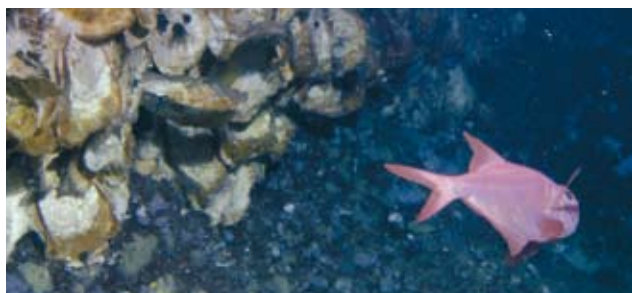


## Wonderfully Fossilized

Living deep-sea oyster discovered

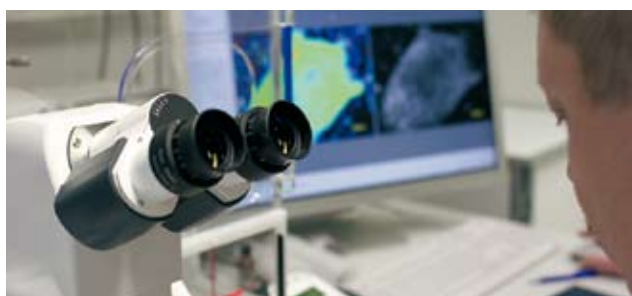


*Successfully hidden: a primitive oyster.*

Oysters are sometimes located in the strangest of places. Not only in Frank Schatzing's book "The Swarm", but also in the ocean. The deep sea oyster hid under overhanging rocks for decades so successfully from the dragnets of researchers that it was considered extinct until the 1970s. By chance, paleontologist Max Wisshak discovered a significant cluster of hundreds of oysters near the Azores at a depth of 500 meters on a video taken with his research submarine Lula. At the site of filming, he discovered living deep-sea oysters and thus a scientific sensation. The primitive oyster was probably 100 years old and had annual rings made of lime. Wisshak analyzed these layers of lime under the microscope, a ZEISS *Axiophot*. From their composition, he was able to identify fluctuations in the water temperature and other environmental parameters such as nutrient content. He is currently researching how these oysters can be used as a climate archive for the North Atlantic.

## Cancer Research at Its Best

Carl Zeiss opens application center at the German Cancer Research Center



*Dynamic cell processes under the microscope.*

Cancer is the second most common cause of death in Germany. The German Cancer Research Center (DKFZ) in Heidelberg focuses its activities on research into the malignant growth of cells. The goal of the DKFZ is to systematically research the mechanisms that lead to the

## Movies and Pixels

The ARRI AG can do both:  
analog and digital



*ARRIFLEX 35II, 1946*

Movie buffs prick up their ears with great interest when they hear that ARRI is now building digital cameras. The company that has been working with Carl Zeiss for 70 years is gaining a second foothold with this new technology.

In 1917 August Arnold and Robert Richter founded the firm "Arnold & Richter Cine Technik" in a former shoemaker's workshop in Munich. Today, ARRI is the world market leader in the field of analog movie cameras. The new digital technology is not intended to replace the proven analog technology, but to supplement it. In the future, other magnificent movies such as *The Lord of the Rings* and *Perfume* will also be filmed with analog cameras. However, digital cameras offer new possibilities. "We are utilizing these capabilities," says ARRI Product Manager Marc Shipman-Müller, "but, of course, we are continuing to build cameras for 16 and 35 millimeter film."

onset of the disease and to determine risk factors. With the opening of the application center last summer, Carl Zeiss is supporting the research work of the DKFZ at the technology park in Heidelberg which is one of Germany's most important biotechnology locations and one of the global leaders. Research can be performed on complex dynamic processes in the lab rooms with a laser scanning microscope, high-quality light and stereo microscopes and automated microscope systems. Scientists develop new approaches for the prevention, diagnosis and treatment of cancer based on the results of these examinations. Carl Zeiss not only provides technology: workshops give scientists an opportunity to learn the latest microscope techniques and enhance their know-how. Furthermore, the Advanced Microscopy Forum regularly provides information on current topics in research, science and development.