flies exposed to constant light for several days showed no swings in per activity.

Taken together, the experiments demonstrate that the internal clock, perhaps timed by per activity, tells monarchs how to calibrate their movements against the sun. “It’s the first molecular entrée” into the clock-assisted migration, says Charalambos Kyriacou, a behavioral geneticist at the University of Leicester, U.K.

But it’s no slam dunk. Orley Taylor, an entomologist at the University of Kansas, Lawrence, is not sure the work demonstrates that the clock guides navigation. “The data would be more conservatively interpreted as phototactic [light-based] orientation,” he says.

In any case, many mysteries of monarch migration remain. For instance, monarchs from different parts of the eastern United States and Canada all end up in the same Mexican wintering grounds. They follow different bearings and start their journeys at different times, a feat that is hard to reconcile with a simple, species-wide clock, says Taylor. A further complication is that each year at least three generations of butterflies emerge before the last one flutters to Mexico in the fall. No one knows what triggers migration in that generation, says Reppert, but the circadian clock might help them recognize shortened day lengths and therefore the changing of the seasons.

—ELIZABETH PENNISI

**ROYAL SOCIETY**

Nine Women Make 2003 a Record Year

A record nine women are among the 42 new fellows elected by the U.K.’s Royal Society this year. Monday’s bumper crop of female fellows comes just 3 weeks after the society’s U.S. counterpart, the National Academy of Sciences (NAS), elected its highest-ever number of women—17—in its annual class of 72 fellows (Science, 9 May, p. 883). Women now make up 4.4% of the Royal Society’s total fellowship of 1290, and 7.7% of NAS’s 2015 members are female.

“The underrepresentation of women in science, engineering, and technology remains a major problem, but progress is being made,” said Robert May, president of the society, in a press statement (www.royalsociety.org). He said that 11% of fellows elected in the past 5 years have been women, “which runs somewhat ahead of the percentage of women professors” in scientific disciplines at U.K. universities.

The 343-year-old scientific academy, which has never before elected more than four women in a year, came under fire from a British parliamentary committee in 2002 for having a low proportion of women and ethnic minorities. It has defended itself against charges of gender bias by pointing to the lack of women in U.K.’s scientific workforce. Julia Higgins, who was elected in 1995 and is now a vice president, says the society cannot be expected to elect a large share of women when “the pool of women at senior levels in science in the U.K. is so small.”

Among this year’s fellows is Jocelyn Bell Burnell, a University of Bath astronomer whose doctoral work at Cambridge was a cornerstone in the discovery of pulsars in 1968. The discovery won a Nobel for her adviser, Antony Hewish, who shared the prize in 1974 with another British astronomer, Martin Ryle. A number of prominent scientists maintain that Burnell deserved the prize as much as Hewish and Ryle.

“The perception back then was that science was done by senior men who had a fleet of minions to do their bosses’ bidding,” says Burnell. “When the Nobel was awarded, I wasn’t in the frame because I was a junior and a woman.” The increase in the percentage of women fellows, says Burnell, reflects a broader trend of many women scientists, such as DNA crystallographer Rosalind Franklin, “getting written back into the history of their subject.”

Other women joining the fellowship include Oxford molecular biologist Kay Davies, Harvard developmental geneticist Elizabeth Robertson, and Cambridge mechanical engineer Ann Dowling. Among the society’s newly elected foreign members are two men from Germany, two from the United States, and one each from Mexico and Switzerland.

—YUHJIT BHATTACHARJEE

**Physicist Gets Visa**

After an 8-month wait for a visa, a Chinese physicist is finally returning to her research at the University of Utah in Salt Lake City.

Last fall, fifth-year doctoral student Xiaomei Jiang returned to China after her parents died, for what she expected to be a brief visit (Science, 20 December 2002, p. 2305). But post–9/11 security reviews stalled her return visa and those for thousands of other foreign students and researchers. The National Academies protested the delays, saying that they were having “serious, unintended consequences for American science.”

Bush Administration officials have been working to clear the backlog, and Jiang reported this week that she had received her visa. She hoped to fly back to Salt Lake City within days and restart a life that had been put on an unexpected hold.

—DAVID MALAKOFF