# PIC++ Workshop Agenda, March 3-5, 1993

08:30 each day coffee and munchies in room 203, Clark Kerr Campus Center, U.C., Berkeley

Wednesday, March 3

| | | |
|---|---|---|
| 09:00 | Bob Barker | Opening remarks. |
| | Ned Birdsall | West coast introduction (10 min.). |
| | Ron Ashany | East coast introduction (10 min). |
| | Bruce Langdon | Eclectic quadrilateral mesh electromagnetics. |
| | John Verboncoeur | A quadrilateral mesh electromagnetic field solve in cylindrical (z-r) coordinates. |
| | Tom Gladd | Issues in the design of classes for C++: field solver, parameters and boundaries. |
| 12:00 | lunch | |
| 13:30 | Bill Peter | A gridding method for object oriented PIC codes. |
| | James Acquah | Developing the graphical user interfaces for building simulations and interacting with tools for object oriented PIC codes. |
| | Dave Rine | Developing the C++ reuse repository for object-oriented PIC codes. |
| | Ron Ashany | Credibility of simulation results. |
| 17:30 | Bill Peter | Summary highlights of day 1. |

Thursday, March 4

| | | |
|---|---|---|
| 09:00 | Ned Birdsall | How an analyst or experimentalist might use PIC++ for design purposes and for understanding of existing microwave tubes. |
| | Moe Arman, Les Bowers, Pat Helles and John Wagner | We would like to hear from you on: Experimentalist/computational physicists' point of view on device modeling and user interface features and priority for implementation. |
| | Ned Birdsall | Contrasts between typical microwave tube simulations and typical plasma simulations. (includes XIBC demonstration) |
| 12:00 | lunch | |
| 13:30 | Moderators: Tom Gladd and Ron Ashany | Objectives and Planning: first year and beyond.<br>Physics-GUI message interface, prescription for code integration. |
| | open discussions | Short Topics: |
| | Vahid Vahedi and Payam Mirrashidi | 1. Particle weighting issues in cylindrical coordinates. |
| | Ned Birdsall | 2. Short courses for GMU/FMT/AFOSR/Phillips on the basic physics of microwave tubes (for profs, students, research staff): do we need these? |
| | | 3. Computer science issues? |
| 17:30 | done | |
| 19:00 | dinner | |

Friday, March 5

| | | |
|---|---|---|
| 09:00 | Moderators: John Verboncoeur and James Acquah | First year final plan.<br>Second year tentative plan.<br>Third year tentative plan. |
| | | Amendments |
| | Bob Barker | Concluding remarks. |
| 12:00 | lunch | |
| 13:30+ | optional | Plasma Theory and Simulation Group open house 199MD and 199ME Cory Hall |
| 17:00 | Ned Birdsall host | beer and pizza at LaVal's (on Euclid near Hearst) |