PEPPo Concept

Proof-of-principle, alike helical undulator & Compton backscattering
Olsen Maximon vs. Contemporary Calculations vs. data point
Contribution to the Geant4 code/community

CEBAF Injector

Precision polarized electron beam
Good diagnostics (spectrometer, Mott, position/current)
Space for PEPPo-sized apparatus
Good overlap between experiment & system ownership

Electron beam "spigot"

Reasonably straight-forward components, but need plan
Integrated design optics, dipole dispersion
Target – need to reconcile #/thickness of targets, tilted concept?

E166 Collection System

Target Solenoid - Seems OK plan, requires big power supply
Spectrometer – many unknowns (field map, jaws, apertures)

Diagnostics Line

Seems like good idea, but making life complicated or easier?
Really meant to help characterize setup w/ electron beam
Integrated positron annihilation counter (dedicated foil, vacuum window)

Compton transmission polarimeter

E166 analyzing magnet to ship soon, first component to be on-site
Riad's suggestion of a permanent magnet (in vacuum?)
Need assess how far reconversion foil can be from analyzing core
Detector at Grenoble – good progress, well developed plan/schedule
Need to integrate JLab/Grenoble design(ers)
Some concern over arrival date ~April; may/may not be issue…

Mott & DAQ based on FADC

Testing accelerator waters – data rates, CODA, etc.; good progress
System largely loaned, borrowed, some purchased components
New detectors ready, installed next break/down
Parasitic running during SAD to study analyzing power

Compton Transmission DAQ based on FADC

Thoughtful Plan A, B, C; need to determine what is required/liked
Critical system component – need more developed plan/strategy
Hardware punchlist, purchasing timeline – relatively expensive purchases
New FADC => new firmware needs/request
Old FADC => backup plan for polarimeter DAQ? (use old Mott DAQ)
Integration w/ other detectors, i.e, is Compton DAQ PEPPo DAQ?

Running CEBAF during shutdown

Installing PEPPo & running PEPPo are two different issues
No LCW until Sept. 15 => facilities investigating temp solution; show stopper
Temporary reconfiguration of beamline, PSS, radiation shielding => big job
Need to converge integrated design/layout for radiation/safety estimates
More realistic estimate of beam requirements during shutdown (pulsed/CW)
Segmentation plan needs review, goal: thumbs up/down ~Feb. 1
Resources (time, $) spent configuration/unconfiguring injector better spent?
Alternatives – plan A, B, C…

PEPPo Collaboration/Support/Arrangments

JLab/LPSC – long term R&D effort => PhD student
ILC e+ R&D funding => reporting to ILC working group
Interest by ILC working group to send post-doc ~6 months
Collaboration on DAQ – Alexandre, Dave, Chris
JLab/Idaho MOU for positron R&D – Tony (e+ counter), Yujong
JLab/DESY MOU for analyzing magnet, collaboration w/ Peter Schuler
JLab/SLAC-Princeton MOU for collection magnets
Collaborators a INJR-BLTP, Kharkov, CEA?
Overlap with LAL/SuperB
New interest by Bogdan/Serkan & Paul/Hampton U. ?
JSA travel support
JLab/SLAC-Princeton MOU for collection magnets TBD

Organization/Planning

Setup some infrastructure to help manage information, results
Begin weekly status meetings
Develop & integrate activities for experiment review by ~Feb. 1