

# PSEC Collaboration Meeting Agenda

Thursday and Friday, June 10 and 11, 2010: Argonne National Laboratory  
2nd Floor Conference Room (TBC); Bldg. 360

Version 1.0  
May 20, 2010

## Thursday, June 11, 2010 8:30 am

### Welcome and Introduction

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8:30 - 8:35	Welcome	Harry Weerts, Director, HEPD (ANL)
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### Session 1: Photocathodes

 Gary Varner, Chair

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8:40 - 9:05	Overview of Photocathode Physics and Plans	Klaus Attenkoffer (ANL) (TBC)
9:10 - 9:25	Status of Bi-alkali Photo-cathode Facilities at SSL	Sharon Jelinsky (SSL) (TBC)
9:30 - 9:45	The ANL Growth and Characterization Facility	Kathleen Boughton (UIC) (TBC)
9:50 - 10:05	PC-Substrate Interface and Wavelength Shifting in III-V PC's	Jim Buckley (Wash U) (TBC)
10:10 - 10:25	Transfer III-V and Light-Amplification Photocathodes	Ryan Dowdy (UIUC) (TBC)
10:30 - 10:45	Other Photocathode Ideas	Mike Pellin (ANL) (TBC)
10:50 - 11:05	<b>Coffee</b>	

### Session 2: Material Characterization

 Neal Sullivan Chair (TBC)

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11:10 - 11:25	Comparison and Discussion of SEE Materials-Theory	Zeke Insepov (ANL) (TBC)
11:30 - 11:45	Comparison and Discussion of SEE Materials-Experiment	Slade Jokela (ANL) (TBC)
11:50 - 12:15	Plans for the Characterization Program at ANL	Igor Veryovkin (ANL) (TBC)
12:20 - 1:10	<b>Lunch</b> (Sandwiches brought in)	

### Session 3: Functionalizing MCP's with ALD: Amplification

 Anton Tremsin, Chair

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1:15 - 1:30	ALD and MCP's at Arradance	Neal Sullivan (TBC)
1:35 - 1:50	Resistance Reproducibility and Thermal Coefficient of ALD at ANL	Anil Mane (ANL) (TBC)
1:55 - 2:10	Discrete Dynode Structures Using ALD for MCP's	Qing Peng (ANL) (TBC)
2:15 - 2:35	Facilities and Program for Coating 8" Plates	Jeff Elam (ANL) (TBC)
2:40 - 2:55	<b>Coffee</b>	

### Session 4: Testing and Measurements

 Bernard Adams, Chair

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3:00 - 3:25	ALD-MCP Test Results (SSL)	Oswald Siegmund (SSL) (TBC)
3:30 - 3:55	ALD-MCP Test Results (ANL)	Matt Wetstein (ANL/UC) (TBC)
4:00 - 4:25	Simulation Results on the LAPPD Baseline Stack	Valentin Ivanov (Muons,Inc) (TBC)
4:30 - 4:45	New Test Facilities and Test Program at ANL	Matthieu Chollet (ANL) (TBC)
4:50 - 5:05	New Test Facilities and Test Program at SSL	Sharon Jelinsky (TBC)
5:10 - 6:15	Tours of ALD, Characterization, APS, and ANL Facilities	TBD (Anil, Matt, Seon Woo, Lade Qing)
7:00 - 9:00	<b>Dinner in Chinatown</b> (20-25 min away on I55)	TBD

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(OVER for Friday's agenda)

# Friday, June 11, 2010 8:30 am

## Session 5: Mechanical Design and Sealed Tube Construction Karen Byrum, Chair

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8:30 - 8:50	The Ceramic MCP-PMT Design and Status	Jason McPhate (SSL) (TBC)
8:55 - 9:15	Inside-Out and Look-Ma No Hands: Glass Tiles and Trays	Rich Northrop (UC) (TBC)
9:20 - 9:35	Glass-to-Glass Bottom Seal	Joe Gergas (ANL) (TBC)
9:40 - 9:55	Low-temperature Top Seals	Alcides Raraz/Ernesto Indacochea (UIC) (TBC)
10:00 - 10:15	Component Outgassing Test Results and Getter Specs	Dean Walters (ANL) (TBC)
10:20 - 10:35	<b>Coffee</b>	

## Session 6: Micro-channel Plate Substrates Bob Wagner, Chair

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10:35 - 10:50	Delivery schedule of 33mm and 8" Incom Glass Substrates	Michael Minot (Incom)-TBC
10:55 - 11:10	AAO MCP Substrate Development at ANL	Seon Woo Lee (ANL) (TBC)
11:15 - 11:30	AAO MCP Substrate Development at Synkera	Dmitri Routkevitch (Synkera) (TBC)
11:35 - 12:15	Ideas on Making Funnels for Opaque PC's on Glass: Panel Discussion	Gregar, Lee, Mane, Minot, Pellin (TBC)- 5+2 each
12:20 - 1:00	<b>Lunch</b> – Sandwiches Brought In	

## Session 7: Electronics and DAQ Zikri Yusof, Chair

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1:00 - 1:15	The 4-channel 0.13-micron Psec-2 Sampling ASIC	Eric Oberla/Herve Grabas (UC) (TBC)
1:20 - 1:35	Gigabit Fiber Transceiver Data Collection and Processing	Matt Andrew (Hawaii) (TBC)
1:40 - 1:55	Design Building Blocks in the Psec-3 (CHAMP) ASIC	Mike Cooney(Hawaii) (TBC)
2:00 - 2:15	MCP Signal-Extraction and Timing Studies	Kurtis Nishimura (Hawaii) (TBC)
2:20 - 2:35	BLAB3 ASIC and Hawaii testing plans	Gary Varner (Hawaii) (TBC)
2:40 - 2:55	The Chicago Half of Psec-3	Herve Grabas/Eric Oberla (UC) (TBC)
3:00 - 3:15	<b>Coffee</b>	

## Session 8: Integration Klaus Attenkofer, Chair

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3:15 - 3:30	Integration of Front-end Electronics with the Glass Detector	Herve Grabas (UC) (TBC)
3:35 - 3:50	Integration of Front-end Electronics with the Ceramic Detector	TBD (SSL/UCB) (TBC)
3:55 - 4:10	Tray Factory Considerations	Jean-Francois Genat (UC) (TBC)
4:15 - 4:30	Tile Factory Considerations	Ed Daniels (ANL) (TBC)
4:35 - 4:50	Ceramic MCP Assembly Considerations	O. H. W. Siegmund (SSL/UCB) (TBC)

## Session 9: New Thoughts Or New Results On Applications Mike Pellin, Chair

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4:55 - 5:10	Reconstruction in Water Cherenkov Neutrino Detectors	Matt Wetstein (ANL/UC) (TBC)
5:15 - 5:30	Fast X-Ray Detectors For the APS and Elsewhere	Bernhard Adams(ANL) (TBC)
5:35 - 5:50	Sampling Large-Area Detectors for Positron-Emission Tomography	Heejong Kim (UC) (TBC)

## Session 10: Summary Henry Frisch, Chair

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5:55 - 6:10	Year 2 Milestones: Group Discussion	All
6:10	End of Collaboration Meeting	

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