

The First (1st) ERSP D.C. White Memorial Lecture

"Science is like a monastery where we work as replaceable unknowns on the manuscript that is the ever-deepening view of the majesty of interactions in this incredible universe." DCW

Ok, so let's share a bit of David's humor in science and life.

'This is a strongly written paper claiming elegance that is not backed up in the data'

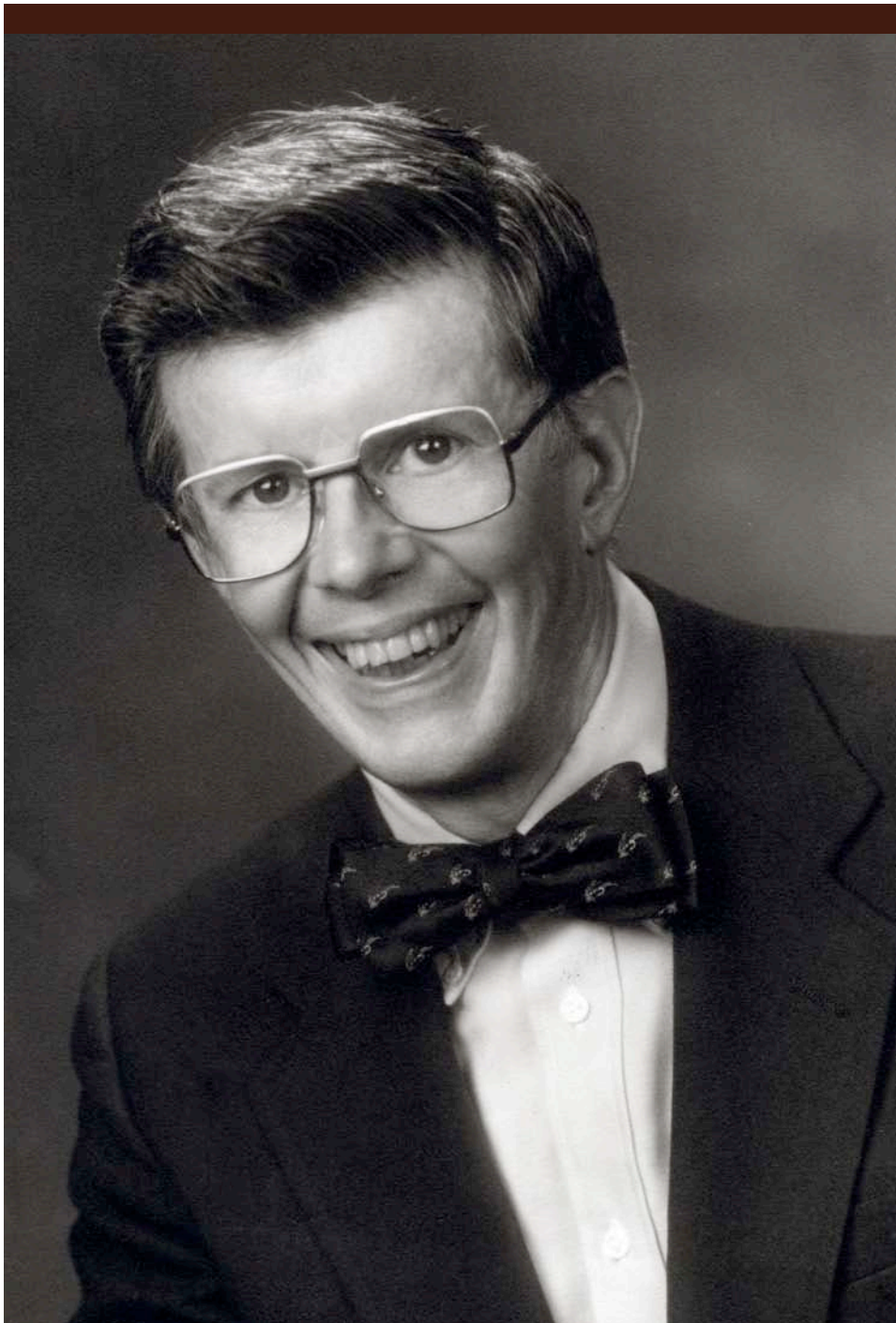
'Beautiful study, well written: I wish I could have done it'

'Co-inertial is wonderful jargon for bad methods application'

'This is a stinker!' (paper on methylotrophic microbes on feet)

'Well written paper with a poor method and a lot of conjecture'

**'This paper has a grandiose title for a complex multi-faceted test....
It is no trichorder that one passes over the water and detects specific life'**



Born: May **, 1929, Moline, IL

Raised in Rock Island, IL “where the Mississippi flows west”

**Rock Island High School, Class of 1947.
First train ride was to Dartmouth**

**Graduated Dartmouth: Magma cum Laude,
Chemistry and Geology, 1951, wrestled 120 lb**

**Tufts Medical School 1955. “Chose Medical
school cause my roommate did.”
“ I made my best decision: to marry Sandy-and
she was too young to know better...”**

**U.S. Naval Medical Corps; Lt. 1956-58. Ship
doctor. “practical course in treating STD’s”**

Rockefeller Univ, Ph.D. in Biochemistry, 1962.

**Biochemistry Dept. U. Kentucky Med. School.
1962-1972. “taught medical students hopefully
more clinically relevant biochemistry...”**

**Dept of Biological Sciences, FSU. 1973-1985
‘establishing a clinic in basement of a church’**

**UT-ORNL Distinguished Scientist. 1986-
“having other scientists visit our empty nest”**

**Celebrated 50th wedding anniversary July,
2006 three children, 10 grandchildren**



Garvey

DC White Factoids:

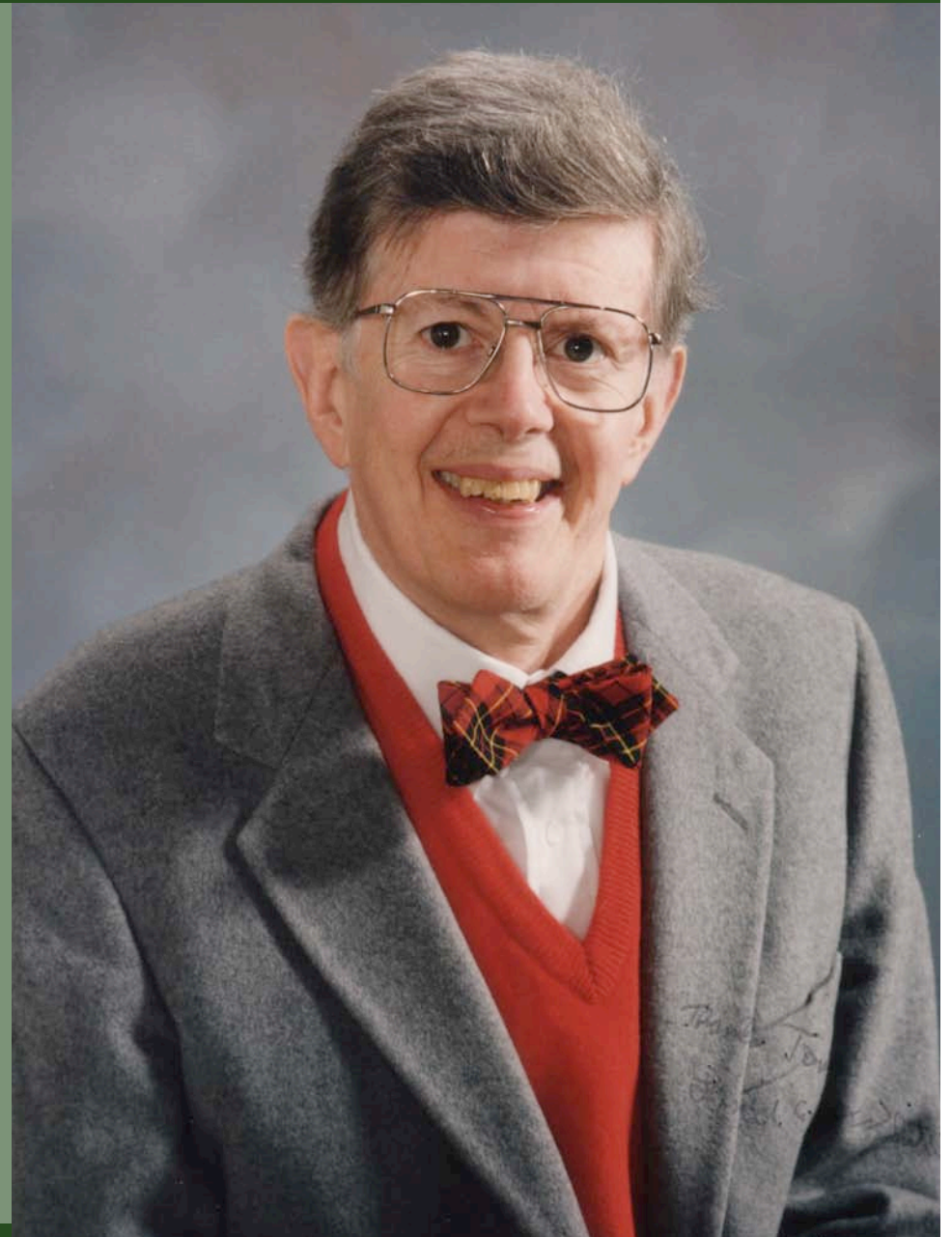
>500 Peer reviewed publications
~ 10, 000 citations
>20 papers cited more than 100 times
H-index of 61

DCW Published in more than 125
different journals

>50 articles in Applied and Environ Micro
~48 in Journal of Bacteriology
~30 in Journal of Microbiol Methods

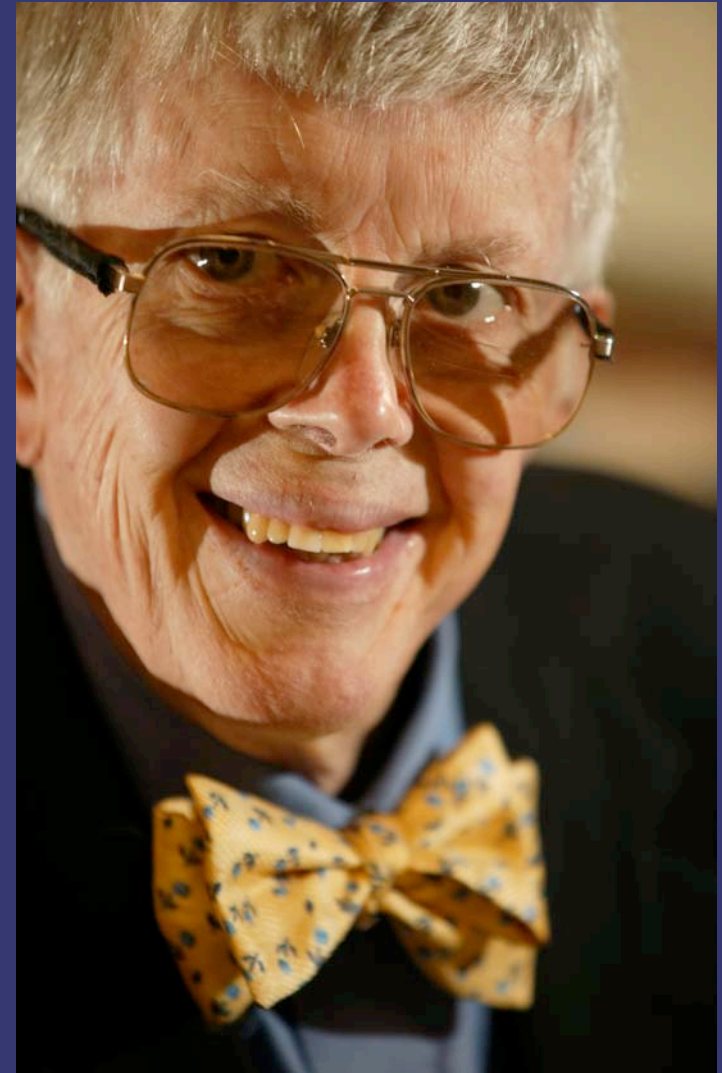
DC did not do chicken-shit research!

'Lipid components in anal sacs of three mongoose species.' 1992. J. Chem. Ecol. 18: 1511-1524



“David White was pushing molecular microbial ecology (molecular biomarkers and signatures) before we could spell it”

- 1962: Cytochrome-linked fermentation in Bacteroides**
- 1964: Vitamin K's and new group of naphthoquinones**
- 1967: Extraction and characterization of lipids**
- 1970: Carotenoid formation by Staphylococcus aureus**
- 1974: AA and e- transport in membrane vesicles**
- 1975: Mitochondrial cytotoxicity of CO**
- 1977: Muramic acid to measure estuarine biomass**
- 1979: Phospholipids as biomass measures**
- 1981: Microfouling of metals exposed to seawater**
- 1983: Ground water and sediment microbiota**
- 1986: Diatoms beneath Antarctic ice**
- 1985: FTIR spectroscopy for microbial ecology**
- 1985: Microbial extraction of H₂ from lunar dust**
- 1997: Impact of rising CO₂ on sediment microbiota**
- 1997: Sensitive identification of Cryptosporidium**
- 2005: Lipids in breath as harbingers of pathobiology**





Scientist

writer

mentor

gardener

artist

grandfather

father


FRIEND






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in the State of Tennessee through*

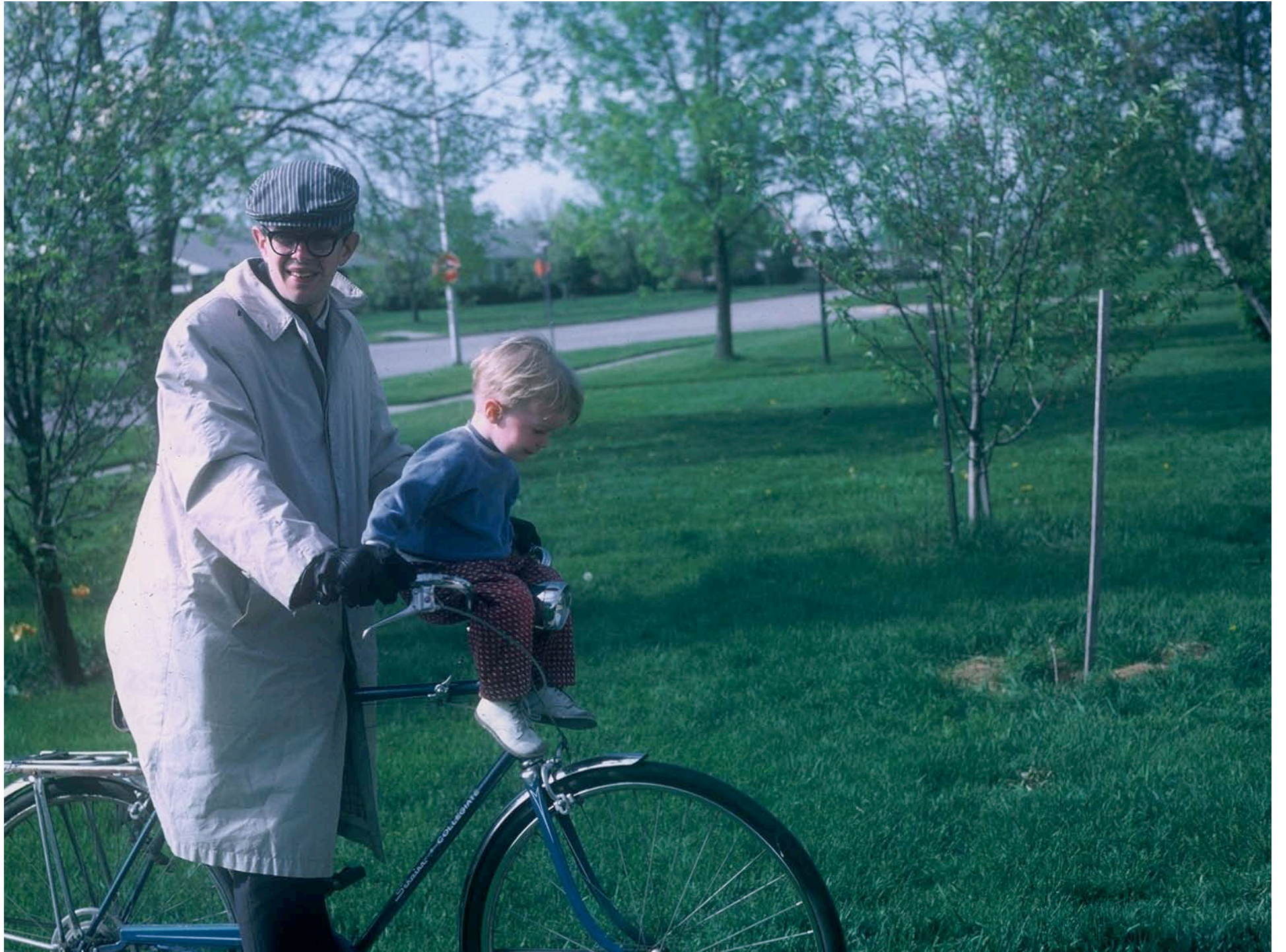
MAY 31, 2007



Lowie H. Bell

EXECUTIVE OFFICER, HEALTH RELATED BOARDS



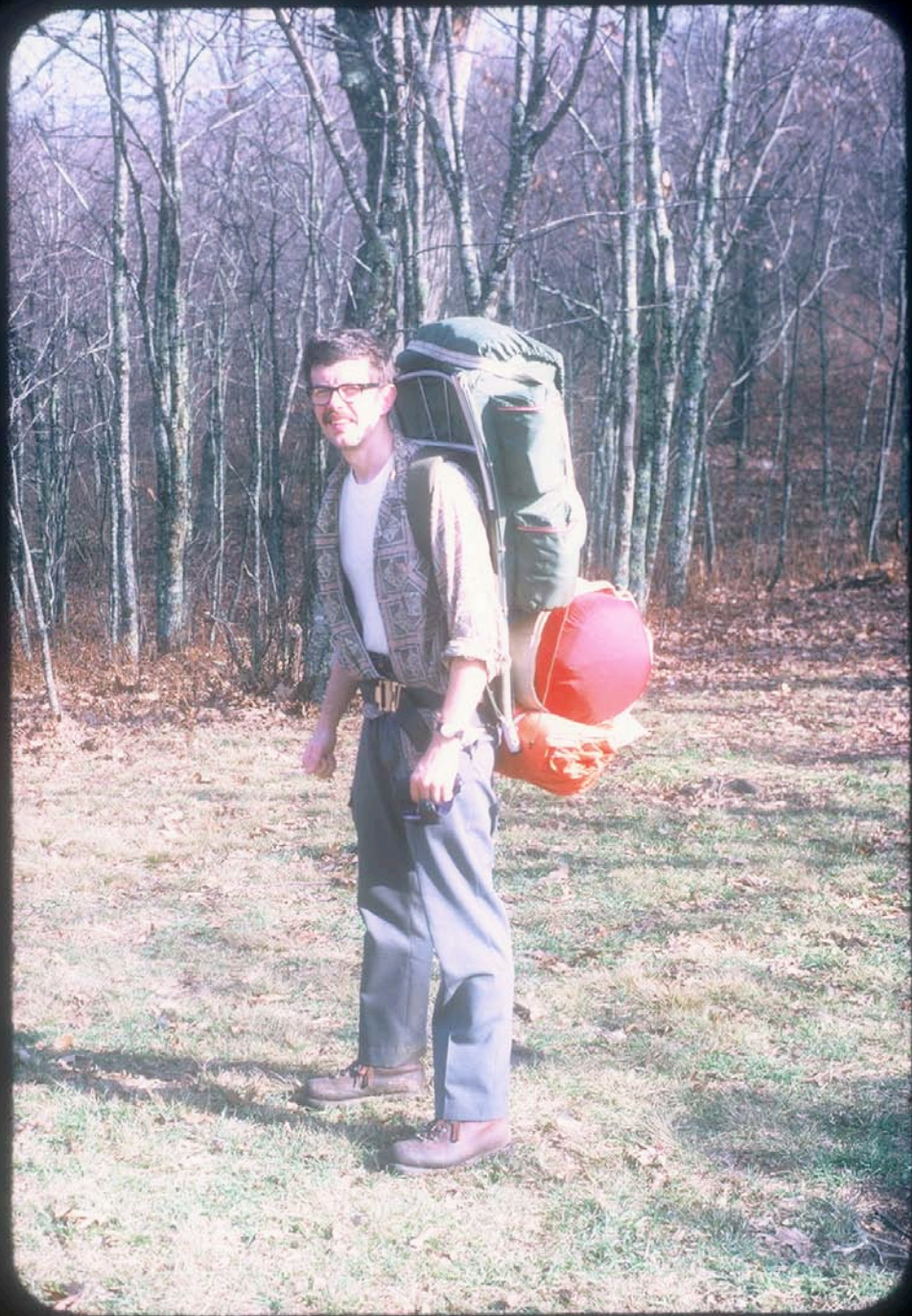




























OPENWATER SCUBA DIVER

DAVID C. WHITE

HAS SATISFACTORILY COMPLETED AN OPEN WATER
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THE NATIONAL ASSOCIATION OF UNDERWATER INSTRUCTORS



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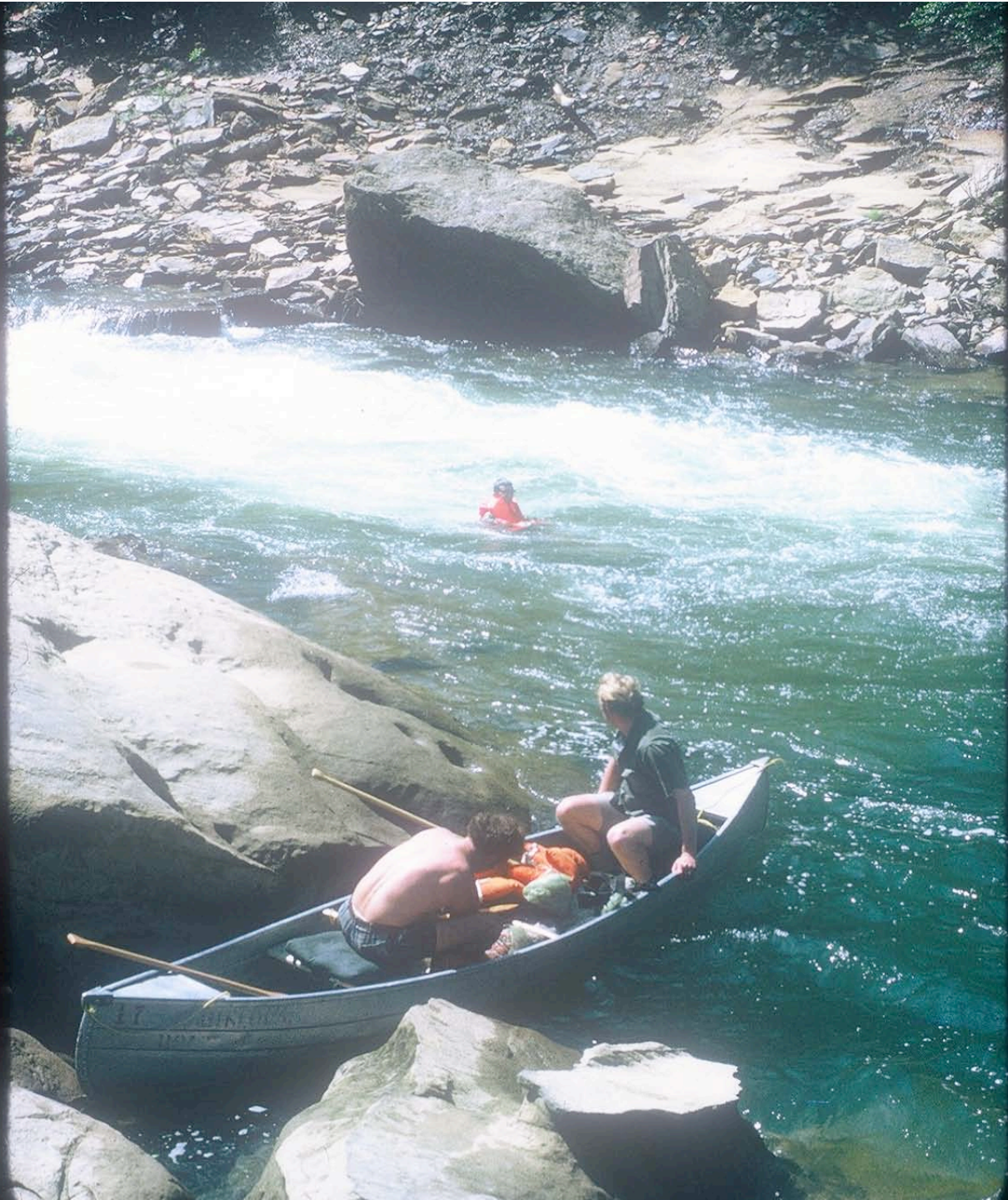


















Past deeds are blamed for Lexington's pollution

By JOE WARD

LEXINGTON, Ky. — Mayor Pro Tem Tom Underwood, discussing water pollution before a University of Kentucky Earth Day audience last night, depicted the city government he controls as one struggling to correct pollution problems left by previous administrations.

Underwood charged that the state Water Pollution Control Commission, which fined the city and imposed a sewer tap-on ban last week because of the pollution flow into an area stream, acted illegally and in a discriminatory manner.

He said the commission move "was designed to take pressure off Kentucky's real polluters whose members control the state commission."

Underwood, who leads a three-man majority that took control of city hall last year after being elected on a promise to remove Lexington's sewer-service tax, told the 50 persons in his audience that "ecology to me is a happy thing."

He invited UK students and "interested community residents" to use Lexington as a laboratory for developing ways to improve the environment. "Please communicate your ideas, your research with me. We'll listen at city hall," he said.

Roger Westman, a student and member of the Environmental Awareness Society, which sponsored the event, said his organization had asked the controversial city leader to debate on water pollution with Dr. David C. White, a UK bio-chemistry professor.

White, who also is chairman of the

water pollution committee of the conservationist Sierra Club's Cumberland chapter, told the students that the removal of the sewer tax by Underwood's government was an act of "political irresponsibility."

He showed slides of pollution in West Hickman Creek, drawing special attention to the toilet paper hanging in the weeds and to dead aquatic life lying in heavy algae.

"What is (West Hickman Creek) now?" he asked. "It's a dead open sewer. We stopped the sewer tax and we're paying for it."

"For once I'm on the side of the Kentucky Pollution Control Commission," he said. "They took time out from their vigorous defense of industrial polluters to come to Lexington and say 'stop it.'"

FRIDAY MORNING, APRIL 23, 1971

'A Beautiful Set' LEXINGTON HERALD Feb 13, 1971

Proposed Sewage Plant Regulations Disclosed

By MARYJEAN ALEXANDER
Tentative standards for regulating local waste treatment plants, over a year in preparation by a Board of Health task force, were presented publicly last night during an open hearing.

Comments offered during the hearing, held at the Fayette County Courthouse by the Lexington Fayette County Board of Health, generally followed remarks made by Sierra Club representative Dr. David White.

"A beautiful set of regulations," Dr. W. T. Maxon, speaking for the Audubon Club, called the tentative new code "a very fine set of regulations . . . long

untreated, improperly or inadequately treated waste water into the rivers, creeks, branches, lakes, lagoons, ponds and other waters of Fayette County.

The hearing last night was held so the Board of Health and its task force members could obtain the general impression on the new code from those present.

Suggestions heard at the meeting will be considered later by the task force when it takes additional looks at the code, and some suggestions may be incorporated into the final draft to be presented to the Board of Health.

liter of final effluent. —The temperature of the final effluent shall be in conformity with the standards established for the interstate streams of Kentucky which are classified for aquatic life.

The 16 pages of regulations also stipulate that final effluents from waste treatment plants shall not be discharged into dry ditches, intermittent streams, ponds, sinkholes, wells or water supply reservoirs at any location which may contaminate or endanger drinking water supplies or recreational waters.

Each plant must provide facilities and access for sampling of waste water influent and final effluent.

Efforts to Prevent Strip Mining Suggested

Dr. Raymond P. White of the UK Med Center presented the Medical Committee for Human Rights with a suggestion last night encouraging people to take efforts Saturday to block strip mining in Knott County.

White presented the organization with material from a letter written by William Howard Cohen, a Knott County citizen.

Cohen's letter stated that strip mining has been illegal for three months in Knott County, but that strip mining was still going on in the county. The letter further called upon law officers, citizens of Knott County and students to gather at a strip mine site on Saturday at 8 a.m. to prevent the strip mine from functioning.

Cohen said that he intends to lie down in front of bull-

dozers if necessary.

Cohen's letter stressed that he thought this was a chance for people who believed in "law

and order" to see that strip mine laws are enforced.

The Medical Committee for Human Rights is an organiza-

tion of persons connected with the Medical Center who say they are attempting to defend human dignity.

Biology Prof Condemns Pollutants, Mutations

By MARY ANN BACHMANN
Kernel Staff Writer

"Anyone who takes water from a stream should have to return it in the condition which he found it."

So said Dr. David White of UK's Biochemistry Department, who spoke to about 30 members of the Environmental Awareness Society last night.

Water pollution contributes to anaerobic degradation, which is a lack of sufficient oxygen in the water, said White. Methane, a potentially explosive gas, often collects in these areas.

White said power companies are responsible for thermal (heat) pollution because their turbines and condensers return heated water to the original water source.

This increases the water temperature, which disturbs the reproductive cycle of organic matter in the water, and creates an imbalance in the food chain.

Kentucky contains 11,000 miles of acid-polluted streams caused mainly by improper strip-mining procedures, said White. With only 10 percent of the state's coal supply mined, he said, it would be impossible to halt strip mining.

But in the right locality, "a conscientious coal operator is able to remove 60-70 percent of the coal without damaging water or timber resources," said Dr. White.

Along with the increase in polluted streams comes an increase in bacteria which are re-

sistant to all known antibiotics, he said. This R (resistance)-factor will be a tricky problem for scientists to solve.

The pollutant DDT has affected enzyme production and

degraded hormones, Dr. White told the group. As an example, he said that DDT has inhibited the hormone responsible for egg-shell production in the female eagle and is leading to the extinction of the eagle.

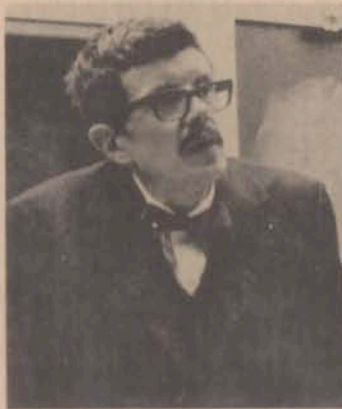
In the area of defoliants, Dr. White mentioned the agent "2,4,5,T." America has dumped 20,000 tons of this defoliant on Vietnam, he said, yet it has been proven that 2,4,5,T is an agent which attacks growing things, including humans, in the embryo stage.

"It creates monsters out of vertebrates," said Dr. White. He showed a slide of a Vietnamese baby deformed by 2,4,5,T. White also said that a report on this defoliant has been suppressed by the government for six months. Despite its effects, it is still being used in Vietnam.

Another problem, he said, is that "the fishing industry is slowly degenerating." Estuaries, which are the areas of the ocean closest to the land, and more importantly, "the breeding ground of the ocean," are increasingly being polluted.

"We aren't going to tolerate abuse of our water," said Dr. White. "I think it's time for action." He told the group about a health department hearing to take place in Frankfort Nov. 17. State water quality standards will be discussed.

Dr. White supports acceptance of inter-state, in contrast to intra-state, water quality regulations. Kentucky is one of only five states that has not adopted inter-state regulations, which are similar to federal guidelines.



DR. DAVID WHITE



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Phen 815-675-9520 ;

SEX DRUGS & POLLUTION

A BIOLOGICAL BASIS FOR HUMAN DECISION

REVISED



DAVID C. WHITE







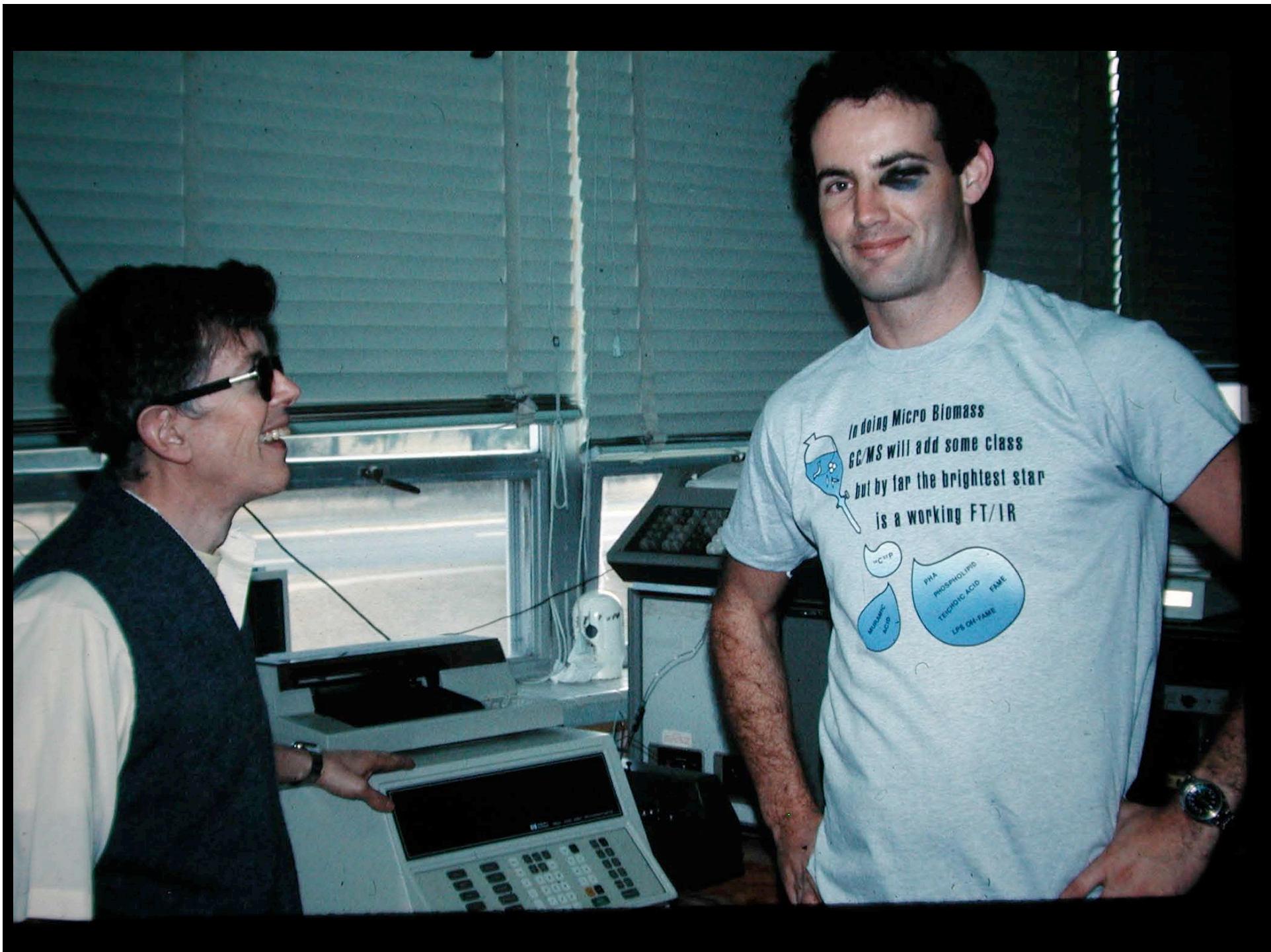




















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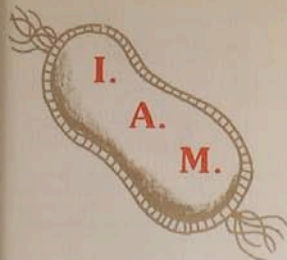
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Chlamydiales isolated by amoebal co-culture

Bdellovibrio predators and mitochondrial endosymbiotic theory

This issue is dedicated to the memory of David C

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David White

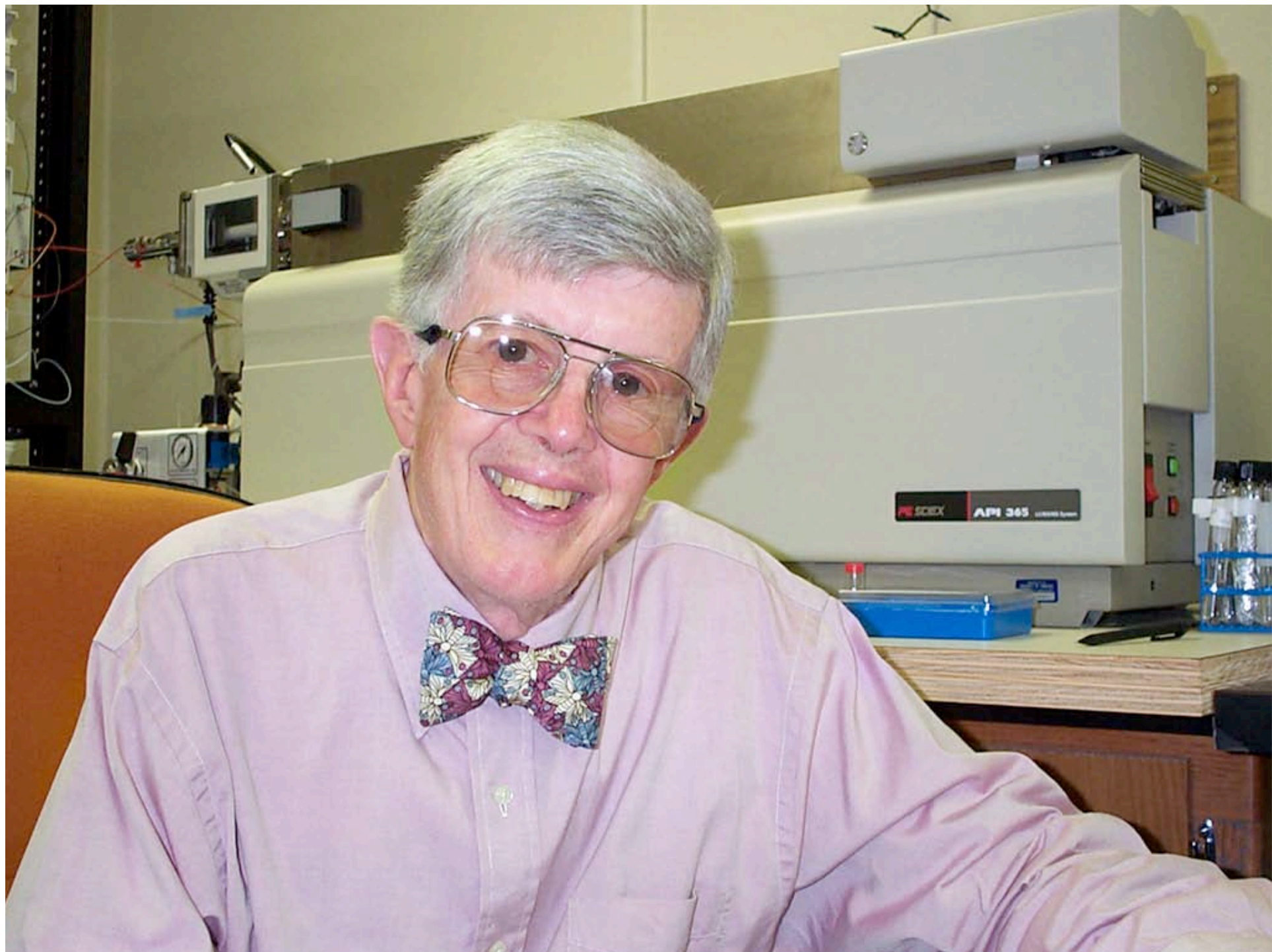
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PROCTOR & GAMBLE AWARD IN
APPLIED AND ENVIRONMENTAL MICROBIOLOGY

DAVID C. WHITE

The Proctor & Gamble Award in Applied and Environmental Microbiology is given to recognize research and development in applied microbiology involving clinical, food, and environmental microbiology.

David C. White, this year's recipient, has played a major role in demonstrating the power of analytical chemistry and microbiology to address problems in industry and the environment. His research has focused on evaluating microbial biomass and characterizing population structure in diverse environments and has pioneered the use of biomarkers as indices of population composition in foodlines and other microbial systems. His recent studies have combined the various analytical techniques to investigate the complex mechanisms of microbially influenced corrosion in industrial water systems.

Dr. White was awarded an A.B. from Dartmouth College, his M.S. from Yale University, and his Ph.D. from Rockefeller University in NYC. He is currently professor of microbiology, pathology and environmental toxicology and executive director of the Center for Environmental Microbiology at the University of Tennessee.

Dr. White was mentored by Gill Cherry, Winston-Salem University, North Carolina.

PROCTOR & GAMBLE AWARD IN
APPLIED AND ENVIRONMENTAL MICROBIOLOGY

DAVID C. WHITE

1995 Clarke Prize Award Recipient

DR. DAVID C. WHITE




CONGRESS OF THE UNITED STATES
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presented to
David C. White
1995 Athalie Richardson Irvine Clarke Prize
in grateful appreciation of outstanding service
to your community
May 12, 1995

Clerk of the House
U.S. House of Representatives













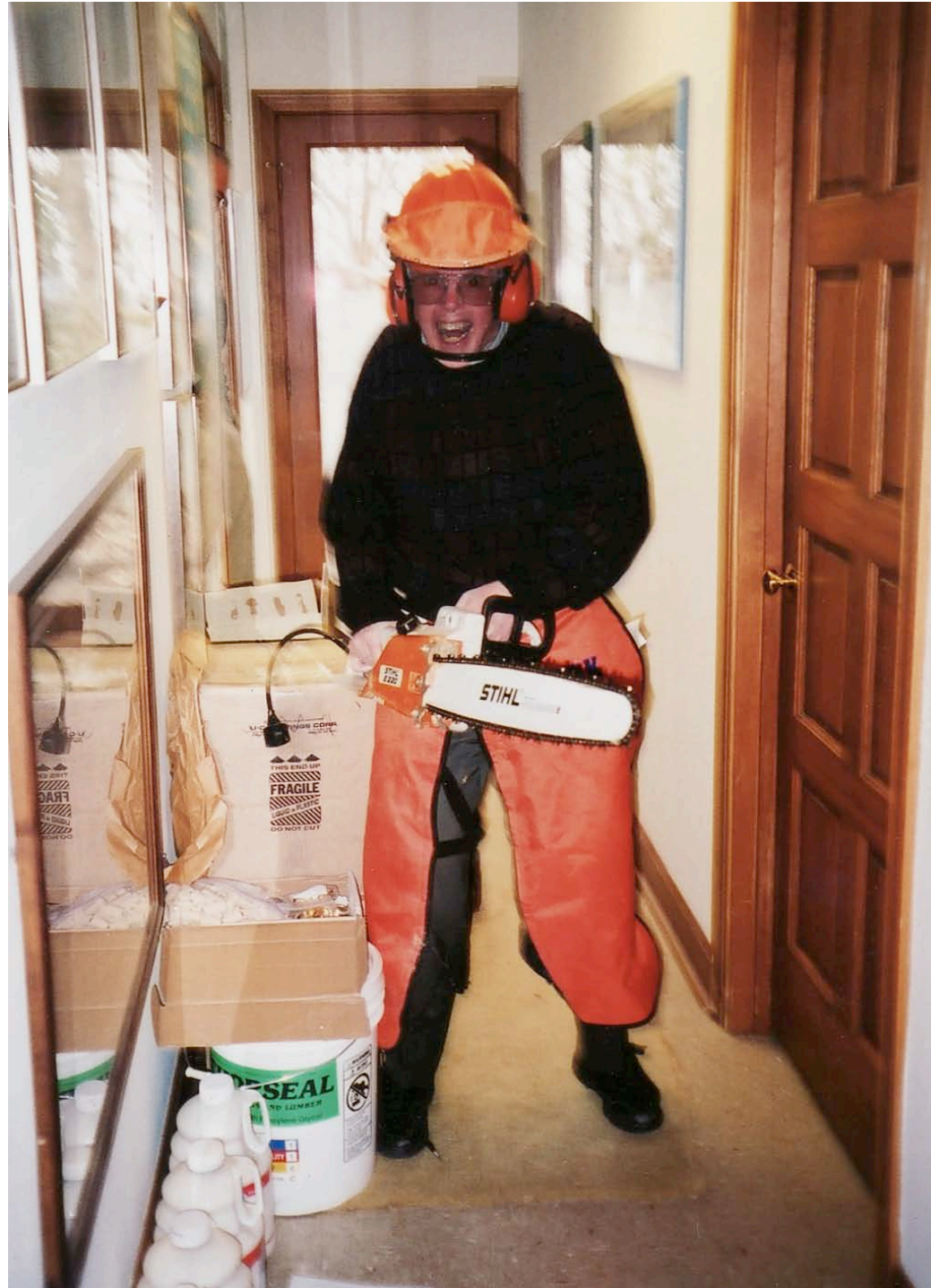






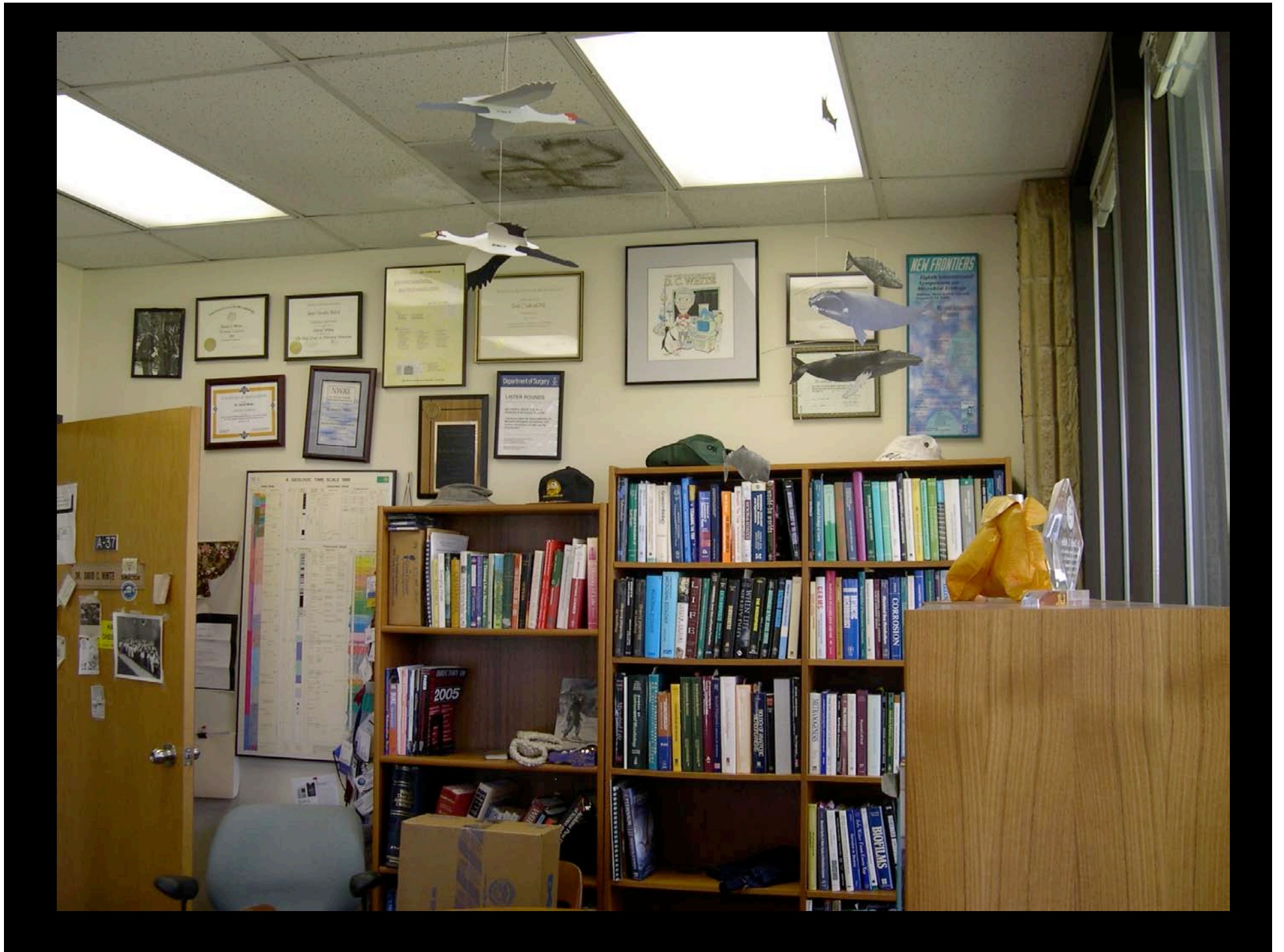
















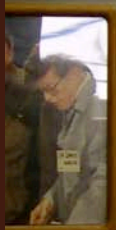
The Memphis Check Club
Distinguished Honor
Presented to
David Cleveland White
Member
1998

Integrated Petroleum
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(IPEC)
Honors
Dr. David C. White
In appreciation of his many
accomplishments in biomarker analysis
and their application in environmental
science and engineering.
2005

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TO THE SUCCESS OF THE
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Dr. David White
has been named as the recipient
of the 2005 IPEC Distinguished
Award for his many
contributions to the success
of the IPEC.

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American Society for Microbiology









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A cash prize of \$5,000, a commemorative medal, and travel to the ASM Meeting where the laureate delivers the D.C. White Research and Training Award Lecture.

ASM will present the first award at the 2008 ASM General Meeting.

http://www.davidcwhite.org/award_research.html

Donations can be made to the award at: ASM, C/O Carol Colgan 1752 N Street, NW, Washington, DC 20036