

Research experience for undergraduates

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## LEPP PROJECT LIST

- IN-SITU MODELING OF THE ERL INJECTOR** Ivan Bazarov, ERL; Michael Rosenman, Carnegie Mellon
- STUDY OF INTERCEPTIVE EMITTANCE DIAGNOSTICS** Ivan Bazarov, ERL; Colwyn Gulliford, New College of Florida
- INT'L LINEAR COLL TIME PROJECTION CHAMBER STUDIES** Dan Peterson, CLEO/CMS/ILC; James Inman, Radford College
- CESRc AS AN ILC DAMPING RING PROTOTYPE** Mark Palmer, CESR; James Shanks, Michigan State University
- CESR/ILC DAMPING RING INSTRUMENTATION** Mark Palmer, CESR; Joseph Burrell, Wayne State University
- COHERENT SYNCHROTRON RADIATION** Georg Hoffstaetter, ERL; Adra Carr, University of Arizona
- CHARACTERIZATION AND OPTIMIZATION OF CESR LATTICE DESIGN** James Crittenden CESR; Adam Bentitou, Indiana University
- DESIGN OPTIMIZATION OF A HOM BROADBAND ABSORBER FOR THE CORNELL ERL** Matthias Liepe and Valery Shemelín, SRF; Elise Novitski, Yale University
- DESIGN OF A MULTICELL SUPERCONDUCTING CAVITY FOR THE CORNELL ERL MAIN LINAC** Matthias Liepe, SRF; Michael Antosh, University of New Hampshire
- EXPLORATION OF LARGE CRYSTAL AND SINGLE CRYSTAL NIOBIUM MATERIAL** Rongli Geng, SRF; Randall Cates, Wayne State University
- CMS EVENT SIMULATION** Julia Thom, CDF/CMS; Nicole Larsen, Georgia Tech University
- CMS HARDWARE CALIBRATION** Anders Ryd, CLEO/CMS; Benjamin Kreis, Case Western Reserve University
- Muon Decay as a Teaching Tool** Jim Alexander, CLEO/CMS; Hui-Yiling Chang, Wayne State University
- MUON COOLING VIA IONIZATION AND TESTS OF MUON ACCELERATING STRUCTURES** Don Hartill, CLEO/CESR/SRF; Andrea Forget, Wayne State University
- STORAGE RING TRAJECTORY ANALYSIS** Mike Billing and Mike Forster, CESR; Derek DeMarco, Wayne State University
- UNDERSTANDING PHOTONS IN THE CLEOC DETECTOR** David Cinabro and Mikhail Dubrovin, WSU/CLEO; McKenzie Smith, Wayne State University



# REU '06

## SCHEDULE OF EVENTS

- JUNE 12**  
SRF Tour (Liepe) – 311 Newman, 12:30-2pm
- JUNE 13**  
ERL (Sinclair) – 374 Wilson, 10:30am-12pm
- JUNE 19–21**  
Student Presentations (Mon-Wed) – 311 Newman, 3-4:30pm
- JUNE 24**  
Trip to New York City (Saturday) (Tickets required)
- JUNE 27**  
ILC (Gibbons) – 311 Newman, 1-1:30pm
- JUNE 29**  
Graduate Panel Lunch – 700 Clark, 12-2pm
- JULY 5**  
Fun Talks – 700 Clark, 11am-1:30pm
- JULY 6**  
CHESS (Bilderback/Fontes) – 301 Wilson, 2-3pm
- JULY 12**  
CNF REU Dinner – Sciencenter, 6pm
- JULY 13**  
Theoretical Underpinnings and Prospects (Perelstein) – 311 Newman, 10:30-11:30am
- JULY 14**  
LEPP Picnic! – 3:30-8pm
- JULY 15**  
Trip to Niagara Falls (Tickets required)
- JULY 20**  
Fun Talk – 700 Clark, 12-1pm
- JULY 25**  
Future Accelerator Facilities (Tigner) – 311 Newman, 9-10:30am
- JULY 27**  
Fun Talk – 700 Clark, 12-1pm
- AUGUST 2**  
CCMR REU Dinner – Location tba, 6pm
- AUGUST 3**  
Fun Talk – 700 Clark, 12-1pm
- AUGUST 7–11**  
Student Presentations (Mon-Fri) – 311 Newman, 1-3pm
- AUGUST 12**  
Check out – by 10am

CORNELL UNIVERSITY'S LABORATORY FOR ELEMENTARY-PARTICLE PHYSICS (LEPP)

For additional information, visit: [www.lepp.cornell.edu/public/reu/2006/](http://www.lepp.cornell.edu/public/reu/2006/)