

2007

Making orange juice in a flash

Andrew Davidhazy

Follow this and additional works at: <http://scholarworks.rit.edu/article>

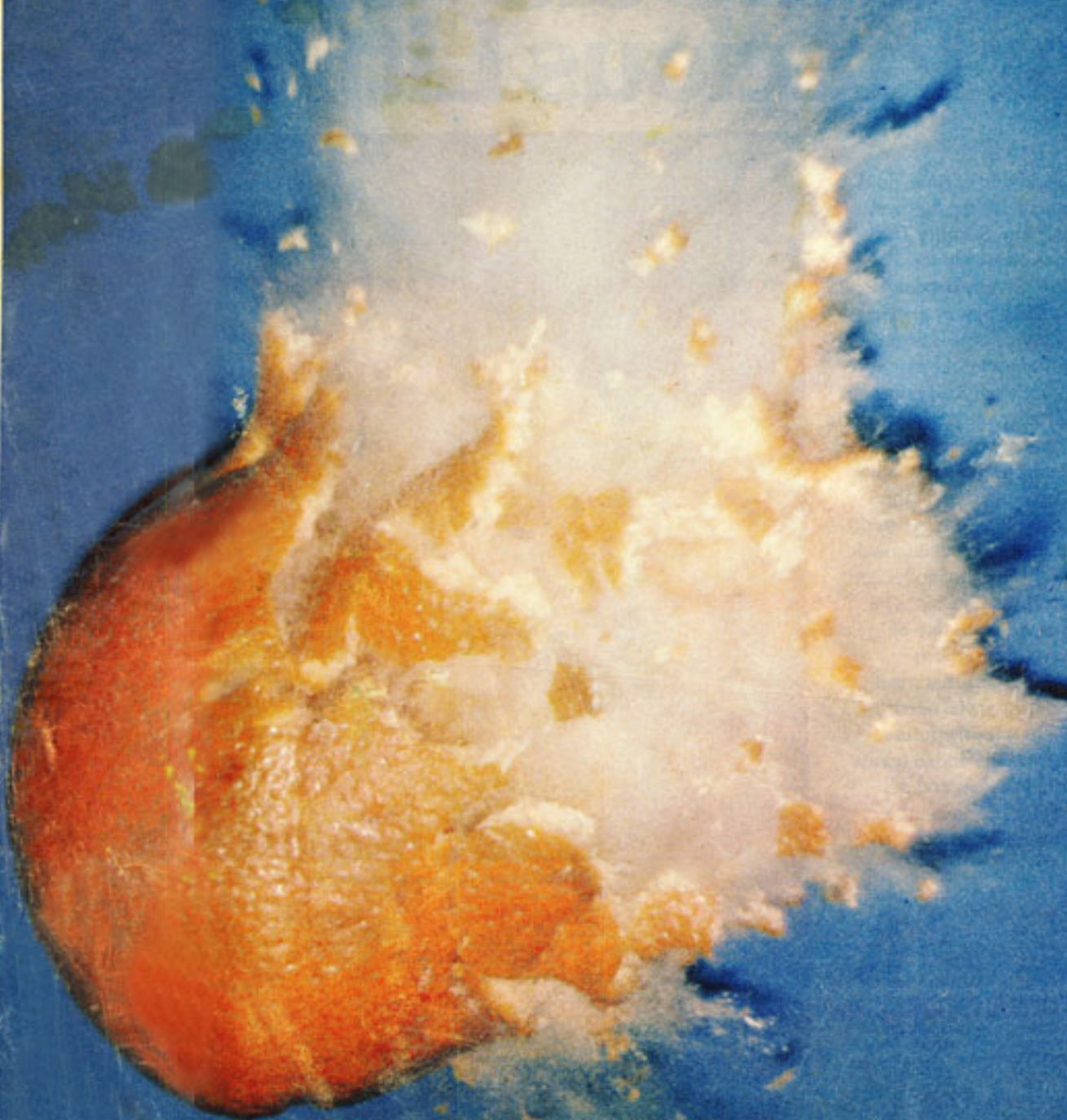
Recommended Citation

Davidhazy, Andrew, "Making orange juice in a flash" (2007). Accessed from
<http://scholarworks.rit.edu/article/428>

This Article is brought to you for free and open access by RIT Scholar Works. It has been accepted for inclusion in Articles by an authorized administrator of RIT Scholar Works. For more information, please contact ritscholarworks@rit.edu.

UPSTATE

New York



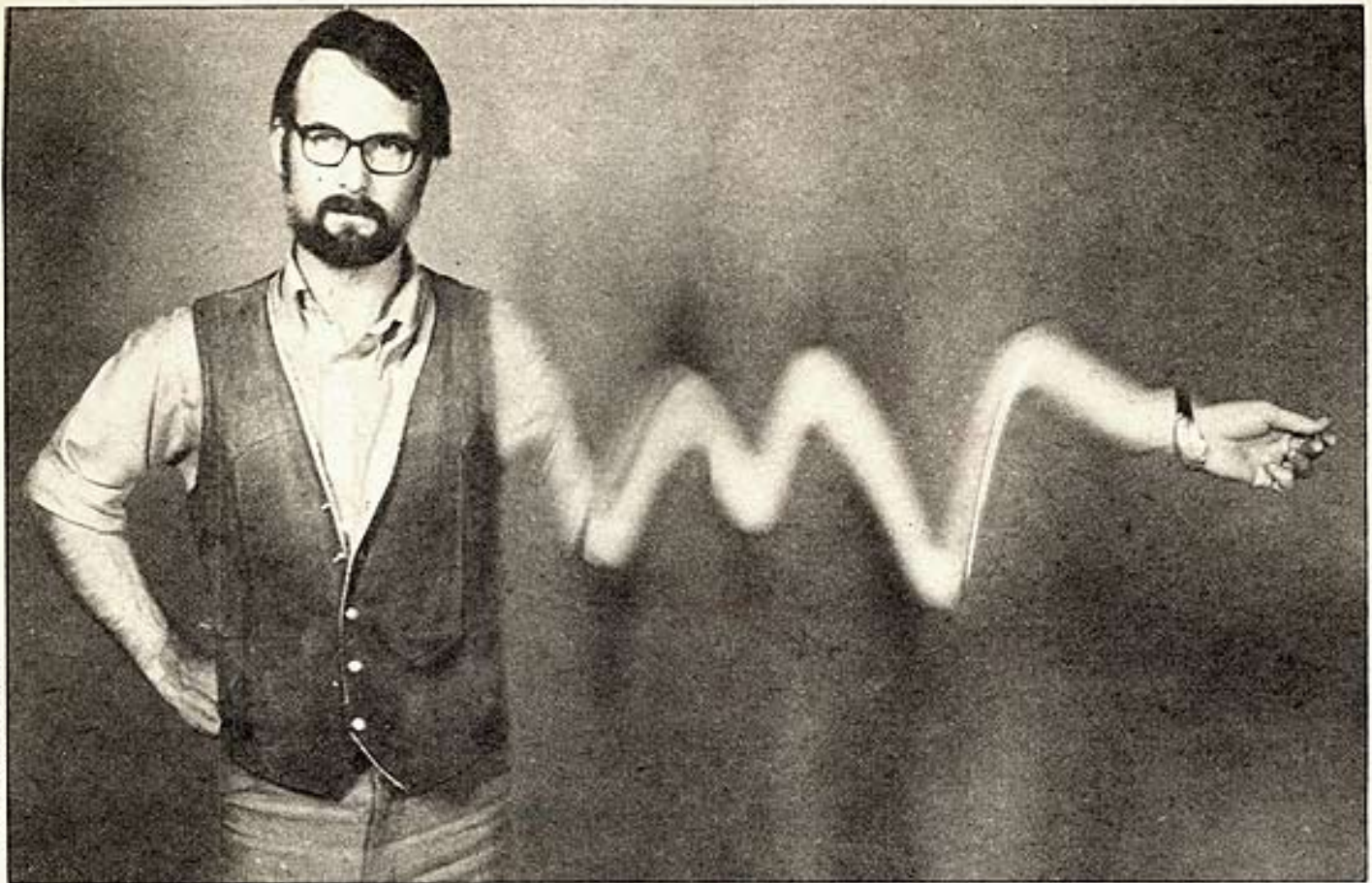
AGENT ORANGE: IS IT A TIME BOMB?

Democrat and Chronicle

Nov. 2, 1980

Introducing... Andrew Davidhazy

Photo by Bob Rose



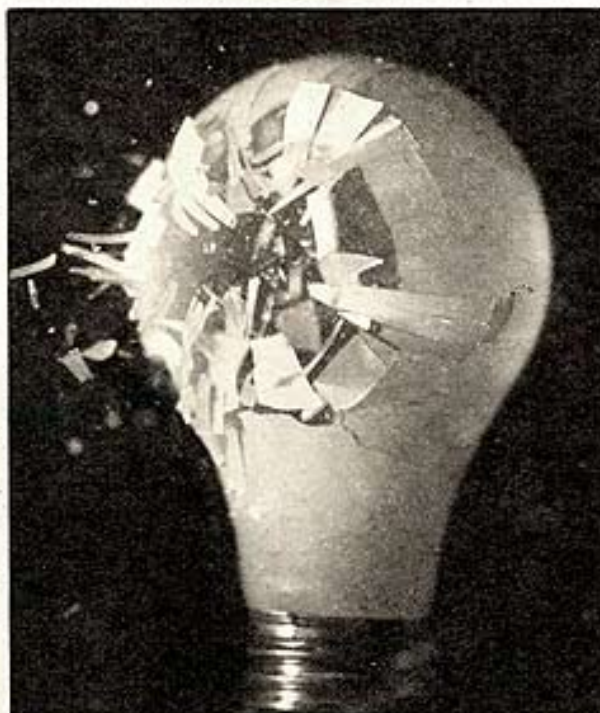
The room is pitch black; tensions run high. A rifle is wedged into place, its muzzle eight feet from the speechless victim. In a split second, the rifle barks, the room explodes with light, and Andrew Davidhazy has wasted another orange to bring you this week's *Upstate* cover photo.

Davidhazy, an associate professor at Rochester Institute of Technology, shoots fruit so three classes a year can learn how to take high-speed flash pictures. When *Upstate* wanted to blow up an orange, we turned to him.

He took the photo using Ektachrome 400 speed film, a 200mm lens with his 35mm Canon camera set at $f/8$ and the shutter locked open. The burst of light from the electronic flash lasted 2 millionths of a second and was synchronized to the firing of the .22-caliber rifle by an electronic circuit triggered by the gun's report.

Davidhazy came to RIT as a student in 1961 and has been there, in one role or another, ever since. He, his wife Lucille, and children Jennifer, 14, and Andrew, 13, live at 32 Wellington Drive.

"It was after I'd seen work by (Harold E.) Edgerton



kind of information only photography could provide, and I wanted to provide it." Edgerton pioneered high-speed flash photography.

High-speed photographs, Davidhazy says, can record events that last only a millionth of a second — action scientists could see no other way.

This photograph of a light bulb shattering was particularly difficult, he says, because he had to fire the slingshot in total darkness, so the only light would come from the camera flash.

Another of his passions is strip photography; in his office is a long, narrow photo, showing all sides of a face: first the left, the front, the right and then the back of the head. Such photos are made by taping a vertical slit (cut in thin black cardboard) inside the camera back. The shutter is locked open; the subject rotates as film is cranked past the slit. A similar technique is used to produce this photo of Davidhazy waving his arm: His body stays motionless but he moves his arm up and down as the film is cranked past. In real life, his arm is quite normal.

Three dozen oranges were blown to marmalade to bring you the cover photo, but Davidhazy swears the fruit

live at 32 Wellington Drive.

"It was after I'd seen work by (Harold E.) Edgerton that I became excited about technical photography," he says. "I could see that engineers and scientists needed the

Three dozen oranges were blown to marmalade to bring you the cover photo, but Davidhazy swears the fruit never knew what hit it.

— Jody McPhillips