	THEME	am	pm		
Mon June 15	Science-in- the-making	<ul> <li>Intro case study [demo] &amp; discussion</li> <li>review of existing case studies &amp; Discussion (listing favorable features &amp; caveats)</li> <li>Discussion: generate list of NOS features</li> <li>identify terms for "word stories" by historians</li> </ul>	<ul> <li>intro to library and online bibliographic resources</li> <li>consultations btwn teachers and historians on case studies</li> <li>research and writing</li> </ul>		
Tue June 16	Biographical Contexts	<ul> <li>Presentation: on personality, style and biographical origins of scientific discoveries</li> <li>Presentation 2 (by subject): updates on recent historical findings</li> <li>Discussion: Conner, A People's History of Science</li> </ul>	• research, writing and consultations btwn teachers and historians	<ul> <li>[text &amp; e-images] biographical sketch of scientists</li> <li>copy of original paper(s)</li> <li>flowchart I: map of discovery process, major evidence and other key factors</li> </ul>	
Wed June 17	Scientific Contexts	<ul> <li>Presentation (by subject): examples of lineages of questions</li> <li>Discussion (by subject): on chapter in general history of sci. field – how to probe/ "science-in-the-making"</li> <li>Presentation &amp; Discussion: ways to assess HPS knowledge in history and philosophy classes and in a high school context</li> </ul>	research, writing and consultations	[text & e-images] guiding student through history of scientific problem, orientation and component ideas, including occasions for engaging students in problem-solving or analysis     flowchart II: roots of discovery	
Thur June 18	Alternative Scientific Approaches	<ul> <li>Presentation 1: on role of debates, disagreement or other alternative conceptualizations</li> <li>Presentation 2 (by subject): historical examples of modern student preconceptions</li> </ul>	• SPSP conference session: characterizing nature of science in science education (philosophy-of-science "in- practice")	<ul> <li>[text &amp; e-images] on alternative interpretations of evidence, alternative methods or ideas, controversies, &amp;c.</li> <li>Opportunities for engaging students.</li> <li>[commentary for other teachers] notes on historical misconceptions and ways to remedy views</li> </ul>	

Plan of Discussion Topics & Activities (continued)							
Fri June 19	Cultural Contexts	<ul> <li>Presentation: on role of cultural context in shaping discovery; sources of funding; institutions; ideas &amp; metaphors</li> <li>Presentation 2: on gender, class and race in history of science</li> </ul>	<ul> <li>SPSP conference session: evaluating HPS knowledge</li> <li>consultations with historians and educators</li> </ul>		<ul> <li>[revised text &amp; e-images] on cultural factors, biographical context</li> <li>[text &amp; e-images] on sources of funding and of key problems, ideas and metaphors</li> </ul>		
Sat June 21	Historical Contexts / Teaching Strategies	<ul> <li>Presentation: on situating science in broader histories</li> <li>Discussion: review existing case studies (#2) for teaching strategies, opportunities &amp; limits</li> <li>SPSP conference session: TBA</li> </ul>	• research, writing, consultations	<ul> <li>[text &amp; e-images] on "News" for period of discovery/case study, including discoveries in other scientific fields, political events, and music &amp; artwork of the period</li> <li>[text &amp; e-images] on social influence of discovery/idea/work</li> <li>[text] more on special features of case study (for example, problems of persuasion, institutional power, translation)</li> <li>map of narrative or possible teaching trajectory</li> </ul>			
Sun June 20	Student Labwork	• Presentation: on role of instruments, expertise and experimental reasoning	writing, consultations		• [text] notes on adapting standard lab, OR sketch of new lab activity, w/ handouts		
Mon June 22	Review & Revise	• Teacher presentations I (by subject)	revisions, extensions of incomplete work		• framework for evaluating student HPS knowledge in case study [comments on other case studies]		
Tue June 23	Elaborate	<ul> <li>Discussion: methods for evaluating HPS knowledge in classroom context</li> <li>Discussion: sharing and using case studies</li> <li>prospects and problems</li> <li>Evaluation of workshop</li> </ul>			<ul> <li>revisions</li> <li>modern epilog (analagous case)</li> <li>prep for posting on internet, incl. additional resource links, web excursions</li> </ul>		