

Photocathode Physics for Photoinjectors (P3)

October 15-17, 2018

Santa Fe, New Mexico

Hilton Buffalo Thunder Resort

Welcome to P3 2018



Organizing Committee

Ivan Bazarov (Cornell University)

Luca Cultrera (Cornell University)

David Dowell (SLAC National Accelerator Laboratory)

Daniele Filippetto (Lawrence Berkeley National Laboratory)

Fay Hannon (Thomas Jefferson National Accelerator Facility)

Carlos Hernandez Garcia (Thomas Jefferson National Accelerator Facility)

Kevin Jensen (Naval Research Laboratory)

Siddharth Karkare (Arizona State University)

John Lewellen (Los Alamos National Laboratory)

Nathan Moody (Los Alamos National Laboratory)

Pietro Musumeci (UCLA)

Howard Padmore (Lawrence Berkeley National Laboratory)

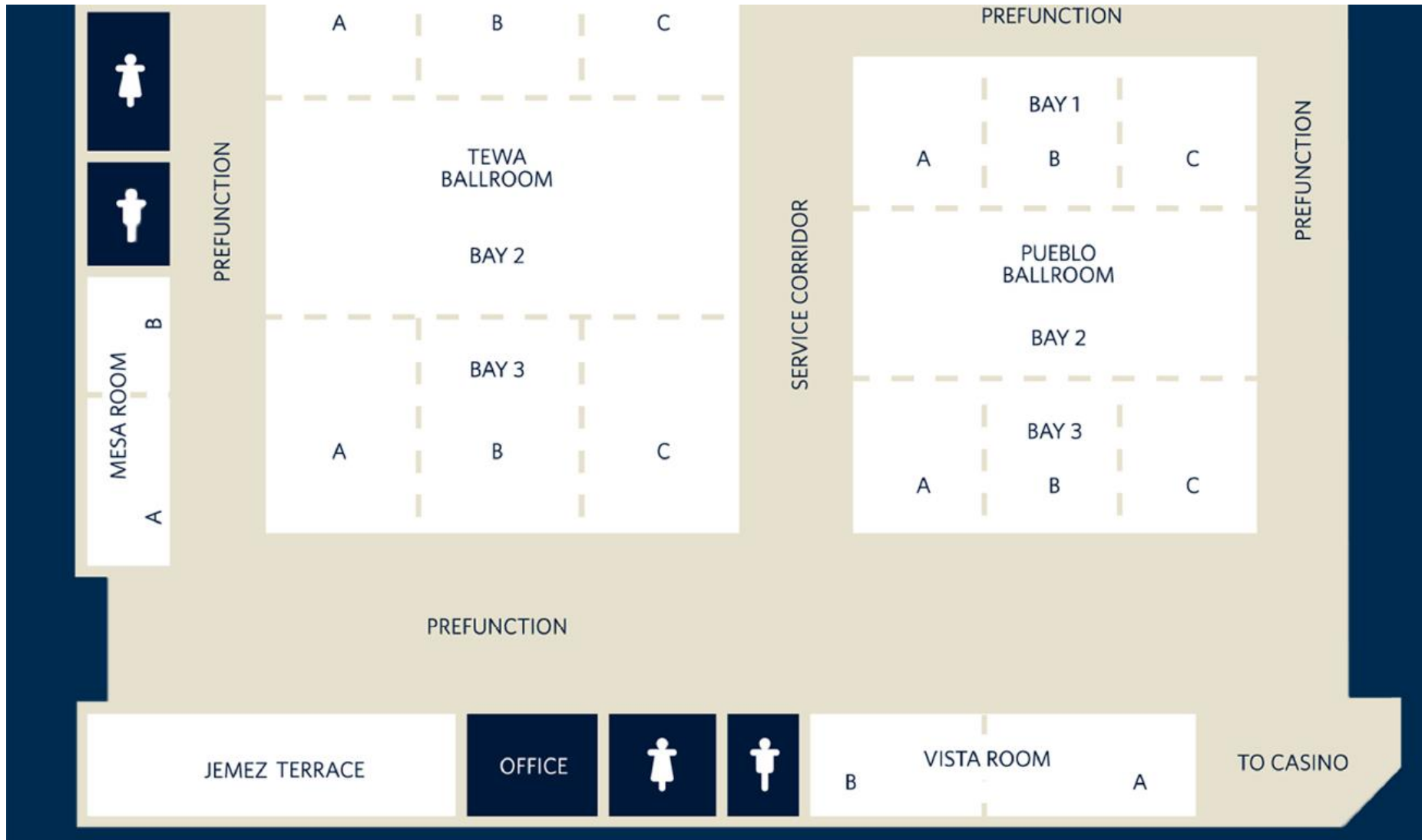
John Smedley (Brookhaven National Laboratory)

Theo Vecchione (SLAC National Accelerator Laboratory)



Operated by Los Alamos National Security, LLC for the U.S. Department of Energy's NNSA

Meeting Facility: Exits and Restrooms



**To explore the current state of the art in
accelerator photocathodes, from both a
theoretical and a materials science perspective.
We aim to establish directions for future research
and identify opportunities for collaboration
within the community.**

Scientific Program: Application Focus

Session 1: Welcome and Overview

Session 2: Application Oriented Research: Low Average Current

Session 3: Application Oriented Research: FEL

Session 4: Application Oriented Research: Spin Polarized Sources

Session 5: Application Oriented Research: High Average Current

Session 6: Application Oriented Research: Cathode Design

Session 7: Operations and Demonstrations: Normal conducting

Session 8: Operations and Demonstrations - Superconducting & DC

Session 9: Theory and Computation

Session 10: Theory and Computation - continued

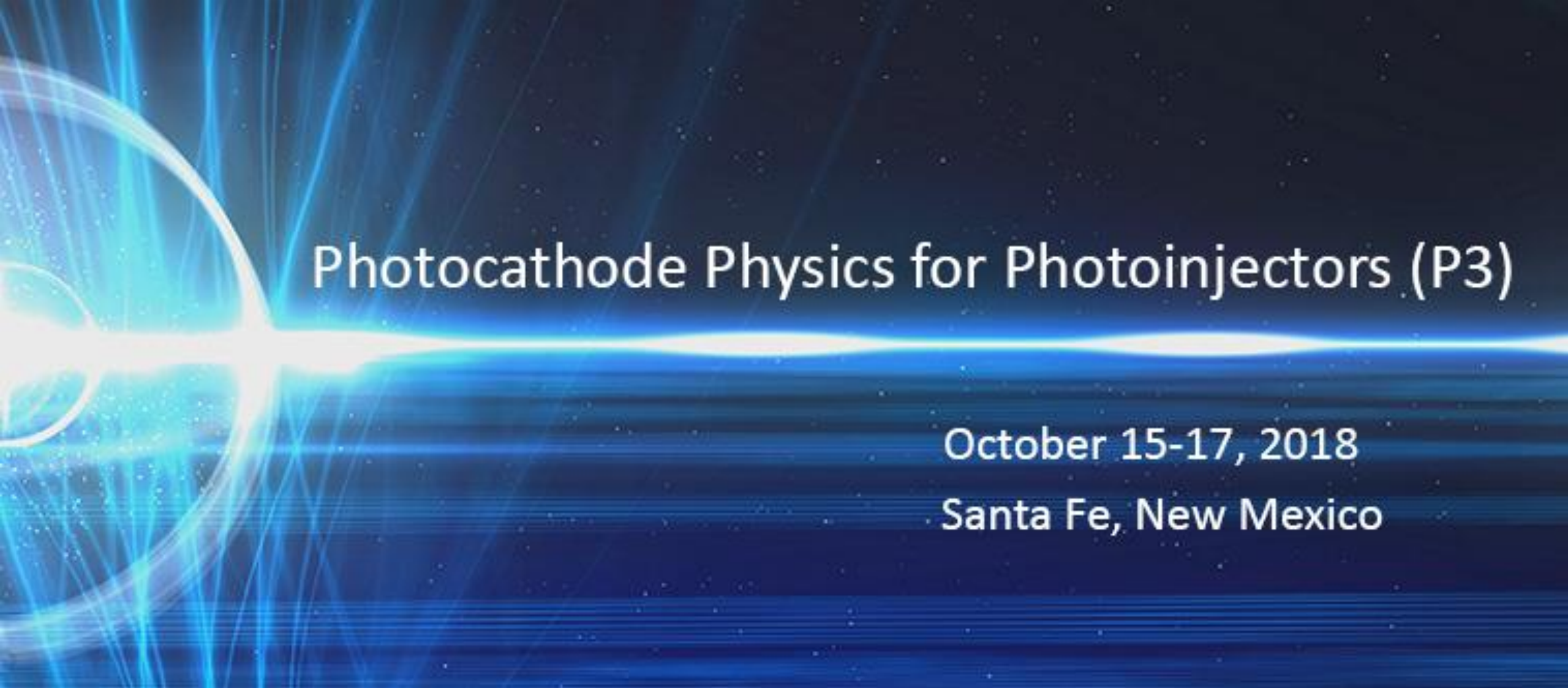
Session 11: Novel Research and Applications

Session 12: Novel Research and Applications (and concluding discussion)

- Review of requirements is provided within each session.
- Workshop materials located at: <https://indico.cern.ch/event/759878/>
 - 82 total contributions
 - 14 posters
 - 68 talks

General Workshop Information

- **Please wear your workshop nametag to sessions and events**
- **Poster and Networking session: Monday October 15 @ 18:30 – 20:45**
- **Catered dinner and evening presentation: Tuesday October 16 @ 18:30 – 21:00**
 - Dr. Alan Carr, LANL historian
 - Group photo during dinner
- **Wifi password in conference rooms: “P32018”**
- **Presentations will remain available on Indico unless otherwise specified**



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P3 Announcements: Tuesday October 16

- **Working lunch topic: “Understanding challenges in photocathode funding”**
 - Motivating questions:
 - Do the large user facilities need our photocathode R&D solutions? How close to success/failure are they without us?
 - Do we have a marketing / image problem we need to resolve?
 - Can we identify 3-5 (each) near-term and long-term actions we can take?
 - **Time: 13:00 – 14:00**
 - Logistics: Per diem hotel food item
 - Outcome: An action plan (of some sort)

- **Catered evening dinner: Dr. Alan Carr, LANL Historian**
 - Room change: Pueblo 2 meeting room