

Jim Ketter Curriculum Vitae

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Education	Oregon State University, Corvallis, Oregon Master of Science in Physics	Winter Term 2005
	Kansas State University, Manhattan, Kansas Bachelor of Science in Physics Bachelor of Science in Secondary Education	May 1979 May 1979
Additional Education	University of Kansas, Overland Park, Kansas 8 hours required for high school teacher certification Woodrow Wilson Summer Workshops in 1994, 1996, 1997	Fall 1991
Experience	Instructor/Lab Coordinator Physics Department, Oregon State University, Corvallis, Oregon - Taught PH201, PH203, PH106, PH104, PH211, PH212, PH213 - Supervise work study students who set up physics labs - Maintain/repair/replace lab equipment as needed	2005 - present
	Instructor Linn-Benton Community College, Albany, Oregon - Responsible for all aspects of the following courses (including lab where appropriate): General Physics sequence (PH20x), Astronomy (PH104), General Science (GS104), Science, Technology, and Society (GS152), Energy and Society (GS151)	2003 - 2004
	Graduate Teaching Assistant Physics Department, Oregon State University, Corvallis, Oregon - taught recitations and labs for several different undergraduate courses - rewrote PH106 lab manual	2000 - 2004
	Instructor Linn-Benton Community College, Albany, Oregon - Responsible for all aspects of the General Physics sequence (PH20x)	1999 - 2000
	Physics and Chemistry Teacher St. Thomas Aquinas High School, Overland Park, Kansas - Taught six classes per year of Physics and Chemistry; 3 ability levels - Moderator for Scholars' Bowl, High Q, and Science Knowledge Bowl teams - Assistant Coach for Girls' Soccer Team - Stadium Manager, Field Painter	1991 - 1999
	Geophysicist Halliburton Geophysical Services, Inc., Dallas, Texas (formerly Geophysical Service Inc., a subsidiary of Texas Instruments, Inc.) - Worked with the research and programming staff to design, test, and release leading edge seismic data (digital signal) processing software. - Created all documentation (user manuals) for programs which I tested - Trained in-house and clients on the science and the processing (software)	1979 - 1991

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Activities/Accomplishments/Highlights 2013

Teaching/Faculty Responsibilities

- * PH203 (general physics) summer term 2013.
 - Included writing/editing a “new” set of labs for the term.
- * PH104 (descriptive astronomy) winter/spring/fall terms.
 - Telescope viewing nights for PH104 students and community members
 - Solar telescope viewings in the MU Quad for PH104 students and any passersby.
- * Lower level curriculum reform meetings, attend and participate.
- * SPS (Society of Physics Students) Faculty Advisor

Undergrad Labs

- * Keep lab computers up-to-date with software changes and upgrades. Coordinate with COSiNe concerning teaching lab computers.
- * Supervise workers who set-up each week’s undergraduate labs.
- * Order/repair/replace/design/build lab equipment.
 - Several labs use “home-built” pieces of equipment that require regular maintenance.
 - Develop new labs and sometimes build parts for labs.
 - Solder broken wires, fuse and battery replacement etc. (Supervise such work done by students.)
- * Update lab set-up manuals (on-going) with equipment lists and instructions for set-up.
 - Changes to labs since last year were accommodated.
 - More specific details for both the set-up people and the TA’s.
- * Create and update TA lab-manuals as lab change.
 - Currently providing equipment list and notes/comments for each lab. (on-going)
- * Maintain, organize and clean storage spaces to make better use of space. (on-going)
- * Maintain inventory of equipment, particularly frequently-used equipment. (on-going)
- * Start mornings (when classes are in session) with a walk-through of labs to check on equipment and set-ups that may get disorganized/scattered during previous day’s lab sessions.
- * Check-in with TA’s during week to see if there are any problems with the lab or equipment.
- * Meet weekly with (some) TA’s (and instructors) to go over their next week’s lab.

Demonstrations

- * Set up demonstrations and props for instructors, as requested by them or suggested by me.
- * Order/repair/replace/create lecture demonstration equipment.
- * Organize and clean storage spaces. (on-going)
- * Inventory of demo equipment. (Spreadsheet database) (on-going)

Outreach

- * Attended NASA Space Grant Consortium Meeting, Sept 12-14, 2013
- * Department successfully participates in Discovery Days (at LaSell Stewart Center).
 - Twice a year (fall and spring), two days of staffing – me and SPS students.
 - Worked with SPS students to organize, move and set-up equipment (and clean up after)
 - Physics displays and activities very well received by all ages of participants.
- * Telescope viewing nights for PH104 students and community members,
- * Helped with creating and mounting of new physics question posters in lobby of Weniger Hall.
- * Organized equipment and helped out with Women in Science Saturday demos for middle school girls.
- * Continued the interactive displays in the display case outside WNGR 153.
- * Continued a “Physics Question of the Week” display (outside WNGR 153) with demonstrations and/or questions posed one week and the answers provided the following week. Maintained and added to this every week for the last couple years including summer term.
- * Continued and added to “Astronomy Question of the Week” display outside the astronomy lab.
- * Procured, mounted and hung science posters and art in hallways and classrooms.

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Activities/Accomplishments/Highlights 2013 (continued)

Facilities Improvements

- * Supervised the painting and cleanup by student workers of new lab spaces for new professors.
- * Supervised the painting and cleanup by student workers for the Yunker Library remodel.
- * Supervised white board and marker trays installation and/or replacement in classrooms and labs.
- * Installation of cork boards and tack strips in hallways for posters and research paper postings.
- * Helped and supervised workers in clearing of old lab spaces.
- * Organized surplus property and hazardous waste for pickup.
- * Created and hung hallway signs for research labs. (on-going)
- * Miscellaneous
 - Fixed dripping faucets, replaced light bulbs, plus many additional small tasks around the department.
 - Moved or supervised the moving of furniture and equipment as office space has changed use.
 - Collection of plastic bottles and (scrap) paper in labs and classrooms for recycling.

Other

- * Miscellaneous small and large but forgotten tasks that make me indispensable around here.