# Public Outreach and Education with Meteorites Involving a Museum Exhibit, Website, and Teacher Workshops

M.L. Hutson, R.N. Pugh, A.M. Ruzicka, Cascadia Meteorite Laboratory, Portland State University, Dept. of Geology, 17 Cramer Hall, 1721 SW Broadway, Portland OR 97207

# The main lesson learned from this E/PO effort was to be flexible and use a variety of educational venues

### Teacher Workshops and Public Outreach:

- As part of Portland Public Schools summer workshop program
- At professional meetings (Oregon Science Teachers Association and Oregon Academy of Science)
- Through Intel Science Fair (regional and national)
- In schools and classrooms

#### **Lessons learned:**

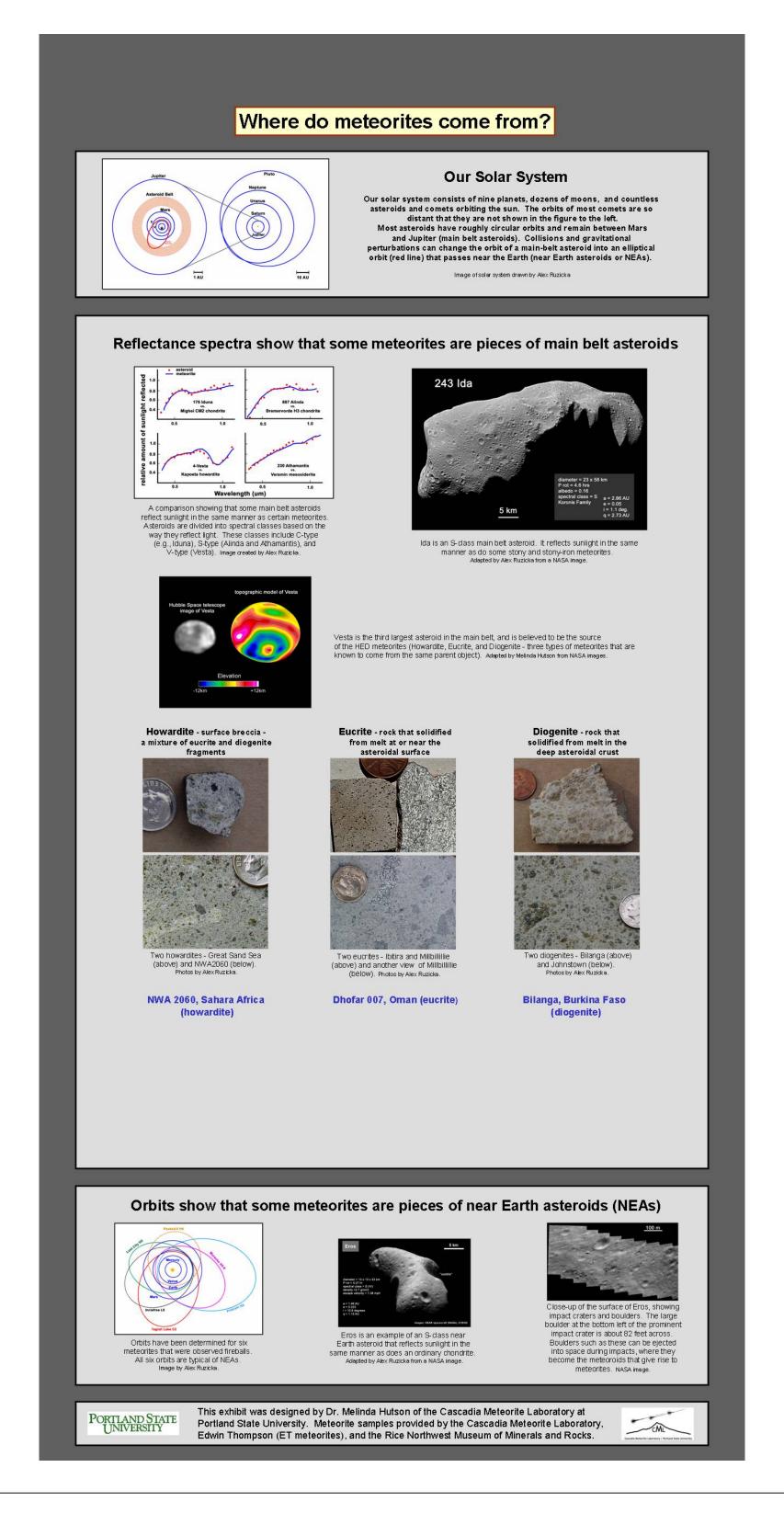
- 1) K-12 teachers already have a variety of workshops and educational events they are expected to attend.
- 2) Accommodate teacher needs and schedules by going to them at already scheduled events or to their classrooms.

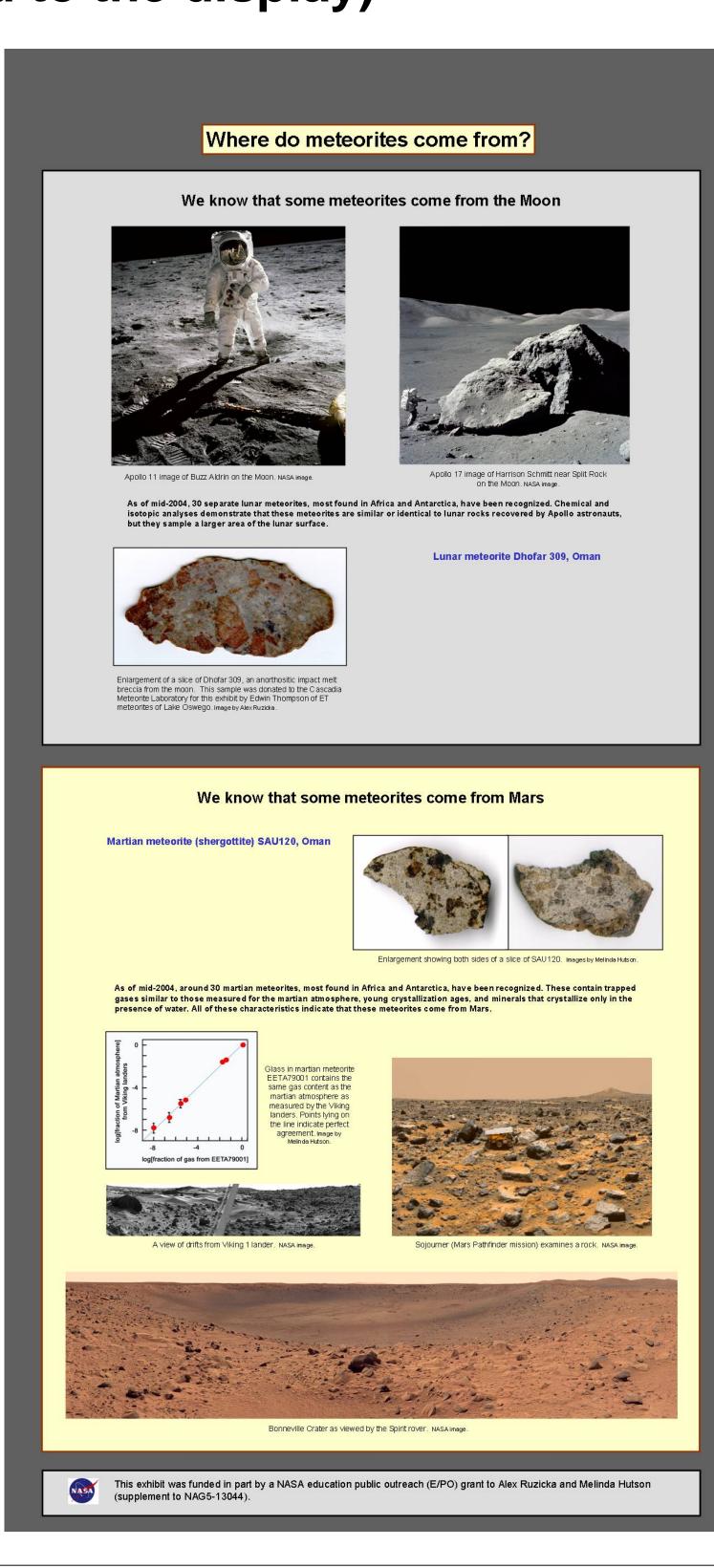




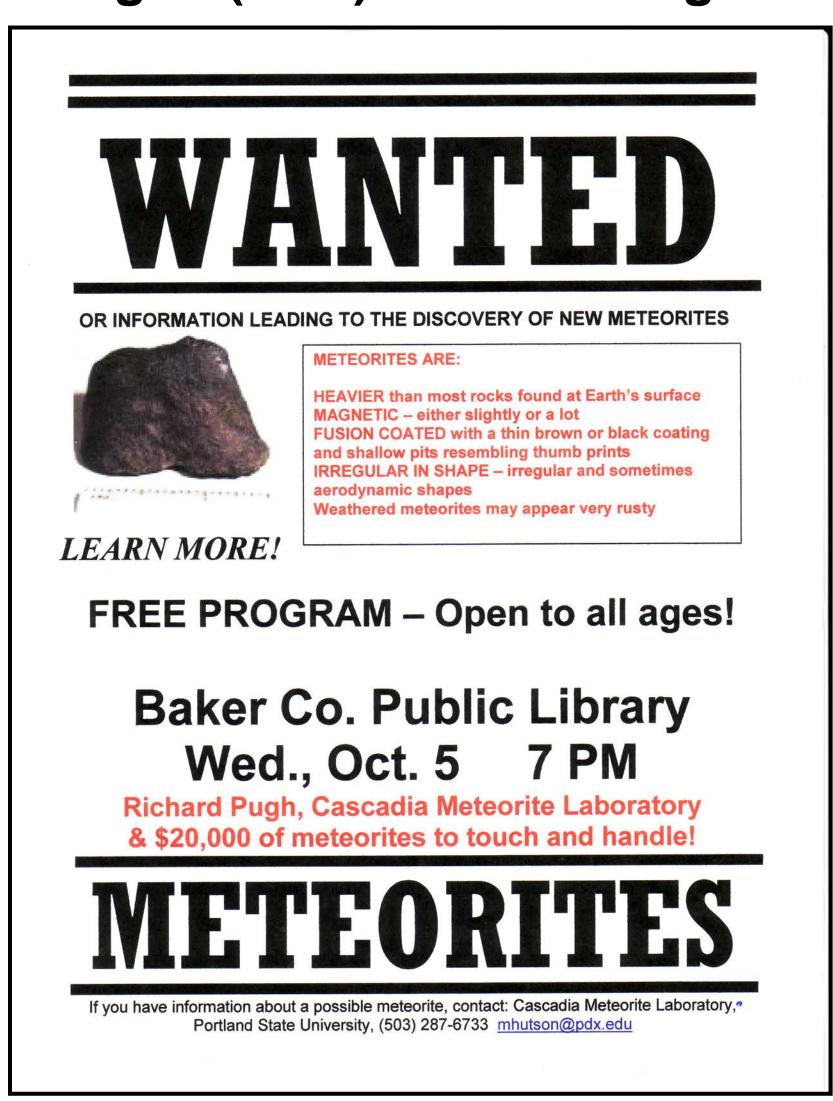
# Museum Exhibit (Rice NW Museum):

- Informational panels and meteorite specimens
- Approximately 6000 K-12 students per year, 40% from outside Portland metropolitan area
- Examples of 2 panels below (blue type indicates space where a meteorite specimen is attached to the display)

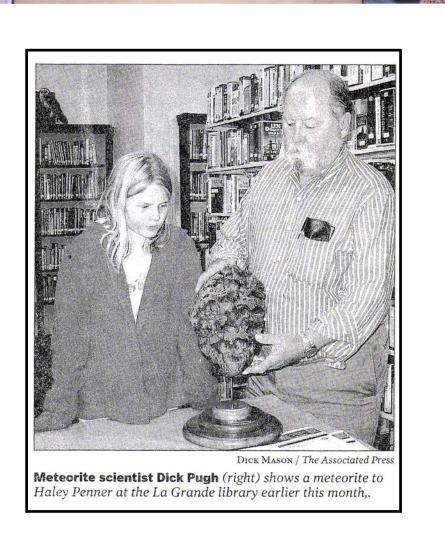


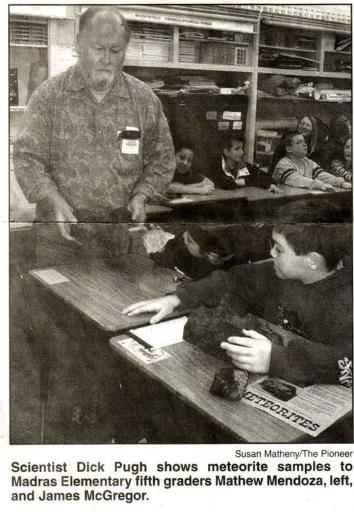


Lectures and hands-on demonstration to classrooms and groups at public libraries in rural Oregon in partnership with Libraries of Eastern Oregon (LEO) and the Oregon Museum of Science and Industry (OMSI)









# The hunt for new meteorites

Fifth graders were able to mandle \$10,000 in December during a presentation by meteoridicist Dick Pugh, who studies rocks from space.

Pugh was being honored as the Scientist of the Month in Judy Sweeney's room at Madras Elementary. His appearance, and evening public presentation were sponsored by Libraries of Eastern Oregon, Cascadia Meteorite Laboratory, and the Portland State

cause the most common sternomes often look like regulations ones often look like regulations. "These are the oldest row we have; they're 4.5 bill years old," Pugh said, add meteorites come from an as oid belt between Mars Jupiter and fall to the earth speed of 50,000 mph. (The are called meteorites).

In Oregon, only four meteorites are the oldest row we have; they're 4.5 bill years old," Pugh said, add meteorites come from an as oid belt between Mars Jupiter and fall to the earth speed of 50,000 mph. (The are called meteorites).

orites have been four of those were on the of the Cascades. Pug. ways trying to locate teorites and examing a 32-pound iron mefound in Arizona values found in Africa values \$5,000, and several "stony" meteorites. The were disappointed to the total teorites are heavy, mag have a smooth coal orites are heavy, mag have a smooth coal of those were on the of the Cascades. Pug. ways trying to locate teorites and examing possible ones the had collected. The were disappointed to the rock was a mete orites are heavy, mag have a smooth coal orites are heavy and have a smooth coal orites have been four of those were on the of the Cascades. Pug. ways trying to locate teorites and examing possible ones the orites are heavy and the cascades. Pug. ways trying to locate teorites and examing possible ones the orites are heavy as a meteorite ways trying to locate teorites and examing possible ones the orites are heavy as a meteorite ways trying to locate teorites and examing possible ones the orites are heavy as a meteorite ways trying to locate teorites and examing possible ones the orites are heavy as a meteorite ways trying to locate teorites and examing possible ones the orites are heavy as a meteorite ways trying to locate teorites and examing possible ones the orites are heavy as a meteorite ways trying to locate teorites and examing possible ones the orites are heavy as a meteorite ways trying to locate teorites and examing possible ones the orites are heavy as a meteorite ways trying to locate teorites and examing possible ones the orites are heavy as a meteorite ways trying to locate teorites and examing possible ones the orites are heavy as a meteorite way trying to locate teorites and examing possible ones the orites are heavy as a meteorite way trying to locate teorites and examing possible ones the orites are heavy as a meteorite way trying to locate teorites and examing possible ones the orites are heavy as a meteorite way to be a meteorite way to be

## Website (http://meteorites.pdx.edu):

- Site has global reach judging from e-mail contacts
- Combination of static web pages and interactive meteorite identification exercise
- Lessons learned: Allocate more time and energy if third party (software designer) involved; educating third party required

