Cornell Study Finds Secret Of Bacterial Penetration Of Eggs

With its reveral protective layers, the egg is looked upon as one of nature's marvelous engineering jobs in its ability to keep off egg spoiling bacteria.

Despite the shell, membranes, and other barriers, microbes penetrate into the egg—a mustery that has long baffled scientists.

has long harried scientists.

Cornell University researches who have been searching clues to the secret fer years; now believe that the microotganisms "squeeze" through the minutid pores in the membranes to get at the nutritious parts of the egg — the egg white and the yolk.

This is a surprise to many who

parts of the egg — the egg wine and the yolk.

This is a surprise to many who have held a theory that the microscopic creatures drill "holes" in the membranes with enzymes, substances capable of breaking down organic chemical compounds.

The Cornell researchers found that microbes, without the help of enzymes, react with chemical components of the membranes at the colecular level in such a way that the bacteria slip inside as if they were sucked in.

Mrs. Eaine R. Wedkal, a graduate student in food science at the N. Y. State College of Agriculture, Cornell, who made the discovery says: "Microbes don't leave any visible trace in the mem-

any visible trace in the mem-branes after penetration."

She found that some bacteria

excrete chemical compounds called "chelating agents" in their metabolites, or waste products

metabolites, or waste products. The chelating agent may pull metal ions (electrically charged atoms) from the membrances in chemical interactions, making the membranes more permeable. This appears to be the way in which construction takes place she call.

penetration takes place, she said.

Bacteria penetrate into older eggs
more repidiv than into fresh eggs.
and this may be due to the fact that bacteria can grow more rapidly on older eggshell membranes.

she reported.

Another probable reason is that greater quantities of iron can be extracted from the membranes of older eggs and the membranes themselves become more permeable upon sing she pointed out.

On the basis of her work, Mrs. Wedral is now advancing the new theory that bacterial penetration hasically involves the phenomenon of "ironic reactions" between metabilities of the microbes and some of the chemical components of e of the chemical components of

Births

Feb. 2: To Mr. and Mrs. David Palmiter, Wellsville a son.
Feb. 2: To Mr. and Mrs. Earl Nye, Wellsville, a daughter.
Feb. 4: To Mr. and Mrs. Oscar Solomon, Friendship, a daughter.
Feb. 5: To Mr. and Mrs. Joe Hoteldiss, Belliet, a son.
Feb. 5: To Mr. and Mrs. Benjamis Bioly, a daughter.
Feb. 6: To Mr. and Mrs. George Locke, Whitesville, a son.
Feb. 8: To Mr. and Mrs. James Norris, Belment, a son.

Deaths

Tracy Lynne Nye, infant, Wellsville, Feb. 3. Her parents and a brother survive.

Mrs. John Bush, 83, Wellsville Feb. 7. Her husband, a son, two grandchildren and a sister surgive

Mrs. Eugene Wigent. 72, Belmont, Feb. 6. Her husband, a contivo daughters. four sisters on, three brothers curvi

Mrs. Leslie Cross, 80, Wellsville.

Self-Employed Can **Deduct Moving Expenses**

Self-employed persons are now entitled to deduct moving expenses on Federal income tax returns, John E. Foley, District Director, Internal Revenue Service, Buffalo, said today. The Tax Reform Act of 1969 nor only internal are rule on deducting moving expenses but extended the deduction to self-employed neonle. ployed people.

Additional deductions under the new law are now permitted for pre-move house-hunting trips, tempor-ary living expenses at the new loary living expenses at the new location for up to 30 days while looking for a permanent, place to reside, and expenses relat d to selling a residence or settling a lease.

The total tax deductions for the

three categories of expenses may not exceed \$2500, with the deduc-

Feb. 8. A daughter, a son and two

brothers survive.
Tucia Fitz Randolph, 81, Alfred, Feb. 8. Two sisters and a brother survive. tions for house-hunting and temporary living expenses limited to \$1000.

property of the taxpayer for the taxpayer for the taxpayer for moving himself, his family, household goods, pets, and personal effects from the old residence to the new one. For the taxpayer to qualify for the moving expense deduction, his new place of work must be 50 miles farther from his former home than his former place of work work.

of work.

A self-employed person is required to perform services full-time for at least 78 weeks during the 24-month period fellowing arrival at the new location. And not less than 39 of the 75 weeks services must be performed in the first twelve months, Full-time employees need to meet only the 39-week rule to deduct expenses.

Cured and smoked harrs, unless labeled "fully cooked", require further cooking to assure good texture and flavor.

Use the Classified Ad Section

Andover Senior Youth Fellowship To Meet

The Andorer Senior Youthallowship will meet Sunday aver at 7:00 p. m. at the house Atwell. Father Joe Flore, sistant pastor at Blessed Sacricularly, wil lead the discussion.

Appreciation

I wint to thank all for the attons and Kindsesses shows, and also for the many based or are in the pital; and at my dangers, in Belfast for two weeks. many thanks

Addle M. Qook

Appreciation

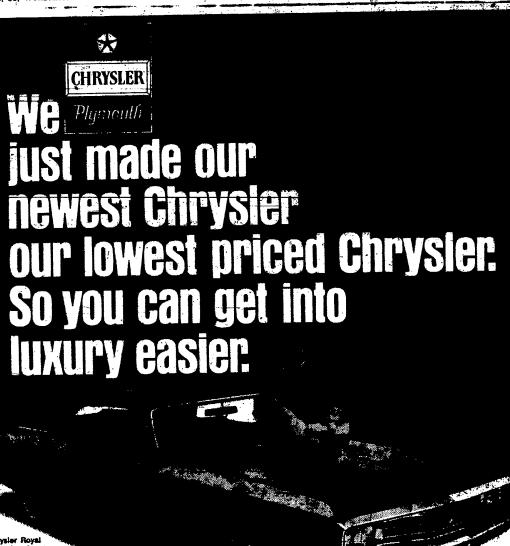
At this time I would like thank my friends and relations to the cards, gifts, phone citis and visitations while I was in the hopital. Also for the acts of kind ness extended to my wifs.

Earl Atwell



Junier Gigl Scout Trees 187 said Cadette Cirl Seeul Proop 218 Mout Cookles PERRUARY 6 - 18 The Cookies will be delivered March 4 - 15th

The girls will be stopping at your home. Please buy and help ser Local Troops.



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