

An Invitation

We welcome your participation in an Open Annual Review of the
Cathode and Breakdown Nanophysics MURI04 Program

Central Consortium

University of Wisconsin
Massachusetts Institute of Technology
Texas Tech University
University of California-Berkeley
University of Michigan
University of Nevada-Reno
University of Nevada-Las Vegas
University of New Mexico

Western Consortium

University of California-Davis
Naval Post Graduate School
Stanford University
University of Southern California



managed by:

Dr. Robert J. Barker, Program Manager
AFOSR

Presentations will be given describing highlights of recent basic research in the following four areas critical to High Power Microwave technology:

Field Emission Cathodes
High Current Density Thermionic Cathodes
Vacuum RF Breakdown
Dielectric Window RF Breakdown in Air

Monday, 18 June, 2007

1:00 pm – 4:30 pm

Albuquerque Hyatt Regency Hotel

Room: Enchantment A-D, Foyer 1

330 Tijeras Ave NW, Albuquerque, NM 87102

(Diagonally—SW—across the street from the Convention Center)

AGENDA

(Moderator: *R. Barker, AFOSR*)

- 1:00 – 1:30** Introduction and Overview of Program, *R. Barker*
- 1:30 – 2:00** Cold Electron Emission Processes, *J. Booske*
- 2:00 – 2:10** Discussion
- 2:10 – 2:40** High Current Density Thermionic Cathodes, *N. Luhmann*
- 2:40 – 2:50** Discussion
- 2:50 – 3:20** Air RF Breakdown, *J. Verboncoeur*
- 3:20 – 3:30** Discussion
- 3:30 – 4:00** Vacuum RF Breakdown, *G. Caryotakis*
- 4:00 – 4:30** Discussion and Closing Remarks, *R. Barker*