Visualization Frameworks Requirements Meeting
June 2-3, 2003

Monday, June 2 (Montgomery Room)

1:00	**Welcome**	Meeting goals	John van Rosendale
	Results of first meeting	Wes Bethel	
1:30	**State of the Art DOE Visualization (App View) (5 minutes)**		
	ASCI/scalability	Phil Heermann	
	Computational Chemistry/Collab	Ray Bair	
	Fusion/real-time	Doug McCune	
	Climate Modeling/big data	Dean Williams	
1:50	**State of the Art DOE Visualization (Vis View) (6 minutes)**		
	Volume Rendering	Richard Strelitz	
	Terascale Browser	Mark Duchaineau	
	Real-time Raytracer	Steve Parker	
	Visapult/Chombo	Wes Bethel	
	Collaborative Visualization	Rick Stevens	
2:30	**Scenario Goals and Requirements**	John van Rosendale	
3:00	**Break**		
3:15	**Scenario Desiderata**		
	Distance, Collaboration, and UI	Rick Stevens	
	Application Requirements	Andrew Siegel	
	Display Modality and Interactivity	Don Middleton	
4:00	**Refinement of Target Scenarios**	(All, Rick Stevens moderator)	

We would like to have three or four breakouts each addressing one or two scenarios. Here are some initial suggestions for scenarios.

- Interactive visualization of a 100 TB data set, using a combination of a browsing and rendering tools

- A real-time disaster response scenario, such as the hurricane scenario outlined at the Emeryville workshop

- Multi-site collaborative visualization of a simulation results with concurrent visualization at sites supporting different "modalities" of visualization, e.g CAVEs, walls, and monitors, coupling to a telecollaboration tool, such as the Access Grid

- Comparative visualization of data of different dimensionalities (e.g. storm simulation and

real-time buoy data).

- Visualization and "steering" of a running simulation

- Concurrent visualization of a running experiment (e.g. at the Spallation Neutron Source) and of a related simulation

- Collaborative annotation and visualization of comparative genomic to support a real-time response to a biohazard

- Multiscale visualization covering visualization of systems that vary several orders of magnitude, examples from material sciences, nanotechnology, and biology

5:00   Socialization of scenario plans

      Presentation of each group's plans (5 minutes each)

5:30   Adjourn for the day

Tuesday, June 3

8:30   Breakouts (each group with one or more scenarios)

11:30   Scenarios Status

      Presentation by each group (10 minutes each)

12:00   Working Lunch

12:45   Mid-course correction (as needed)

1:15   Breakouts

      Solidify and write-up scenarios

3:30   Scenario Discussion

      Presentation of scenarios (10 minutes each)

      Real-time aggregation of requirements (15 minutes)

4:45   Meeting wrap-up (John and Rick)

      Writing assignments

      Discussion of software agenda

      Forward-pointer to future meetings

5:30   Meeting adjourns

Breakout Rooms Montgomery – Group 1

      Gallery – Group 2

      New Jersey (third floor) – Group 3

      Pennsylvania (third floor) – Group 4

      Montgomery Room – Group 5