

**LAPPD2 Theory-Based
Photocathode Godparent
Review**

Report of Contributions

Contribution ID: 0

Type: **not specified**

Welcome, Context & Charge

Saturday, 6 April 2013 13:00 (15 minutes)

Session Classification: Welcome & Introduction

Contribution ID: 1

Type: **not specified**

Overview: Limiting Factors and Promising Areas

Saturday, 6 April 2013 13:20 (25 minutes)

Presenter: ATTENKOFER, Klaus (Brookhaven)

Session Classification: High QE Cathode Development

Contribution ID: 2

Type: **not specified**

Bialkali Chemistry & Stoichiometry

Saturday, 6 April 2013 13:50 (20 minutes)

Presenter: ATTENKOFER, Klaus (Brookhaven)

Session Classification: High QE Cathode Development

Contribution ID: 3

Type: **not specified**

X-ray Diffraction & Other Measurements

Saturday, 6 April 2013 14:15 (20 minutes)

Presenter: SMEDLEY, John (Brookhaven)

Session Classification: High QE Cathode Development

Contribution ID: 4

Type: **not specified**

Computational Methods for Cathode Design

Saturday, 6 April 2013 14:40 (25 minutes)

Presenters: NEMETH, Karoly (IIT); HARKAY, Kathy (Argonne ASD)

Session Classification: High QE Cathode Development

Contribution ID: 5

Type: **not specified**

Emittance, Noise, QE Considerations: Making a List

Saturday, 6 April 2013 15:25 (20 minutes)

Presenter: DISCUSSION: VARNER AND HARKAY (LEADERS)

Session Classification: High QE Cathode Development

Contribution ID: 6

Type: **not specified**

Sb Deposition & Cleaning by ALD

Saturday, 6 April 2013 16:05 (15 minutes)

Presenter: XIE, Junqi (Argonne HEPD)

Session Classification: New Methods of Making Photocathodes: Cheaper, Faster, or More Robust

Contribution ID: 7

Type: **not specified**

External Alkali Introduction

Saturday, 6 April 2013 16:25 (15 minutes)

Presenters: WETSTEIN, Matt (UChicago); OBAID, Razib (IIT)

Session Classification: New Methods of Making Photocathodes: Cheaper, Faster, or More Robust

Contribution ID: 8

Type: **not specified**

ALD-based Cathodes

Saturday, 6 April 2013 16:45 (15 minutes)

Presenter: MANE, Anil (Argonne ESD)

Session Classification: New Methods of Making Photocathodes: Cheaper, Faster, or More Robust

Contribution ID: 9

Type: **not specified**

III-V Cathodes & Sealing

Saturday, 6 April 2013 17:05 (15 minutes)

Presenter: BUCKLEY, Jim (Washington Univ.)

Session Classification: New Methods of Making Photocathodes: Cheaper, Faster, or More Robust

Contribution ID: **10**

Type: **not specified**

Plasmonic Photo-Cathodes

Saturday, 6 April 2013 15:05 (15 minutes)

Plasmonic arrays of Ag and Al nanoparticles can dramatically enhance the absorbance of any photocathode material making the photocathode more efficient and broadening the range of photocathode materials available for the designer.

Presenter: PELLIN, Mike (Argonne MSD)

Session Classification: High QE Cathode Development

Contribution ID: 11

Type: **not specified**

Questions to Be Decided & Drafting of Recommendations

Saturday, 6 April 2013 17:25 (30 minutes)

What Material Resources & Funding Are Needed?

What Expertise Is Needed?

What's the Plan for the Next 6 Months

Presenter: COMMITTEE & PROPONENTS

Session Classification: New Methods of Making Photocathodes: Cheaper, Faster, or More Robust