

Atom, Smallest Bit of Matter, Photographed by Physics Prof

Whether you think it looks like somebody plopped a stone in a puddle of oil or a sample from Rohrschach's ink blot test or a dormitory room before the cleaning lady arrives, the picture below is actually the first photograph of an atom, magnified up to more than 3,000,000 times its actual size.

It was snapped by Dr. Erwin W. Mueller, research professor of physics, who has accomplished the scientific impossible after 22 years of atomic and electronic research.

In the process, Mueller invented and perfected two microscopes—the field ion microscope, called the most powerful microscope in the world, and a field emission microscope.

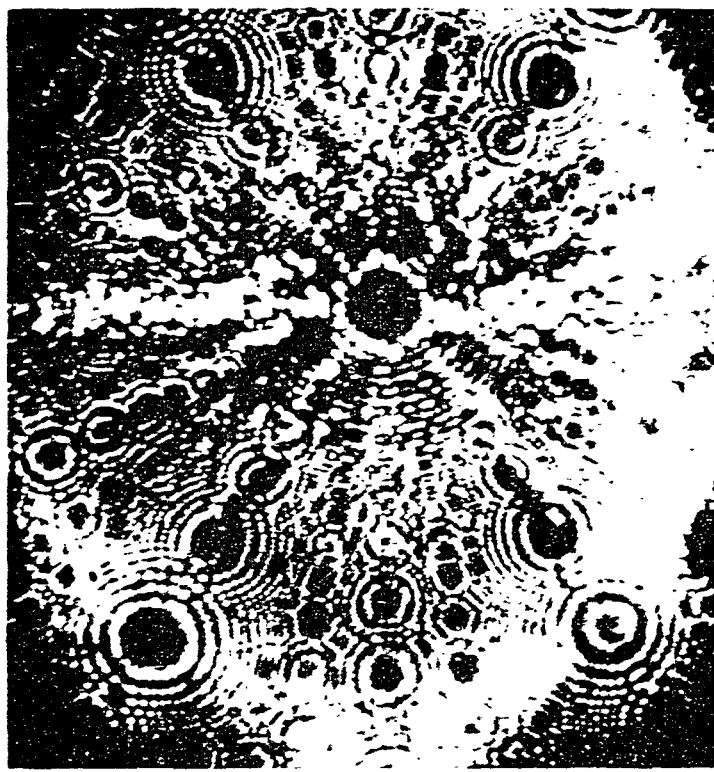
He became the first man to catch a glimpse of the elusive atom by developing a method to control the release of atoms under extremely low temperatures.

Using his super-powerful microscope he can run single atoms through a field of vision like sheep and is also able to measure how much force is necessary to move them.

Mueller will relive the story of his achievement first announced in October 1955, on film over CBS Television's nation-wide "Conquest," from 5 to 6 p.m. Sunday. Locally, the program will be carried by Channel 10, WFBG-TV, Altoona.

The third program in the "Conquest" science series is featuring Dr. Mueller in an exclusive report on his discovery of the shape of the building block of the Universe. This is the first time his atom snapshots will be shown on TV. Reporting on the scientific breakthrough will be "Conquest" host Eric Sevareid.

The feature on Mueller is being presented in cooperation with the American Association for the Advancement of Science and the National Academy of Science.



NAME THE SHAPE—It's a camera-shy scientific marvel snapped for the first time by Dr. Erwin W. Mueller, research professor of physics—the atom.

Prof Writes Defense Text

Dr. Norman C. Pendered, associate professor of industrial arts education, has written a textbook entitled "Passive Defense."

The text was written while he served as Educational Specialist in the U.S. Naval Training Publications Center, Washington, D.C. It is part of the officer training program of the U.S. Navy and is especially designed for the regular and reserve officers in the Civil Engineer Corps.

Although specifically prepared for naval officers, wide distribution use of the text is anticipated in other branches of the armed services and the Federal Civil Defense Administration.

Self-Nominations Open in Ed, LA

Self-nomination blanks are available for the Education and Liberal Arts Student Councils for freshmen, sophomores, and juniors who have a minimum 2.5 All-University average.

Liberal Arts students may register in the dean's office and must supply two wallet sized photos. Further information may be obtained from David Epstein, AD 7-4409.

Education students may pick up their blanks at the Hetzel Union desk.

OPENING NIGHT

"The Boy on the Beach"

by Violet Welles

8 p.m. Centre Stage

No Tickets Available for Friday

FFA to Hear Almquist Speak

Dr. John O. Almquist, professor of dairy physiology, will speak at the spring banquet of the Collegiate Chapter of the Future Farmers of America at 6:30 tonight in the Hetzel Union ballroom.

Almquist will give an illustrated talk on "A Visit to Western Europe and its Agriculture." He gathered the material for his talk when he was in Western Europe representing the University at the Third International Congress on Animal Reproduction at Cambridge University.

Dr. Glenn Z. Stevens, professor of agriculture education and State FFA advisor, will present pins and certificates to 47 seniors and four foreign students who will be practicing teaching during the second eight weeks of the semester. Tickets for the banquet may be purchased for \$3 each at the Agriculture Education Office.

Judas to Be Discussed As 'Passion Personality'

Don Morgenson, graduate assistant at the Lutheran Student Center, will discuss Judas, this week's "Passion Personality," at 7:30 tonight at the Center.

This is the third of a Lenten series "Personalities of the Passion." Refreshments and volleyball will be offered following the meeting.

WMAJ Programs

FRIDAY	
6:50	Sign On
6:55	Morning Show
7:00	Morning Devotions
7:05	Morning Show
7:10	News
7:15	Classical Interlude
7:20	News
7:25	Swap Shop
7:30	Music for Listening
7:35	News
7:40	Quest for a Day
7:45	Music at Noon
7:50	Centre County News
7:55	What's Going On
8:00	Music
8:05	Area Sports
8:10	Strike Up the Band
8:15	World News
8:20	Afternoon of Music
8:25	News
8:30	Afternoon of Music
8:35	News and Market Report
8:40	Music for Listening
8:45	Sports Special
8:50	Music
8:55	Local News
9:00	Fulton Lewis, Jr.
9:05	News
9:10	Music for Listening
9:15	Headlines in Chamberly
9:20	Music for Listening
9:25	Hubzapoppin' (WDFM)
9:30	Campus News Roundup (WDFM)
9:35	News
9:40	Music of the Masters
9:45	News
9:50	Groovology 84
9:55	News and Sports
10:00	Sho' On!

Three Art Students Have Work Shown

Three students in applied arts are having their work exhibited in recognition of outstanding work done in figure drawing classes.

The exhibition, consisting of 25 drawings, is located in the Department of Arts gallery in 105 Temporary.

The students are Marie Ammatturo, senior in applied arts from Atlas; Ann L. Rozelle and Kathryn L. Shannon, juniors in applied arts from Bellefonte.

GE Technician To Speak

Dr. J. D. Mackenzie of the ceramic studies section at General Electric Corp. will speak on "Physico-chemical Studies of Some Glass-Forming Liquids," at 4:10 p.m. today in the Mineral Sciences Auditorium.

STATE NOW

Feat. 2:01, 3:57, 5:53, 7:49, 9:45

"THE FEMALE ANIMAL"

Heddy LAMAR Jane POWELL
Jan STERLING George MADER

CinemaScope

*** CATHAUM**

Now - 1:30, 3:31, 5:32, 7:33, 9:34

"Finest American Film of the Year!"—Sat. Review

MARK DOUGLAS

PAISLEY GORY

*** NITTANY**

Now - Doors Open 8:45 p.m.

Anna Sewall's Classic

"THE COURAGE OF BLACK BEAUTY"

COMING SUNDAY

"PASSIONATE SUMMER"

IT'S FRENCH—ALL THE WAY!

Seniors to Order Caps, Gowns

Seniors and graduate students sure, March 24-26; and Chemistry who expect to graduate in June and Physics, March 27-28.

Invitations and announcements may be ordered on the same day at the Hetzel Union Desk and are priced at ten cents each. Name cards may be ordered at the same time and place.

The deposit for caps and gowns is \$5; for cap, gown and hood for graduate students, \$10. Students must give their hat sizes when placing orders.

Students who will graduate in military uniform should not sign up for caps and gowns.

The schedule for placing orders is: Education and Home Economics students, March 10-12; Agriculture and Physical Education, March 13-14; Liberal Arts and Mineral Industries, March 17-19; Business Administration, March 20-21; Engineering and Architecture, March 24-26.

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