

ICOPS 2017 Mini-course

Charged Particle Beams and High Powered Pulsed Sources

May 25, 2017 from 1:30 pm to May 26, 2017 to 3:30 pm

Harrah's Resort AC, Atlantic City, New Jersey, USA

Room: Wildwood 6

Thursday, May 25

1:30 pm-1:45 pm

Introduction

Arati Dasgupta (NRL):

1:45 pm-2:45 pm

An Introduction To The Physics And Applications
Of Electron Sources

Kevin Jensen (NRL)

2:45 pm-3:45 pm

Intense Charged Particle Beam Physics And
Applications

Bryan Oliver (SNL)

3:45-4:00 pm (break with snacks)

4:00 pm-5:00 pm

Linear Transform Drivers: Compact Pulsed-
Power Technology for High Energy Density
Experiments

Ryan McBride (University of Michigan)

5:00 pm-6:00 pm

Vacuum Surface Flashover

John Harris (AFRL)

6:30-9:00 pm (dinner)

Friday, May 26

7:30-8:30 am (breakfast)

8:30-9:30 am

High-power Electron Beam Diodes

Jacob Zier (NRL)

9:30-10:30 am

Configuring The Dense Plasma Focus To
Maximize Ion Beams And Neutron Yield

Andrea Schmidt (LLNL)

10:30-10:45 am (break with snacks)

10:45 am-11:45 am

Theory And Modeling Of Ultrafast And
Nanoscale Interfacial Electron Transport

Peng Zhang (Michigan State University)

11:45 am-1:00 pm (lunch break)

1:00 pm-2:00 pm

Introduction To Multipactor Discharge

Rami Kishek (University of Maryland)

2:00 pm-3:00 pm

X-ray Free Electron Lasers (XFEL)

Bruce Carlsten (LANL)

3:00 pm-3:30 pm (break with snacks)

Closing Comments and end of mini-course

Arati Dasgupta (NRL)