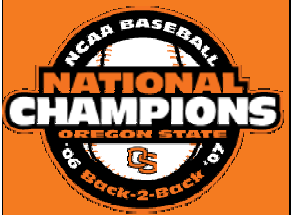


Oregon State University's Radiation Health Physics Program

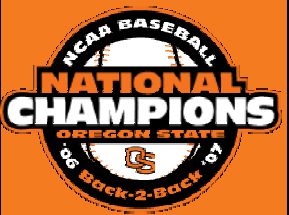
**Annual HPS Meeting
Portland OR
July 10th, 2007**

**K.A. Higley, S.E. Binney, S.R. Reese, J.N.
Reyes, J.F. Higginbotham, and with
special thanks to D.M. Hamby**



Radiation Health Physics at OSU

- Began in 1963.
- Transitioned from x-ray technology program to current program.
 - Originally in College of Science,
 - Moved piecemeal to College of Engineering, and merged with Nuclear Engineering Dept. (est.1957)



Radiation Health Physics at OSU

- Renamed Nuclear Engineering and Radiation Health Physics (2001)
- Currently
 - One of 8 US institutions with degrees in both NE & RHP
 - Only 4 offer complete suite of B.S., M.S., and Ph.D. in both fields.
- Undergrad program accredited in 2003 by ABET under Applied Science Accreditation Commission.

RECRUITMENT STRATEGIES

**Implying we actually have a
plan, but it's more of a
philosophy**

Strategy #1



Location,
location,
location



Pick a great place, and they'll at least consider coming....

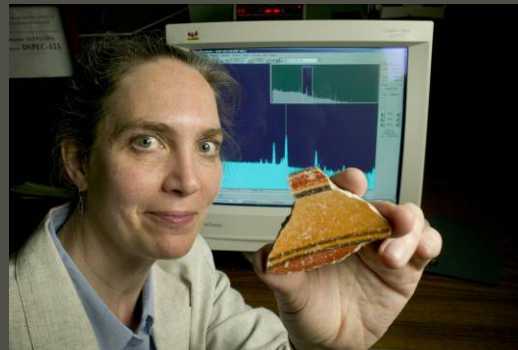
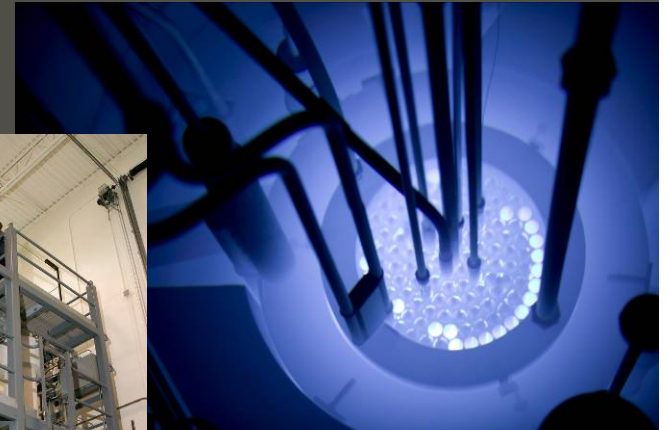
Strategy #2: Great People



Hire good faculty who work well together

Strategy #3 - Awesome Facilities

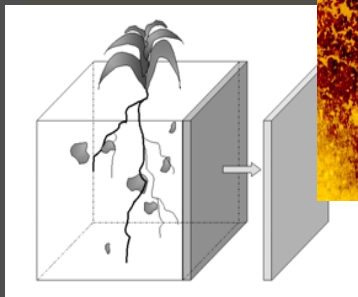
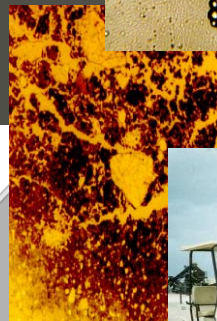
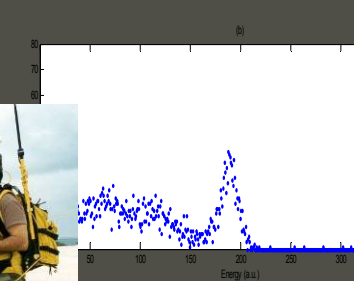
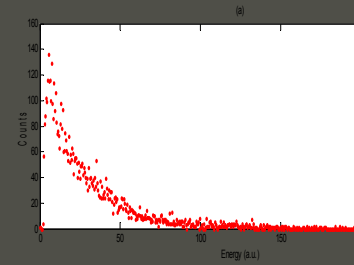
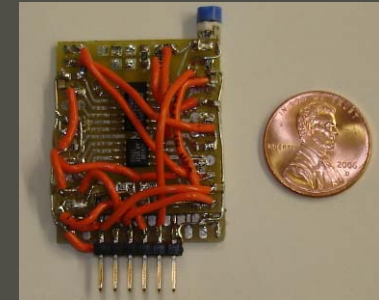
- 1.1 MW_{th} TRIGA Reactor
- Advanced Thermal Hydraulic Testing Laboratory
- ⁹⁰Sr-⁹⁰Y irradiator
- Subcritical assembly
- Radiochemistry labs
- Radioecology Greenhouse
- and more.....



And let the students use them

Strategy #4: Develop Interesting, Topical Research

- Instrumentation Development
- Simultaneous β - γ Spectroscopy
- Radiographic Studies
- Biota Dose
- ...& more



Strategy # 5: Aggressively Seek Funding



- Federal Government
 - DOE
 - NNSA
 - Nuclear Engineering Education Research
 - CDC
 - NRC
- States
 - Oregon Dept of Energy
- Foundations
 - McClellan Foundation
- Give that money to your students
 - Scholarships & fellowships
 - Need-based awards
 - Teaching & research assistantships

Strategy #6 – Look for Recruitment Opportunities

- On-campus
 - “Pursue” undecided majors
 - Offer classes with broad appeal (NE 319)
 - Have faculty teach ENGR or COS core classes (reach other majors)
- Off-campus
 - Word of Mouth
 - Alumni
 - HPS booth (what do you think???)
 - Peterson’s Guide (value for \$???)

Retention Strategies

**How we try to keep them once
they're enrolled**

Retention Strategies

- Head Advisor for Undergraduates
 - Faculty still advise
 - Early intervention for “troubled students”
 - “Checklists” for course progression
- Constant “contact” for undergraduates
 - RC building is their “home”
 - At least 1 course/yr in Department
- On-campus grad. students have desks and 24 hour building access
- E-campus advisor for distance students
- Social opportunities
 - Picnics
 - Annual banquet

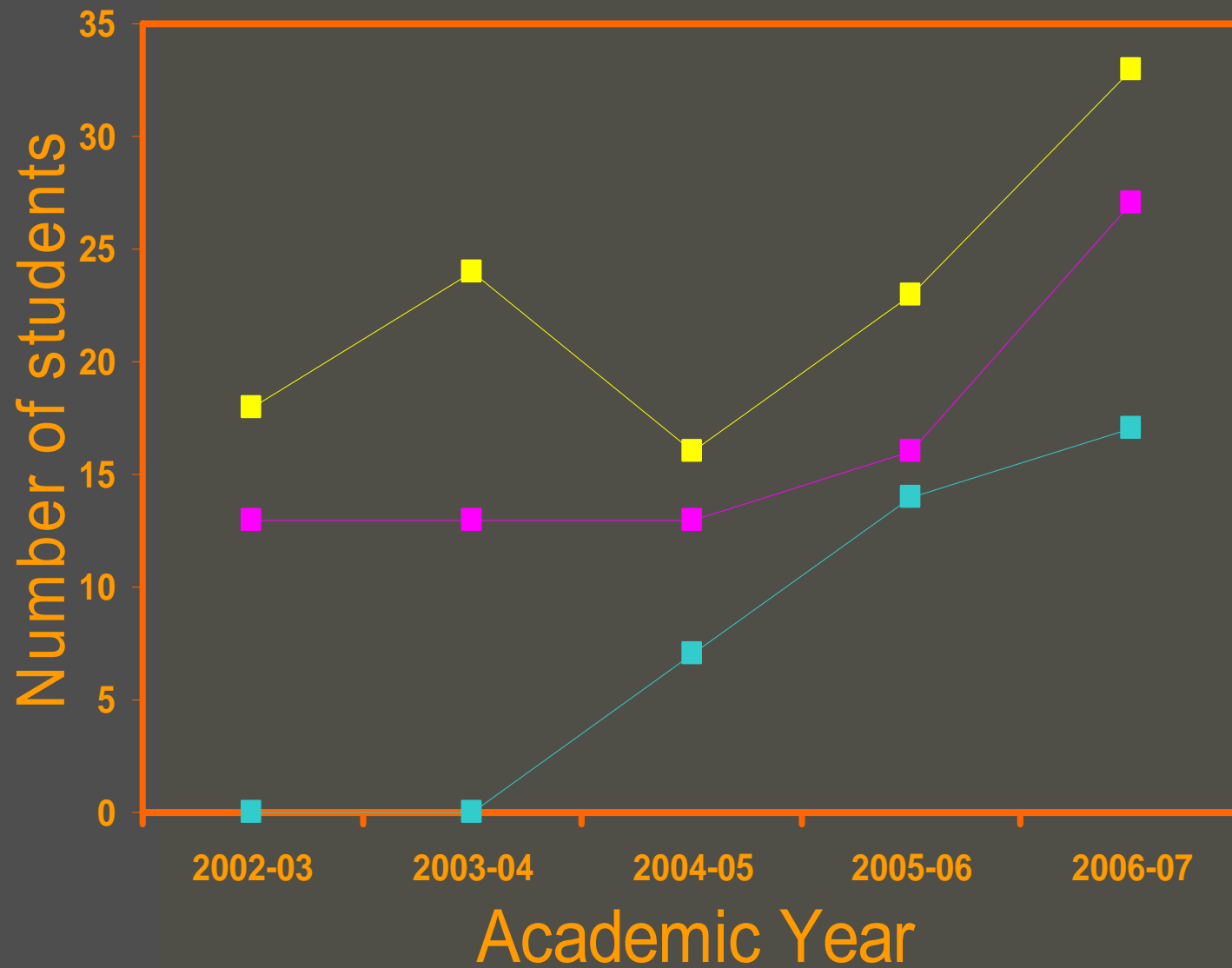


Enrollment Data

So has our strategy worked?

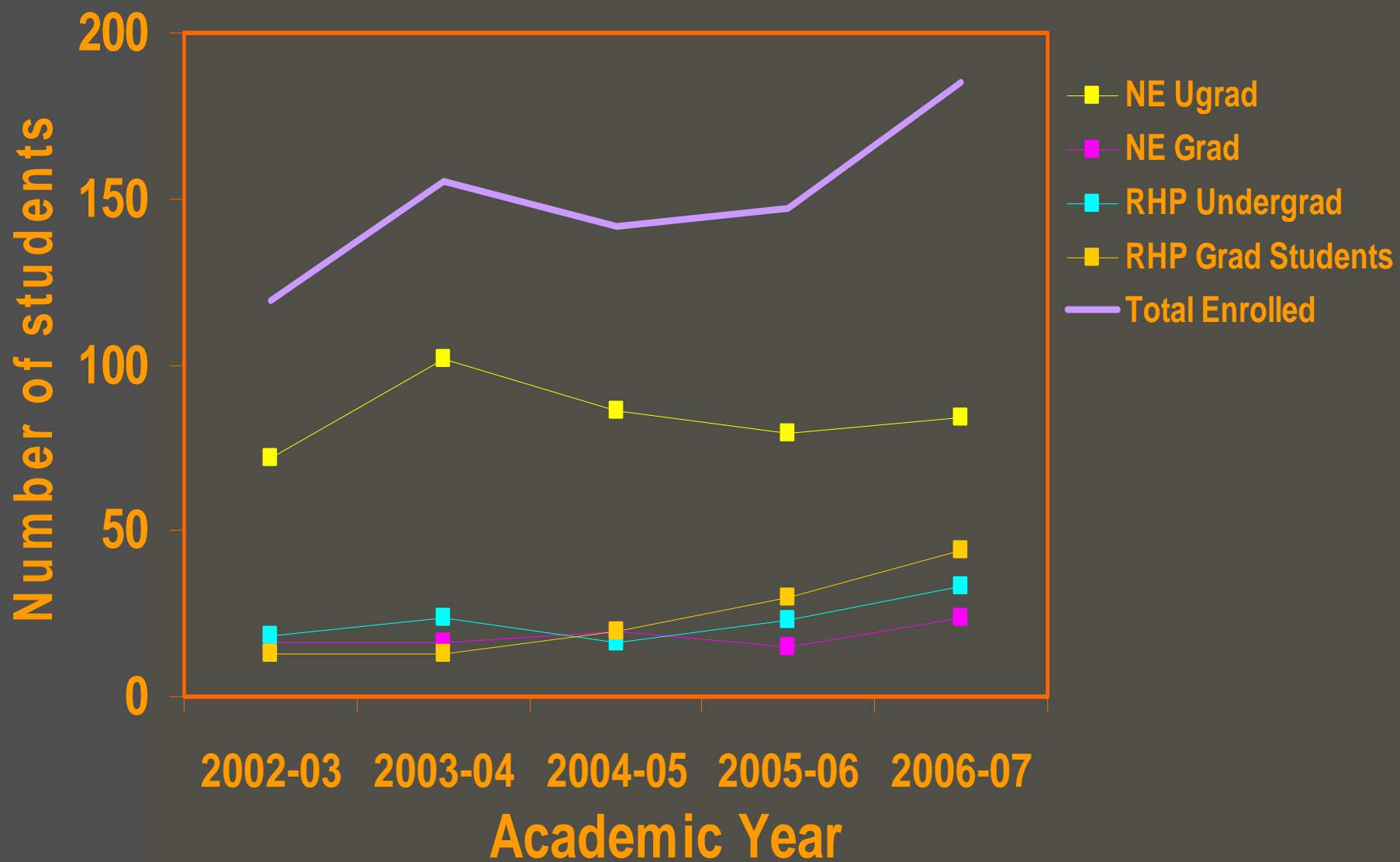


Oregon State University RHP Enrollment

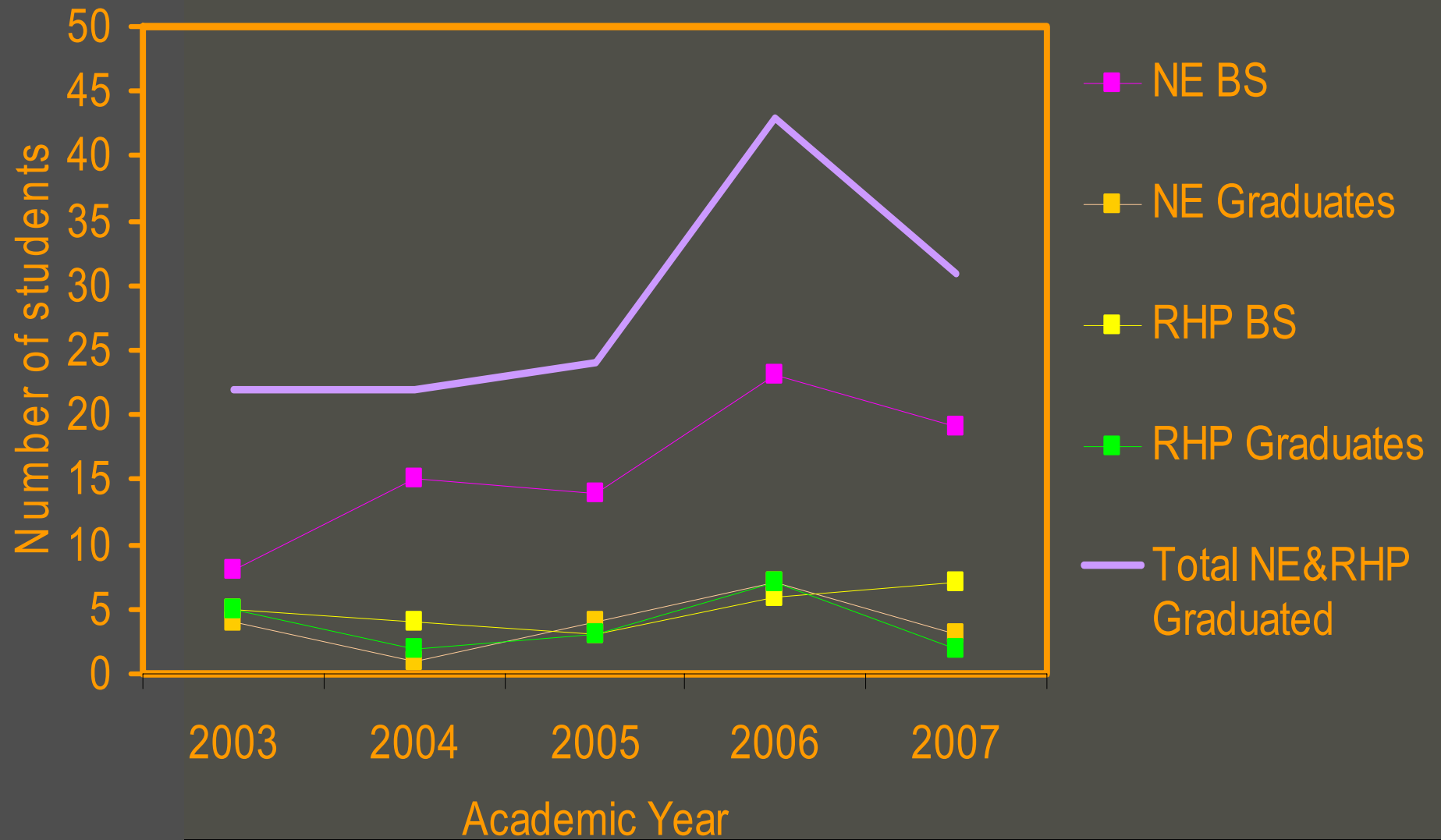


—■— RHP Undergrad —■— RHP Graduate —■— RHP-Ecampus

Total NE&RHP Enrollment by Category



Graduation Rates



Employment

- Where do they go?
 - Military (Navy, Army)
 - Federal Government (NRC, DOE)
 - National Laboratories (PNNL, Los Alamos)
 - State Government
 - Industry
 - HP consulting firms
 - Nuclear Power Plants
 - Health Care
 - Academia

CONCLUSIONS

- Enrollments are up
- Adequate funding remains a challenge
 - e.g., DOE University Programs?
 - Matching grants?
 - Industry still needs to do a better job of “stepping up to the plate”
- Strong academic program
- Targeted recruitment not done
- Diverse, but complementary faculty
- Future's so bright.....



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