TACTICS AND TECHNOLOGY

A. The Civil War as a different sort of war

1. Scale: large armies and the logistical challenges presented
   i. Comparisons with British and French armies at Waterloo, 1815
   ii. Comparisons with British, French, and Russian forces during the Crimean War, 1854

2. Speed: the impact of railroads and telegraphy

3. Weaponry: rifles, breechloaders, and repeating rifles
   i. Artifact: U.S. Model 1863 Rifle Musket
   ii. Artifact: Sharps Model 1863 carbine
   iii. The Spencer rifle
   iv. Model 1851 Colt pistol

4. James H. Burton and the Minie ball

5. Northern and Southern arms making compared
   i. The Springfield Armory and mass production
   ii. The Sharps Rifle Company and Spencer Rifle Company
   iii. Colt and Remington
   iv. Col. Josiah Gorgas and the Richmond Armory
   v. The Fayetteville Armory
   vi. James H. Burton and the Macon Arsenal
   vii. Where did the South get its guns?

6. Tactical impact of new weapons
   i. Fredericksburg, Dec. 1862
   ii. Gettysburg, July 1863
   iii. Cold Harbor, June 1864

B. The Civil War and the origins of modern warfare: some observations and conclusions