

# Program for FPCP 2002

## Wednesday Evening May 15th

### Reception for Registration

6:00-8:00 Bodek Lounge, Houston Hall, Penn Campus (Light Refreshments)

## Thursday Morning May 16th Logan Hall Room 17 (center of campus)

8:00-8:25 Pastries, coffee, and tea

8:30-8:40 Welcome – N. Lockyer (Penn)

8:40-8:45 Conference Proceedings – R. Oldeman (Penn)

8:45-8:55 Introduction – A. I. Sanda (Nagoya) and K. Schubert (Dresden)

### **Present status of CKM parameters [35 min]**

Session Chair: S. Smith (Princeton)

9:00-9:25 An experimentalist's review of the CKM parameters – A. Hoecker (LAL-Orsay) [25 min]

### **Indirect CP violation [160 min]**

9:35-9:55  $\sin 2\beta$  from BABAR – S. Rahatlou (UCSD) [20 min]

10:00-10:25 *Break (beverages provided)*

10:30-10:50  $\sin 2\phi_1$  from BELLE – M. Hazumi (KEK) [20 min]

10:55-11:10 Theory: New physics in  $B \rightarrow J/\Psi K^*$  – R. Sinha (Madras) [15 min]

11:15-11:30 Theory: New physics in  $B \rightarrow J/\Psi K^*$  – T. Mannel (Karlsruhe) [15 min]

11:35-1:50 *Break for Lunch (not provided)*

# Thursday Afternoon May 16th

## Logan Hall Room 17

Session Chair: A. I. Sanda (Nagoya)

2:00-2:20  $\sin 2\phi_2$  from BELLE – E. Won (Seoul) [20 min]

2:25-2:45  $\sin 2\alpha$  from BABAR – P. Dauncey (Imperial College) [20 min]

2:50-3:05 Theory: Penguin pollution in  $B \rightarrow \pi\pi$  – N. Sinha (Madras) [15 min]

### **Recent results in theories of hadronic B decay [80 min]**

Recent results from the theories of hadronic B decays:

3:10-3:25 QCD factorization – M. Beneke (Aachen) [15 min]

3:30-3:45 Charming penguins – M. Ciuchini (Rome) [15 min]

3:50-4:10 *Break (beverages provided)*

Session Chair: G. Bonneaud (Paris)

4:15-4:30 PQCD – H. N. Li (National Taiwan University) [15 min]

4:35-4:50 Soft-collinear effective theory (SCET) – I. Stewart (Washington) [15 min]

### **Experimental Results from the Tevatron and LEP [75 min]**

4:55-5:15 Status of CDF – R. Hughes (Ohio State) [20 min]

5:20-5:40 Status of D0 – R. Van Kooten (Indiana) [20 min]

5:45-6:05 New results on  $B_s$  mixing from LEP – S. Armstrong (CERN) [20 min]

### **Evening Entertainment in Amado Recital Hall Irvine Auditorium**

8:00-8:30 Reception (beverages provided)

8:30-10:00 Musical Trio: Time 4 Three (Curtis Institute)

# Friday Morning May 17th

## Logan Hall Room 17

8:00-8:25 Pastries, coffee, and tea

Session Chair: V. Luth (SLAC)

8:30-8:55 Cosmology – A. Kusenko (UCLA/BNL) [25 min]

### **Branching Ratios and Direct CP Violation [60 min]**

9:00-9:25 Review of BR and DCPV results for Quasi 2-body – A. Bondar (BINP) [25 min])

9:30-9:55 Review of rare two-body B decays (e.g.,  $K\pi$ ) – R. Bartoldus (Iowa) [25 min]

### **Theory: New ideas about CP in B decays and CKM determination [40 min]**

10:00-10:15 New methods for getting at  $\alpha$  and  $\gamma$  – D. Atwood (Iowa State) [15 min]

10:20-10:35 New method for measuring  $\alpha$  using  $B \rightarrow K^* \bar{K}^*$  D. London (Montreal) [15 min]

10:40-11:10 *Break (beverages provided)*

### **Recent Hot Results from B Factories [80 min]**

Session Chair: K. Schubert (Dresden)

11:15-11:30 BABAR New results on rare charmless decays:  $B \rightarrow \eta'(K, K^*)$  and  $B \rightarrow h^+ h^- h^+$  – V. Shelkov (LBNL) [15 min]

11:35-11:50 BABAR New results on rare leptonic B decays – V. Halyo (SLAC) [15 min]

11:55-12:10 BELLE  $B \rightarrow K h h$  – A. Garmash (KEK) [15 min]

12:15-12:30 BELLE  $B \rightarrow \omega K$   $B \rightarrow \eta' K$  – K. F. Chen (NTU) [15 min]

12:30-1:50 *Break for Lunch (not provided)*

# Friday Afternoon May 17th

## Logan Hall Room 17

### Charm Physics I [110 min]

Session Chair: J. Appel (FNAL)

2:00-2:25 Theory: Review of charm physics – G. Burdman (LBNL) [25 min]

2:30-2:45 Charm Lifetimes and  $D^0\overline{D}^0$  Mixing – P. Pakhlov (ITEP) [15 min]

2:50-3:05 Spectroscopy from Heavy Flavor Decay – I. Bediaga (Brazil) [15 min]

3:10-3:25 Charm Baryons – J. Yelton (Florida) [15 min]

3:30-3:45 New Results on Rare Charm Decays – W. Johns (Vanderbilt) [15 min]

3:50-4:25 *Break (beverages provided)*

### Future Experiments in Heavy Flavor Physics [80 min]

Session Chair: M. Artuso (Syracuse)

4:30-4:45 CLEO-c – I. Shipsey (Purdue) [15 min]

4:50-5:05 LHCb – G. Carboni (Rome 2) [15 min]

5:10-5:25 BTeV – J. C. Wang (Syracuse) [15 min]

5:30-5:45 Super  $B$  Factory – D. Hitlin (Caltech) [15 min]

### Banquet at University Museum

6:00-7:00 Reception

7:00-10:30 Banquet (After dinner speaker: Anthropologist Professor Alan Mann)

# Saturday Morning May 18th

## Logan Hall Room 17

8:00-8:25 Pastries, coffee and tea

### Neutrino and Kaon Physics [70 min]

Session Chair: K. Abe (KEK)

8:30-9:00  $CP$  violation in the neutrino sector – B. Kayser (Fermilab) [30 min]

9:05-9:35 Kaon Physics – D. Bryman (British Columbia) [30 min]

9:40-10:20 *Break (beverages provided)*

### Theoretical Developments in $V_{cb}$ and $V_{ub}$ [50 min]

Session Chair: S. Olsen (Hawaii)

10:25-10:40  $\mathcal{F}(1)$  from lattice QCD – A. Kronfeld (Fermilab) [15 min]

10:45-11:10 Theory for  $V_{ub}$  determination – M. Luke (Toronto) [25 min]

### B Decays [80 min]

11:15-11:35 Open Charm decays ( $B \rightarrow D\bar{D}, D^*D$  etc.) mini summary – Y. Kolomen-sky (Berkeley/LBNL) [20 min]

11:40-12:00  $B \rightarrow$  Charmonium mini summary – F. Fang (Hawaii) [20 min]

12:05-12:30  $V_{ub}, V_{cb}$  from semileptonic decays mini summary – K. Ecklund (Cornell) [25 min]

12:30-1:50 *Break for Lunch (not provided)*

# Saturday Afternoon May 18th

## Logan Hall Room 17

### Radiative B Decays [85 min]

Session Chair: G. W. S. Hou (NTU)

2:00-2:20  $b \rightarrow s\gamma$  and  $b \rightarrow d\gamma$  mini review – E. Thorndike (Rochester) [20 min]

2:25-2:40  $B \rightarrow Kl^+l^-$  from BELLE – K. Senyo (Nagoya) [15 min]

2:45-3:00  $B \rightarrow Kl^+l^-$  from BABAR – J Walsh (Pisa) [15 min]

3:05-3:20 Theory: New Physics with  $b \rightarrow s\gamma$  decays – D. Pirjol (UCSD) [15 min]

3:25-4:00 *Break (beverages provided)*

### Charm Physics II [60 min]

Session Chair: H. Jawahery (Maryland)

4:00-4:15 Review of CP in D Decays – M. Selen (Illinois) [15 min]

4:20-4:35 Semileptonic Charm Decays – J. Wiss (Illinois) [15 min]

4:40-4:55 Theory:  $D^0$ - $\overline{D}^0$  mixing – A. Petrov (Wayne State) [15 min]

### Conference Summary and Adieu [55 min]

5:00-5:40 Conference Summary – R. Patterson (Cornell) [40 min]

5:45-5:55 FPCP 2003 in Paris – G. Bonneaud (Paris) [10 min]

## End of Conference

## Sunday May 19th

10:30-3:30 Barnes Foundation (Timed tickets provided to those that have registered)