



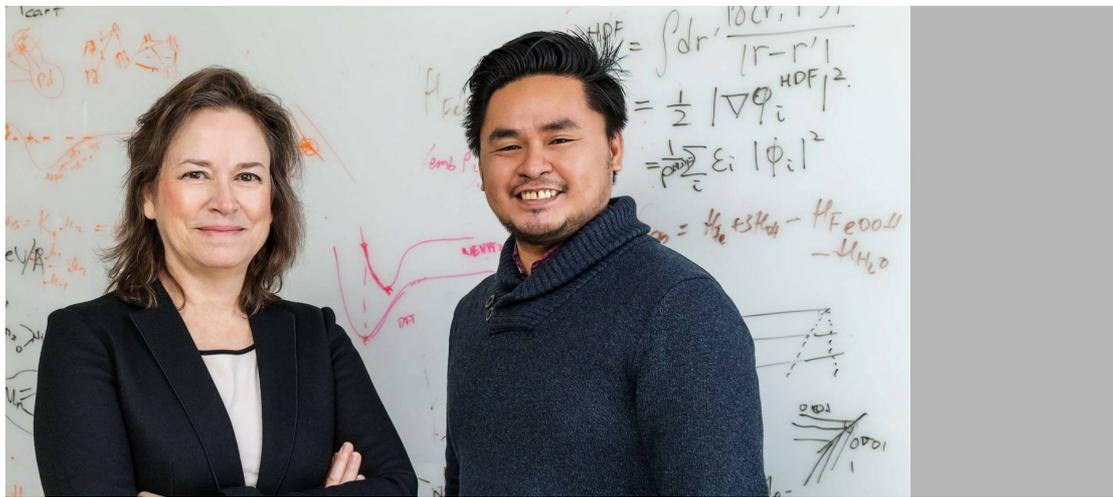
Predicting snowpack in the West before the first flake falls

A team of NOAA and Princeton researchers can now predict snowpack in the American West as early as March, some eight months before winter begins.



Chasing dark matter with the oldest stars in the Milky Way

Mariangela Lisanti, physics professor, and an international research team that includes Princeton undergraduate Jonah Herzog-Arbeitman, have found a stopwatch for dark matter, the invisible and almost undetectable stuff that makes up 15 percent of the universe.



New process could slash energy demands of fertilizer, nitrogen-based chemicals

Dean Emily Carter and postdoctoral researcher John Mark Martirez are working to develop a method that could drastically reduce the energy needed to manufacture synthetic fertilizer and other industrial chemicals.



Spotty coverage: Climate models underestimate cooling effect of clouds

Princeton University researchers have found that the climate models scientists use to project future conditions on our planet underestimate the cooling effect that clouds have on a daily — and even hourly — basis, particularly over land.



The ecological costs of war: Conflict is a consistent killer of African megafauna

War has been a consistent factor in the decades-long decline of Africa's large mammals, but wildlife populations rarely collapsed to the point where recovery was impossible.



Life-saving medicines from fundamental chemistry win Gates Foundation backing

The Gates Foundation recently put a technology for encasing medicine in ultra-small particles on the fast track for use in developing countries where malaria, tuberculosis and other life-threatening diseases are endemic.

Events

Free and open to the public



Science on Saturday at PPPL

This annual series of talks is aimed at the high school level and features faculty members and other speakers from Princeton and other universities and institutions.
Princeton Plasma Physics Laboratory (PPPL), Forrestal Center
Saturdays, Feb. 3, 10, 17; Mar 3, 10, 17, 9:30 a.m.

Super stars of materials science weekend

Learn about the science behind Frankenstein and the lives of Mary Shelley and Marie Curie
Free registration required.
Various locations, Princeton University
Sat. Feb. 3 and Sun. Feb. 4

Humanity's exploration: A conversation with Charles Bolden

The former astronaut and NASA administrator talks about his travels aboard the Space Shuttle, the commanding of space missions and NASA achievements during his tenure.
Robertson Hall 100
Feb. 14, 4:30 p.m.

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