Physics in Rio de Janeiro. Attaining equity and improving the culture for women in physics, she adds, "should be a joint effort [involving women and men]. I think deep down men have guilty feelings about the situation and some are doing something about it."

Richard Hazeltine, a plasma physicist at the University of Texas at Austin, describes the meeting as "extraordinarily moving and an eyeopener." Women from different cultures, with different histories, were saying the same things, he says. "Everyone looks the other way. We shouldn't do that."

In other news relating to women in physics, the American Institute of Physics reports that its reexamination of the "leaky pipeline"—the term used to describe women leaving academic physics in greater proportions than men (see PHYSICS TODAY, April 2005, page 28)—has generated a lively discussion. In response, AIP has posted some questions and answers on the Web at http://www.aip.org/statistics/ trends/reports/womenfag.htm.

Toni Feder

News Notes

Cosmic Colorado. The plains of southeastern Colorado have been chosen as the northern site of the Pierre Auger Observatory, a high-energy cosmic-ray detector. The site beat out Utah, the original front-runner, due to easier land access and greater potential for expanding the experiment.

Like its counterpart in the Southern Hemisphere, Auger-North will consist of 1600 tanks, each holding 12 000 liters of water and spaced at 1.5-km intervals, plus two dozen fluorescence telescopes. Charged particles produced by cosmic-ray showers are detected as they pass through the tanks and emit Cherenkov radiation, while the shower path can be traced by the telescopes.

The particles Auger is after are 10 million or more times as energetic as those produced in manmade particle accelerators and are rare: Above 10¹⁹ eV, only one particle per square kilometer is incident per year; above 10²⁰ eV, it's one per century. With Auger, scientists hope to unlock the mysteries of what the high-energy particles are and where they get their energy.

This month at a conference in Pune, India, the collaboration will present the first energy spectrum from the still-incomplete Auger-South. The data confirm that the detector and analysis are working.



An Auger Cherenkov detector.

Researchers from the 16 countries involved in the Auger experiment plan to submit proposals for the northern observatory to their various funding agencies by late 2007. Construction is expected to cost about \$50 million.

Enrollments and degrees. Physics and astronomy degree production in the US is growing, according to a new report by the American Institute of Physics.

The number of bachelor's degrees in physics granted in 2003 was 4553, up 25% from the recent low in 1999. In astronomy, the increase was even sharper, with the 325 degrees awarded representing a 61% jump in three years. That increase was due largely to more women earning astronomy bachelor's degrees. Physics bachelor's degrees accounted for less than 0.4% of the 1.3 million bachelor's degrees awarded in the US in 2003.

At the PhD level, 1106 physics degrees were conferred in 2003, a 1% increase over 2002. This slight increase followed eight years of steady decline. Based on first-year graduate enrollments, steady growth in PhD production is expected in the coming years. In recent years, the proportion of new physics PhDs accepting postdocs has grown, from 45% in the late 1990s to 68% in 2003.

These and other data are presented in the *Enrollment* and *Degrees* Report, 2003. The report may be downloaded free of charge from the Web at http://www.aip.org/statistics/ trends/reports/ed.pdf, or obtained from AIP, Statistical Research Center, One Physics Ellipse, College Park, MD 20740; e-mail stats@aip.org.

Oxford tackles the future. In June, Oxford University received a £60 million (\$100 million) donation to create an interdisciplinary research school. "It's a virtual school in a way," says Grace Haydon, a press officer at Oxford. "It doesn't really have a central physical base." The donation came from James Martin, a leader in bringing computer science to government and business, and is intended to help Oxford researchers think imaginatively about future threats and opportunities, such as global warming and shorter working hours.

Martin, who studied physics at Oxford during the 1950s, says that university researchers have become too specialized. "One of the most important activities for a leading university today should be the multidisciplinary academic thinking needed to find solutions to humanity's biggest problems and address our future opportunities," he says. PKG ■

WEB WATCH .

http://www.orau.org/ptp/museumdirectory.htm

Run by Oak Ridge Associated Universities and supported by the Health Physics Society, the Health Physics Historical Instrumentation Museum Collection holds equipment and other artifacts that reflect the changing uses of radioactivity and radiation. Among the items featured on the museum's website are movie posters, quack cures, and Geiger counters.



http://www.fractalmusiclab.com

The iterative and recursive algorithms behind fractals can be used wholly or in part to generate music. David Strohbeen's Fractal Music Lab contains a primer on composing fractal music, along with samples of the genre.

http://www.lhup.edu/~dsimanek/scenario/physlang.htm Let's Clean Up Our Physics Language, urges Don Simanek, a physics professor at Lock Haven University of Pennsylvania. His webpage offers modest proposals to banish such woolly and misleading phrases as "flow of current" from physicists' vocabularies.



To suggest topics or sites for Web Watch, please visit http://www.physicstoday.org/suggestwebwatch.html.

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