Physics Department Retreat 2004

(Confirm attendance with Rebecca Savage by 5/7/04, and sign up for a presentation slot!)

When and Where: Wednesday May 12th, 2004, 8.00 am - 4.00 pm, Lake Wheeler State Park Conference Center (Park Headquarters)

Who: All faculty, EPA personnel with teaching duties, GPSA president (or designate), SPA personnel welcome to observe for the morning session, and lunch, if interested

Directions: From campus, take Centennial Parkway to Lake Wheeler Rd. Turn right (south) and follow Lake Wheeler about 4.8 miles to the park entrance on the right (crossing Tryon at 1.3 miles and Penny at 3.0 miles). If you pass the dam you've gone too far. Follow the park road to the end. The conference area is in the headquarters building.

Directions to Reynolds/Osborne: On leaving the park, turn left (north) onto Lake Wheeler Road. After about 1.1 miles, turn left (there's a separate left-turn lane) onto Enchanted Oaks Drive. Follow the drive until a T intersection at Blue Sage (maybe half a mile), and turn left. 5429 is the third or fourth house on the left, just after the road bends right.

Agenda

7.45 - 8.30 am Coffee, Tea and Pastries

8.30 - 8.50 am State of the Department (Chris Gould)

8.50 - 9.05 am State of the Graduate Program (Michael Paesler)

9.05 –9.20 am State of the Undergraduate Program (Steve Reynolds)

9.20 - 9.45am Coffee Break

9.45 - 12 noon Faculty research symposium: **" Let me tell you about…."** Five minutes total, includes time to get set up!

Noon - 1.00pm Lunch

1.0 – 2.30pm Undergrad. Physics Majors Curriculum Reform (Steve Reynolds)

2.30 -3.30 pm Open microphone - ten minutes on any topic we need to be thinking about over the next year.

1. PY 205/208: One size fits all (or not?) (Hans Hallen)
2. PY 211/212: Bringing back problem sessions (Marjorie Klenin)
3. Grade inflation: should we be concerned (Richard Mowat)

3.45 -4.00 pm Wrap up and adjourn to Chez "Reynolds-Osborne"

Research symposium speakers: Two slides, talk 3 minutes, questions 2 minutes. Lap top projector and overhead available.

Send your ppt to Chris Gould by 5pm, or have it on a disk – no time allotted for equipment malfunctions!

1. Bruce Sherwood VPYTHON and 3D stereo vision
2. Robert Beichner Physical Review – a proposed section on Physics Education Research

3. Ruth Chabay The Diamond view of problem solving
4. John Risley What's New in WebAssign 4.0
5. Albert Young Ultracold neutron source at the PULSTAR reactor
6. Paul Huffman Measuring the neutron lifetime and the neutron edm with UCN's
7. Diane Markoff KamLAND update and SNS Cold Neutron Detector Development
8. Gail McLaughlin Neutrino physics with beta beams
9. Dean Lee Nuclear Lattice Simulations
10. Don Ellison Morphology of Young Supernova Remnants
11. John Blondin Enabling Terascale Simulations of Supernovae
12. Chueng Ji Dark Matter and Gravitational Lensing
13. David Brown Gravitational Wave Astronomy
14. Marco Buongiorno Nardelli Chemical reactions in nano-structured media
15. Chris Roland Ab initio investigations of capacitance at the nanoscale
16. Lubos Mitas Recent progress in quantum Monte Carlo: ion dynamics, fermion nodes
17. Laura Clarke Molecular flipping in a rotor crystal
18. Dave Aspnes Recent progress in linear and nonlinear optical diagnostics
19. Tom Pearl Low temperature tunneling and force microscopy
20. Jackie Krim Nanotribology in extreme environments
21. Celeste Sagui Accurate electrostatics for large-scale biomolecular simulations
22. Keith Weninger Characterizing weak binding of proteins one molecule at a time
23. Michael Paesler Anemochoric Palynomorphic Investigations of Paleoatmospheres
24. Dale Sayers Diffraction Enhanced CT imaging of bone.
25. Hans Hallen Bio-nanoprobe for intracellular signal transduction studies.