6:00 pm to 7:00 pm	Dinner in Asilomar Dinning Hall	

Wednesday, April 27, 2016

7:30 am to 8:30 am	Breakfast in Asilomar Cafeteria	
8:30 am to 9:30 am	Advanced Displays & Software Updates	Chair: Laura Monroe
8:30 am	Modern Conference Room Viz Technology (get rid of those projectors and Elmos!)	Dave Modl, LANL
9:00 am	3D immersive and interactive data visualization with ParaView	Simon Su, ARL APG
9:30 am	VisIt	Eric Brugger, LLNL
9:45 am	VAPOR	John Clyne, NCAR
10:00 am to 10:30 am	Break	
10:30 am to 12:00 pm	In situ	Chair: Allen Sanderson
10:30 am	Strawman: A Batch In Situ Visualization and Analysis Infrastructure for Multi-Physics Simulation Codes	Matt Larsen, LLNL
11:00 am	In-situ Visualization with Paraview Catalyst	Thomas Otahal, SNL
11:30 am	In-situ Visualization and Analysis of Ion Accelerator Simulations using Warp and VisIt	Burlen Loring, LBL
12:00 pm to 1:00 pm	Lunch in Asilomar Cafeteria	
1:00 pm to 3:00 pm	Industry	Chair: Rhonda Vickery
1:00 pm	VTK 2016 –What's New	Andy Bauer, Kitware
1:30 pm	Efficient visualization rendering on CPU only systems: recent progress and the next big challenges	Ingo Wald, Intel
2:00 pm	HPC visualization on modern GPUs	Tom Fogal, nVidia
2:30 pm	Libsim 1	Brad Whitlock, Intelligent Light
3:00 pm to 3:30 pm	Break	
3:30 pm to 5:30 pm	Research 2	Chair: Wes Bethel
3:30 pm	VisIt-Uintah an In-situ Marriage	Allen Sanderson, U. of Utah
4:00 pm	Measuring Parallel Software Scalability: You're Doing it Wrong	Ken Moreland, SNL
4:30 pm	TBD	Dave Pugmire, ORNL
5:00 pm	This one goes to 11; spatial+temporal domain data compression	John Clyne, NCAR
6:00 pm to 7:00 pm	Dinner in Asilomar Dinning Hall	

Thursday, April 28, 2016

7:30 am to 8:30 am	Breakfast in Asilomar Cafeteria	
8:30 am to 10:00 am	Applications 1	Chair: Alan Scott
8:30 am	An In Situ Derived Data I/O Mini-App: Design & Early Results	Sean Ziegeler, NRL
9:00 am	Finite-Time Lyapunov Exponents and Lagrangian Coherent Structures in Uncertain Unsteady Flows.	Hanqi Guo, ANL
9:30 am	Visualization and analysis of mass spectrometry imaging data in OpenMSI with BASTet	Oliver Ruebel, LBL
10:00 am to 10:30 am	Break	
10:30 am to 12:00 pm	Applications 2	Chair: Sean Ziegeler
10:30 am	The In Situ Terminology Project	Hank Childs, U. of Oregon
11:00 am	Scientific Animation with Commercial 3d Software	Brad Carvey, SNL
11:30 am	Build and Execution Environments, a encapsulated environment enables the application running everywhere.	Qiang Guan, LANL
12:00 pm to 12:05 pm	Closing remarks	John and Wes
12:05 pm to 1:00 pm	Lunch in Asilomar Cafeteria	