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## 1x2<sup>7</sup> Cartoons about Science

Mark S. Coyne

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# $1 \times 2^7$ CARTOONS ABOUT SCIENCE

M.S. Coyne  
Department of Plant and Soil Sciences  
University of Kentucky

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St. Christopher Drive Press  
2108 St. Christopher Drive  
Lexington Kentucky USA 40502-1118**

*To My Extended Family*  
*Past, Present, and Future*

# $1 \times 2^7$ CARTOONS ABOUT SCIENCE

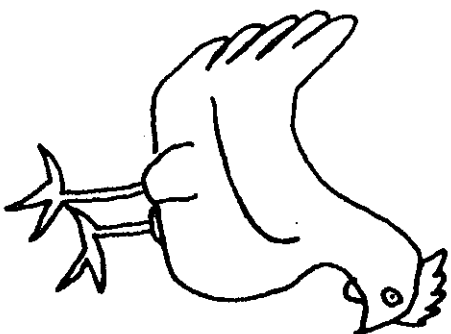
M.S. Coyne

Department of Plant and Soil Sciences  
University of Kentucky

*About Science in  
General*

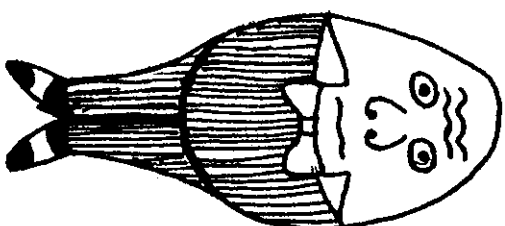
# SCIENCE JARGON

SINE QUA NON



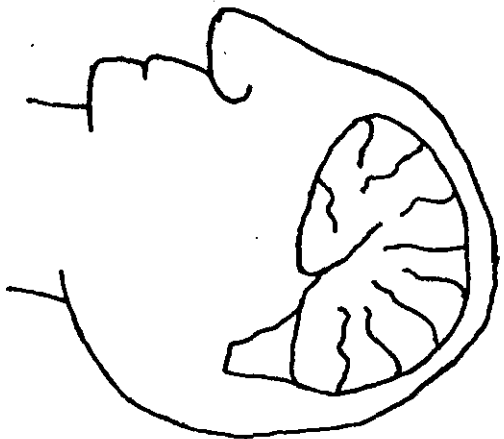
CHICKEN

OR

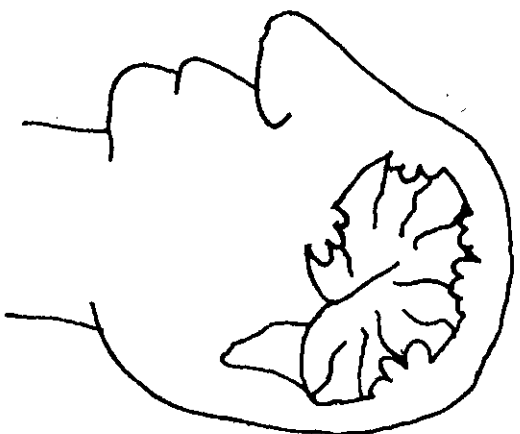


EGG

# ANNALS OF ACADEMIC LIFE



NORMAL

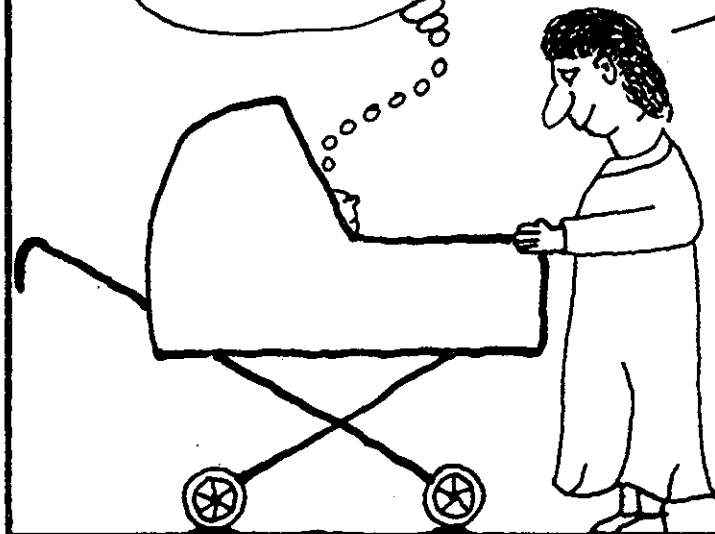


MENTALLY  
CONSUMED

BRIAN CLEARLY SUFFERED FROM AN  
EDIBLE COMPLEX

I WONDER IF  
IT TASTES  
GOOD?

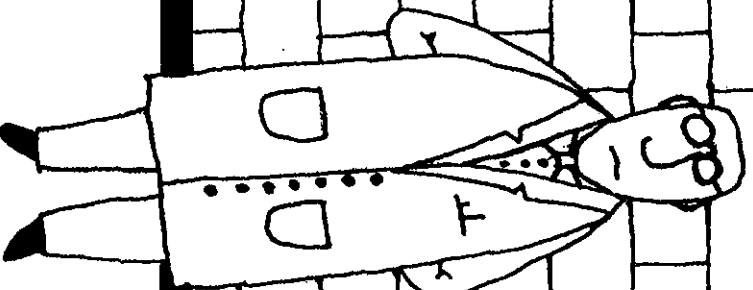
AND HOW IS MOMMY'S  
ITTY BITTY BABY  
FEELING?





# LANGUAGE BARRIER

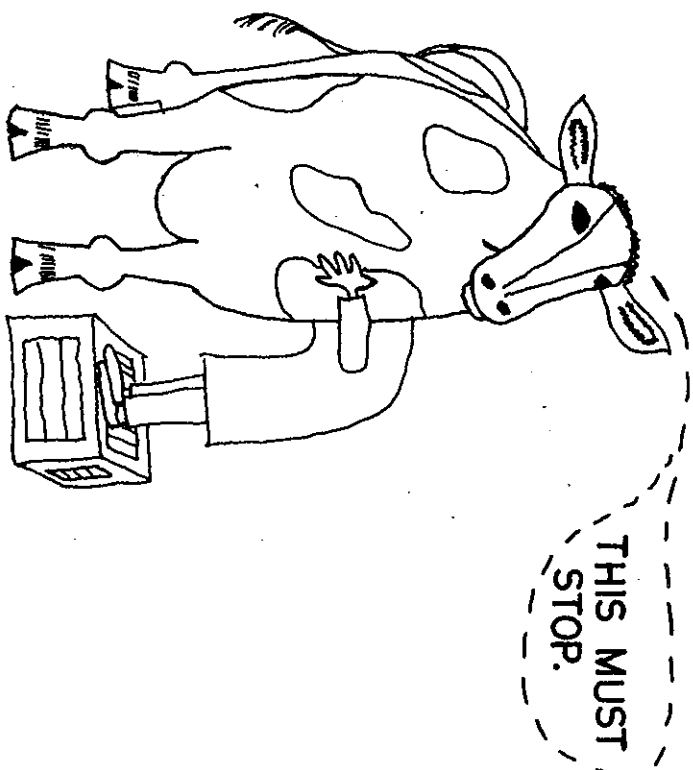
AS YOU CAN  
CLEARLY SEE....



$$\begin{aligned}
 & (x+y) \quad \quad \quad \int x^2 + 2b \\
 & x \cos \theta (x^2 + y^2) - (y^2/x) \\
 & (\cos \theta / \sin \theta) (\tan \theta) \quad \quad \quad \pi r^2 = r^3 \\
 & y^2/2 \quad \quad \quad \sin \alpha^2 \\
 & \int 2x^2 \quad \quad \quad \sin \alpha^2 \\
 & \sin \alpha \cos \alpha \quad \quad \quad -2 \\
 & + 2 \quad \quad \quad \ln \sum \theta_n 2x_{n-1} \\
 & \sqrt{\frac{\cos \theta}{\tan \theta}} \quad \quad \quad = 42
 \end{aligned}$$

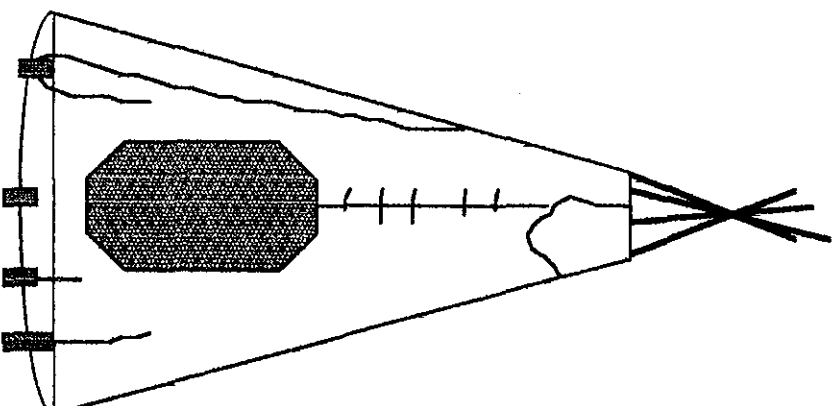
# ANNALS OF ANIMAL SCIENCE

## FISTULATED COWS



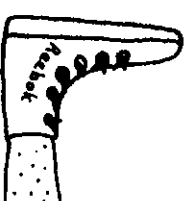
# TROUBLE IN THE BIOCHEMISTRY LAB

I said ATP  
you blockhead!  
Not, I need a tepee!



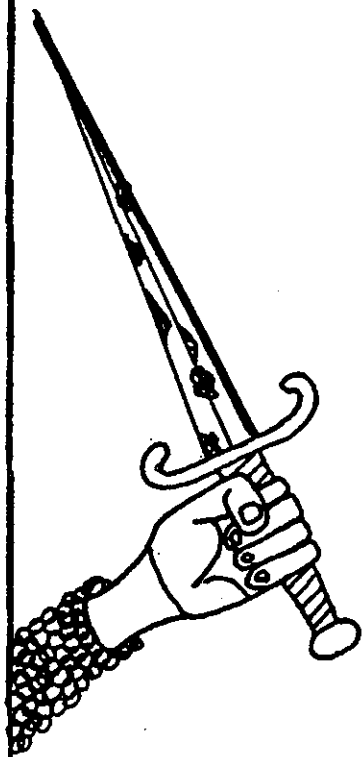
# TROUBLE IN THE BIOPHYSICS LAB

I SAID REDOX,  
NOT REEBOKS,  
YOU IDIOT!



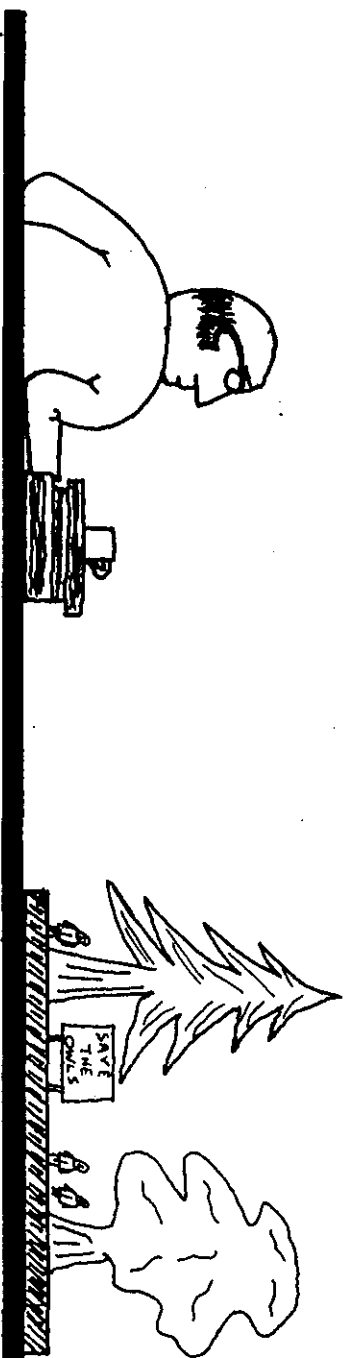
# ANNALS OF REDOX CHEMISTRY

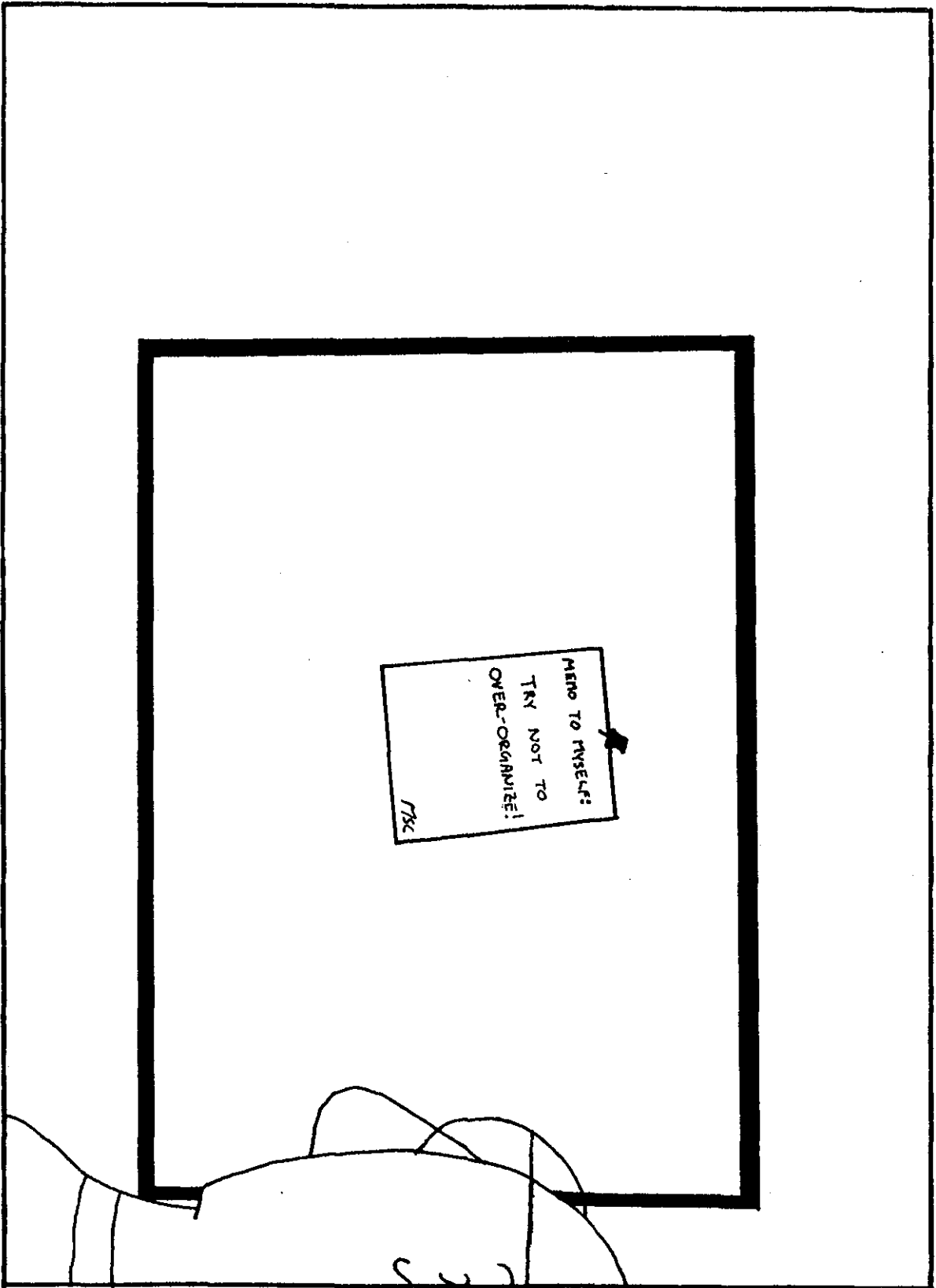
THE SWORD OF CHARLEMAGNE THE JUST  
IS FERRIC OXIDE,  
KNOWN AS RUST.



CAN I INTEREST  
YOU IN SOME  
RUST-OLEUM  
MY FRIEND?

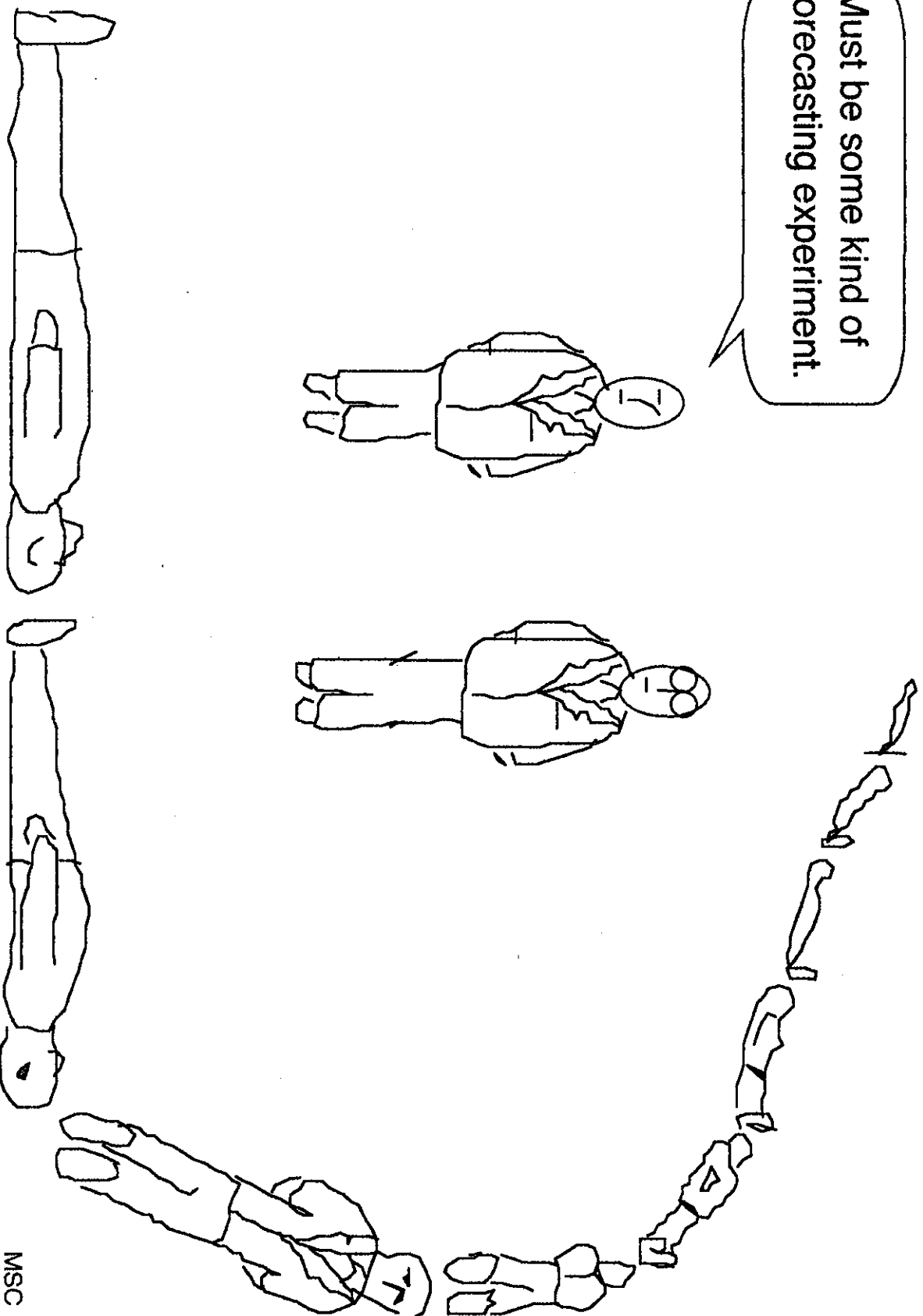
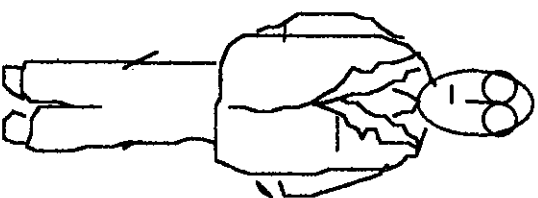
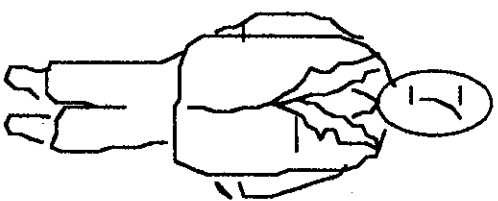
# TROUBLE IN THE SILVICULTURE TISSUE LAB





# ANNALS OF AGRICULTURAL ECONOMICS

Must be some kind of forecasting experiment.





# SURFACE MINE RECLAMATION

YEA!

YEA!

YEA!

YEA!

YEA!

YEA!

YEA!

YOU HAVE BEEN  
RECLAIMED BY THE  
AGRONOMY DEPARTMENT!  
LET ME HEAR Y'ALL  
SAY YEA!



LIFE IN THE IVORY  
TOWER IS NOT  
WHAT IT USED TO BE.



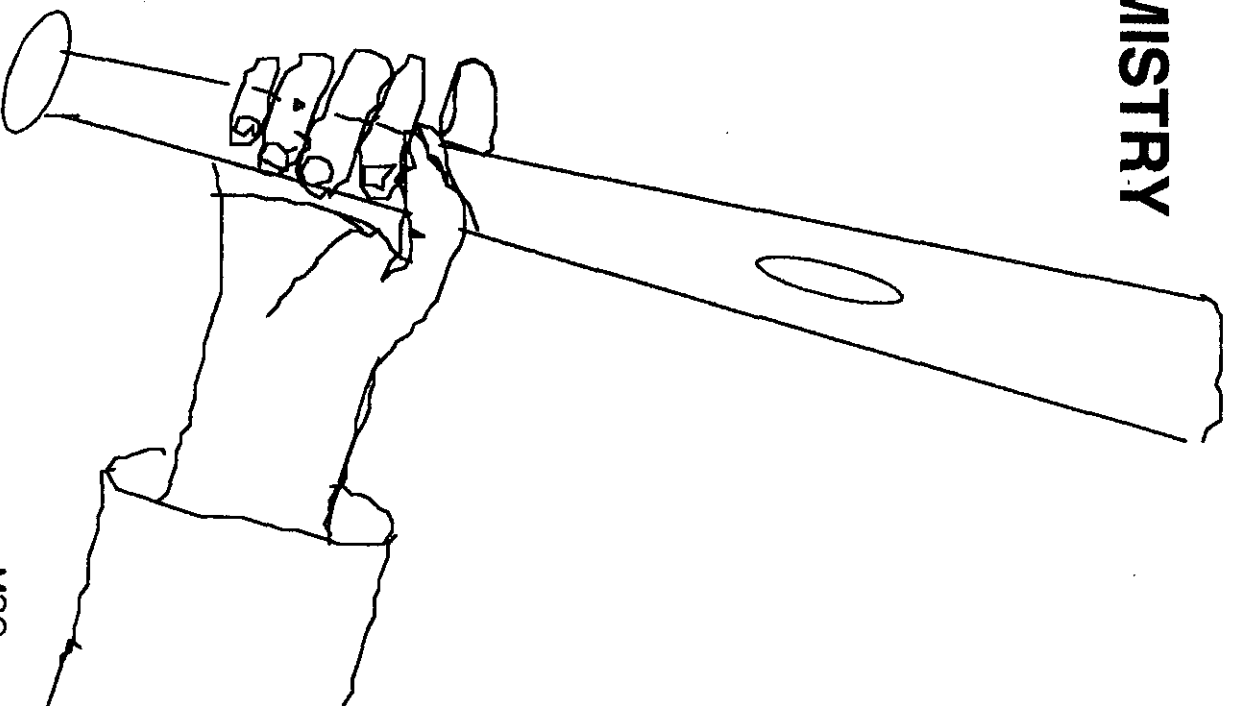
ALL RIGHT MAC.  
COME OUT AND  
HAND OVER THAT  
CONTRABAND!



MSC

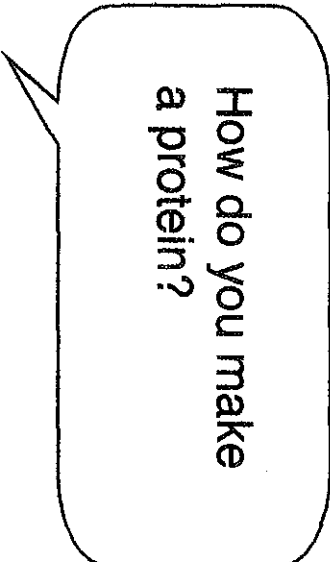
# ANNALS OF BIOCHEMISTRY

I said NADH not  
I need a DH you  
blockhead!

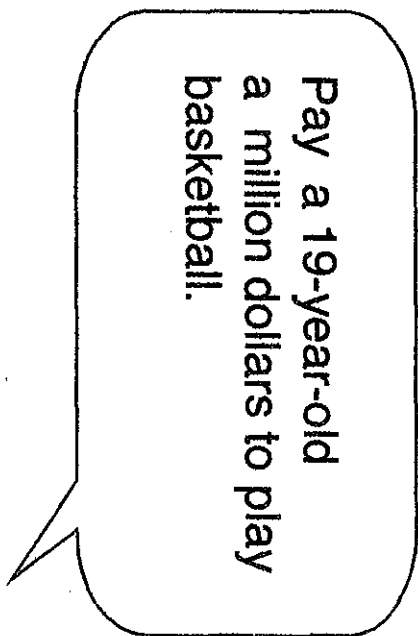


MSC

## BIOCHEMISTRY HUMOR



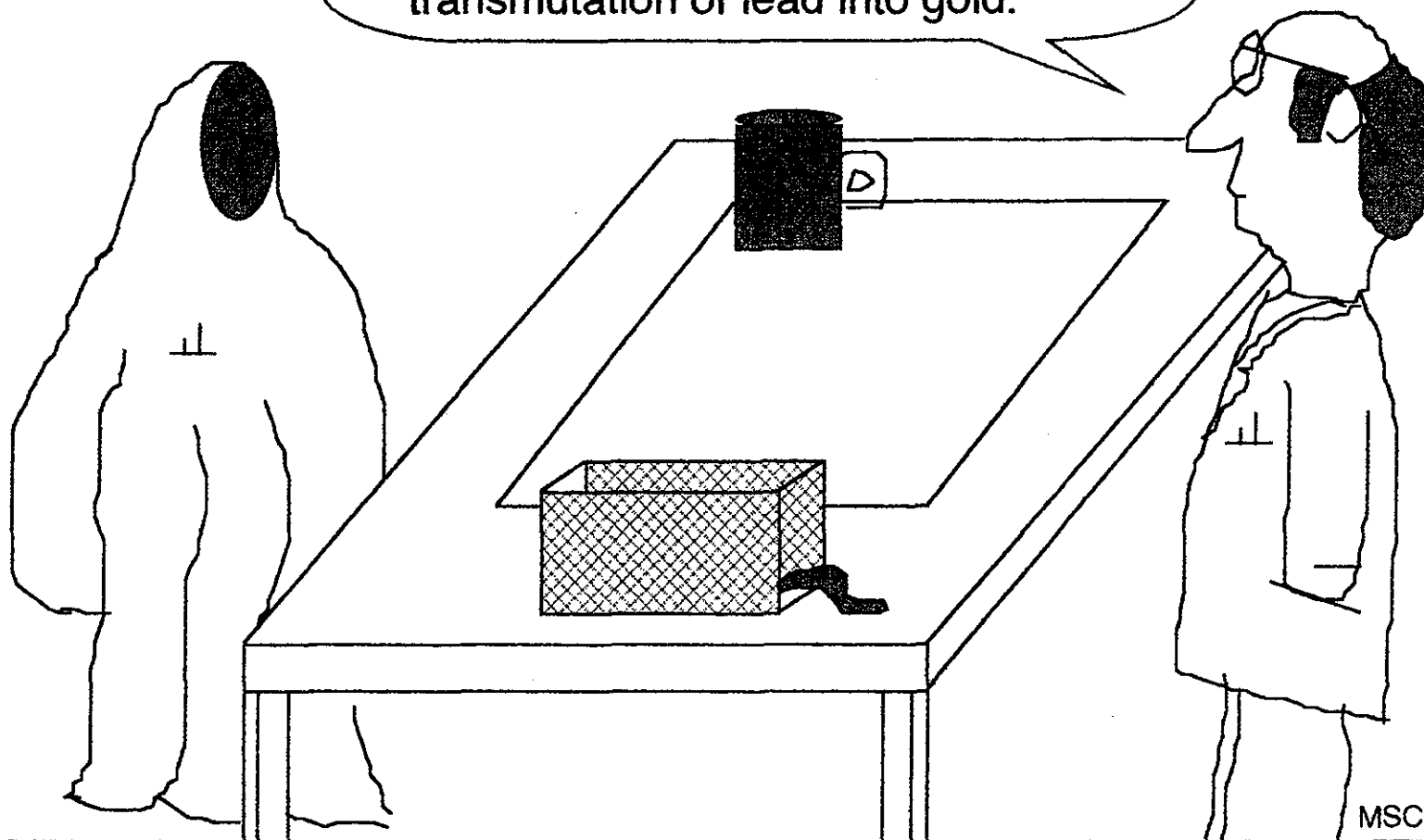
How do you make  
a protein?



Pay a 19-year-old  
a million dollars to play  
basketball.

# PARACELSUS APPLIES TO GRADUATE SCHOOL

Your credentials certainly are impressive. We just don't have anyone in our faculty working on the transmutation of lead into gold.



# ANNALS OF THE SULFUR CYCLE

Oxidized, reduced.  
Oxidized, reduced.  
Maybe a little immobilization  
and mineralization here and there.  
Isn't there more to life than that?



# ANNALS OF HEAVY METALS

I SAID A HEAVY  
METAL BAND YOU  
BLOCKHEAD!

**Hg**

**Cd**

**Cu**

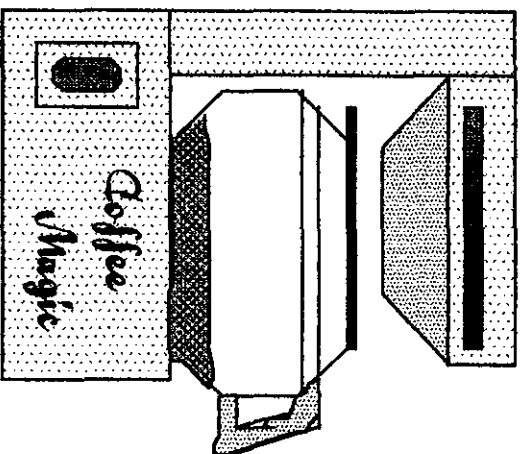
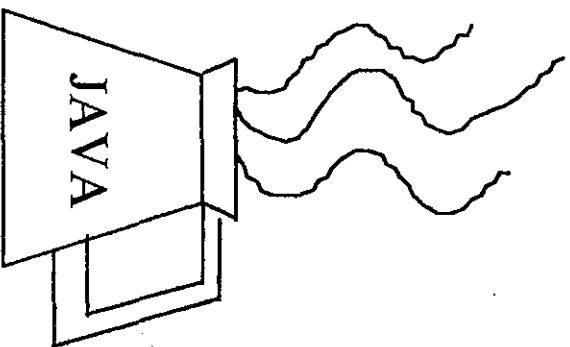
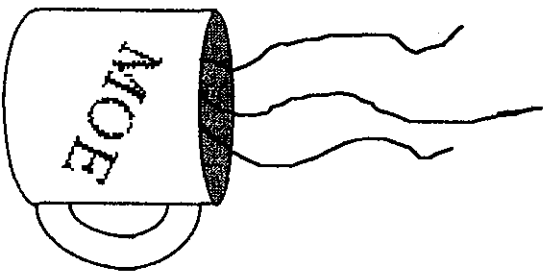
**Zn**

**Cr**

**Pb**



# BIOHAZARDS



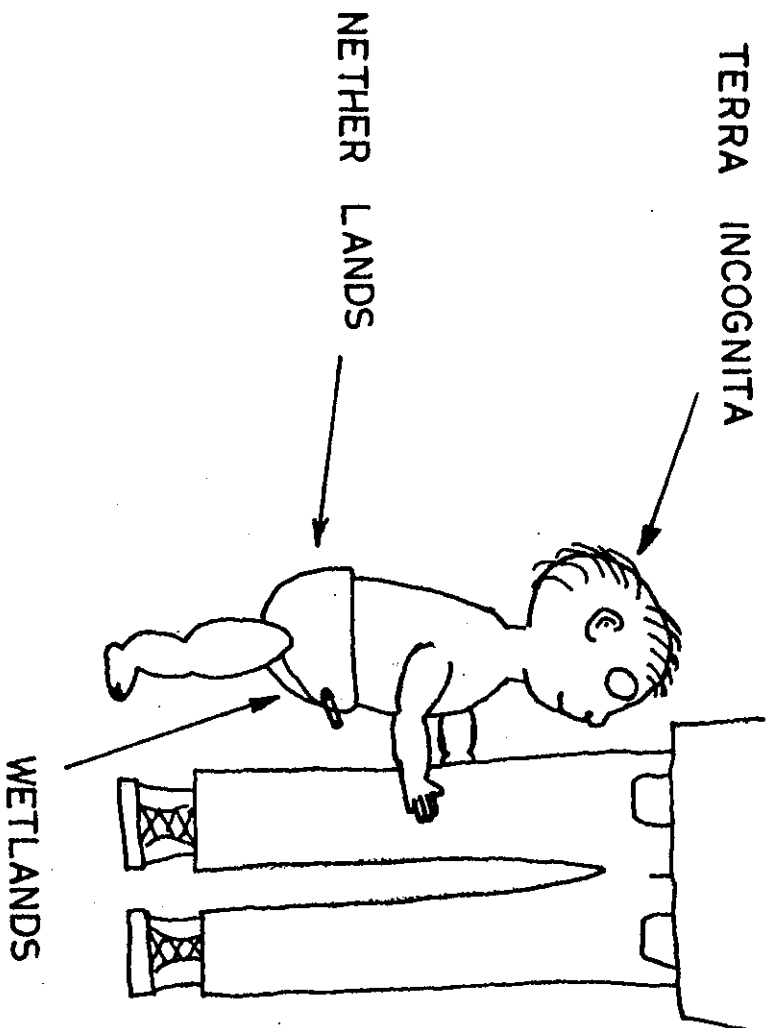


## LESSER-KNOWN QUOTATIONS FROM THE COMMUNIST MANIFESTO

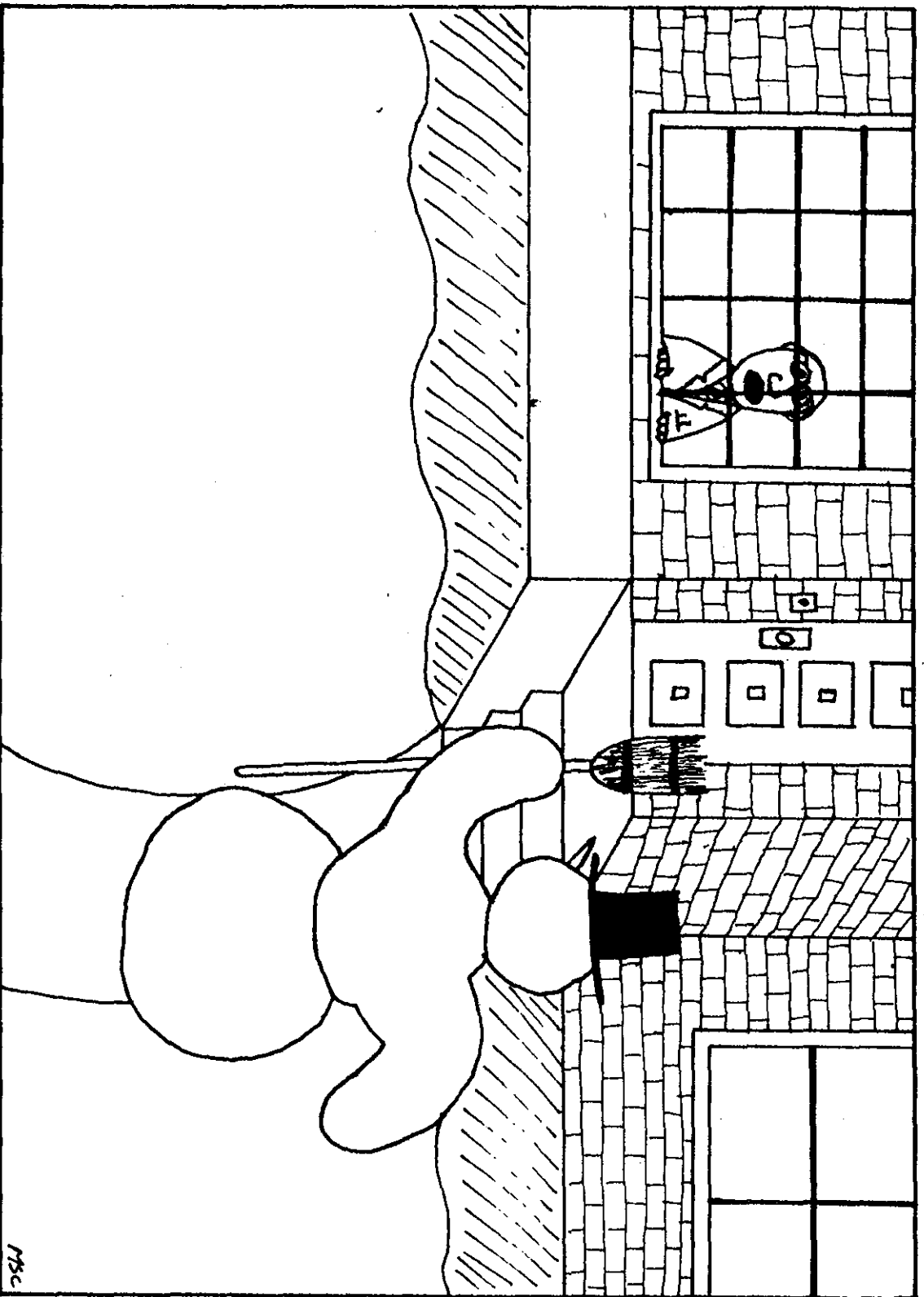
“We were almost to America  
before we saw our plane was  
low on gas, so we had to turn  
around and go back.”

*Harpo, Chico, Zeppo, Groucho, and Karl Marx*

# GEOGRAPHY OF A BABY



# FAMOUS PLAYS - THE ICEMAN COMETH

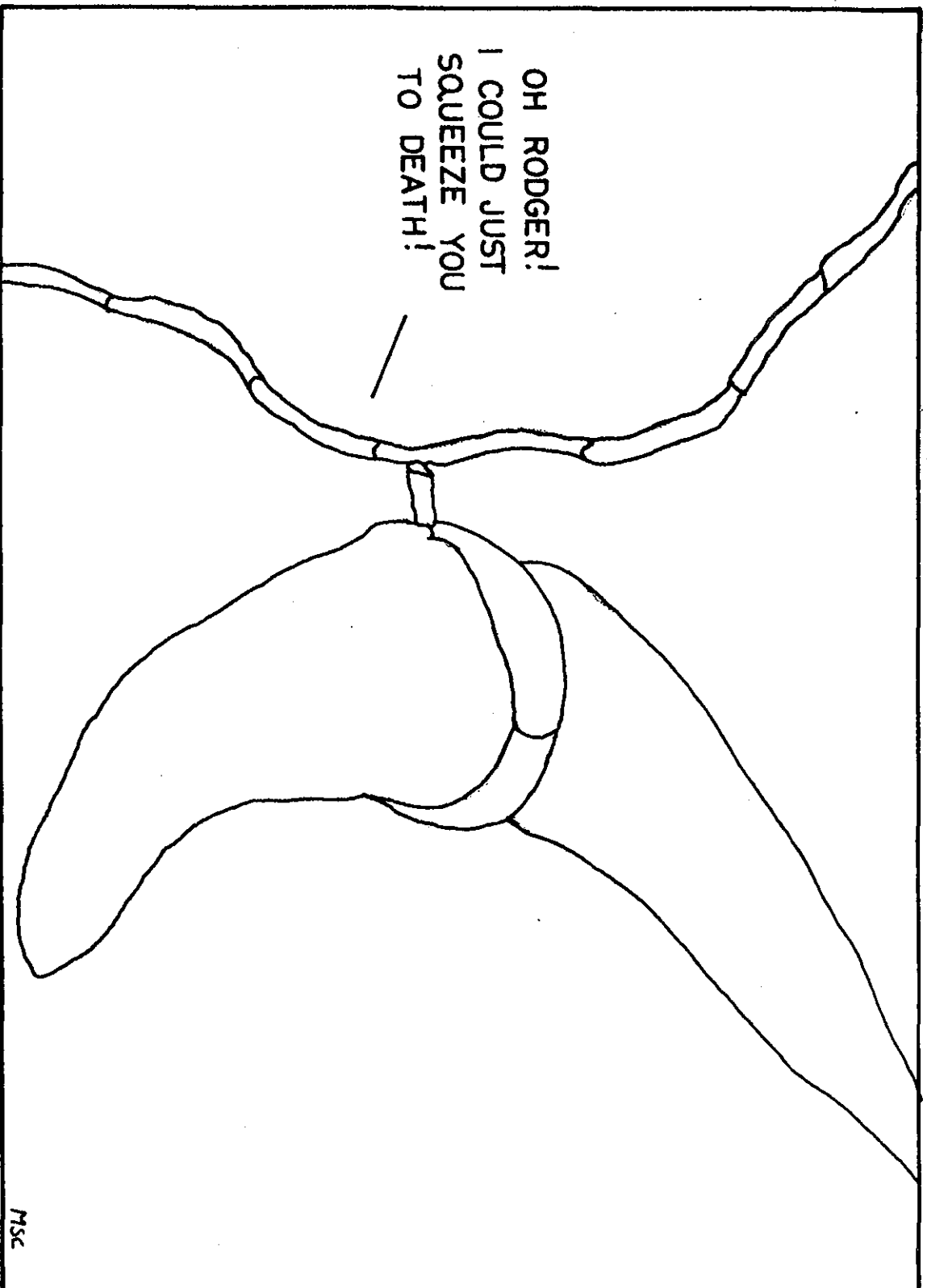


# *About Ecology*

## SOIL ECOLOGIST NURSERY RHYMES

One day when I was in Botswana  
I chanced upon some macrofauna.  
The macrofauna chanced on me;  
They chased me up into a tree.  
Nasty worms and queer amoeba  
Don't look like the Queen of Sheba.  
How am I to get around ?  
Where macrofauna do abound.  
I dare not step back on the ground.

# PREDATOR/PREY RELATIONSHIP



# MICROBIAL COMPETITION

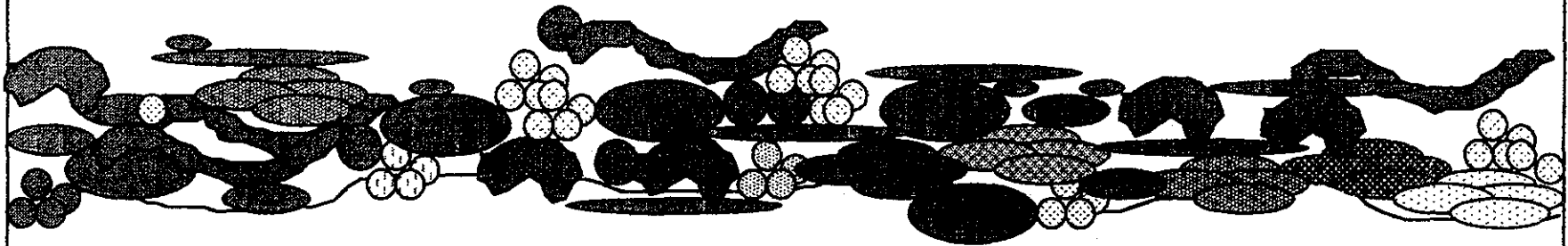
I DON'T WANT THE  
WHOLE WORLD.  
I JUST WANT  
YOUR PART.



# LIFE IN A BIOFILM

The good of the many  
is more important than  
the good of the few.

Stop doing your Spock  
imitation and let me inside!





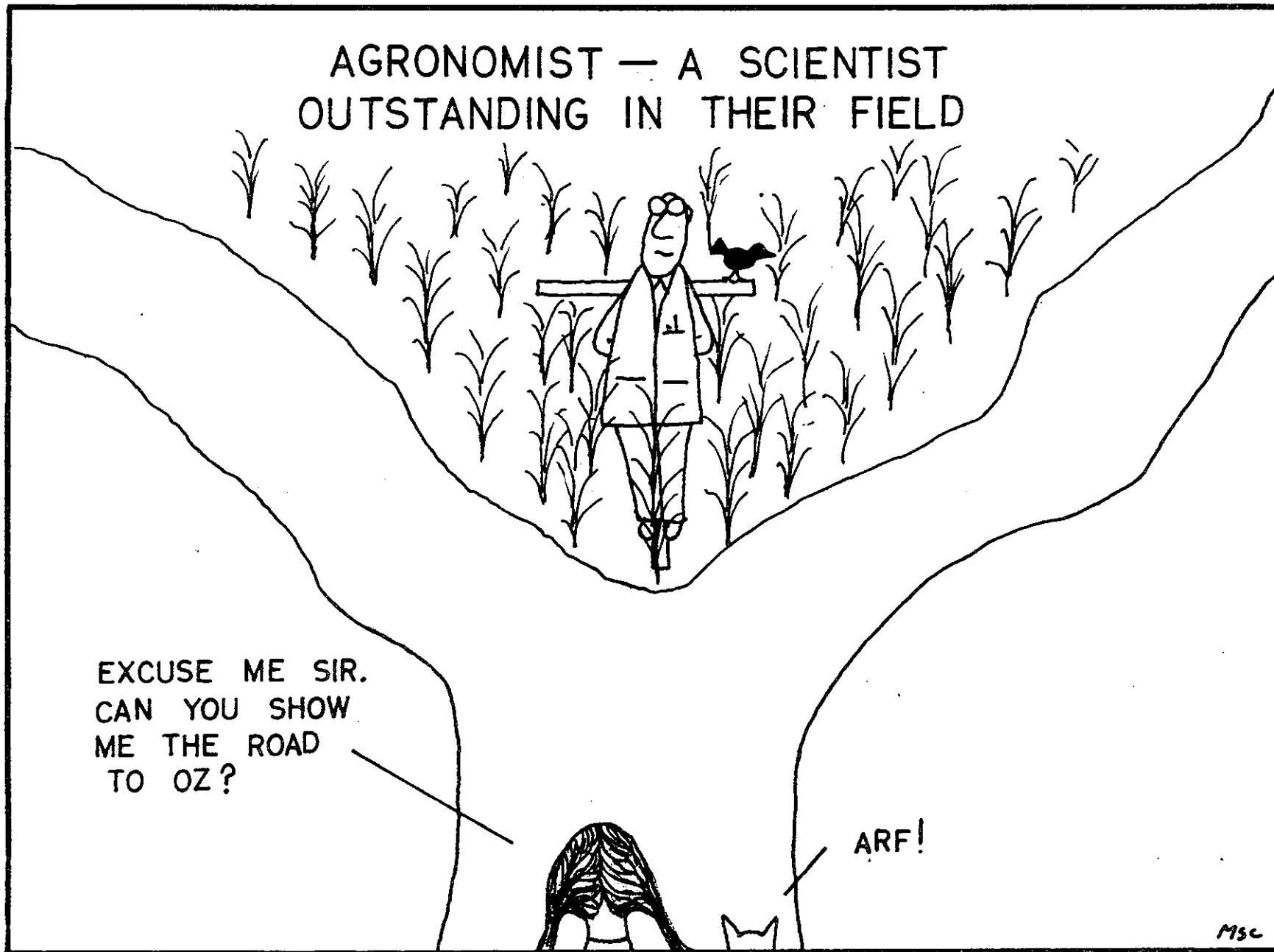
# *About Agronomy*

AGRONOMIST — A SCIENTIST  
OUTSTANDING IN THEIR FIELD

EXCUSE ME SIR.  
CAN YOU SHOW  
ME THE ROAD  
TO OZ?

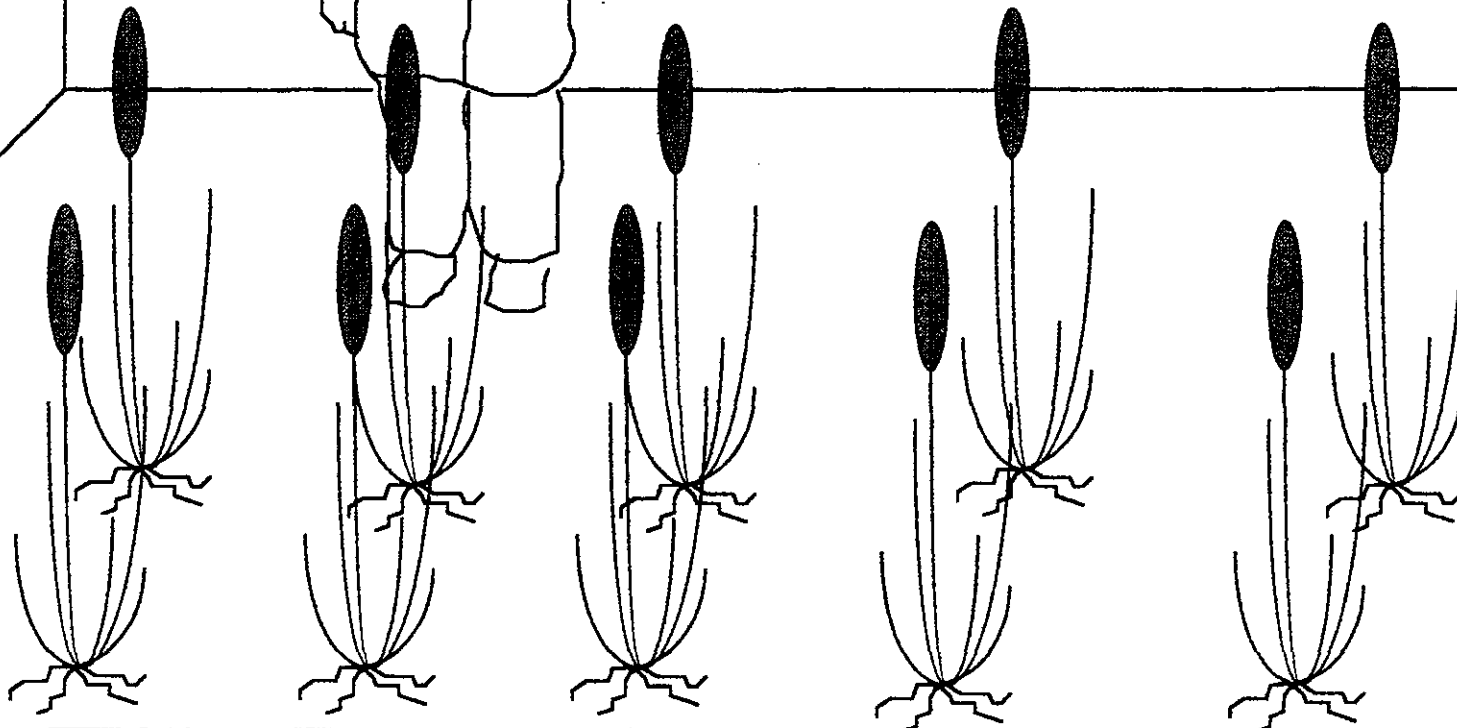
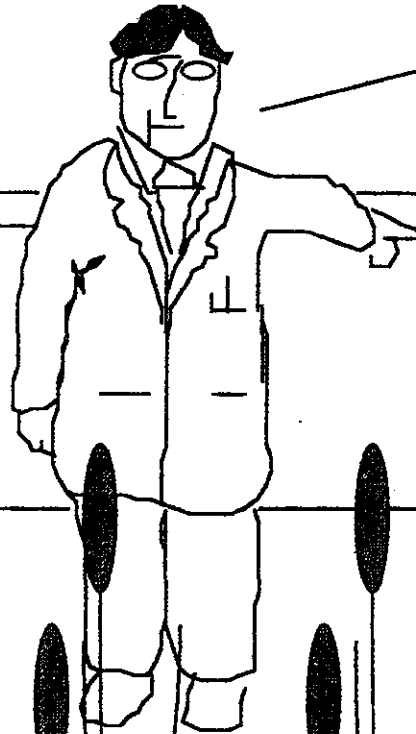
ARF!

MSC



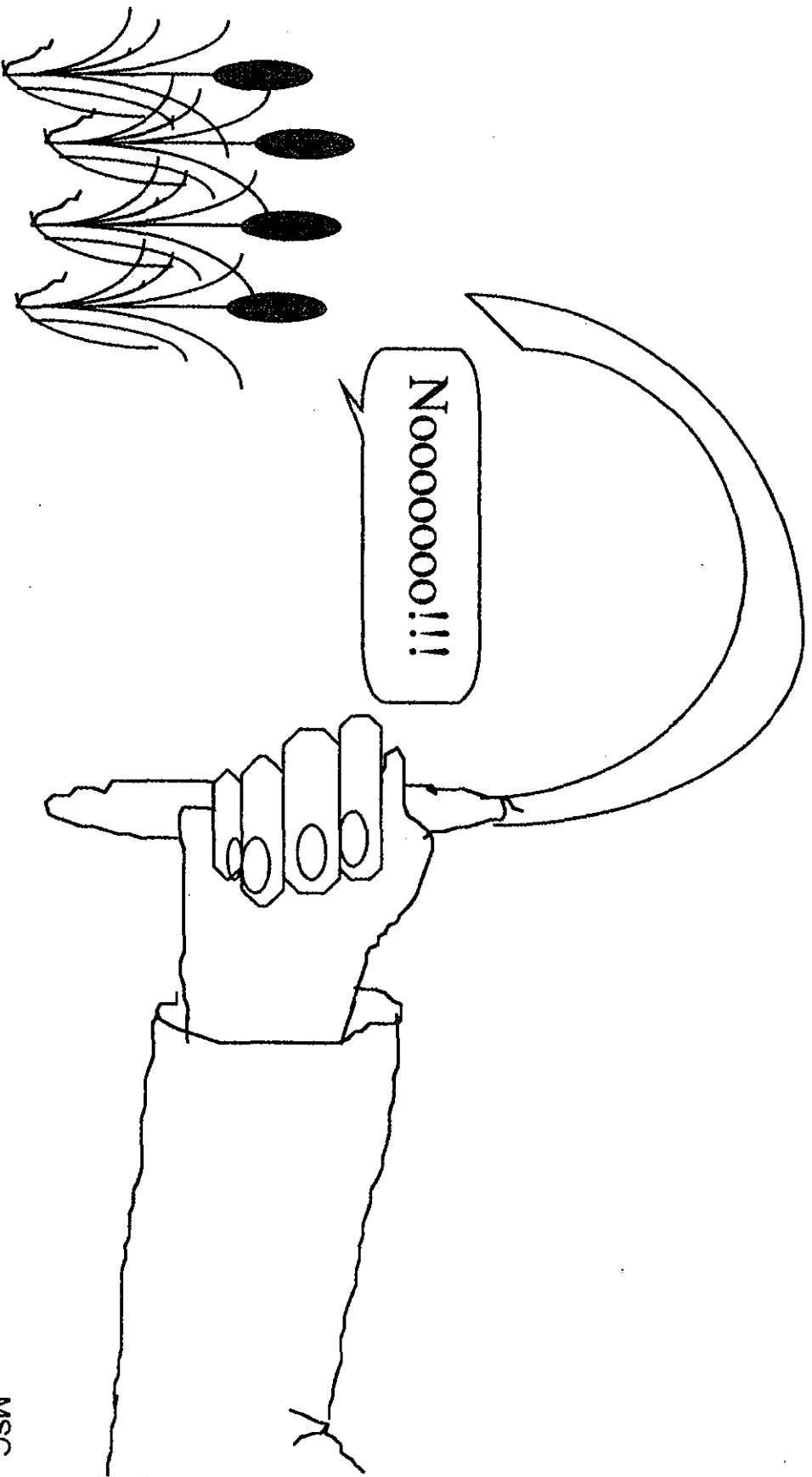
# ANNALS OF CROP BREEDING

Repeat after me class.  
"The Rain in Spain stays  
mainly . . . . ."

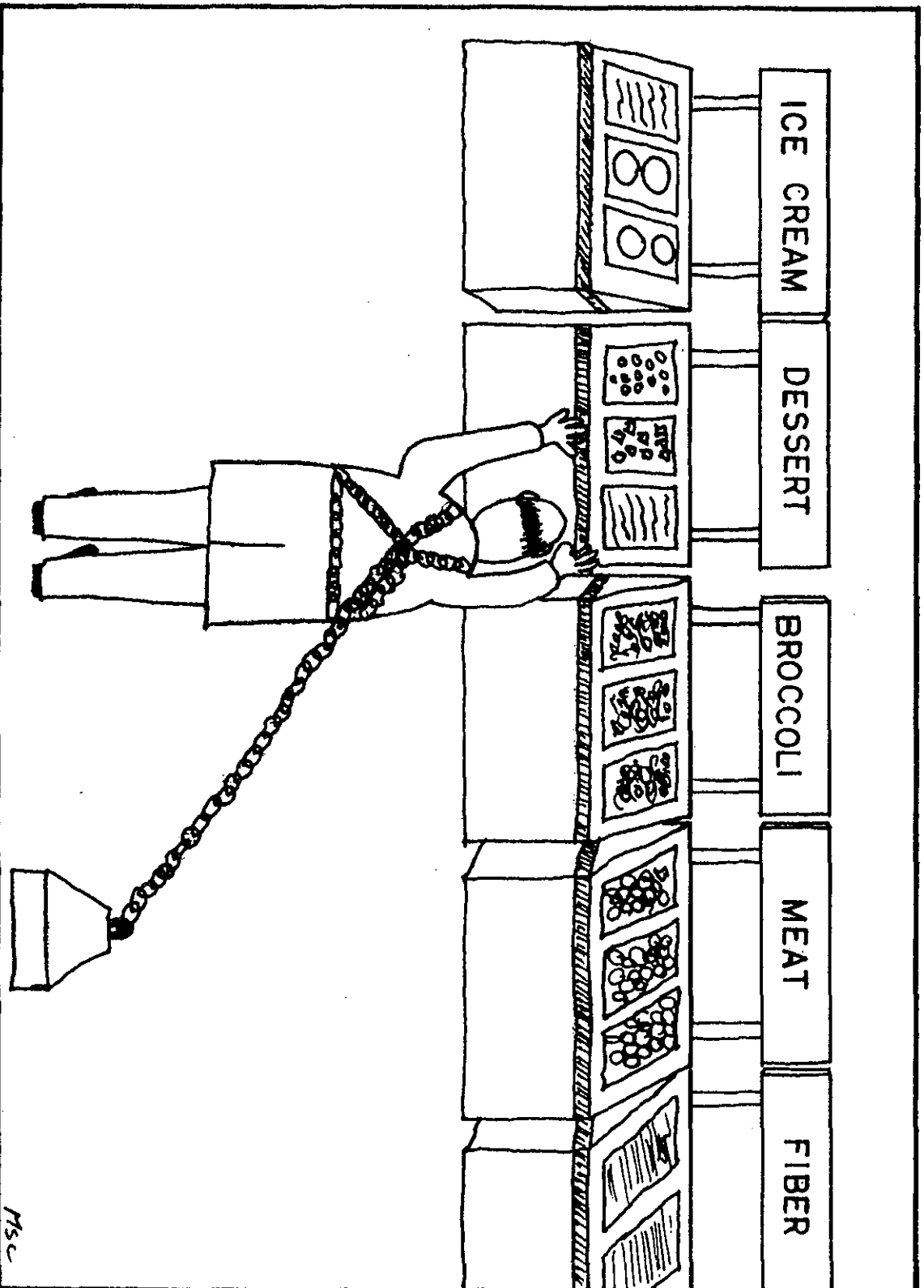


MSC

# WHEAT BREEDERS ARE CEREAL KILLERS



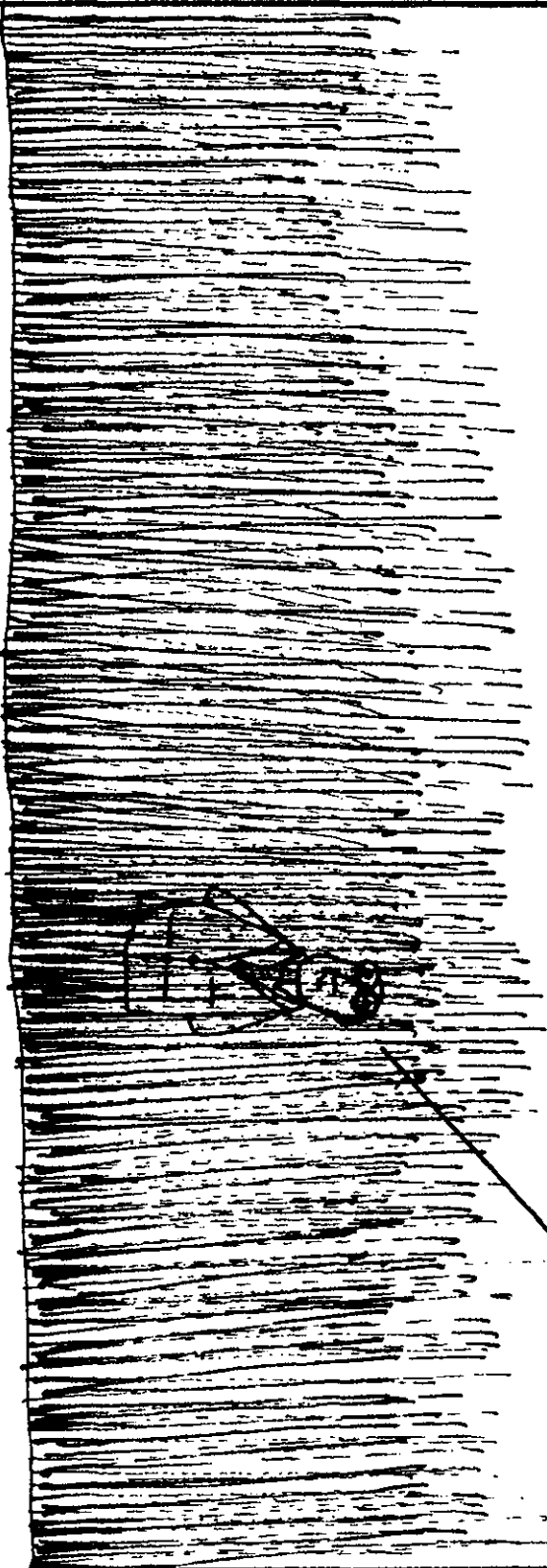
# TETHERED GRAZING



# ANNALS OF FORAGE BREEDING

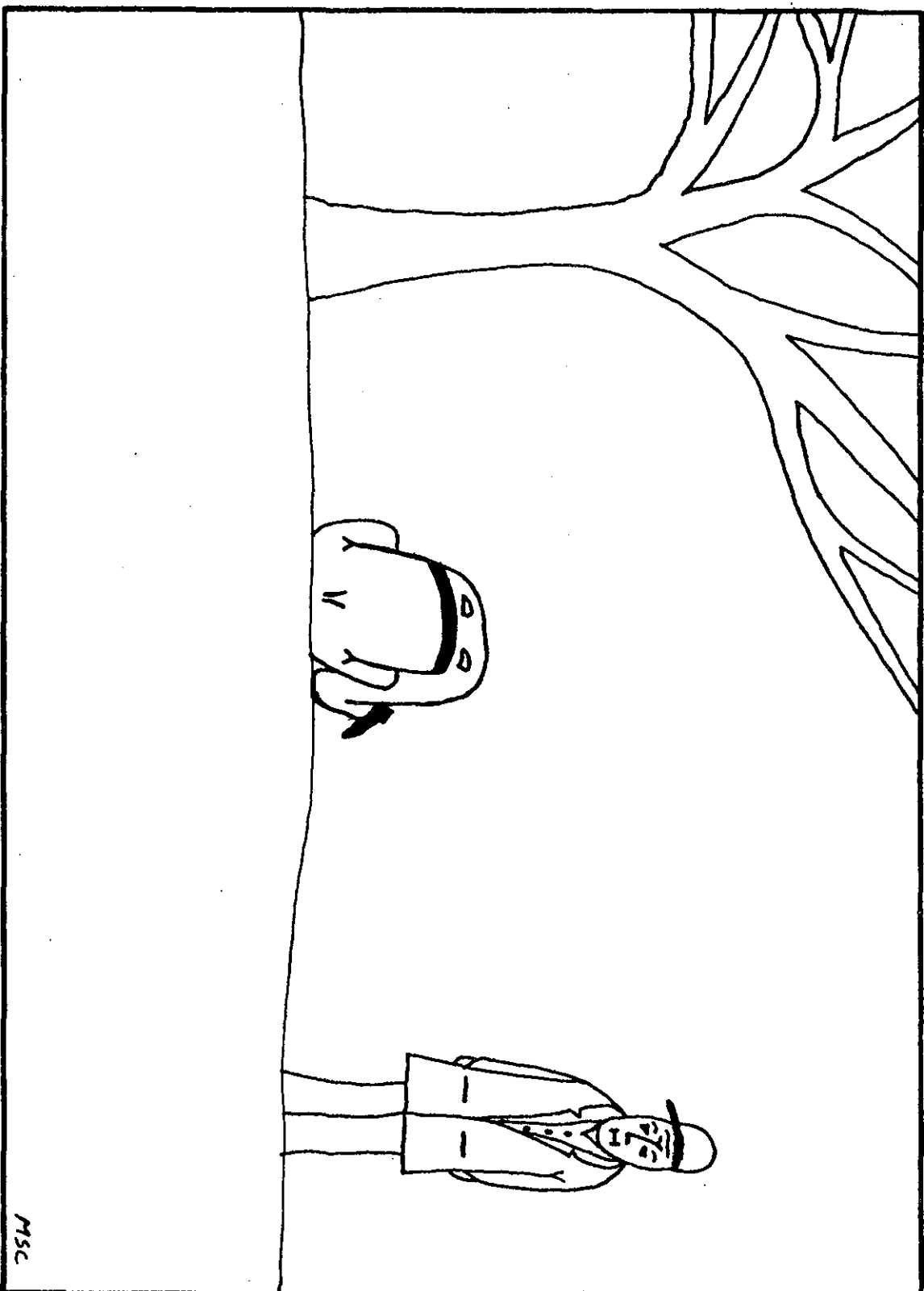
## AMIDST ALIEN FESCUE

HELP!



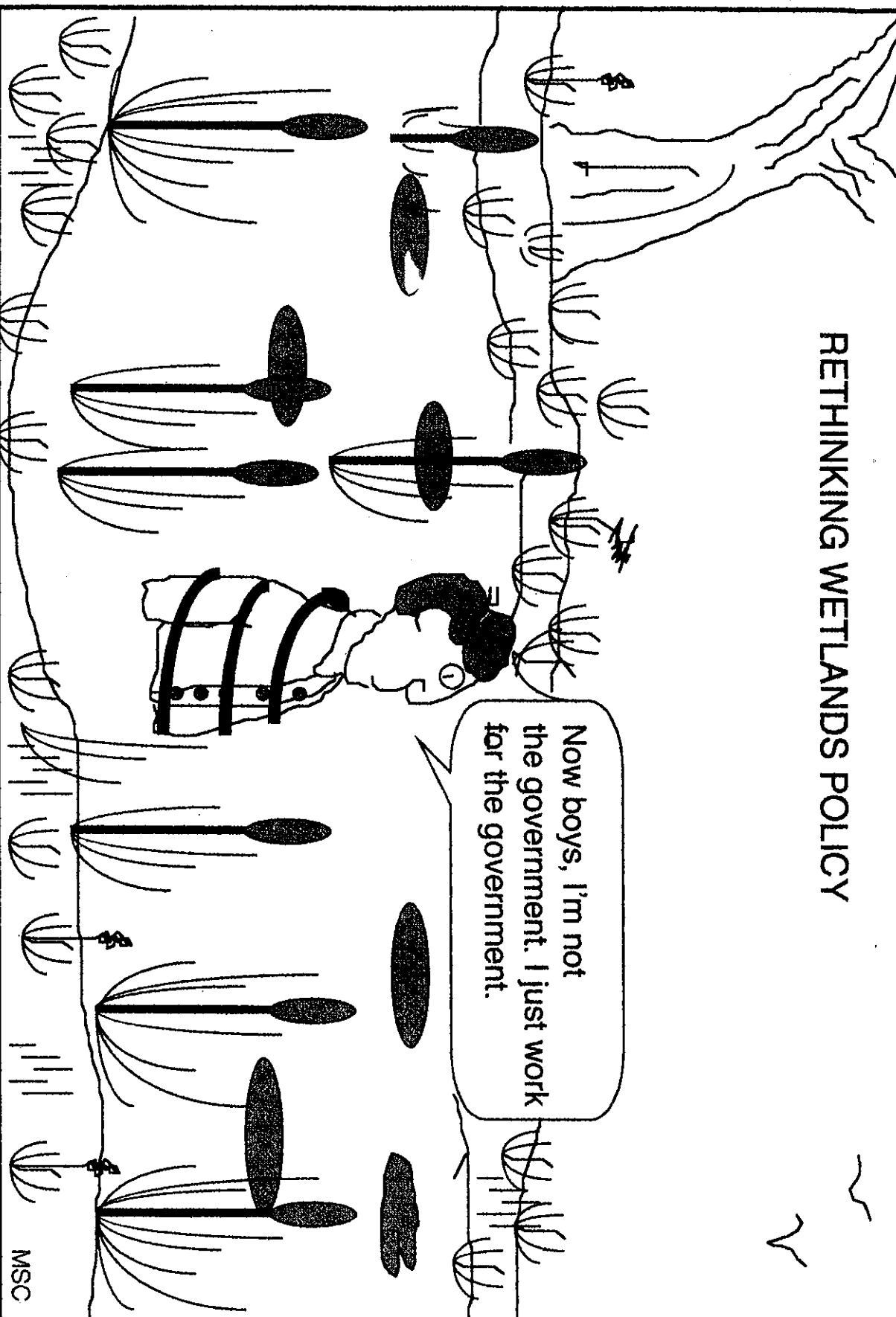
MSC

# EARLY RHIZOTRONS



# HAZARDS OF EXTENSION SERVICE

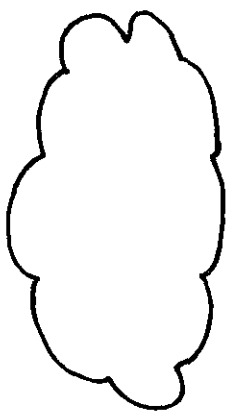
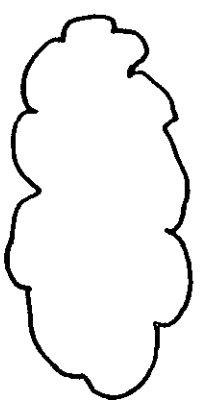
## RETHINKING WETLANDS POLICY



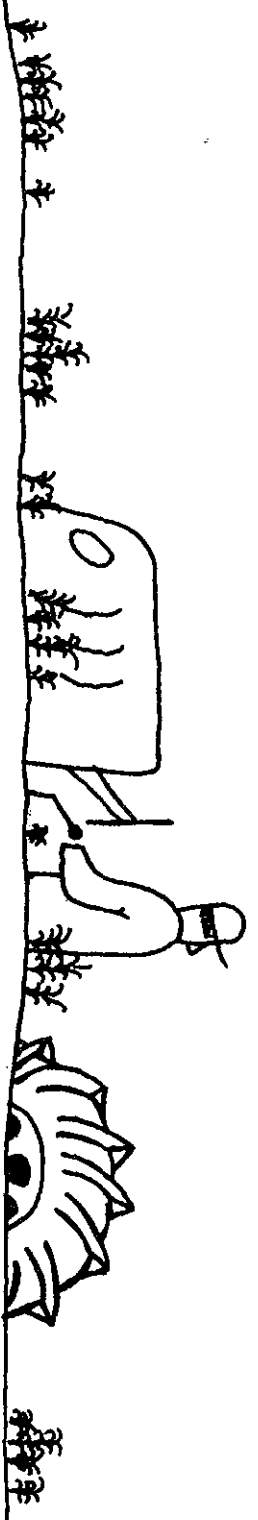
Now boys, I'm not  
the government. I just work  
for the government.



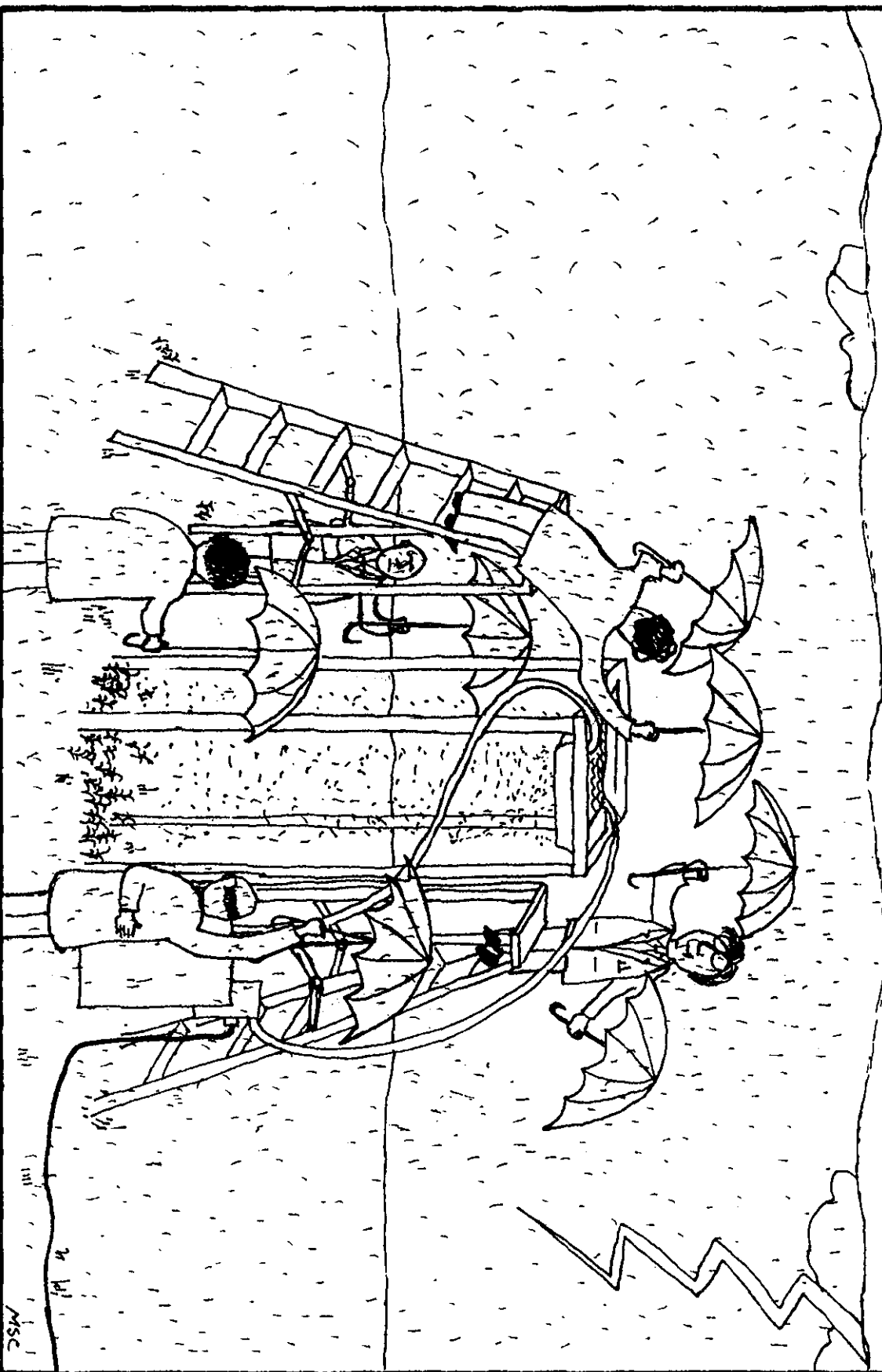
# HAZARDS OF FIELD RESEARCH



YOU'RE RIGHT.  
IT'S TOO WET.



ANNALS OF FIELD RESEARCH  
"SIMULATED RAINFALL"

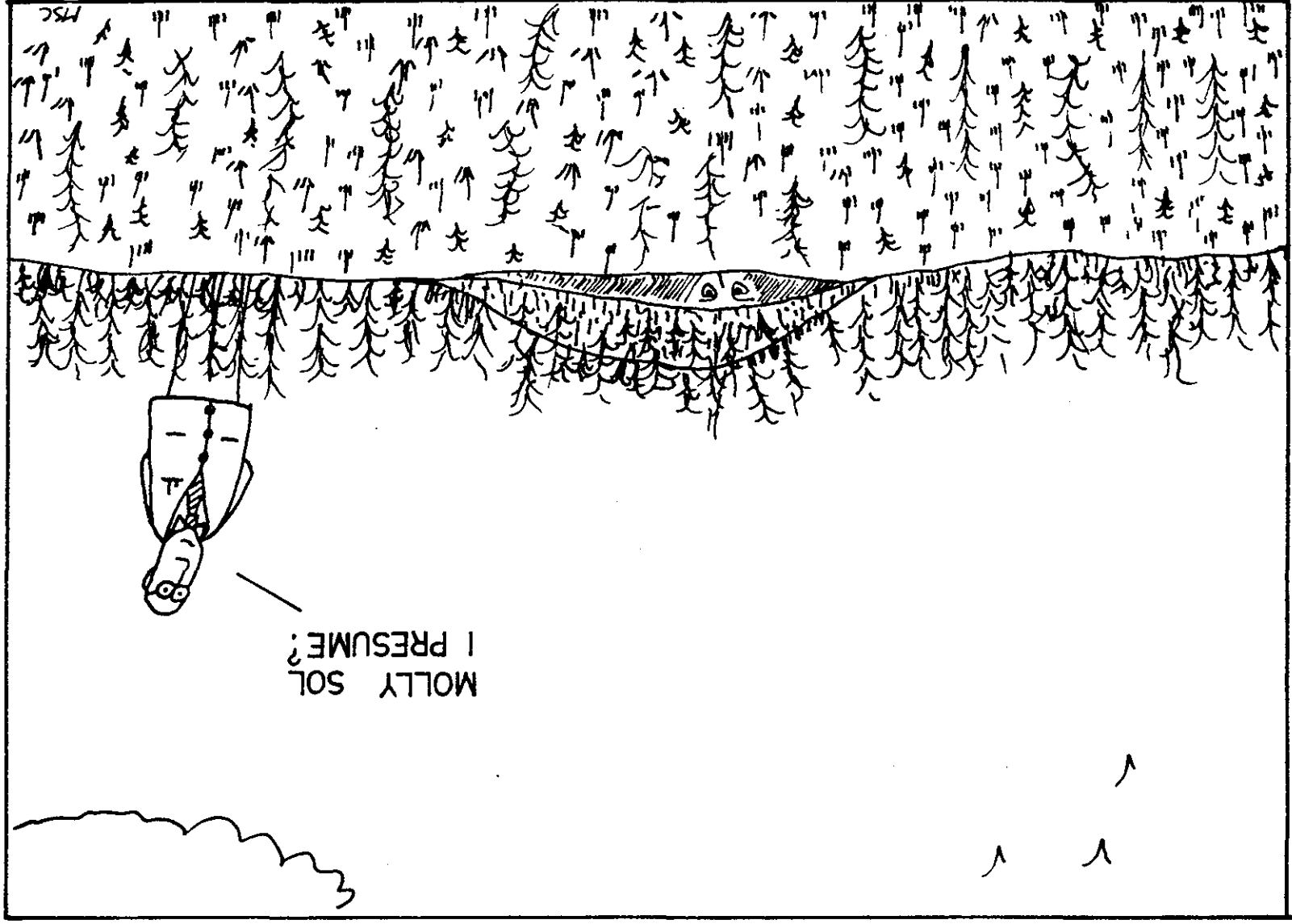


# *About Soil Science*

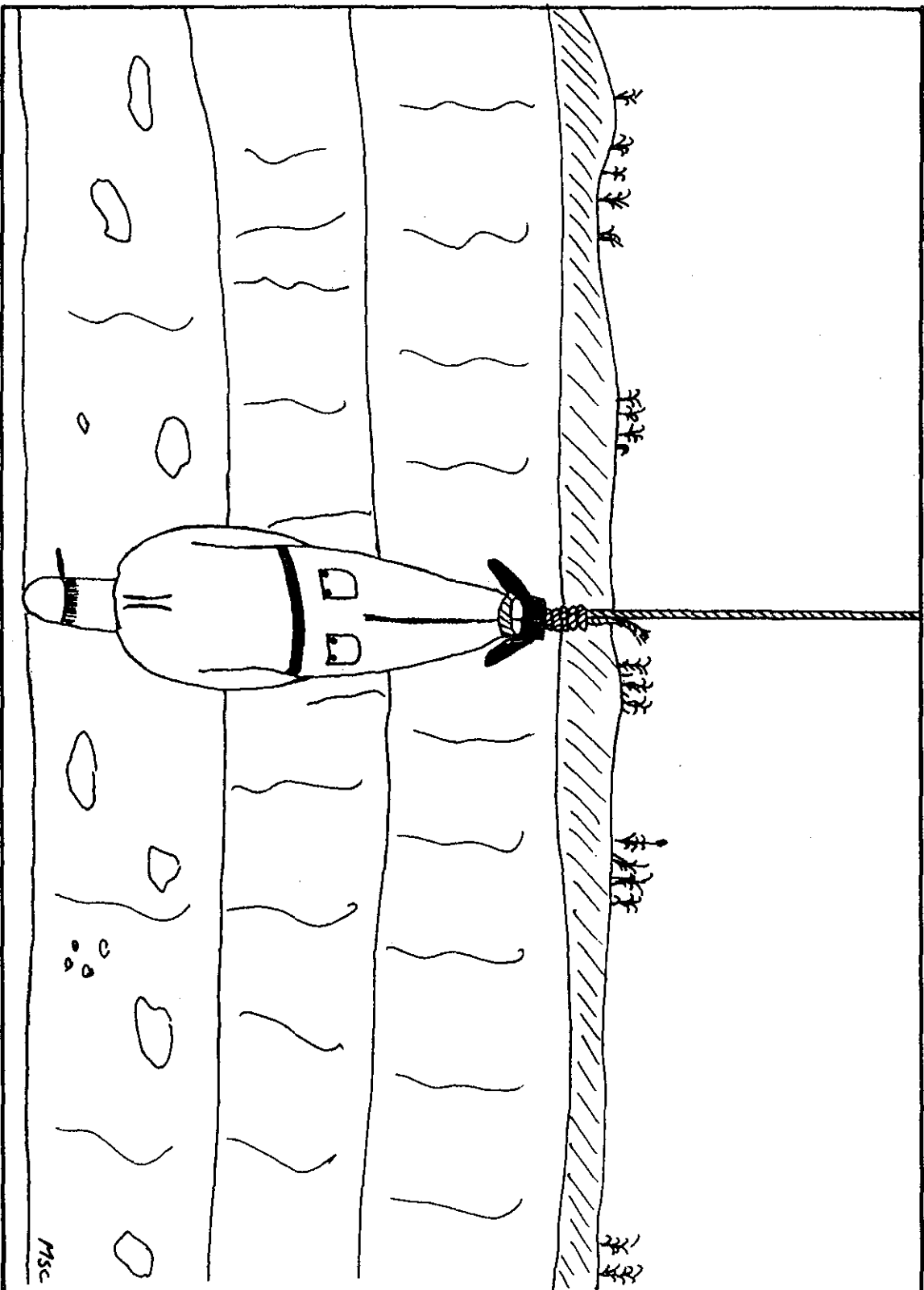
## **FORGOTTEN SLOGANS**

**Soil Conservation  
Get in a Rut!**

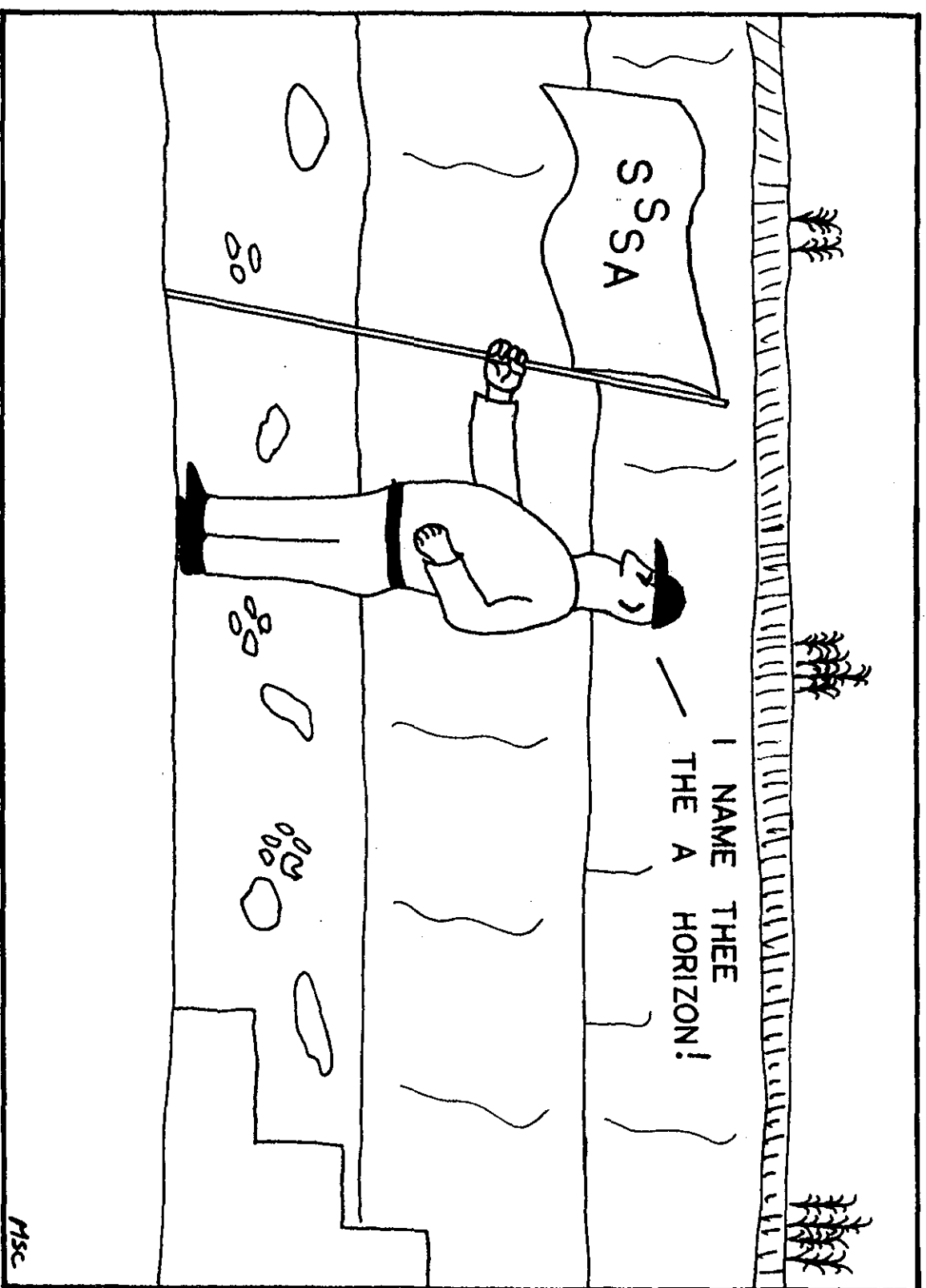
# ANNALS OF PEDOLOGY



# EARLY TECHNIQUES IN SOIL TAXONOMY

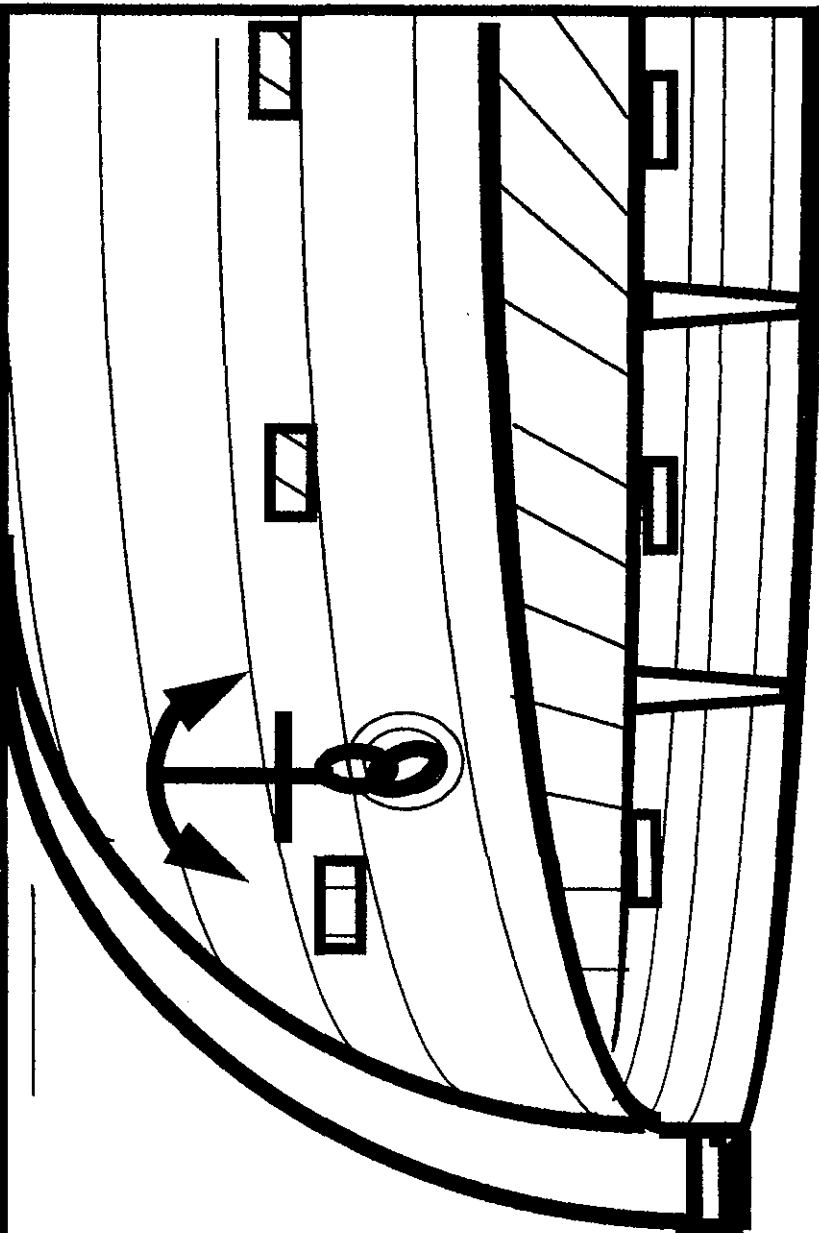


# BIRTH OF SOIL TAXONOMY



# IF COLUMBUS HAD BEEN A PEDOLOGIST

PSAMMENT HOI

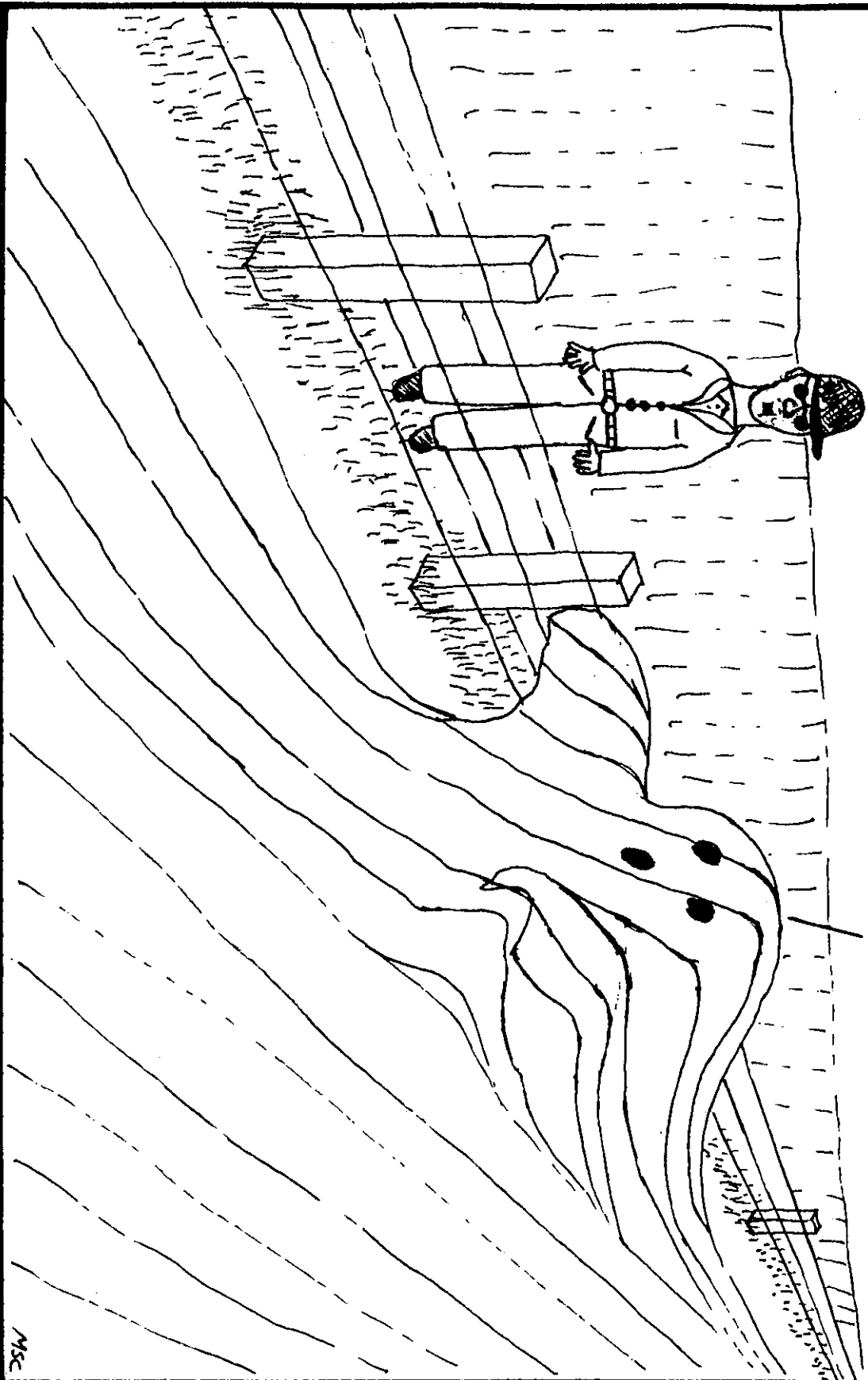




W

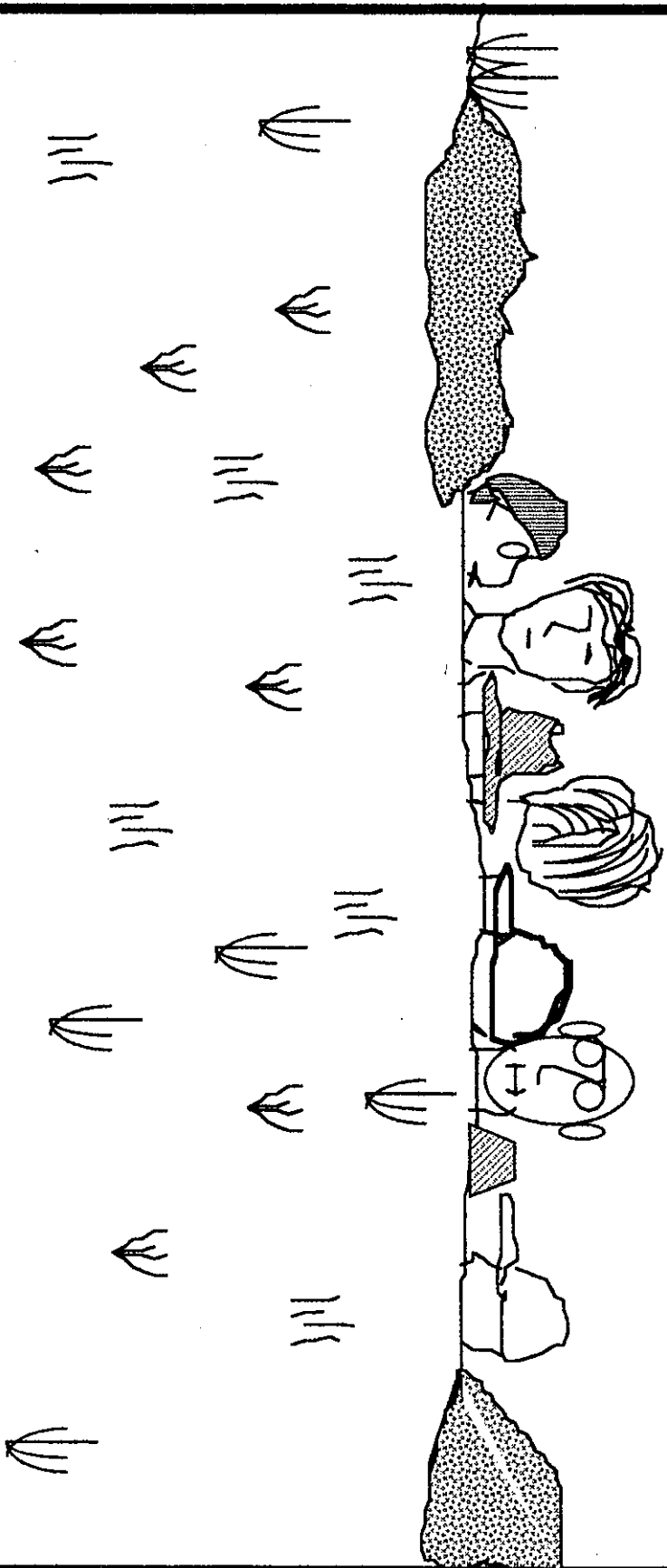
# CULTIVATED SOIL

PARDON ME, BUT DO YOU  
HAVE ANY GREY POUPOON?



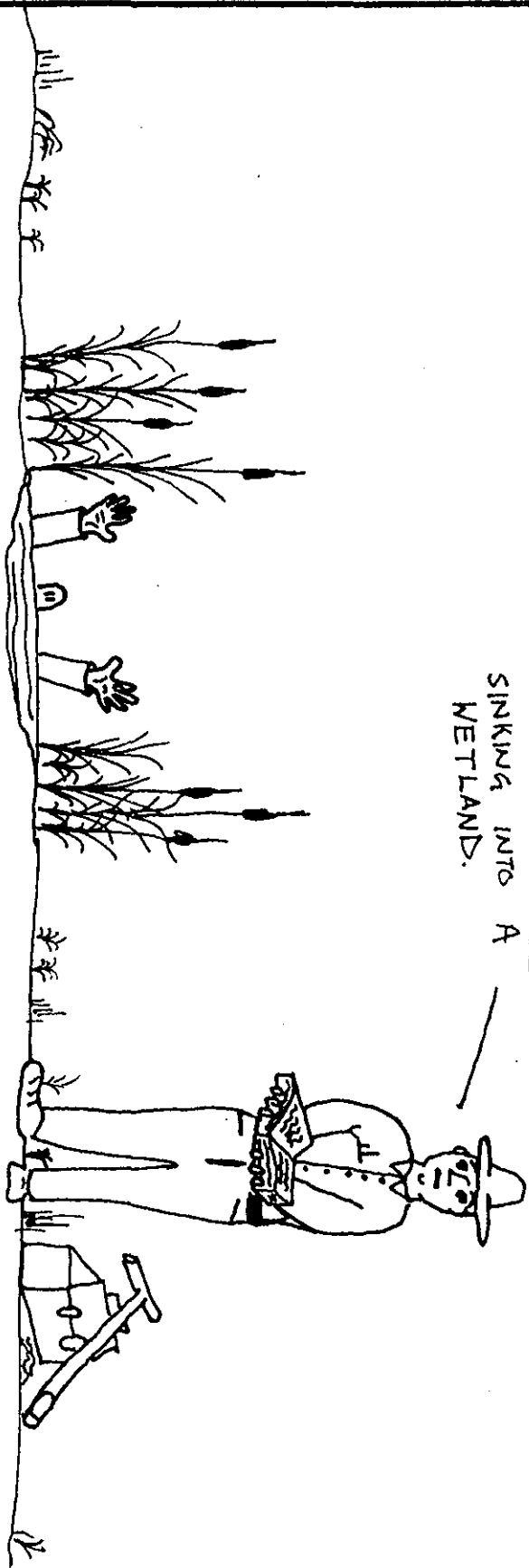
MSC

# SOIL JUDGING CONTESTS

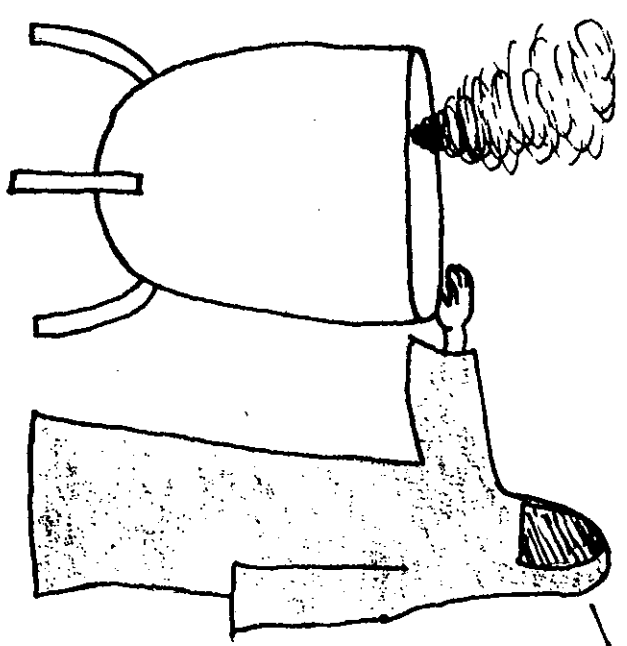
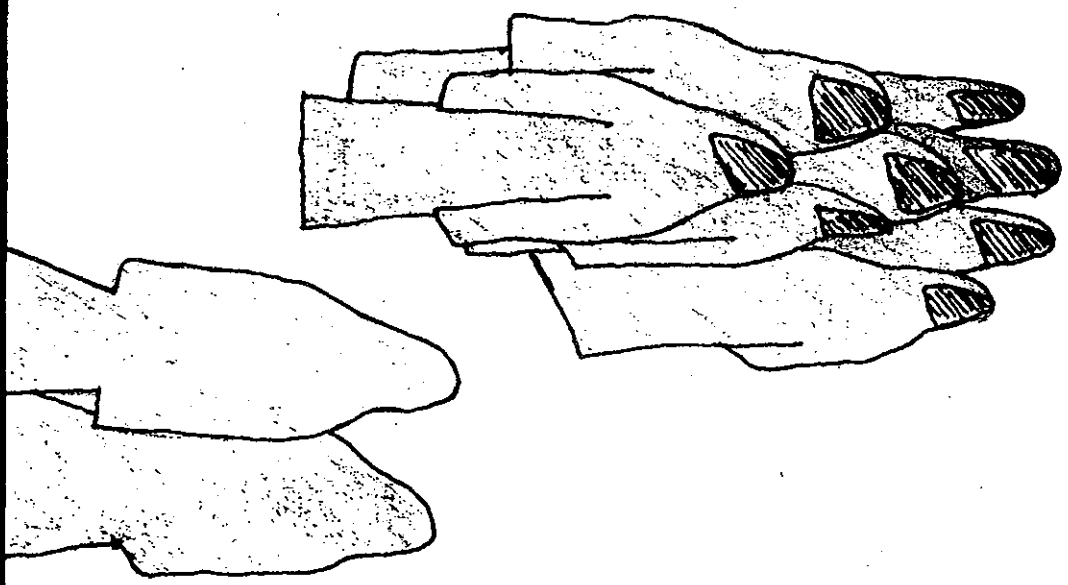


✓  
✓  
✓

SORRY BOB, BUT ACCORDING  
TO THE DEFINITION IN THIS  
MANUAL YOU'RE NOT  
SINKING INTO A  
WETLAND.



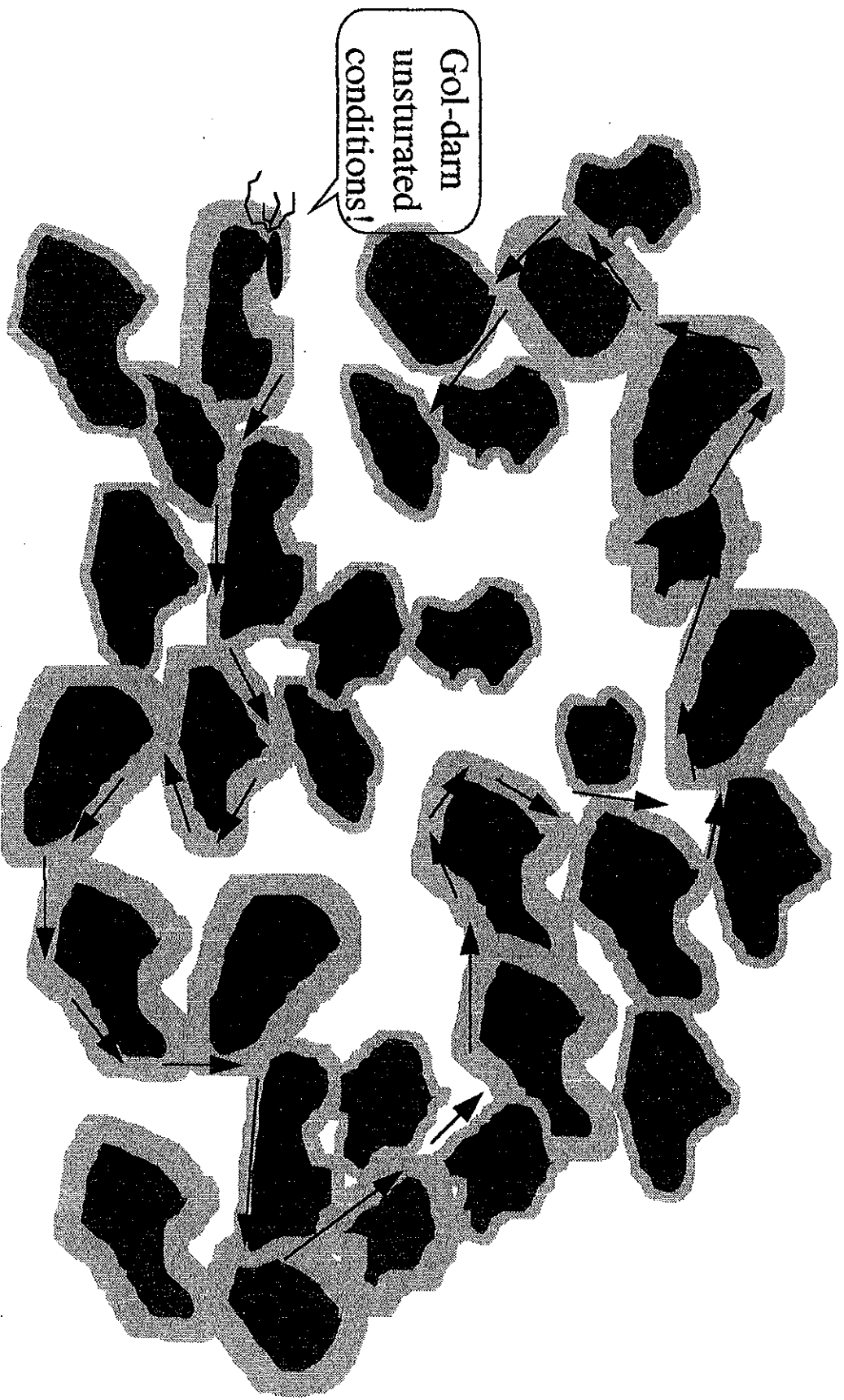
# SOIL CHEMISTRY -- MISKATONIC U

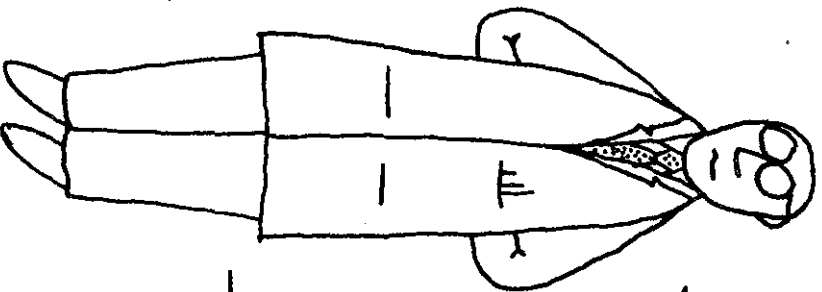


EYE OF NEWT  
AND TOE OF  
FROG; WOOL OF  
BAT AND SKIN  
OF DOG.....

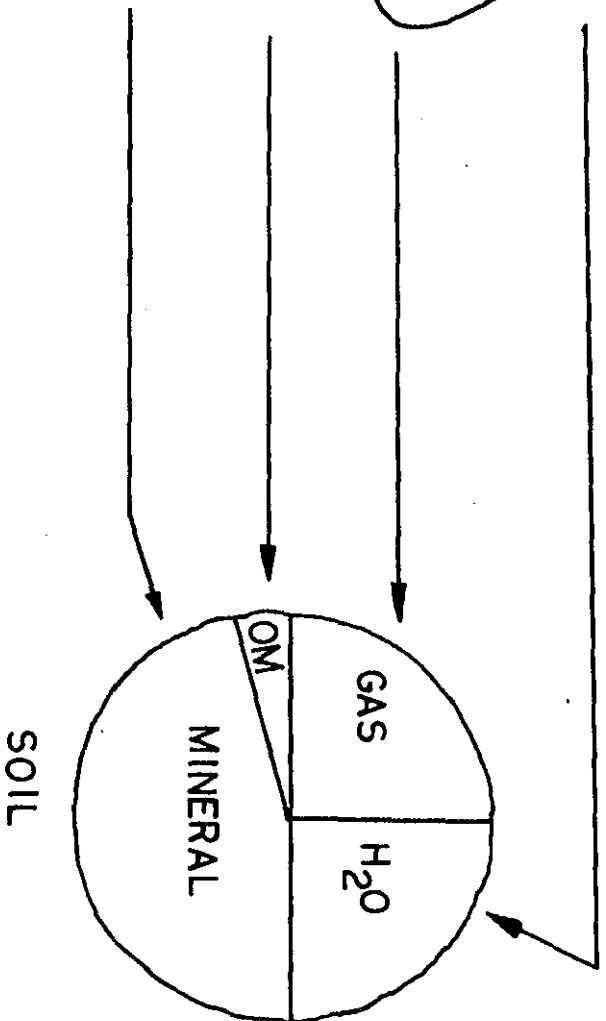
# Annals of Soil Microbiology

## Microbial Movement is Tortuous

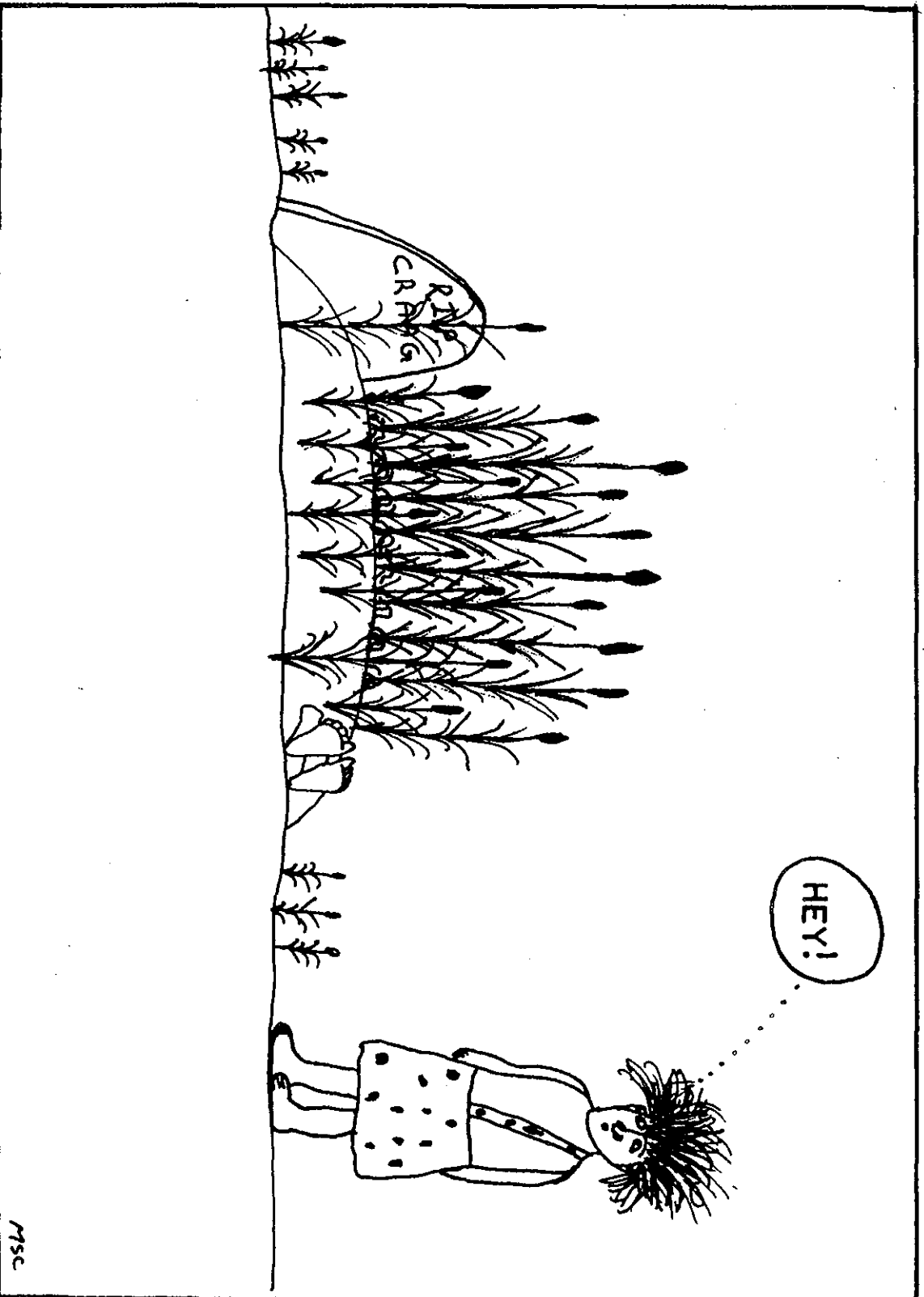




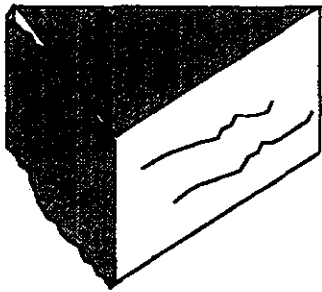
HOMO SAPIENS  
VAR MICROBIOLOGIST



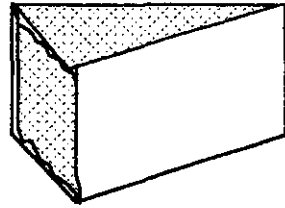
# SEMINAL MOMENTS IN SOIL FERTILITY RESEARCH



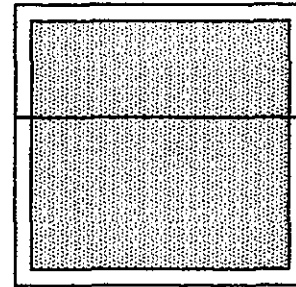
## How Soil Physicists Look at Cheese



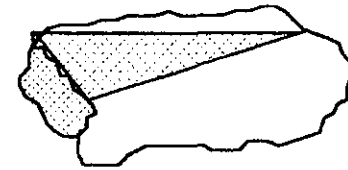
Cheddar



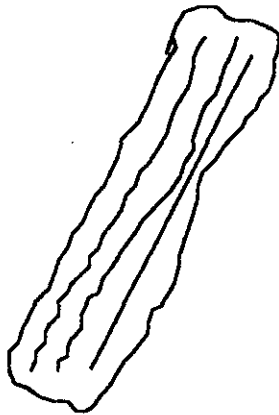
Colby



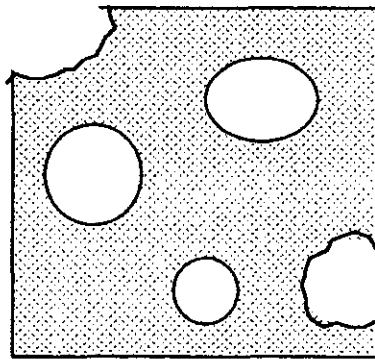
American



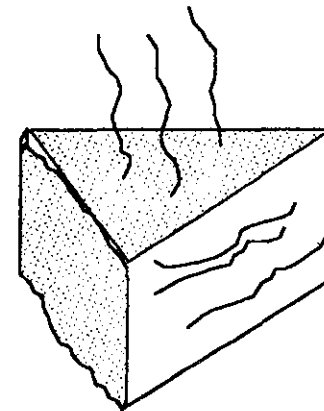
Brie



String



Macropores

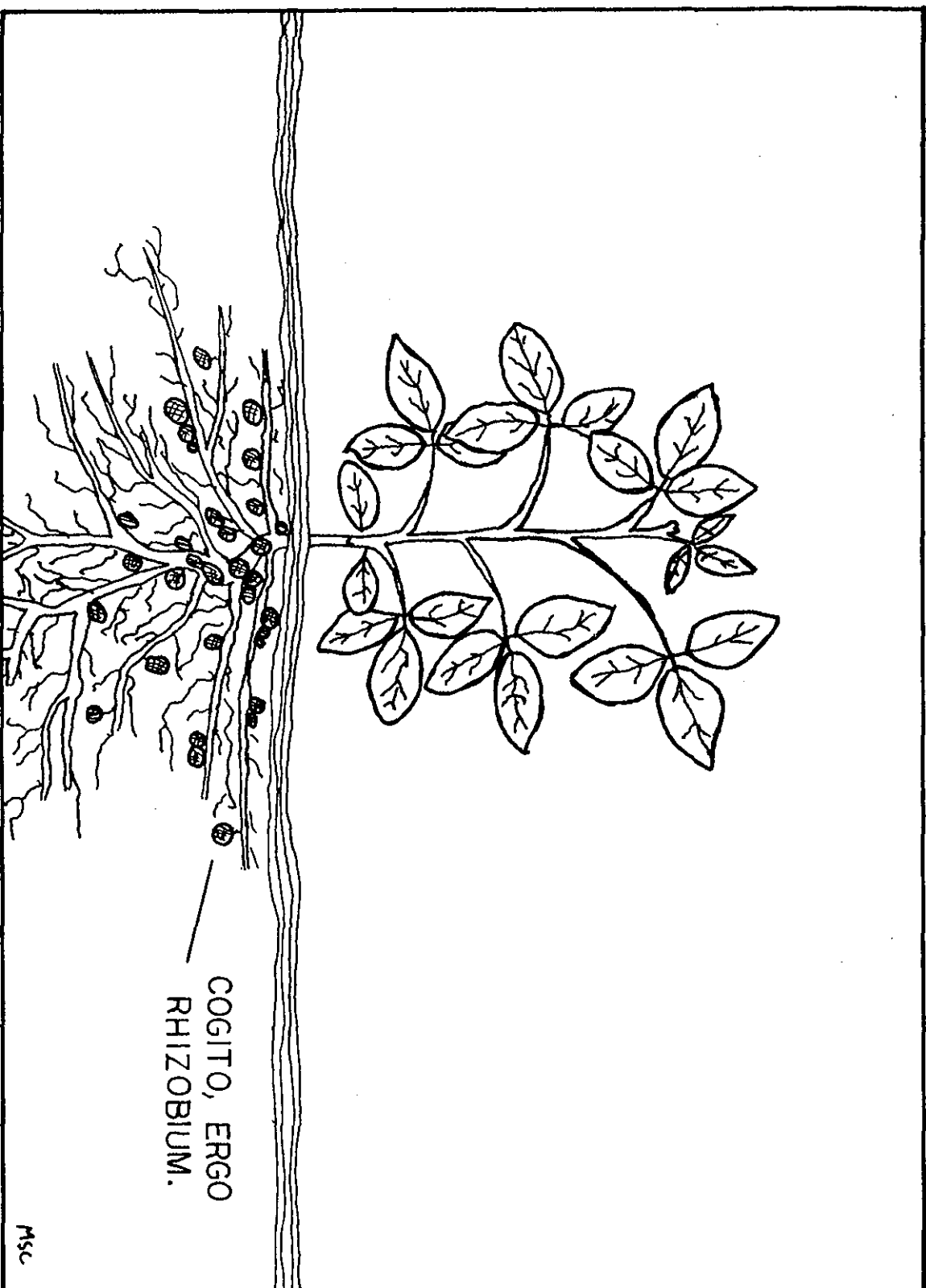


Limburger

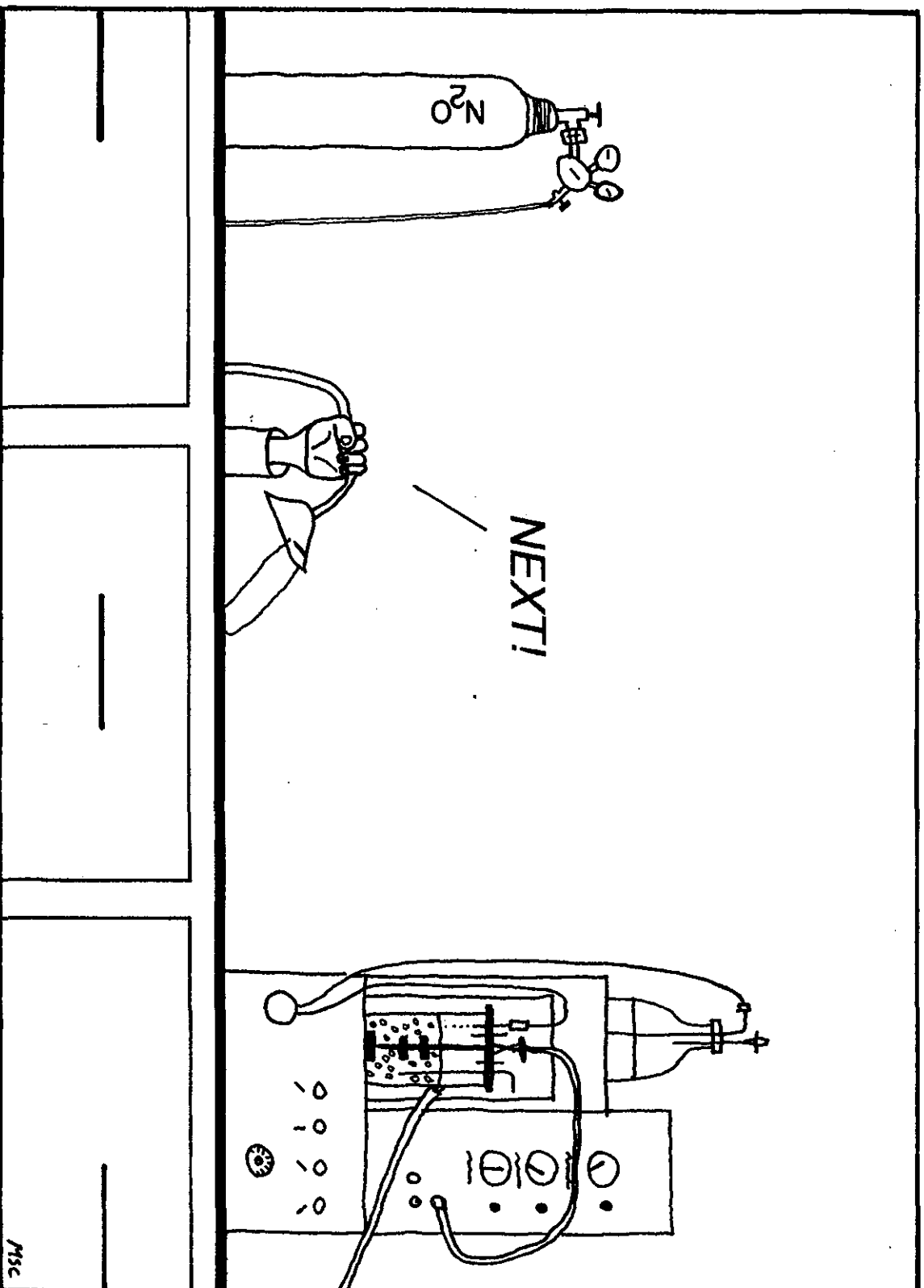


*About Soil Biology and  
Biochemistry*

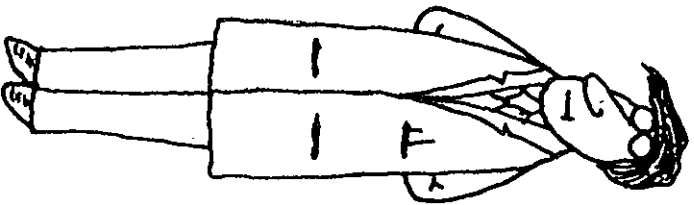
# WELL-BRED INOCULANTS



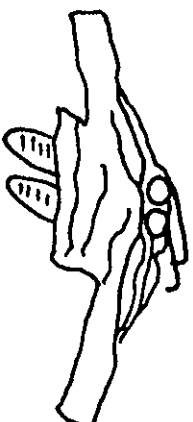
# THE ALLURE OF DENITRIFICATION



# ANNALS OF CARBON CYCLING



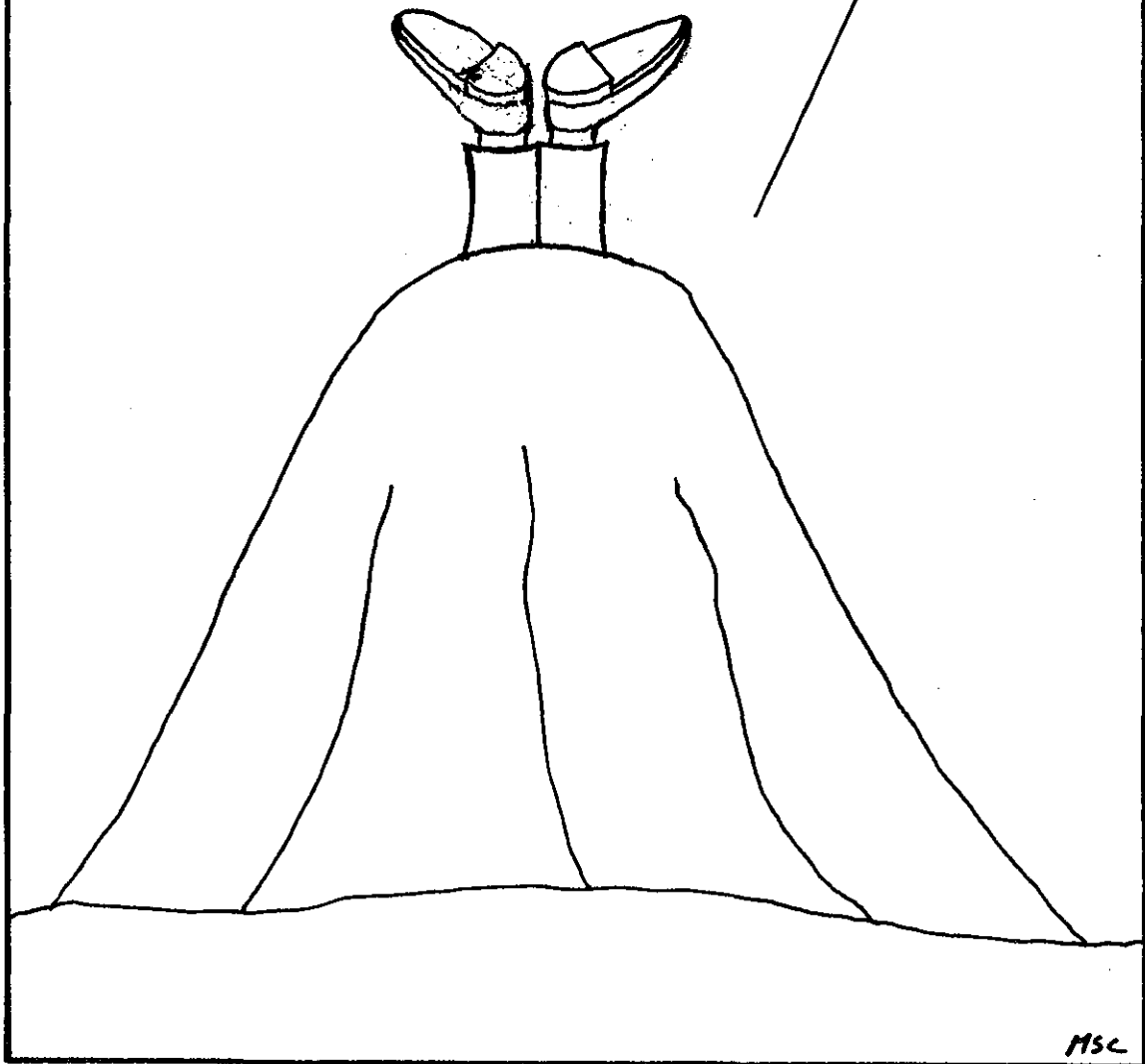
COMPOSED



DECOMPOSED

# EARLY COMPOSTING RESEARCH

*I THINK IT'S GETTING  
HOT IN HERE.*



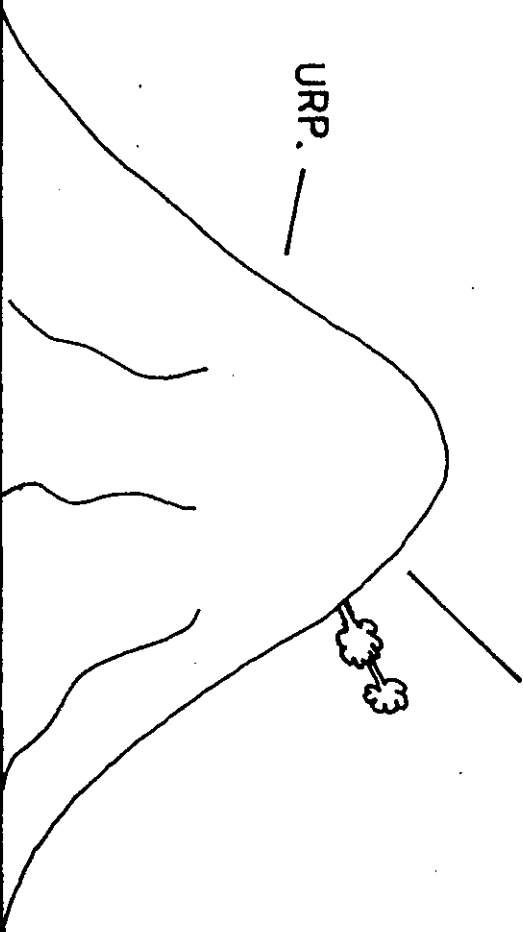
MSC

# WHEN COMPOST HEAPS GO BAD

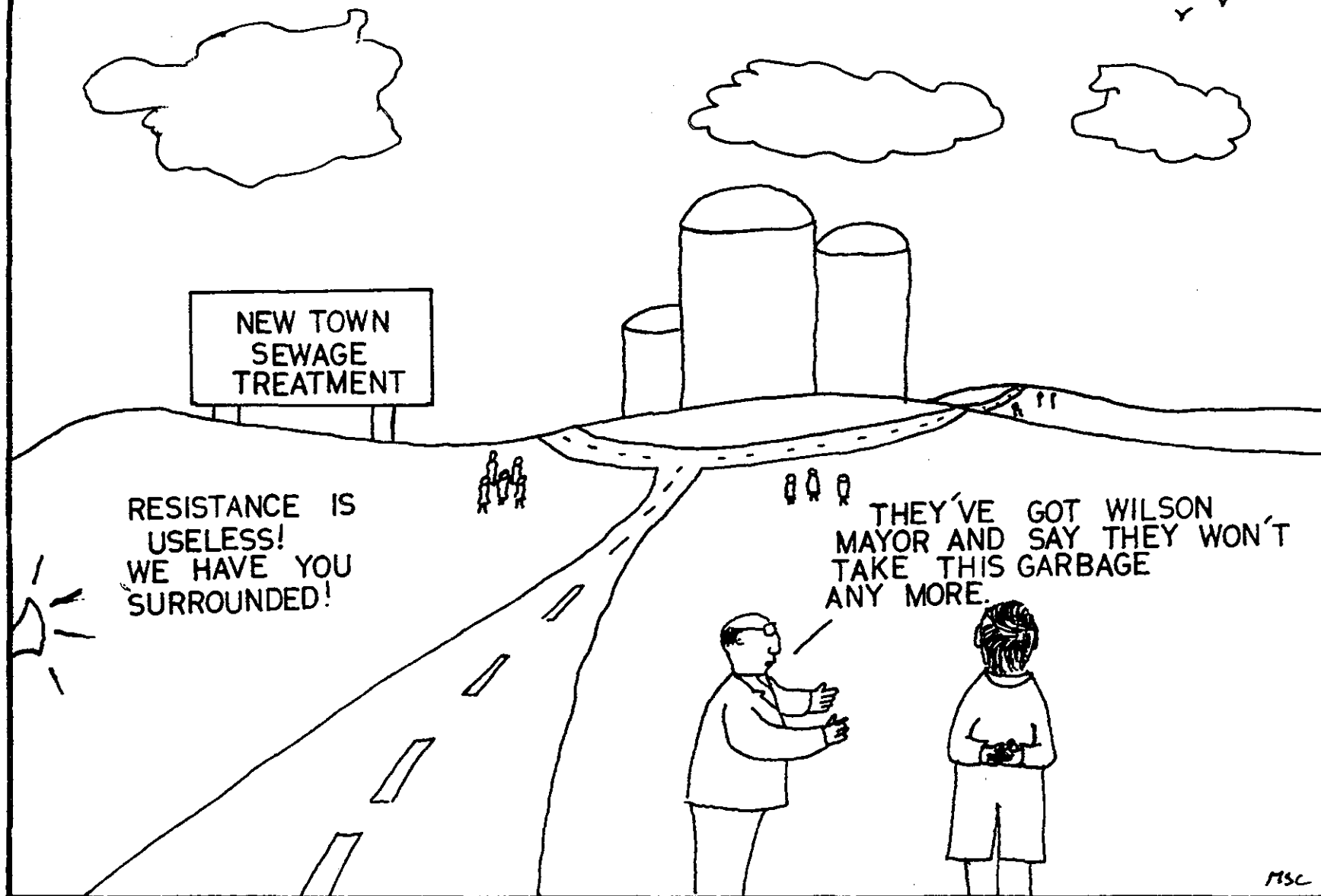
FIFI? FIFI DARLING,  
WHERE ARE YOU?

ARF!

URP.

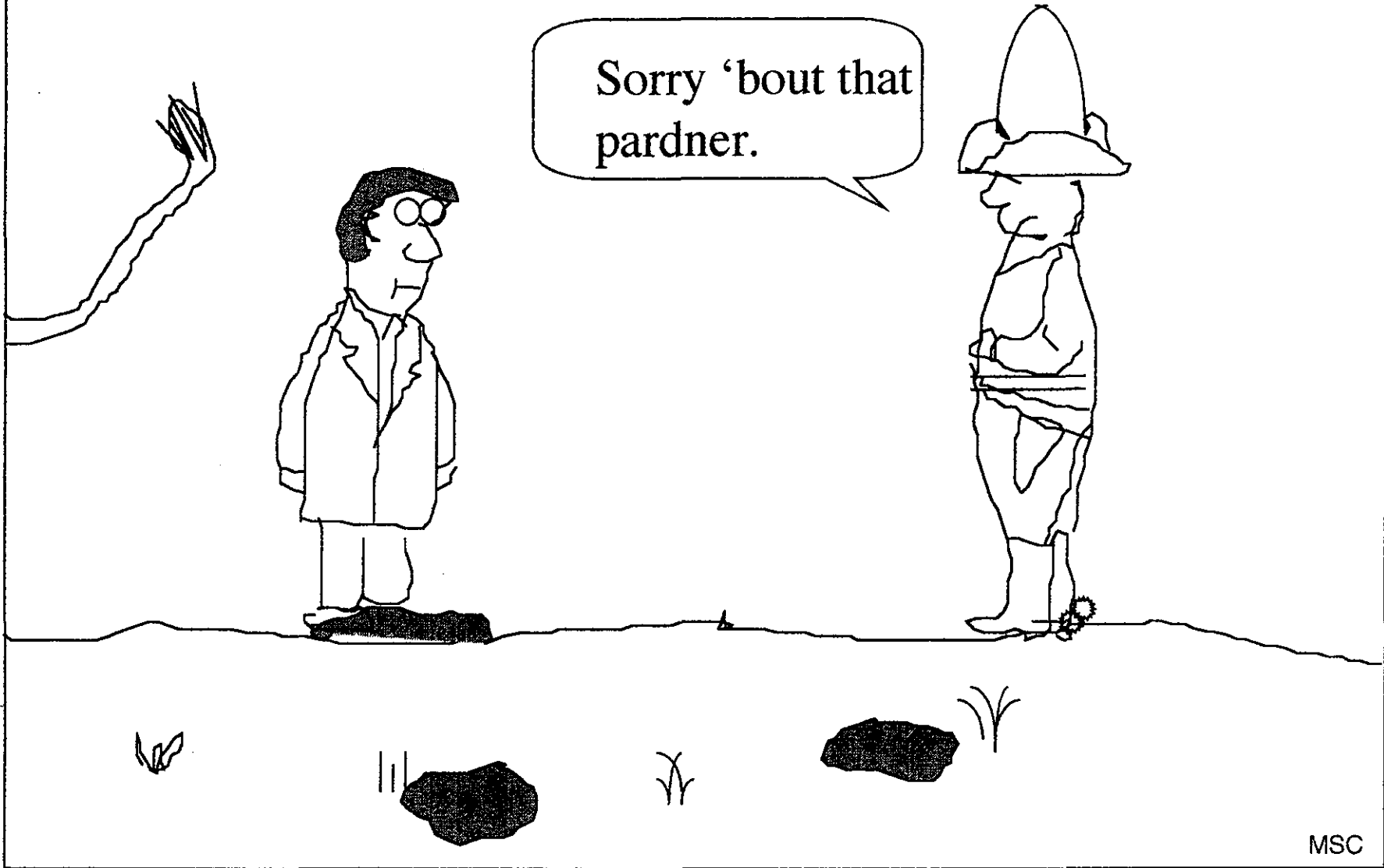


# WHEN ANAEROBIC DIGESTERS GO BAD



# VOIDED DEPOSITS MEAN DIFFERENT THINGS TO BANKERS AND RANCHERS

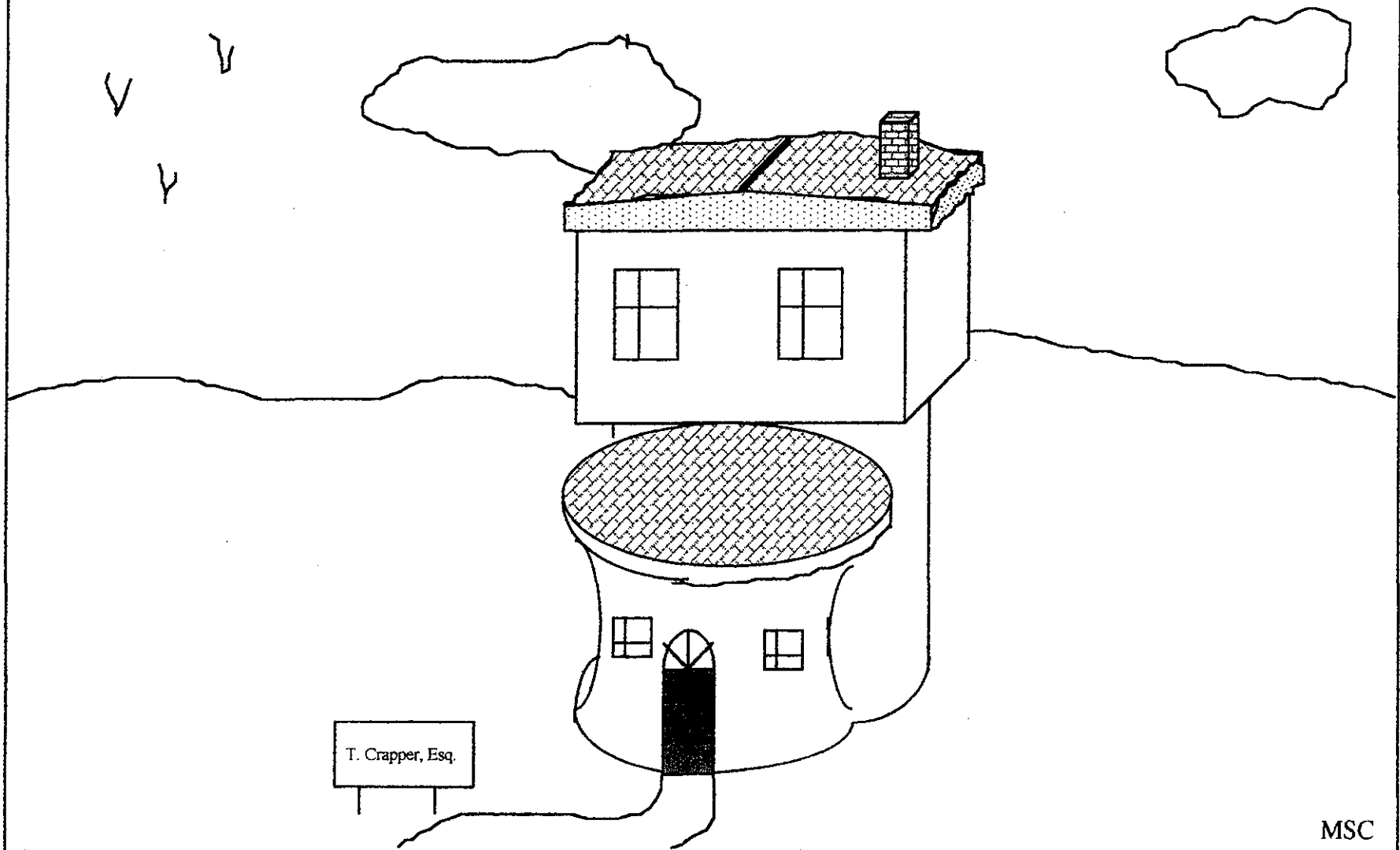
Sorry 'bout that  
pardner.





# ANNALS OF WASTE MANAGEMENT

A VISIT TO THE CRAPPERS' - LONDON, 1800's

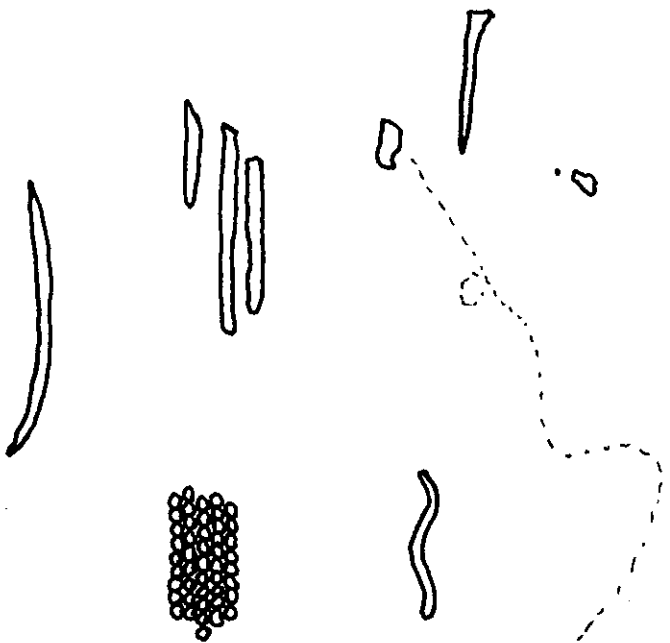


MSC

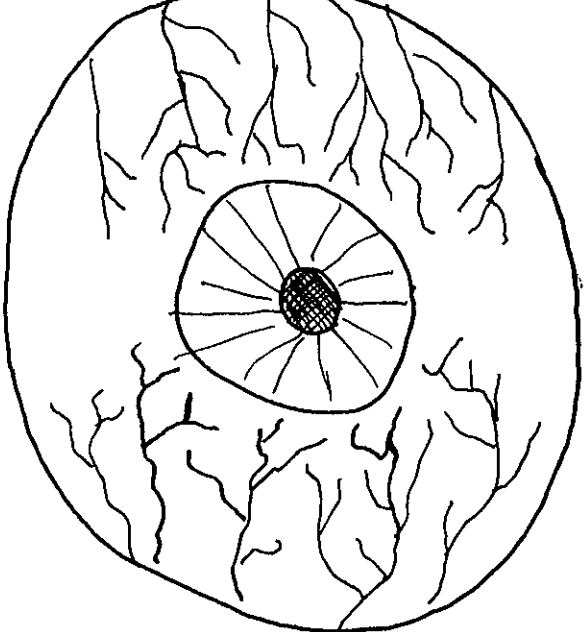
*About the History of  
Microbiology*

WHAT LEEUWENHOEK SAW.

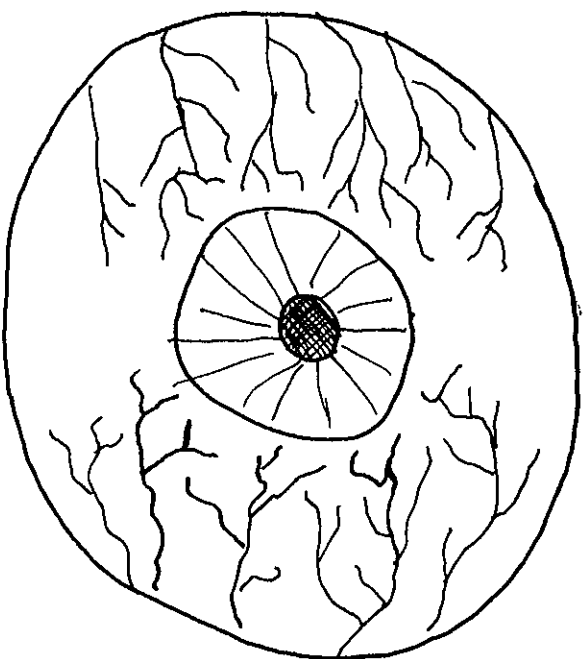
This block contains a series of hand-drawn sketches of various microscopic organisms, likely as seen through a microscope. The sketches include several elongated, curved, and somewhat irregular shapes, some with internal structures. There is also a cluster of small, circular or oval shapes, possibly representing a colony or a group of cells. The drawings are simple line art, capturing the general morphology of the organisms.



WHAT THE ANIMACULES SAW.



MSC



MSC

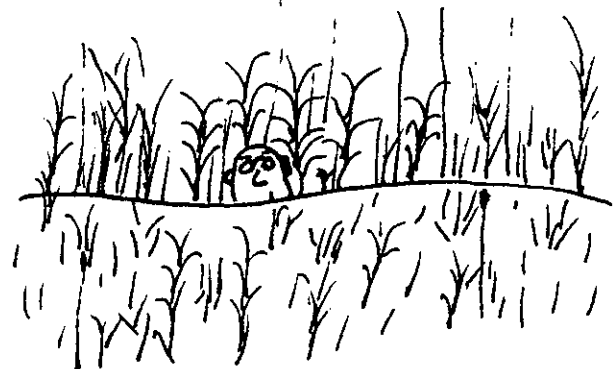
WHEN FAMOUS MICROBIOLOGIST'S NAMES  
ARE MISPRONOUNCED



SALMON  
WAKSMAN

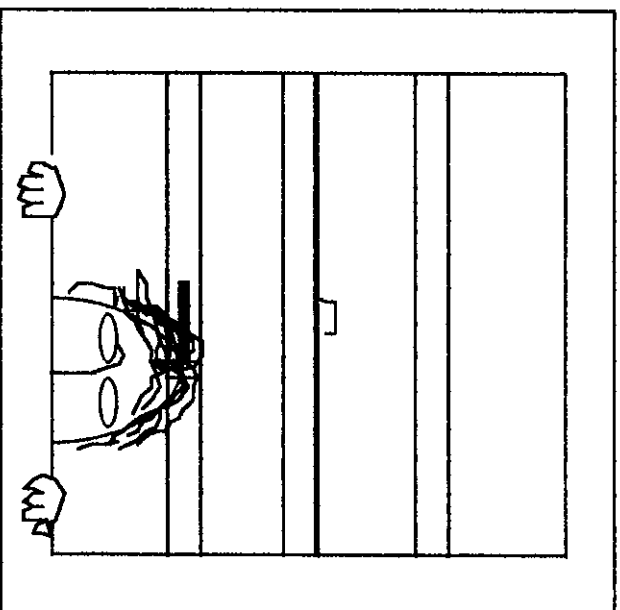


SERGEI  
WINDYGRADSKY



LOUIS  
PASTURE

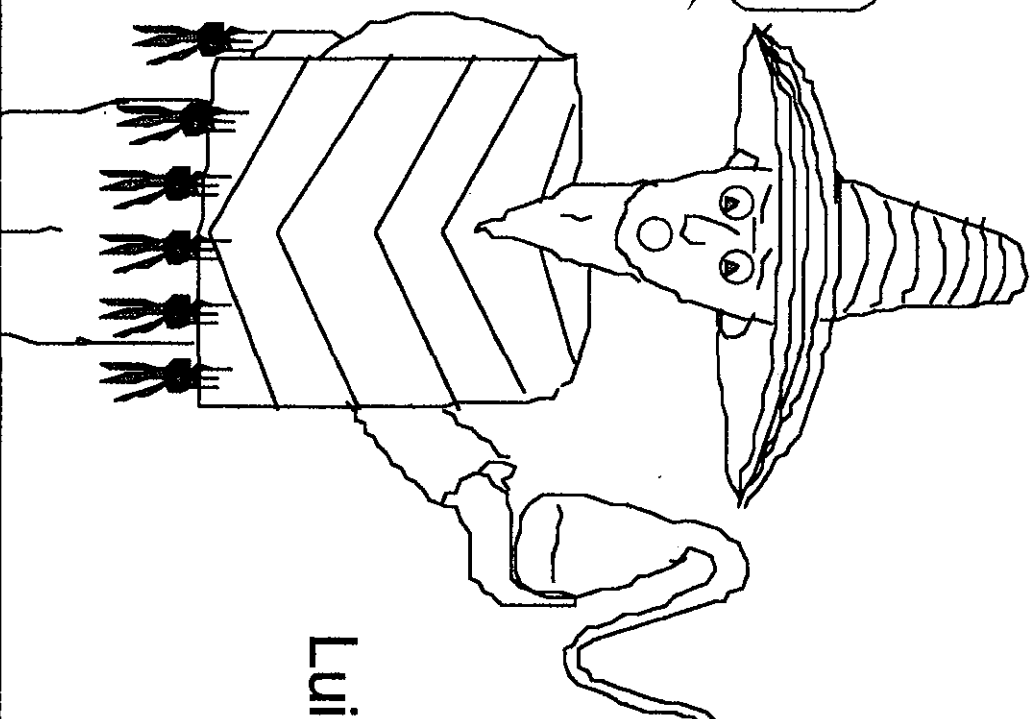
# WHEN FAMOUS MICROBIOLOGISTS' NAMES ARE MISPRONOUNCED - II



Window Gradsky

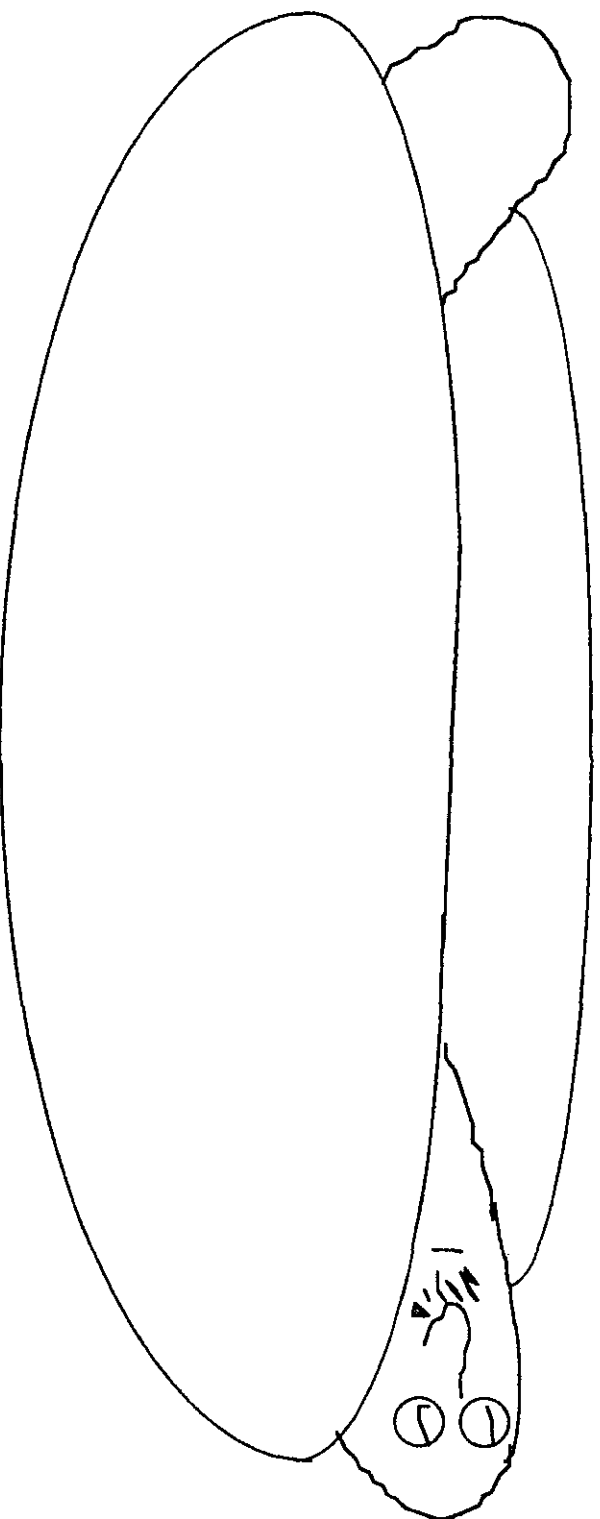
# WHEN FAMOUS MICROBIOLOGISTS' NAMES ARE MISPRONOUNCED - III

Hola!



Luis Pasteur

# **WHEN FAMOUS MICROBIOLOGISTS' NAMES ARE MISPRONOUNCED - IV**



**Weinerggradsky**

# THE TESTING OF PASTEURIZATION

LOUIS, MON DIEU.  
COME TO BED!

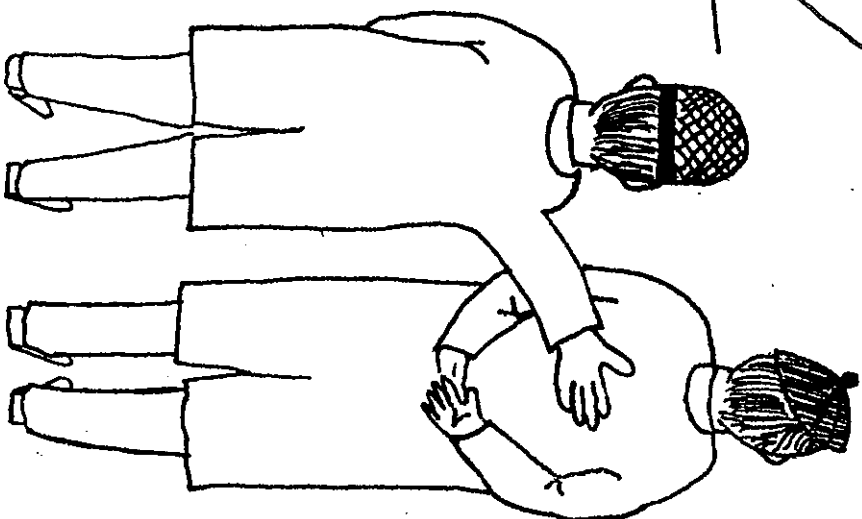
NON! NON!  
I MUZT ZTAY AND  
ZAMPLE ANOTHER  
BOTTLE. EET EEZ FOR  
FRANCE!



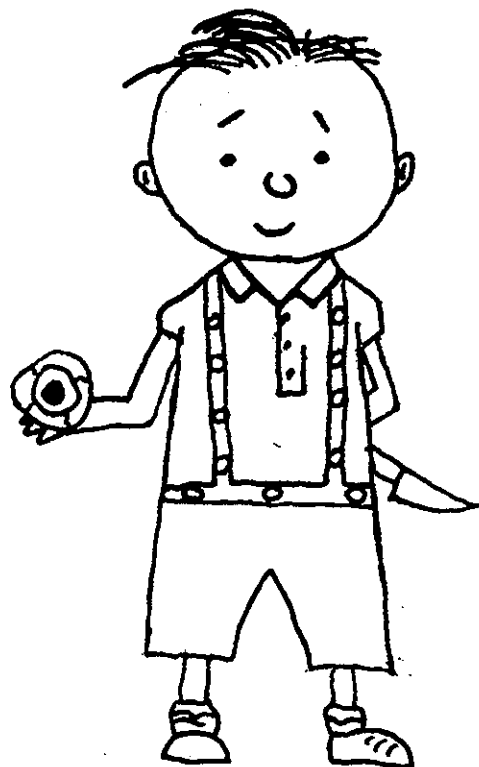


WORKING WITH PASTEUR WAS NO FUN

THINK OF IT MONSIEUR  
THULLIER! YOU CAN  
CHOOSE BETWEEN  
STUDYING RABID  
DOGS OR CHOLERA  
IN EGYPT!



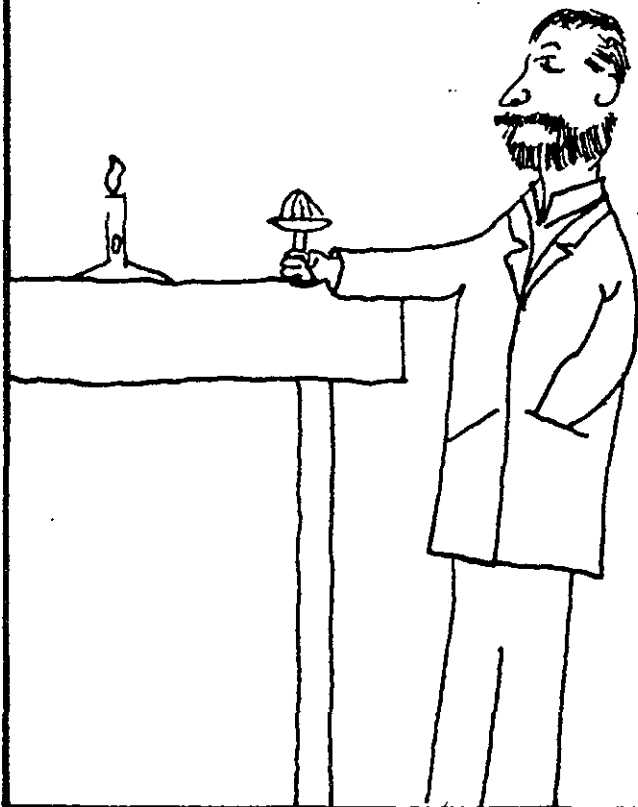
## YOUNG KOCH



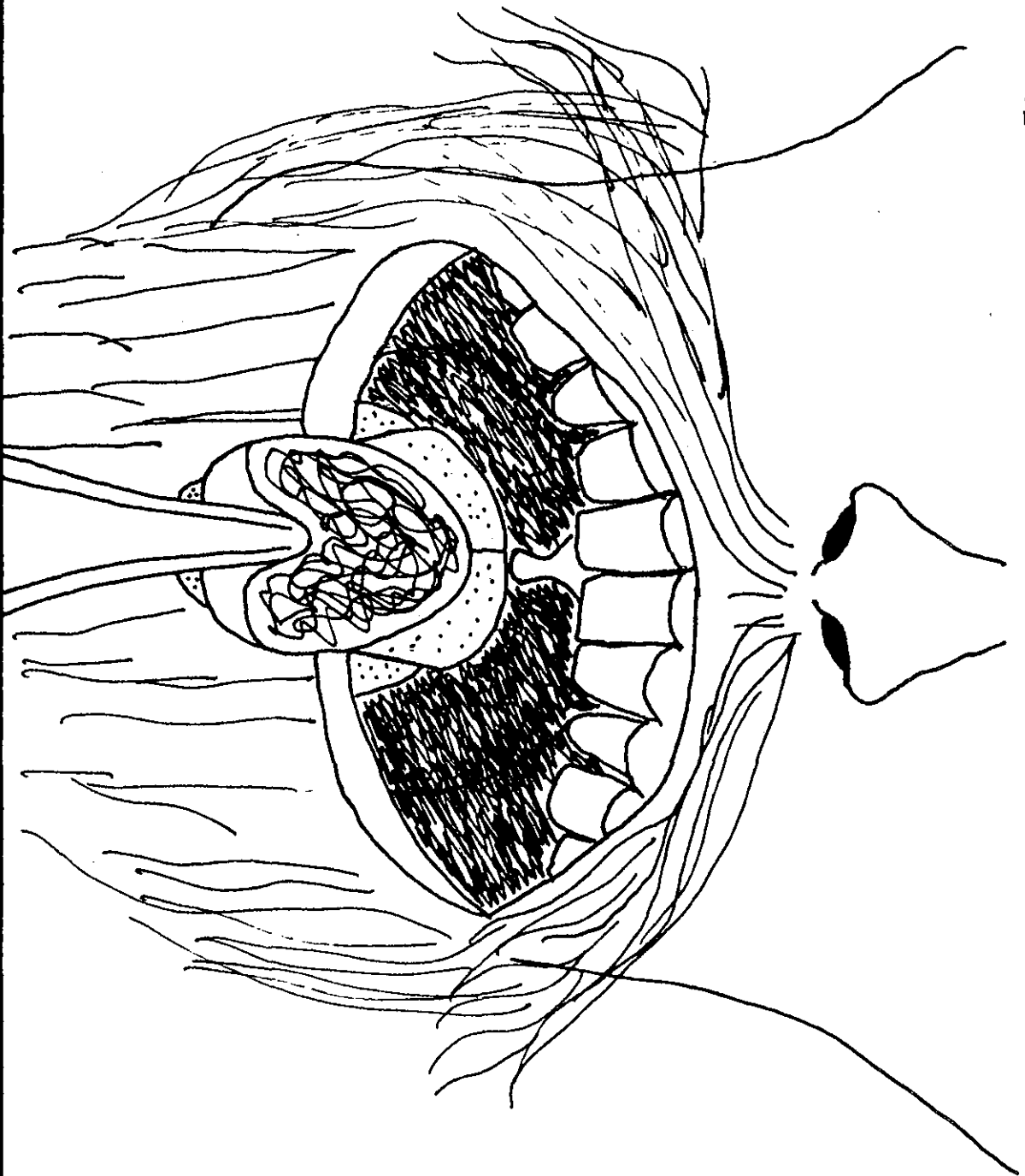
ROBERT! STOP PLAYING  
WITH THOSE EYEBALLS,  
COME BACK HERE, AND  
START STUDYING YOUR  
BOTANY.

ANOTHER IN THE SERIES OF DOMESTIC DISPUTES  
BETWEEN WALTHER AND ANGELINA HESSE THAT  
LEADS TO THE DEVELOPMENT  
OF AGAR-AGAR.

ACH! WALTHER! HERE YOU  
ARE. OUT OF THE  
LABORATORY MIT YOU  
AND YOUR DESSERT! —



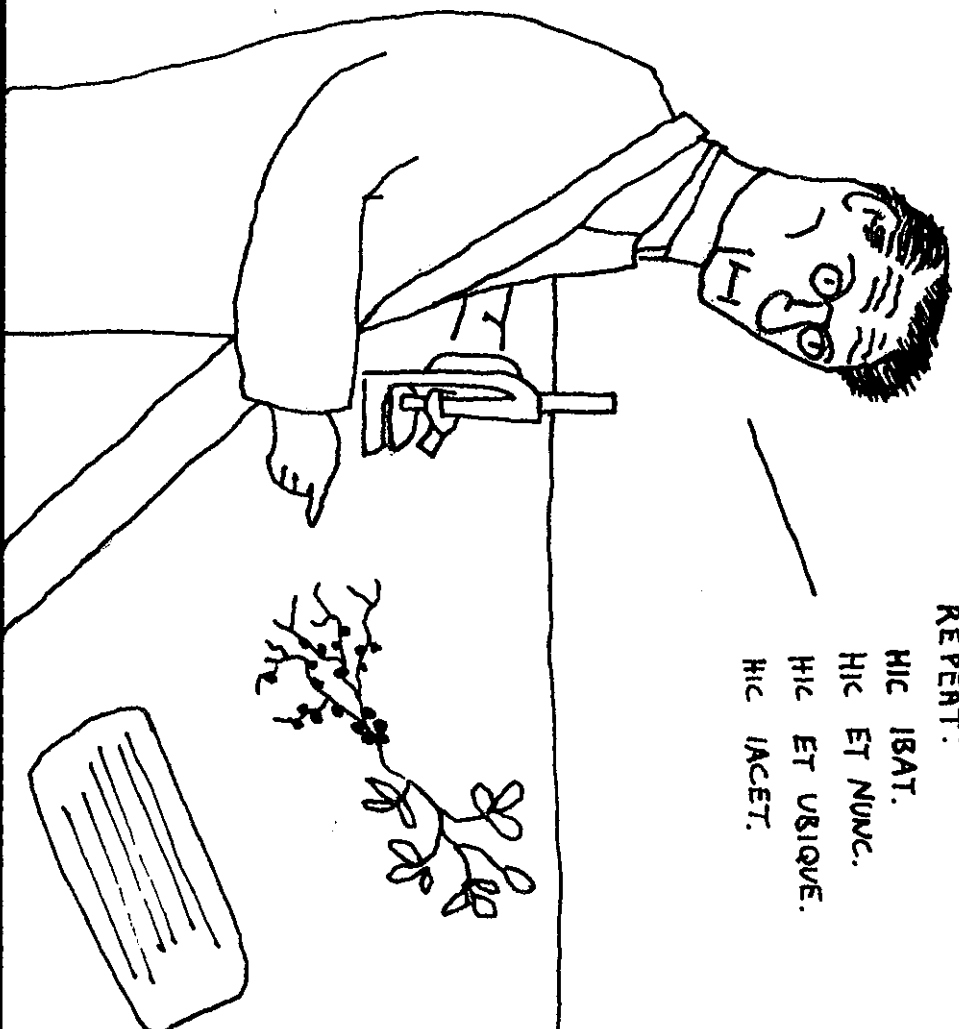
THE FIRST (AND LAST) VIEW LACTOBACILLUS BULGARICUS  
HAS OF ELIE METCHNIKOFF.



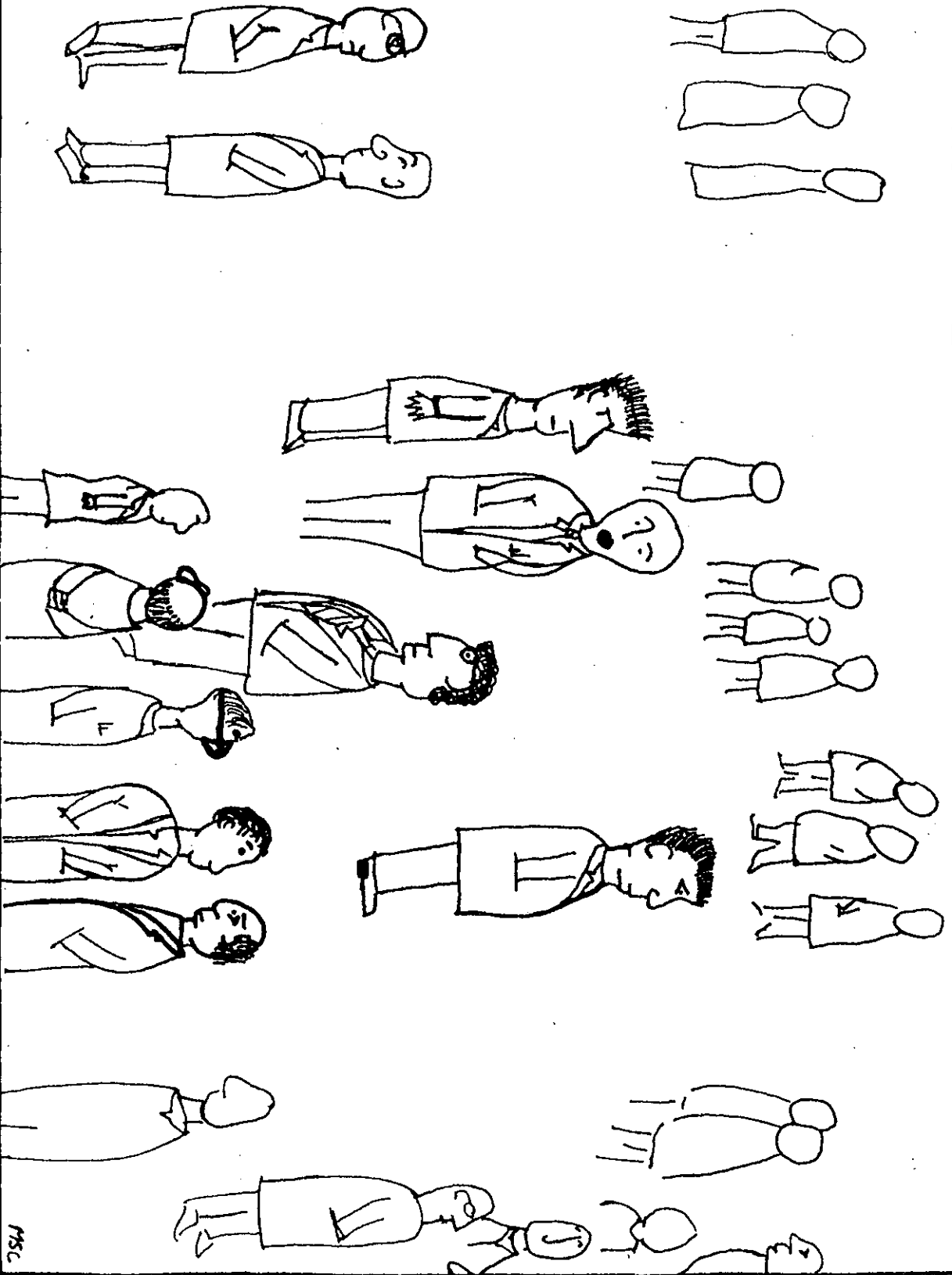
# BEIJERINCK CULTURES RHIZOBIUM FROM ROOT NODULES.

REPEAT!

HIC IBAT.  
HIC ET NUUC.  
HIC ET USIQUE.  
HIC IACET.



# FLEMING AT TEA-TIME



# YOUNG WAKSMAN

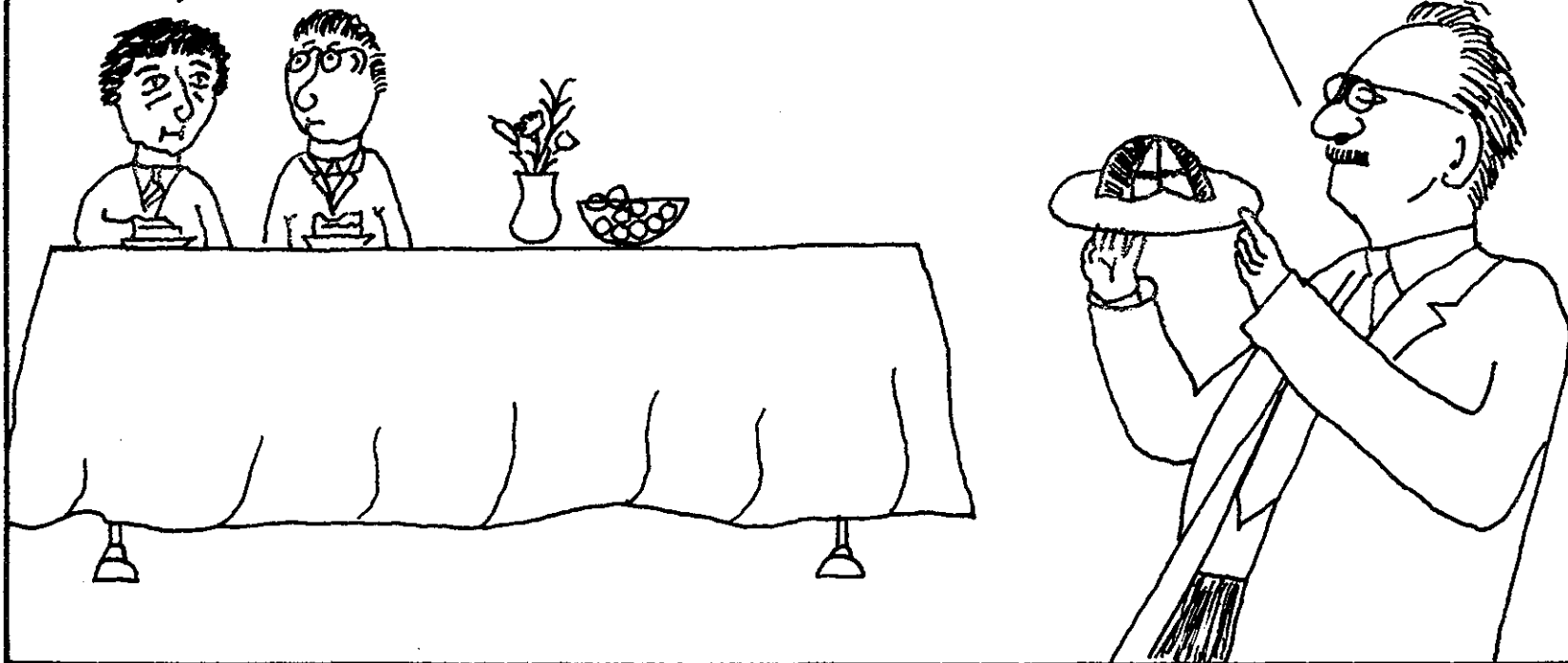
SELMAN! STOP  
EATING THE  
FRONT YARD!



WAKSMAN'S STUDENTS WERE OFTEN UNWITTING  
PARTICIPANTS IN HIS MORE OBSCURE  
ACTINOMYCETE RESEARCH

GOSH J.P.,  
DR. WAKSMAN'S MUD PIE  
TASTES AN AWFUL LOT  
LIKE DIRT.

MORE DESSERT BOYS?



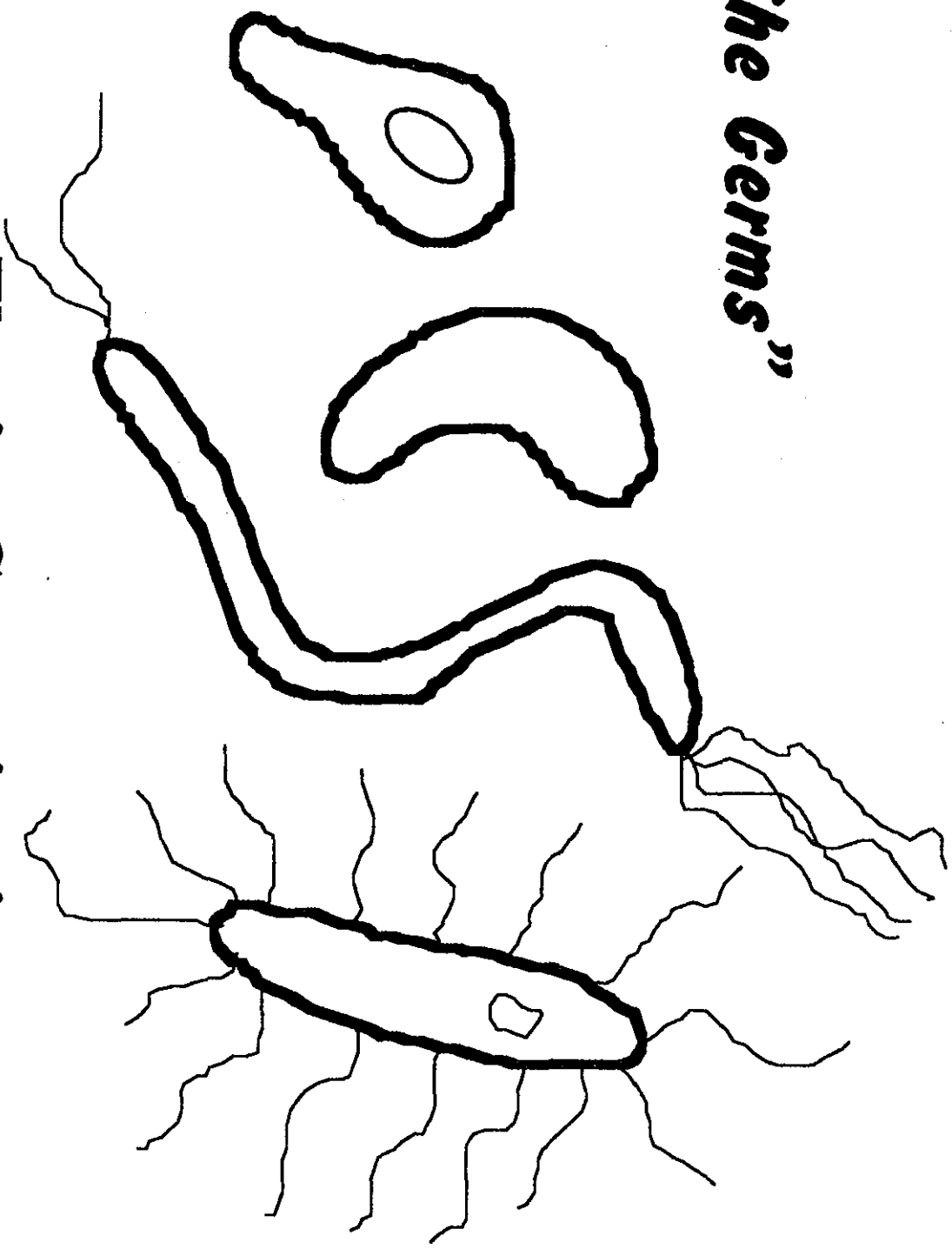
MSC



# *About Microbiology*

**Playing at a Theater Near You?**

***“The Germs”***



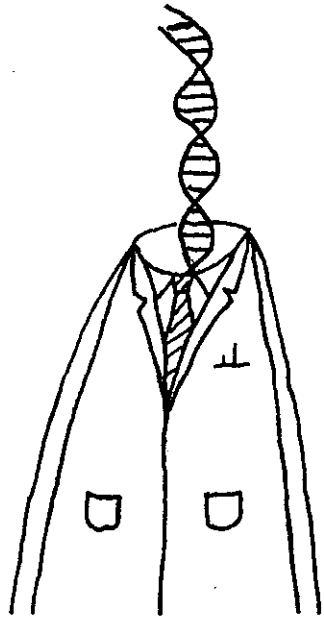
**They're Contagious!**

# ORIGIN OF MICROBIOLOGISTS

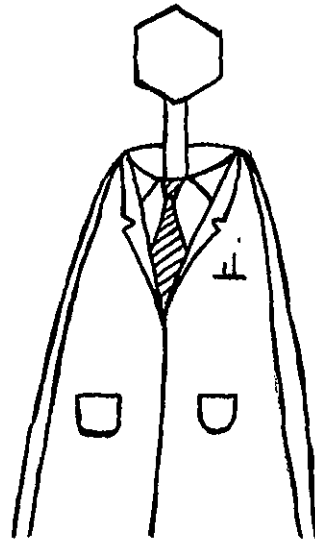


—	—	—	—
—	—	—	—
—	—	—	—
—	—	—	—

# WHEN MICROBIOLOGISTS GET TOO CLOSE TO THEIR WORK



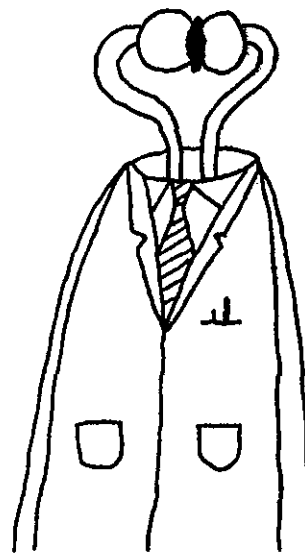
GENETICIST



VIROLOGIST



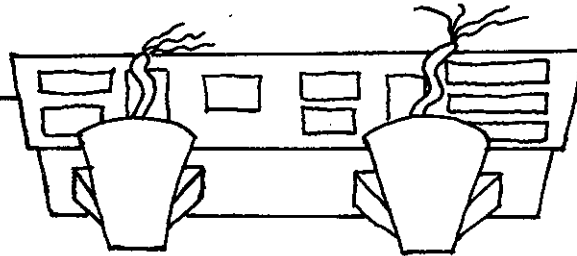
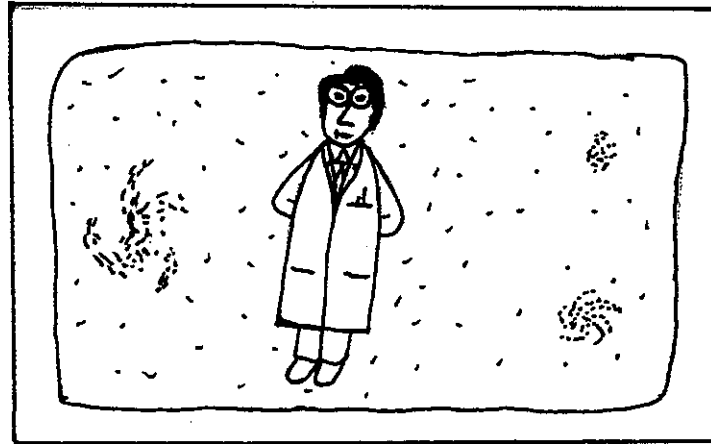
BACTERIOLOGIST



MYCOLOGIST

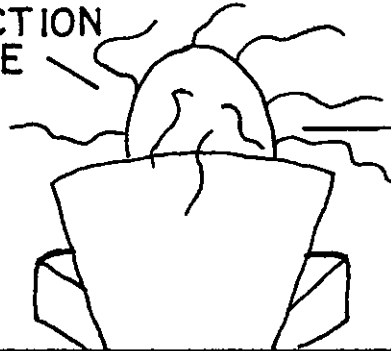
MSC

## MICROBIAL DREAMS



SPOCK! COULD THAT  
STRANGE MULTICELLULAR  
CREATURE BE RESPONSIBLE FOR  
THE DESTRUCTION  
OF ALL THOSE  
PLANETS?

THAT WOULD BE A  
LOGICAL ASSUMPTION  
CAPTAIN.



BONES?

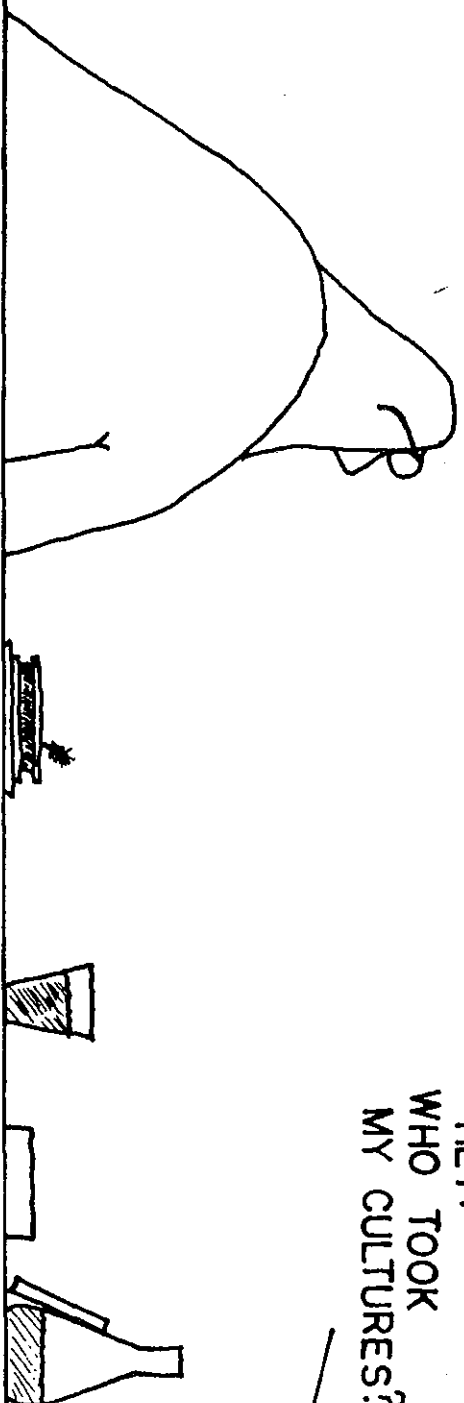
I'M A BACILLUS  
JIM. NOT  
A DOCTOR.



MSC

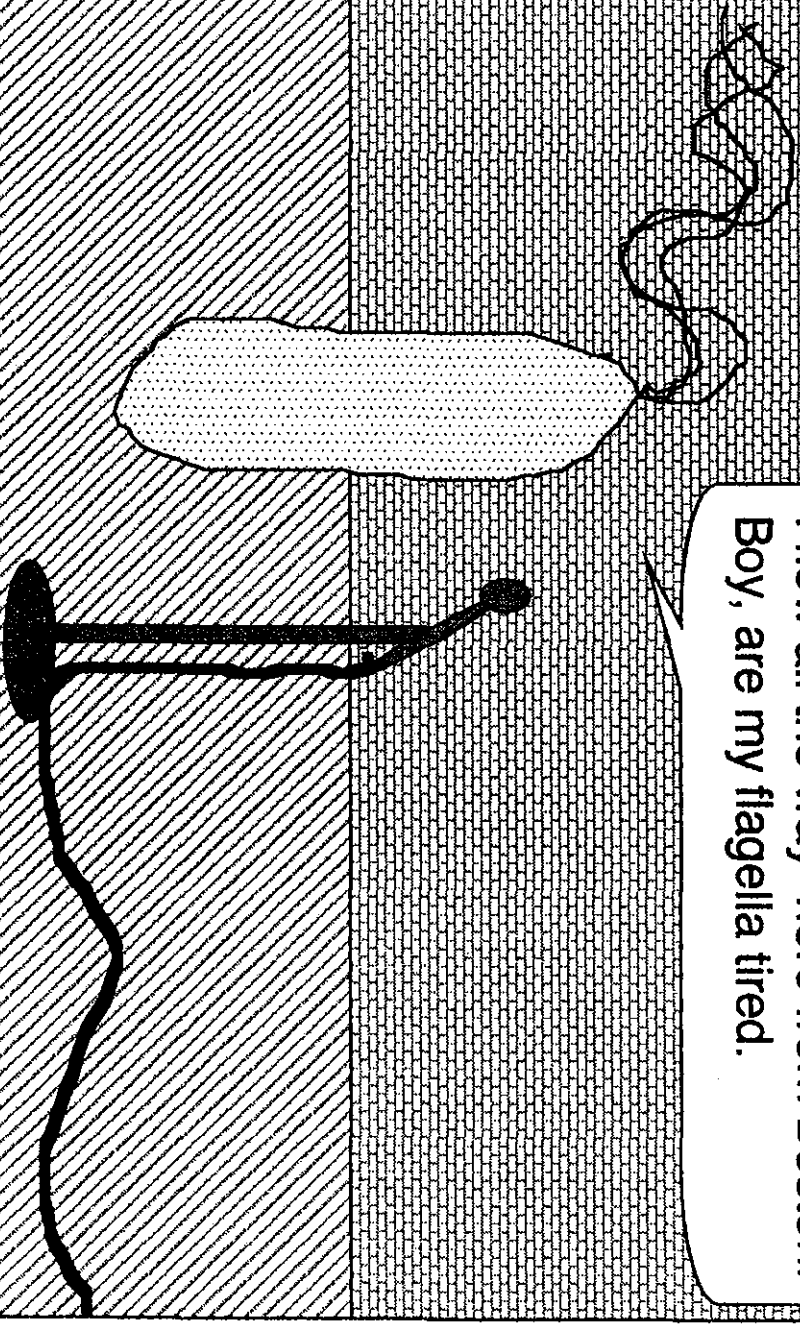
# NEVER EAT WITH A MICROBIOLOGIST

HEY!  
WHO TOOK  
MY CULTURES?

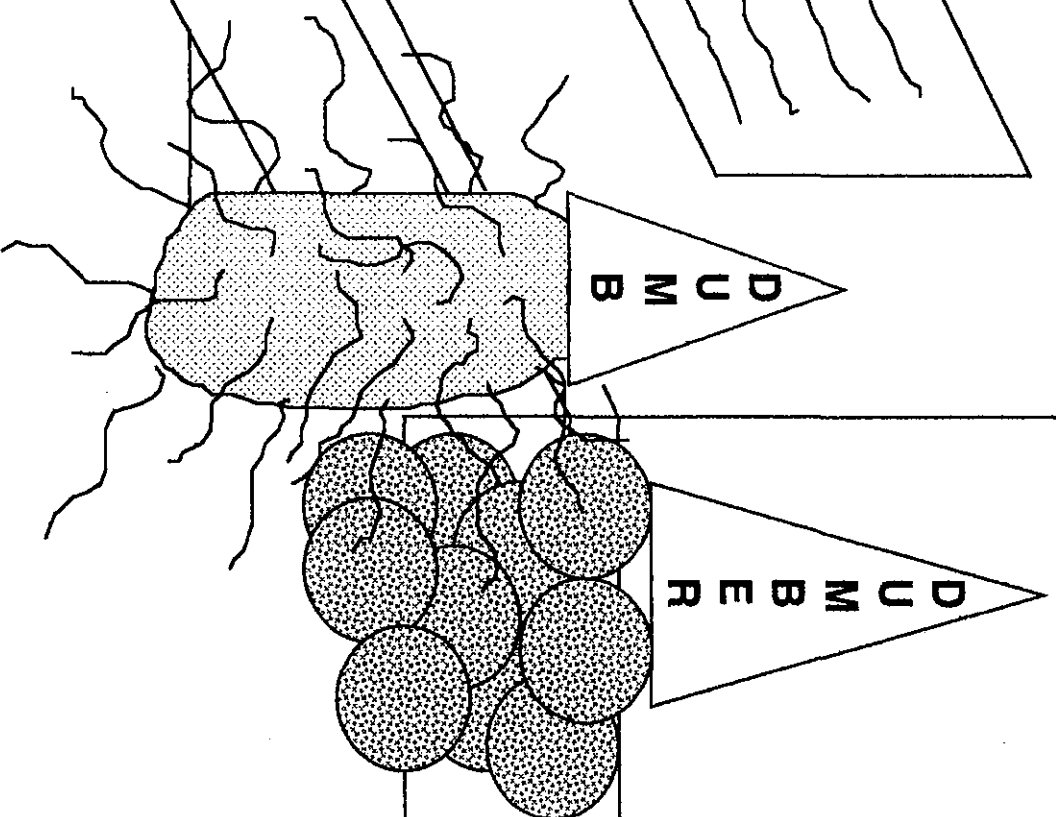


# COMIC BACTERIA

I flew all the way here from Boston.  
Boy, are my flagella tired.



# VIABLE BUT NOT CULTURABLE BACTERIA



*da Bb Ee Dd Ee*

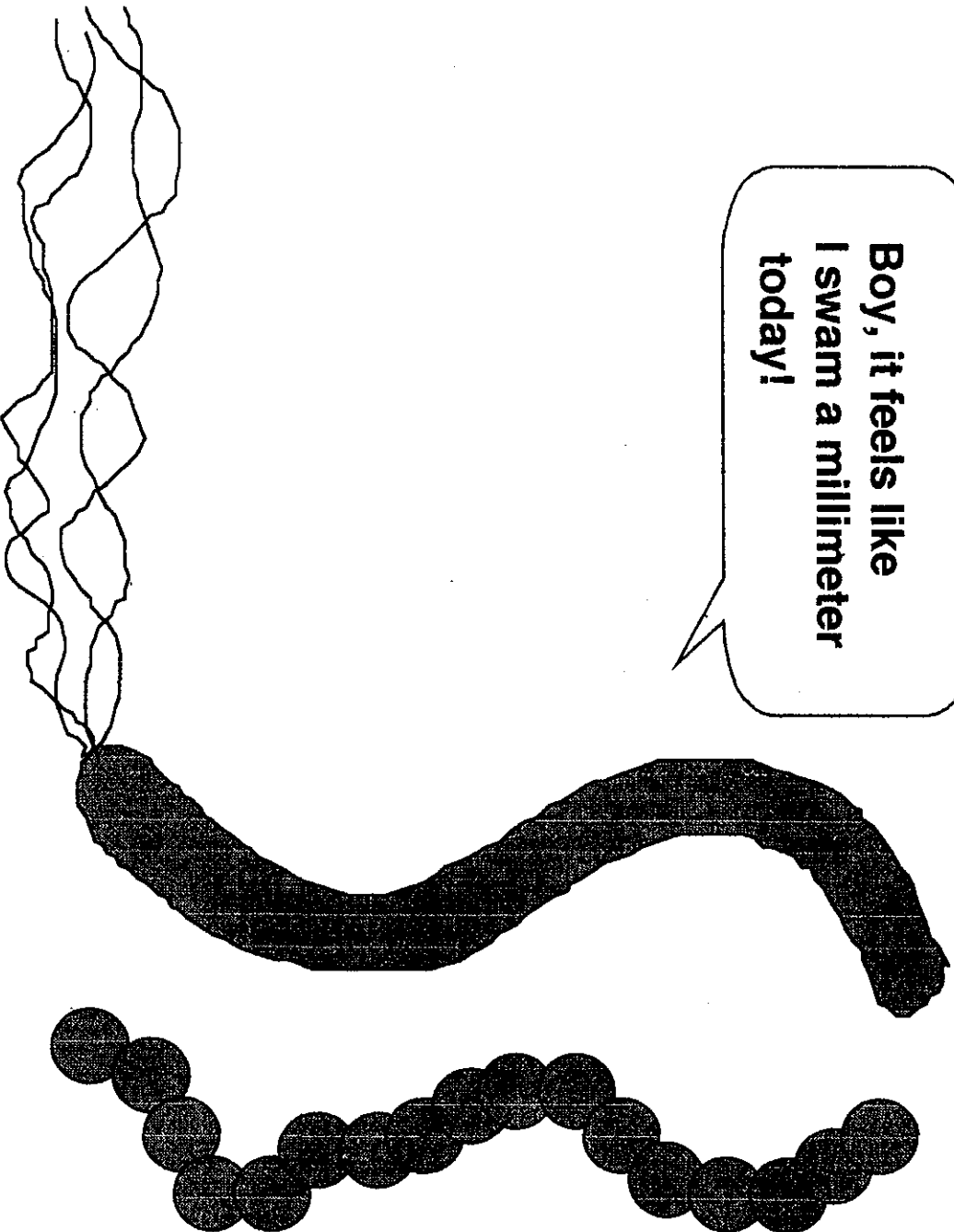
$$\frac{2}{+2} \quad 4$$

$$b = a \times 2^n$$



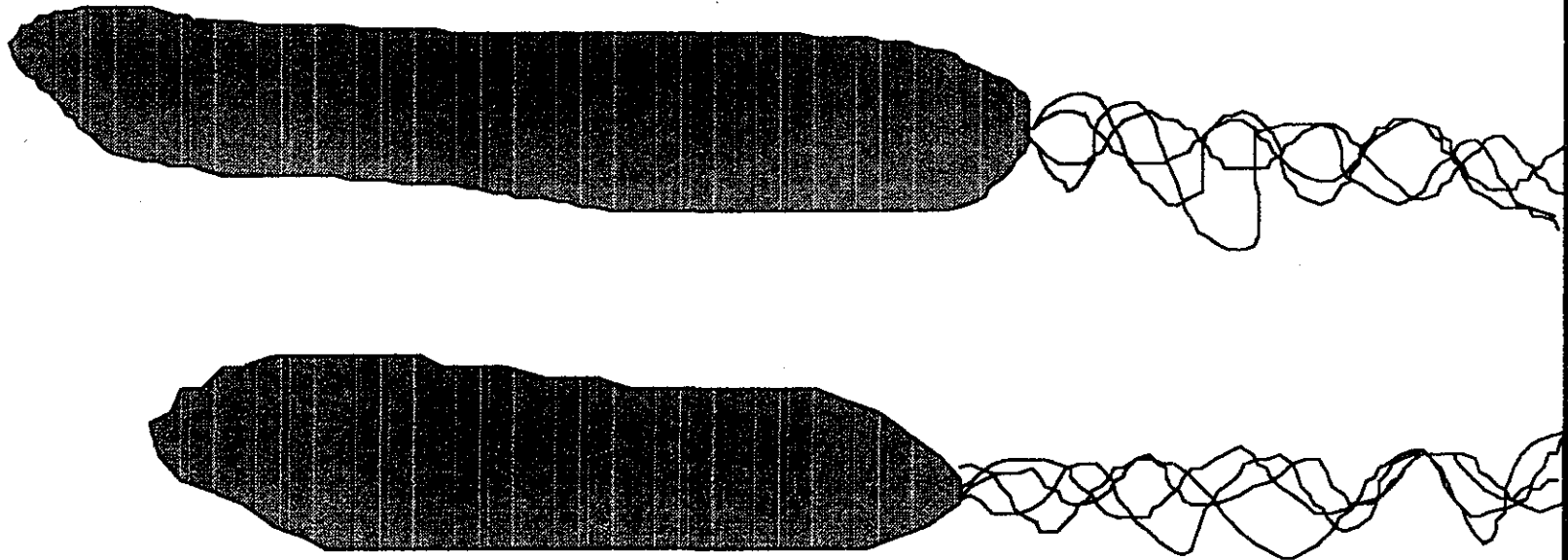
# MICROBIAL SCALES

Boy, it feels like  
I swam a millimeter  
today!

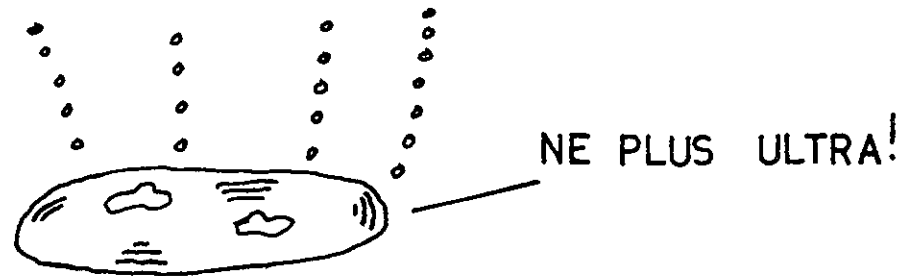


# GENDER CONFUSION AMONG BACTERIA

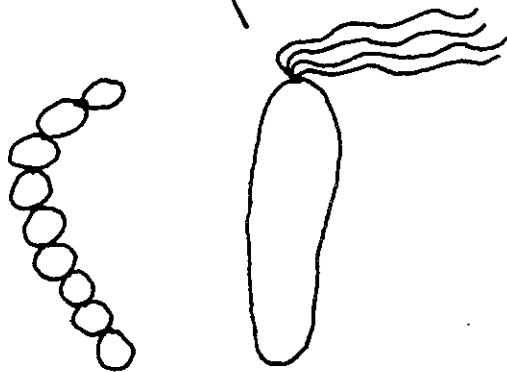
Don't sass me, I'm your mother.  
And your father!



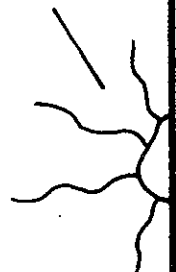
# FUNDAMENTALISM 3 BILLION BC



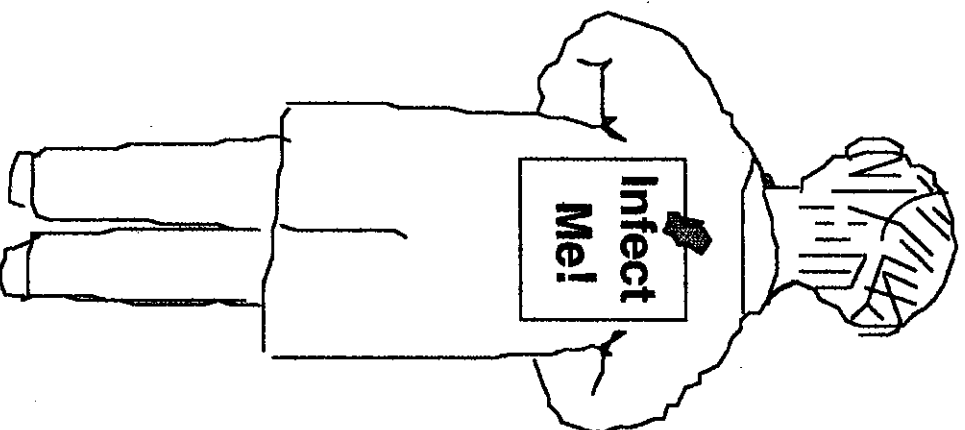
BOY, THOSE PHOTOSYNTHESIZERS  
REALLY THINK THEY'RE THE  
ACME OF CREATION.



HEY! I CAN  
BREATHE



# MICROBIOLOGIST PRACTICAL JOKES



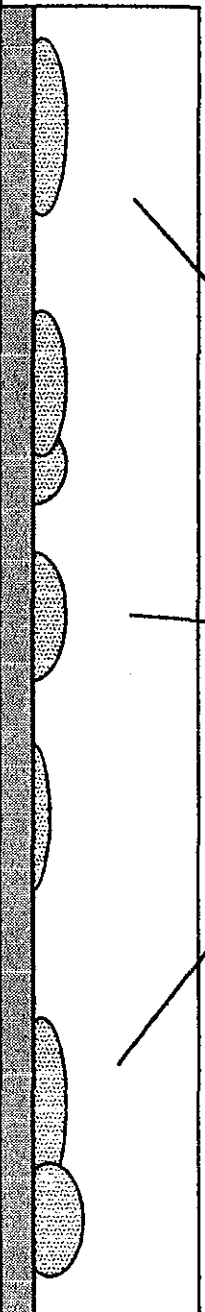
## FORGOTTEN SLOGANS

# Microbiology

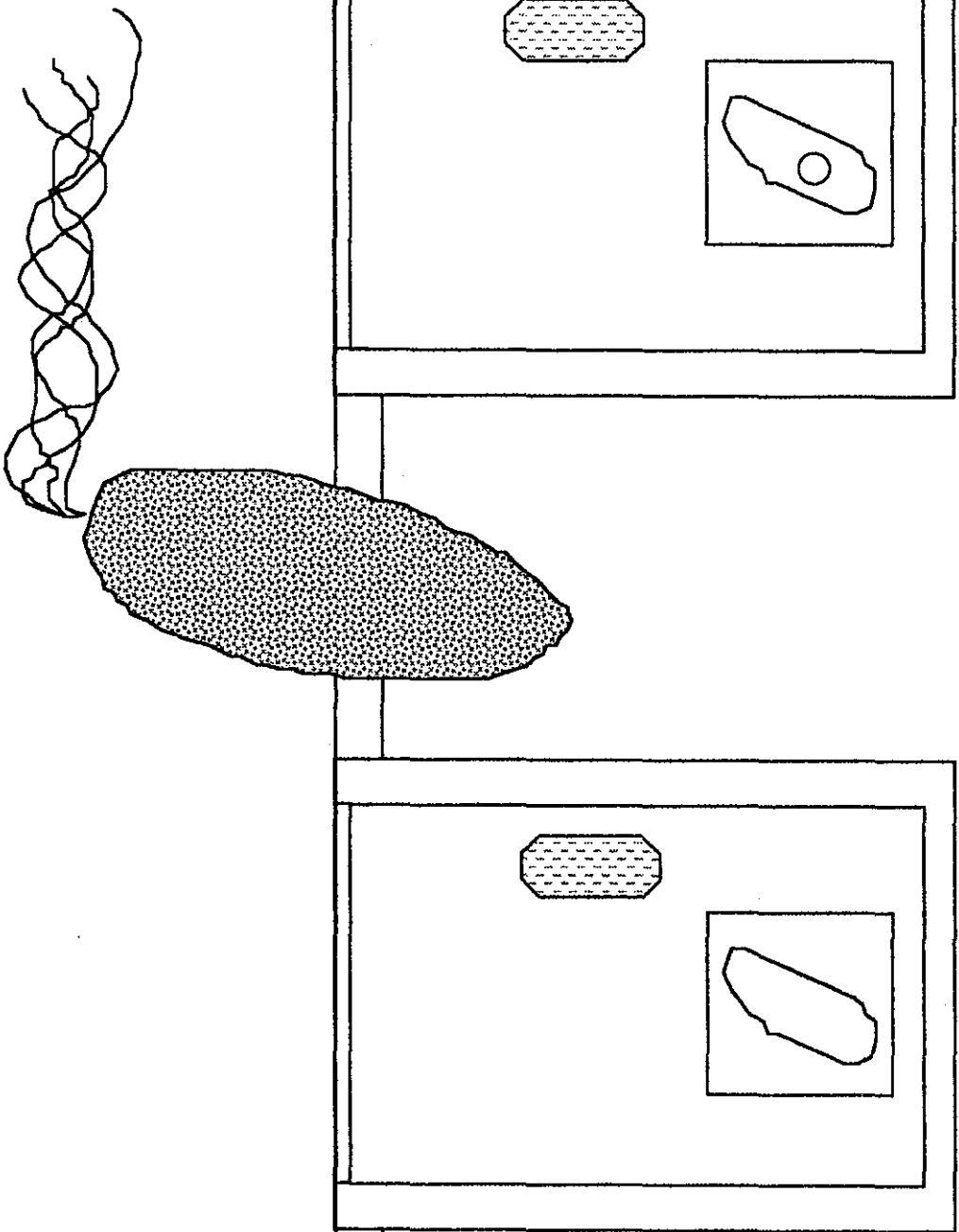
# It's Infectious!

# COLIFORMS ON LEVINE EMB

We're tough. We're mean.  
We've got a green metallic sheen.

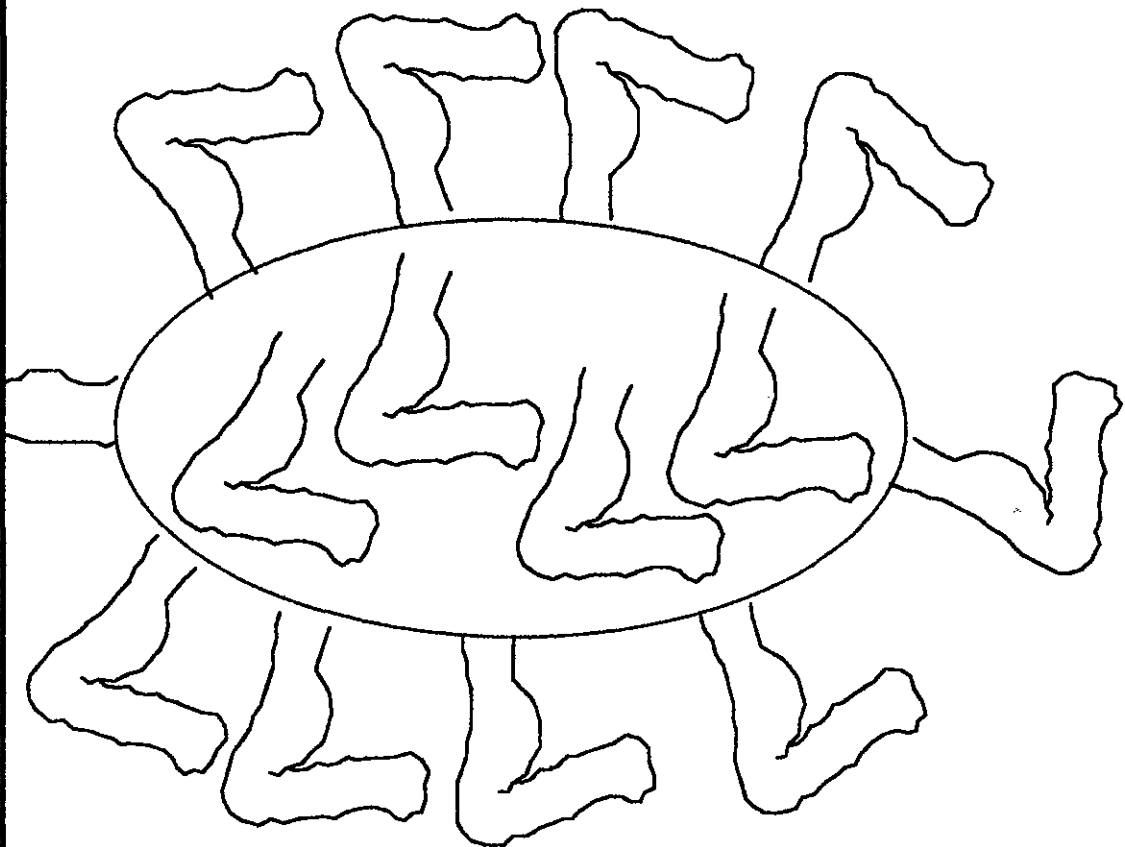


# MICROBIAL RESTROOMS



MSC

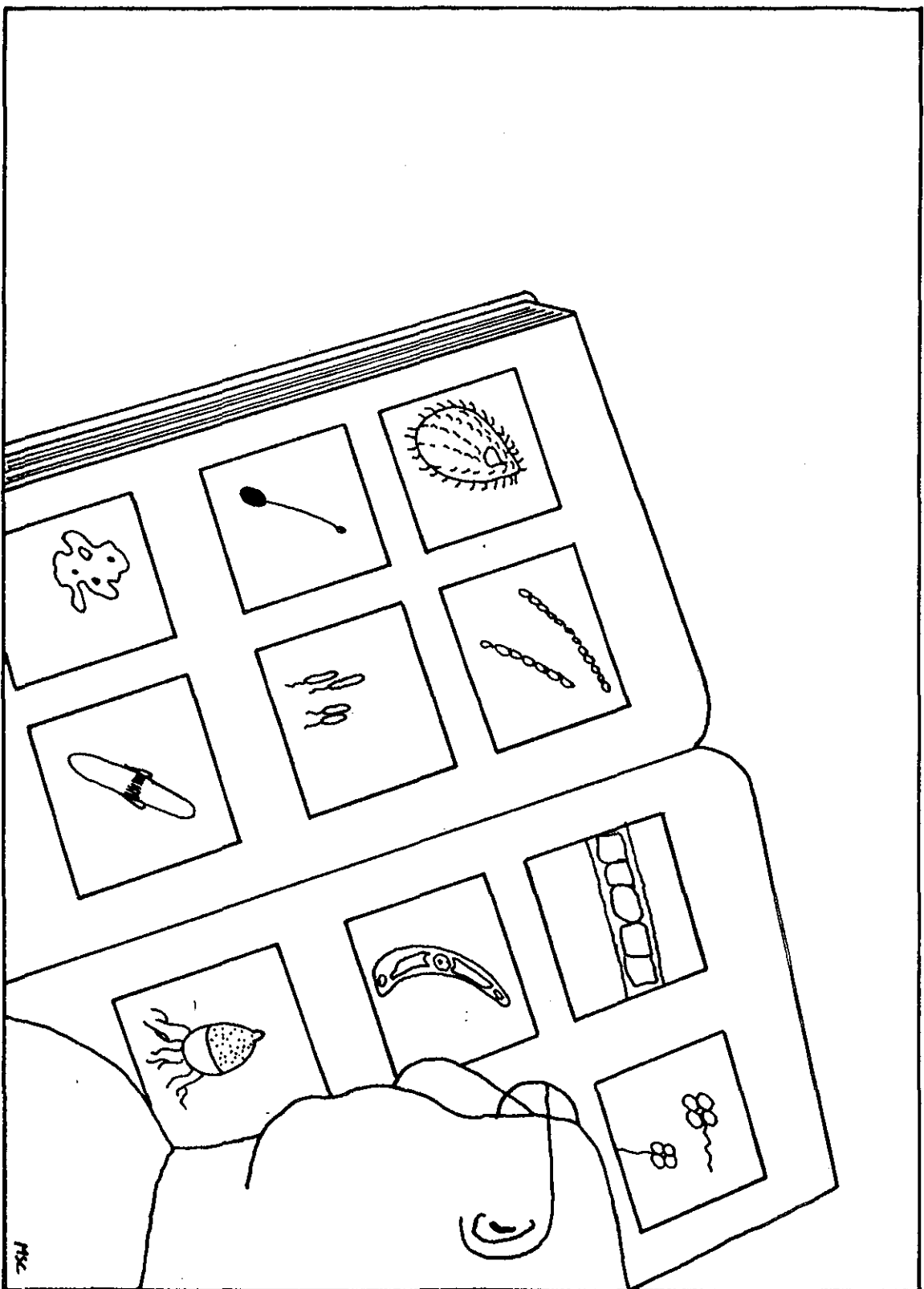
# MICROBES ON STEROIDS





*About Microbial  
Taxonomy*

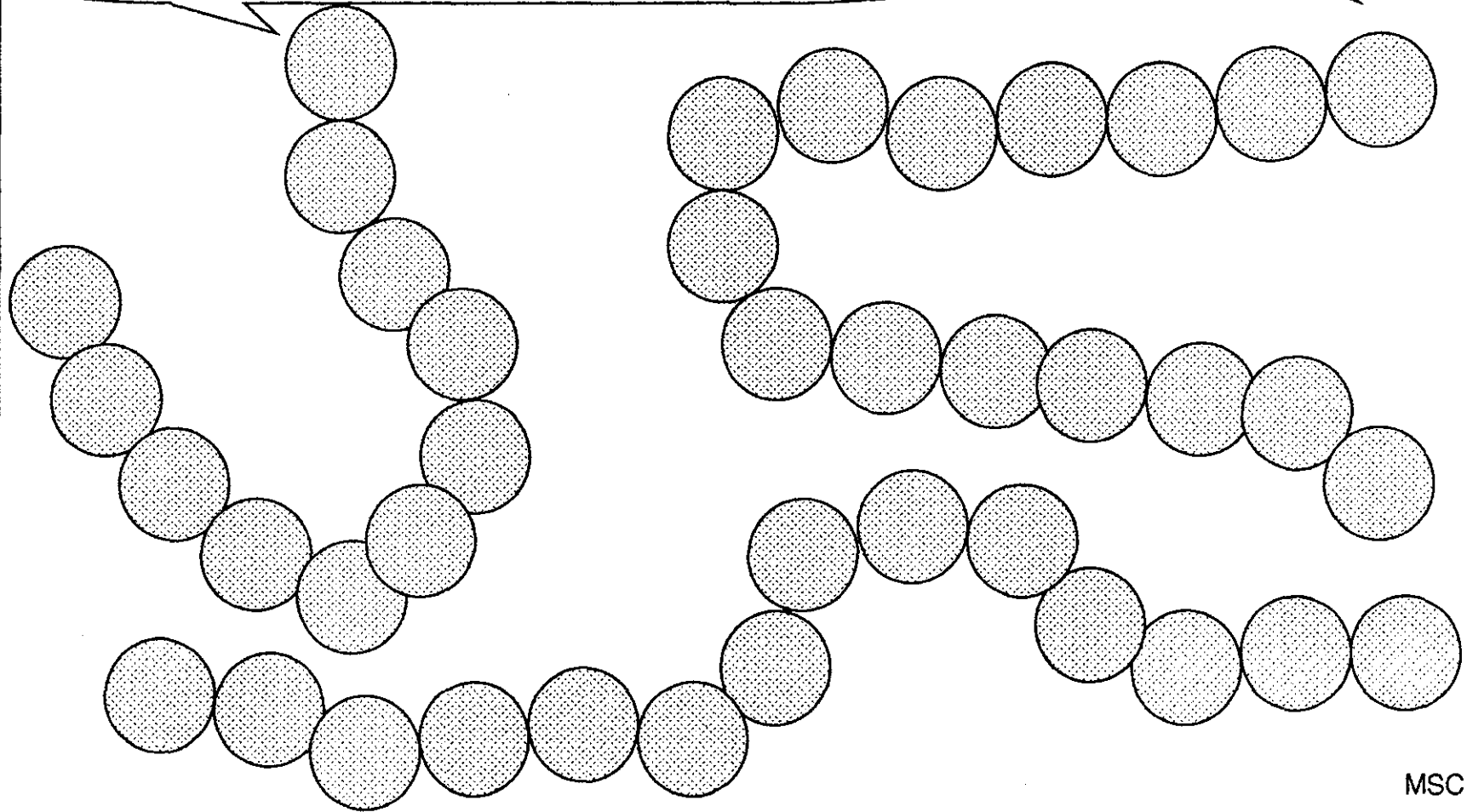
# MICROBIOLOGIST FAMILY ALBUMS



# POLITICS AMONG THE GRAM POSITIVE BACTERIA

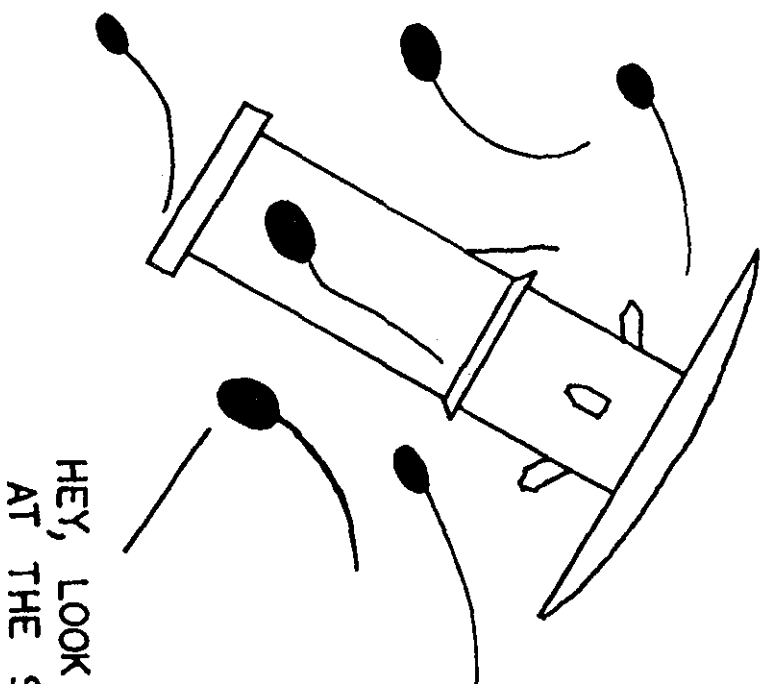
**Streptococci of the World Unite!  
You have nothing to lose but your chains!**

**Uh, Boss . . .**



MSC

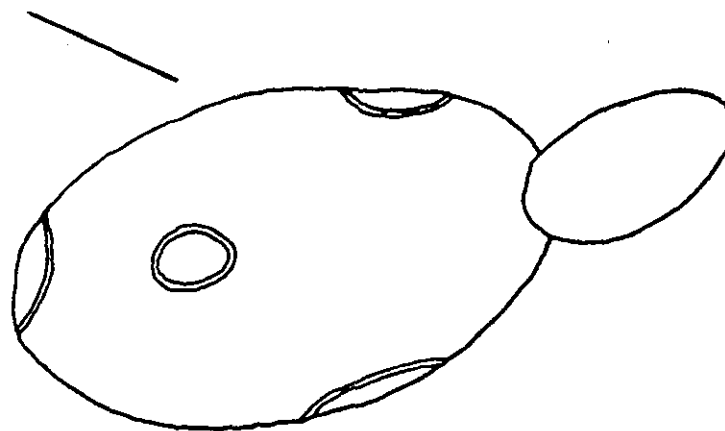
# WHY SOME PROSTHECATE BACTERIA DISLIKE BATHING



HEY, LOOK OVER THERE  
AT THE SIZE OF WILLIE'S!

# WHY BUDDING MICROBES MUST PART

DID I TELL YOU TO DO THAT?  
ARE YOU DEAF?  
WHY DON'T YOU EVER  
LISTEN TO ME!  
IF I'VE TOLD YOU  
ONCE I'VE TOLD  
YOU A HUNDRED  
TIMES . . . . .



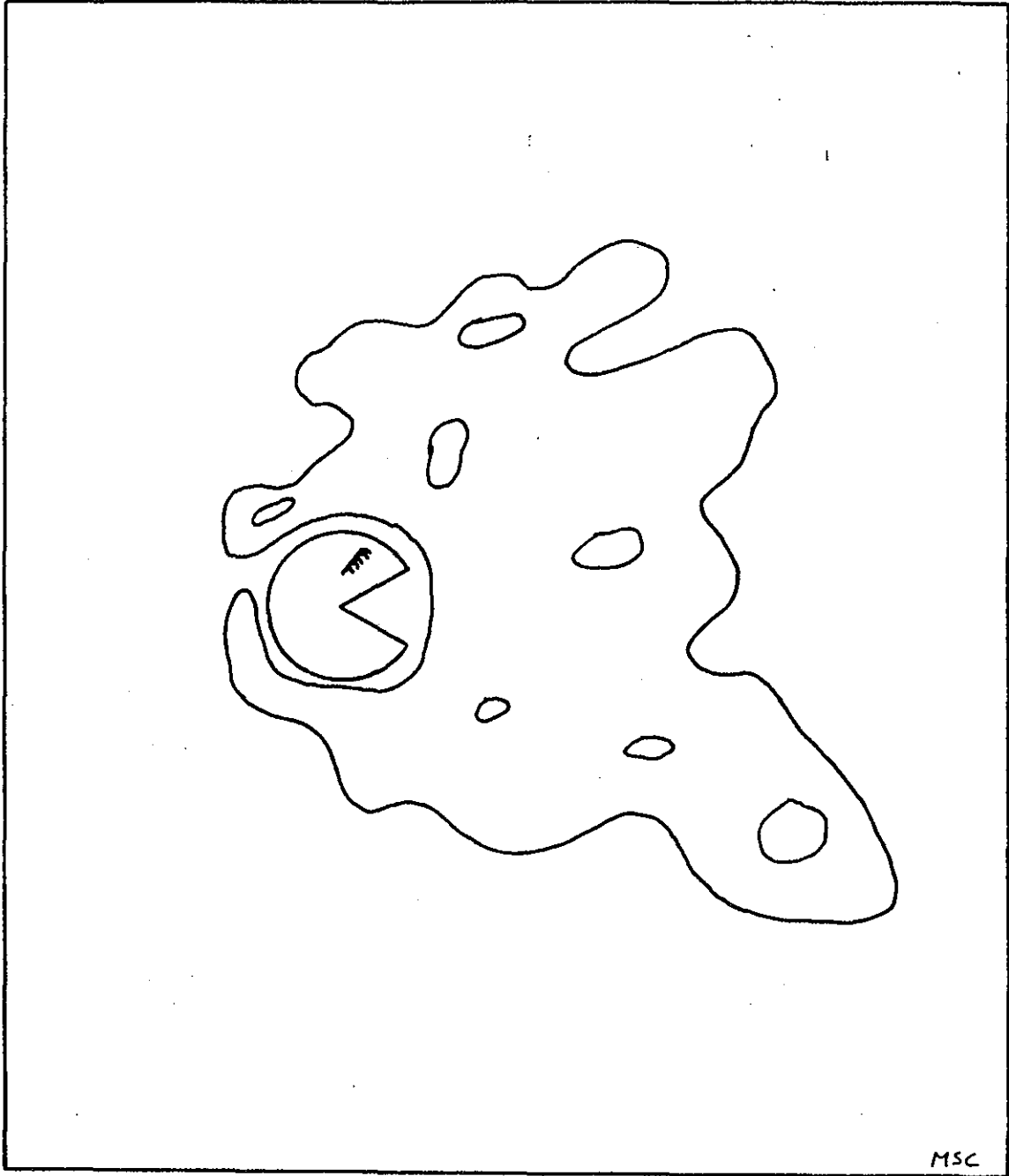
I'VE GOTTA  
GET OUT OF  
HERE.

INEVITABLY THEY DISCOVERED THE CHAIRMAN WAS  
SIMPLY A HIGHLY DEVELOPED FRUITING STRUCTURE

THEY SAY THE CHAIRMAN  
AT VPI SWARMED LIKE THIS  
LAST YEAR.

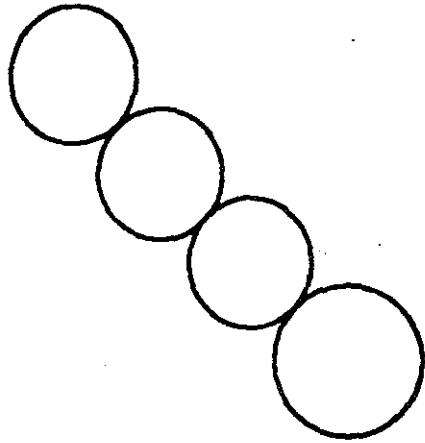


# MS. PAC-MAN MEETS MR. AMOEBA

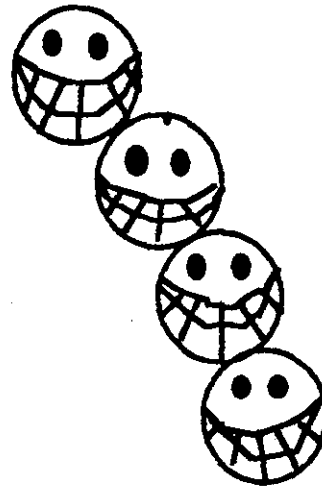


MSC

These Are Cocci.



These Are Cocci on Drugs.

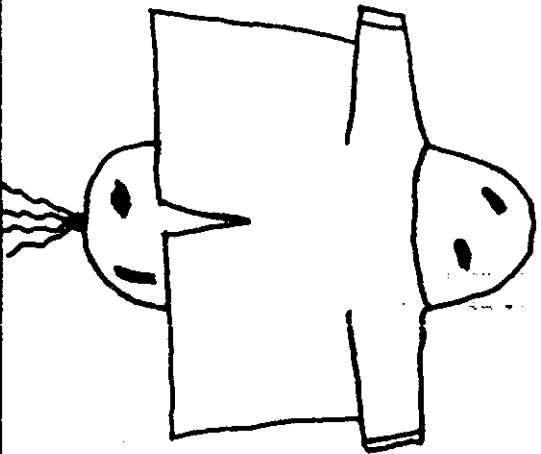
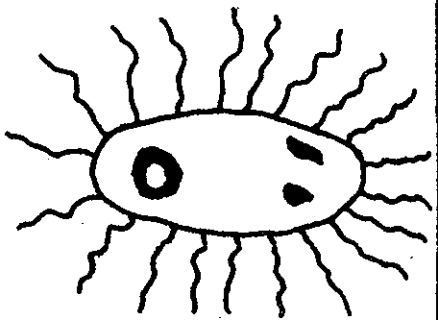


Don't Let This Happen To Your Cocci.

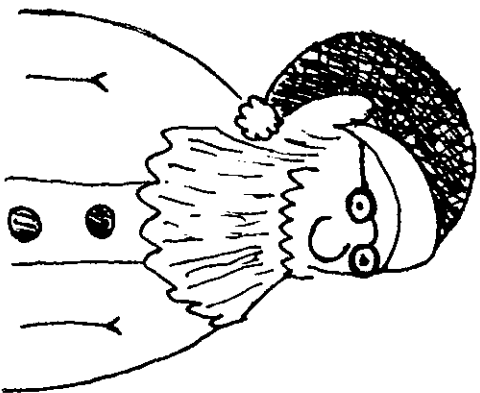
MSC



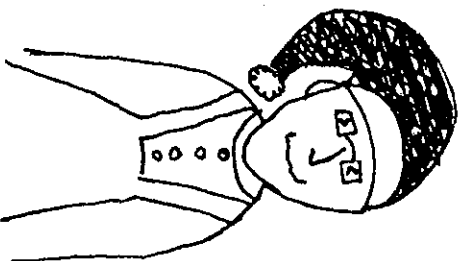
PORNOBACTERIUM SP.



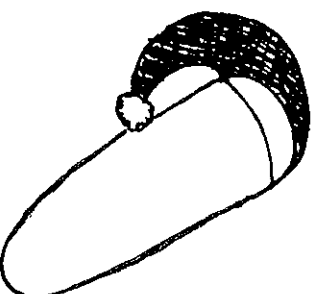
MSC



SANTA CLAUS



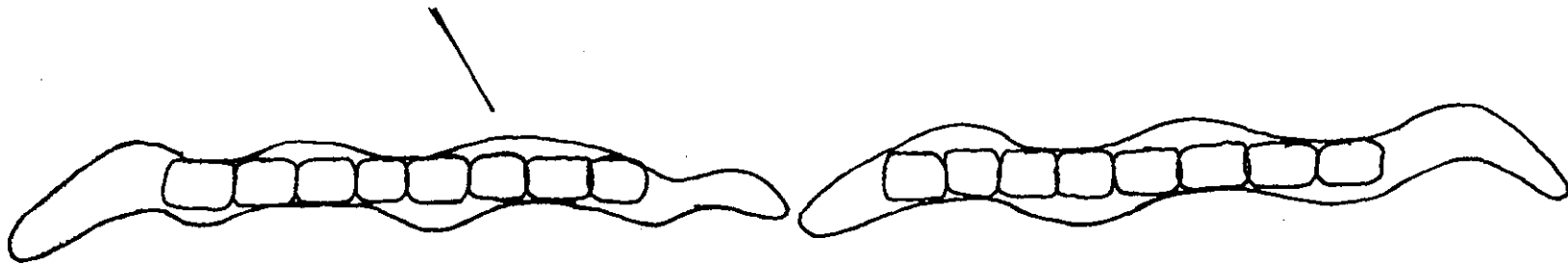
MRS. CLAUS



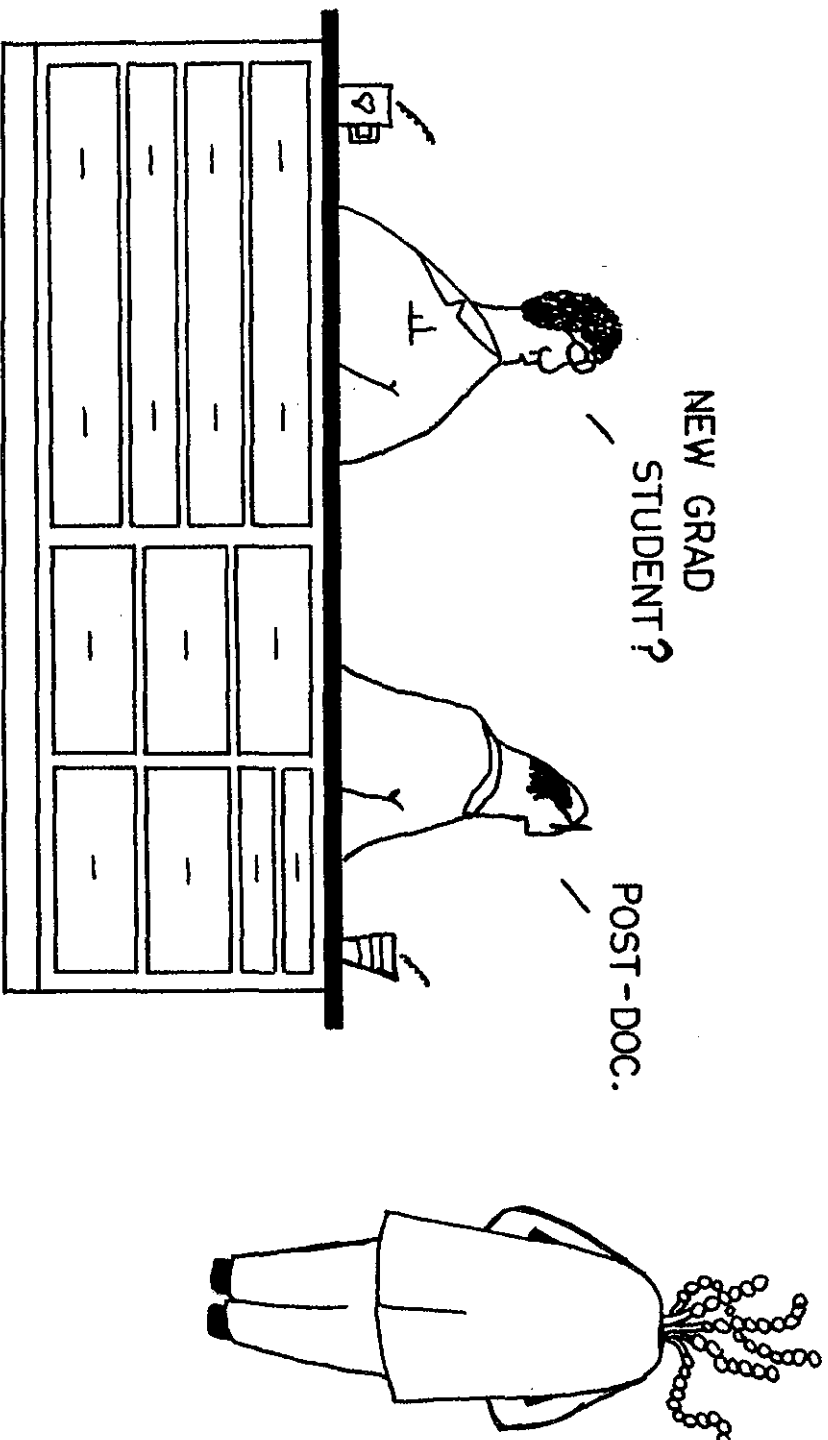
CLOSTRIDIUM

# LOVE AMONG THE MAGNETOTACTIC BACTERIA

I'M SORRY LARRY.  
OUR POLARITIES DON'T MATCH.  
YOU REPEL ME.



# FUNGUS AMONG US



# ANARCHY IN A SLIME MOLD

I'm not going and  
you can't make me.

Idiots! Follow me!

I'm going this way.

Let's go this way.

No! This way

This way.

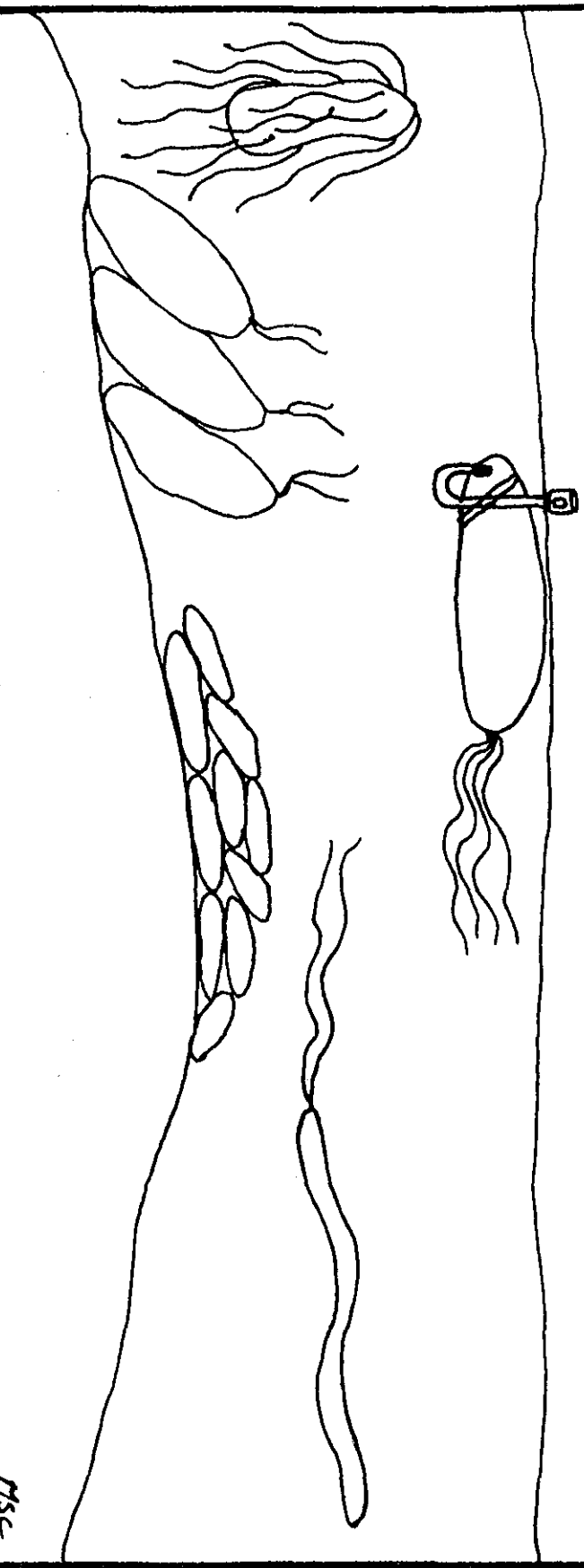
The food is this way.

Who made you leader?

MSC

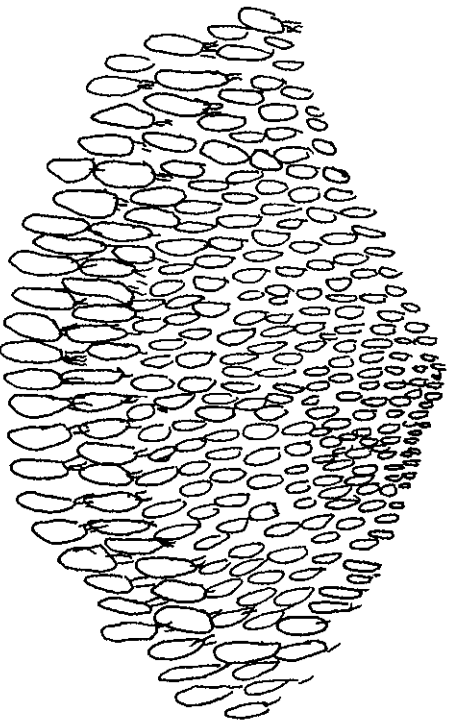
*About Microbial  
Physiology*

# OBLIGATE AEROBE

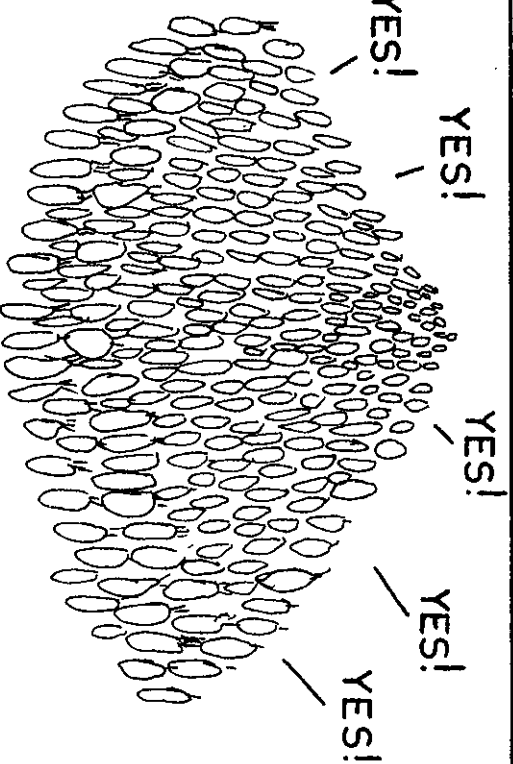


MSc

# WHY BACTERIA DON'T BOND



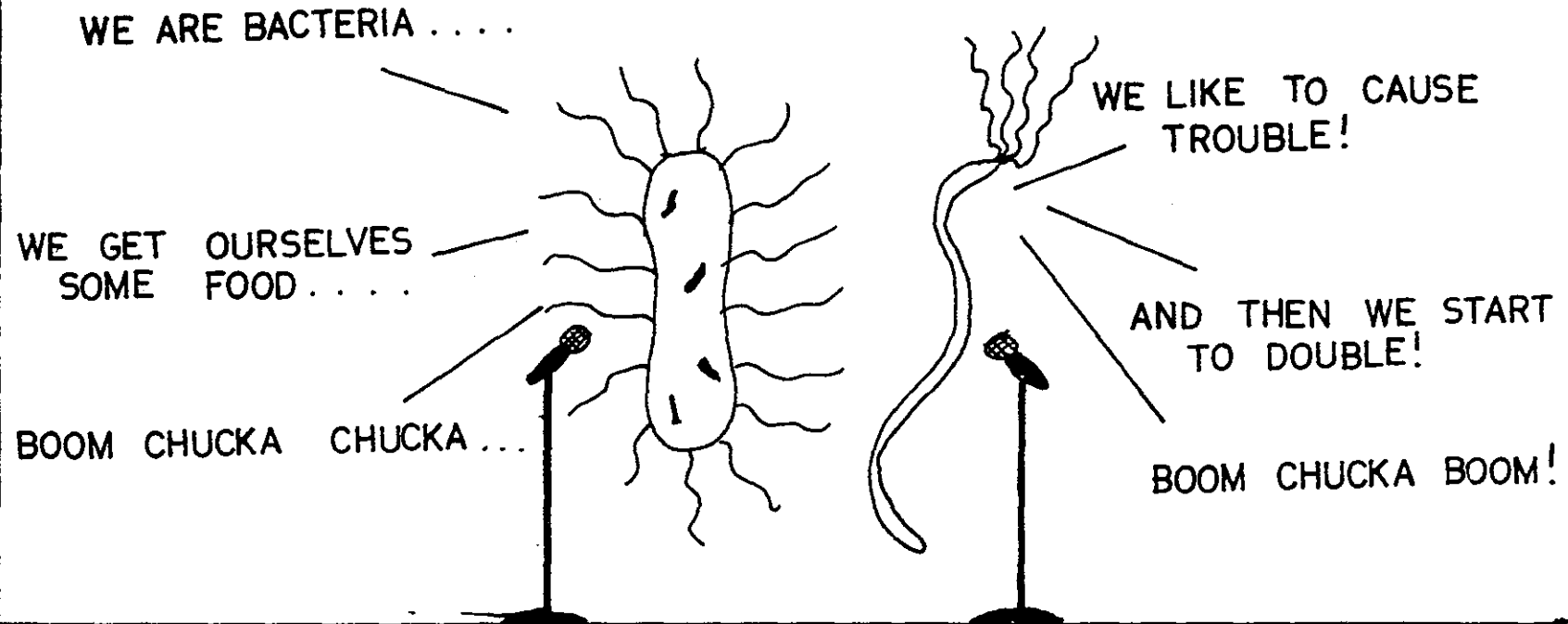
MOM?



MSC



# WHY MICROBES CAN'T RAP



## GOLDILOCKS AND THE THREE BACILLI

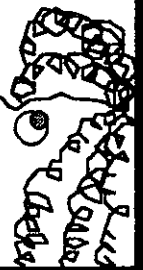
Someone's been eating my butyrate!

And someone's been eating my butyrate!

And someone's been eating my butyrate!

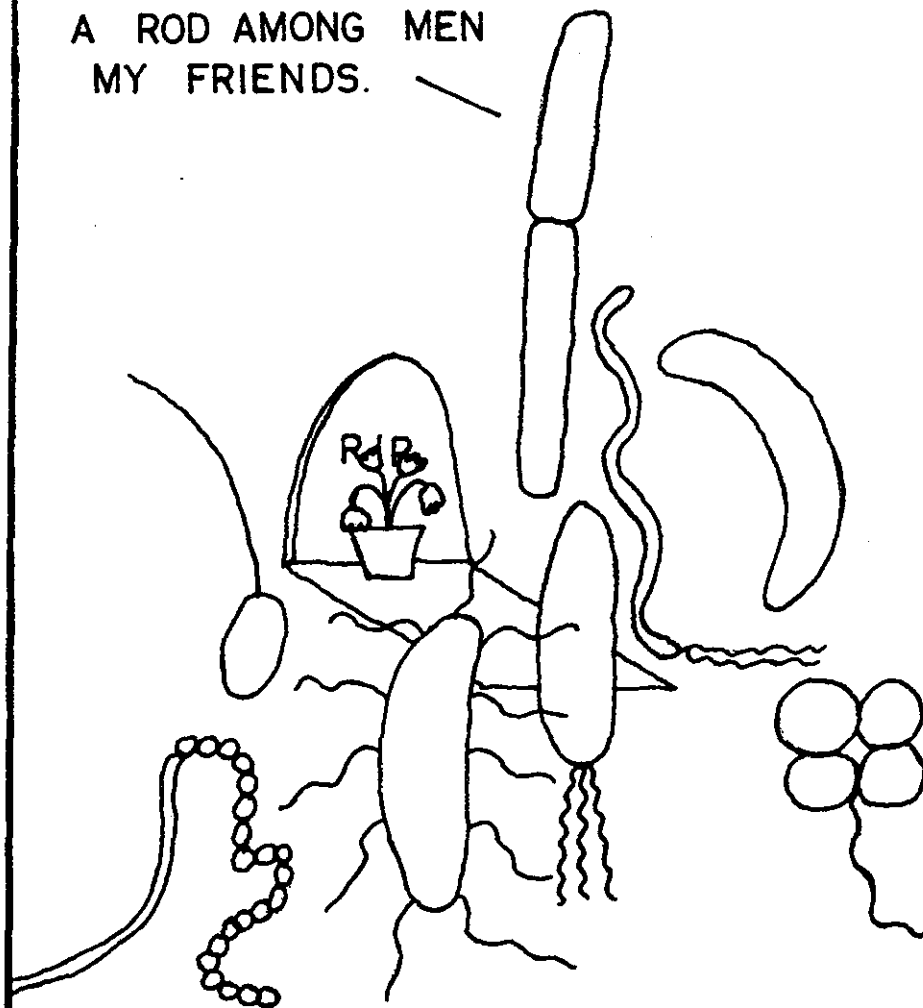
And it looks like she's dead.

MSC



NOTHING IS CERTAIN IN MICROBIOLOGY  
EXCEPT DEATH AND TAXIS

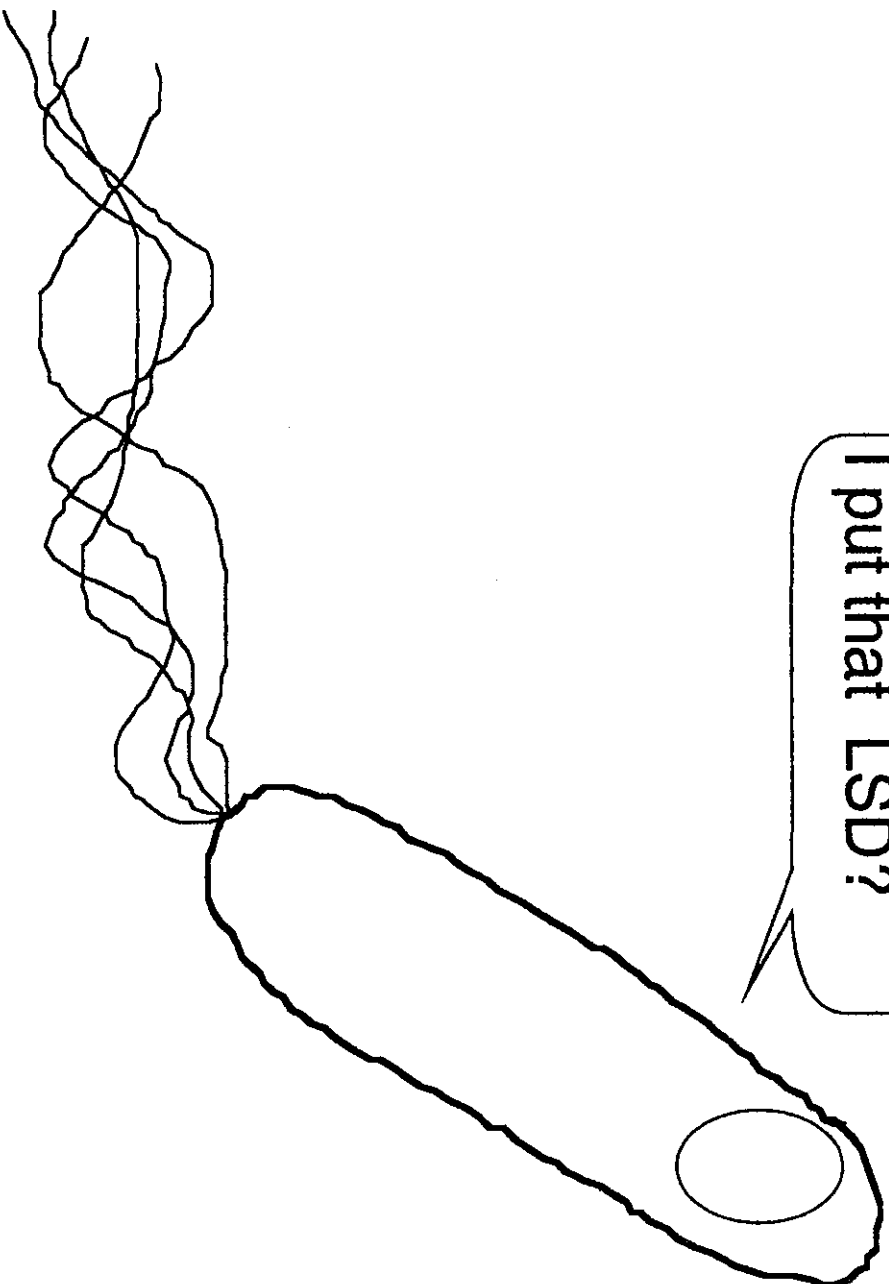
A ROD AMONG MEN  
MY FRIENDS.



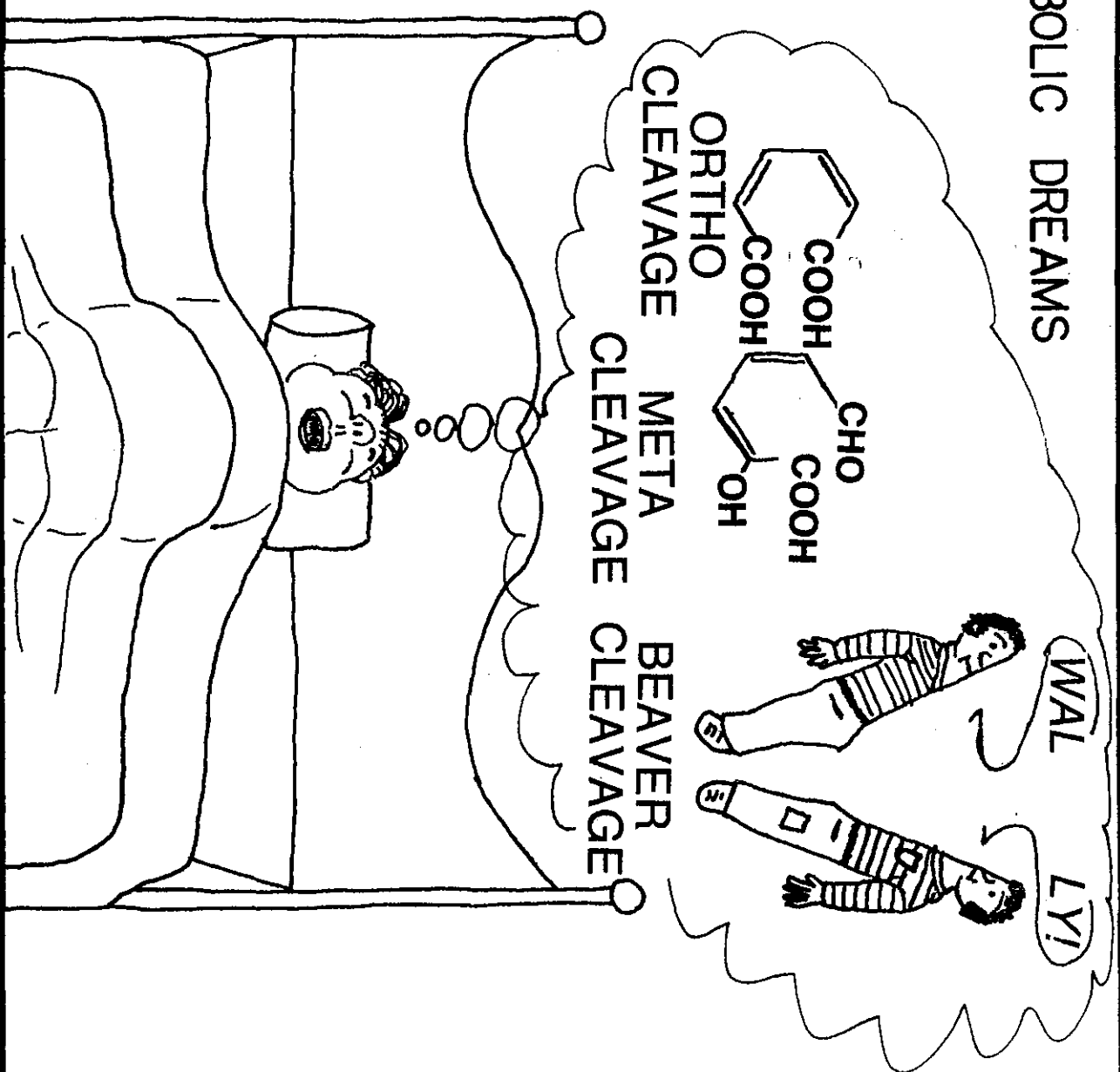
HEY, IS THAT FOOD  
OVER THERE?  
LET'S GO EAT!

# ACIDOPHYLLIC BACTERIA

Oh Man! Where did  
I put that LSD?



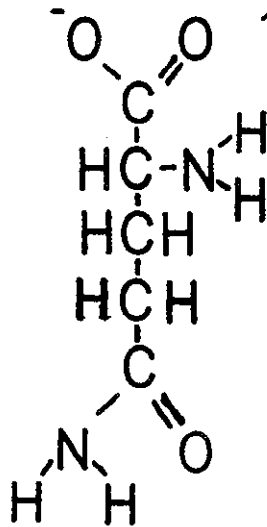
# COMETABOLIC DREAMS



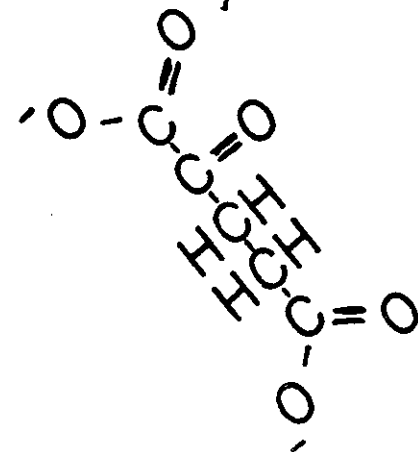
# ANNALS OF IMMOBILIZATION

BY SAMUEL BECKETT

BUT WHY CAN'T  
WE DO ANYTHING?

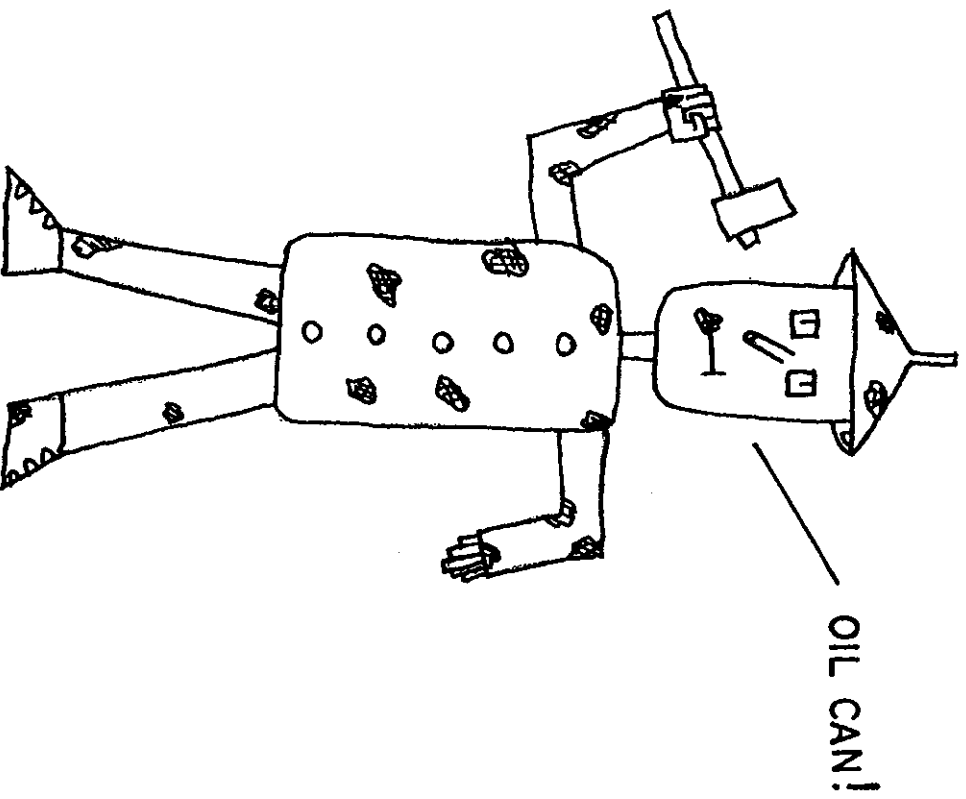


BECAUSE WE'RE  
WAITING FOR GOGAT.

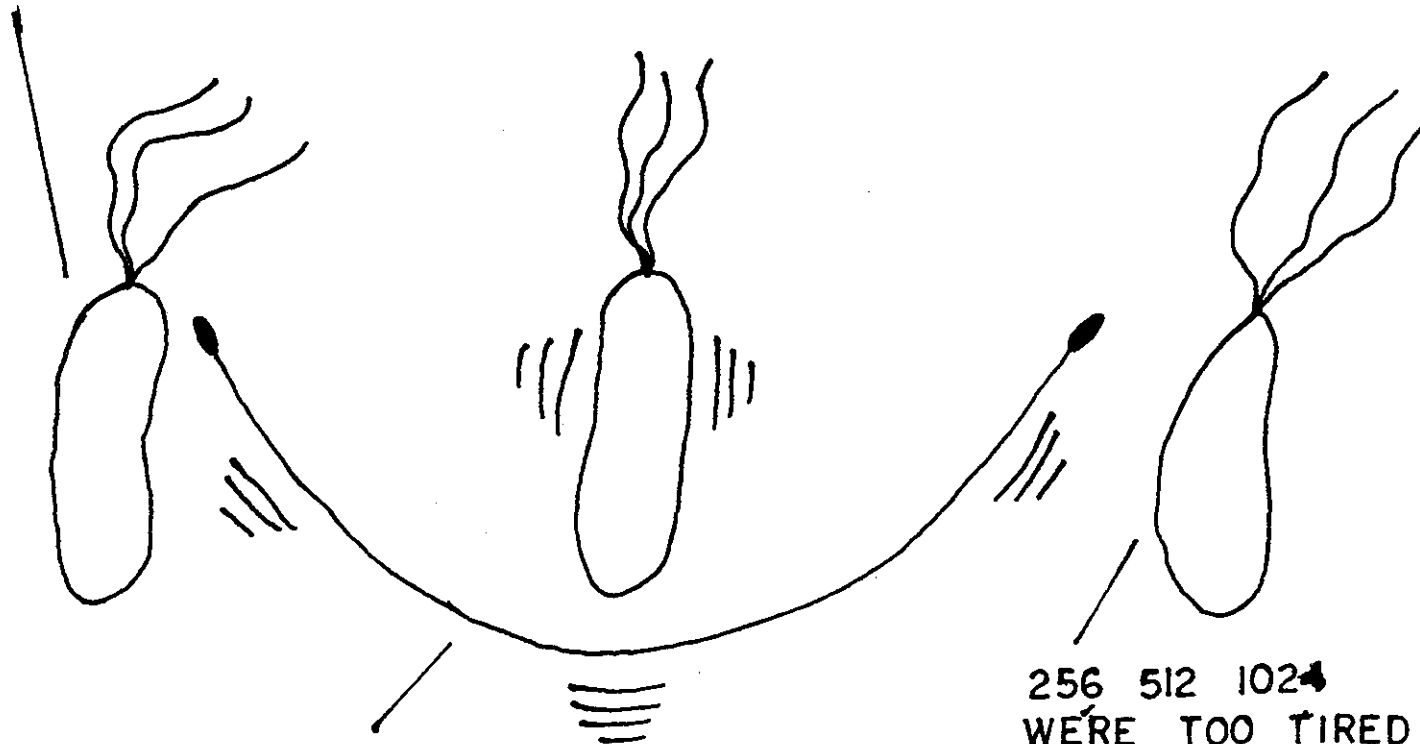


# ANNALS OF OXIDATION

THE TIN MAN  
MEETS THIOBACILLUS FERROOXIDANS



1 2 4 8  
LET'S BEGIN  
TO REPLICATE.



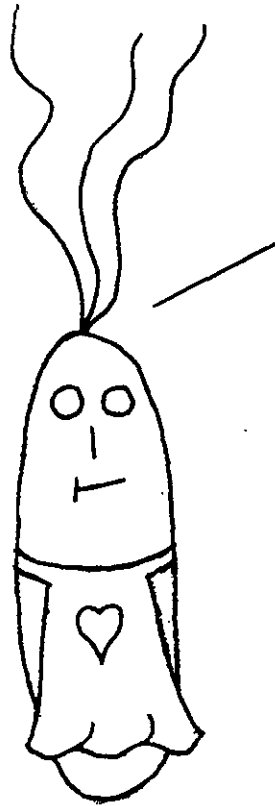
16 32 64 128  
HURRY UP WE  
CAN'T BE LATE.

256 512 1024  
WE'RE TOO TIRED  
TO COUNT NO MORE.

MSC



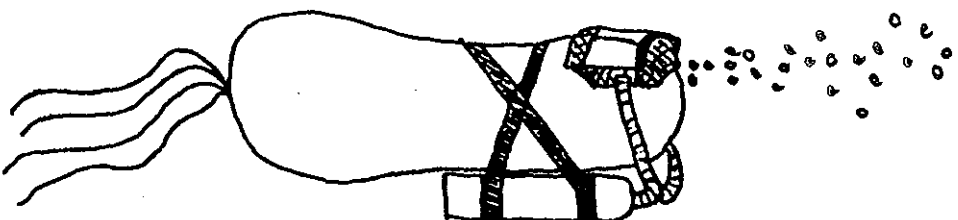
# ANNALS OF RESPIRATION



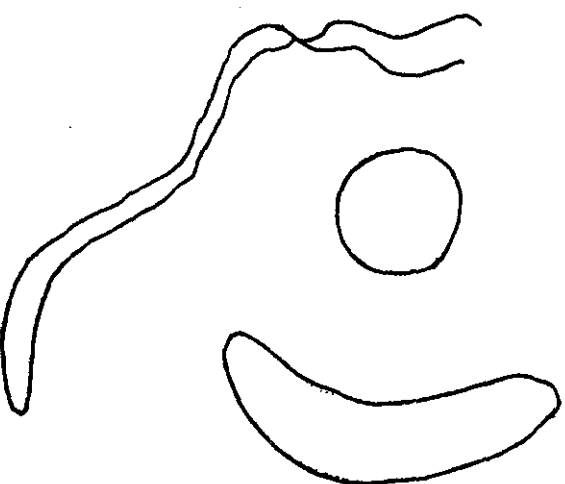
IT WON'T DO YOU ANY GOOD  
TO HOLD YOUR BREATH, DEAR.  
WE BOTH KNOW YOU'RE AN  
OBLIGATE AEROBE.



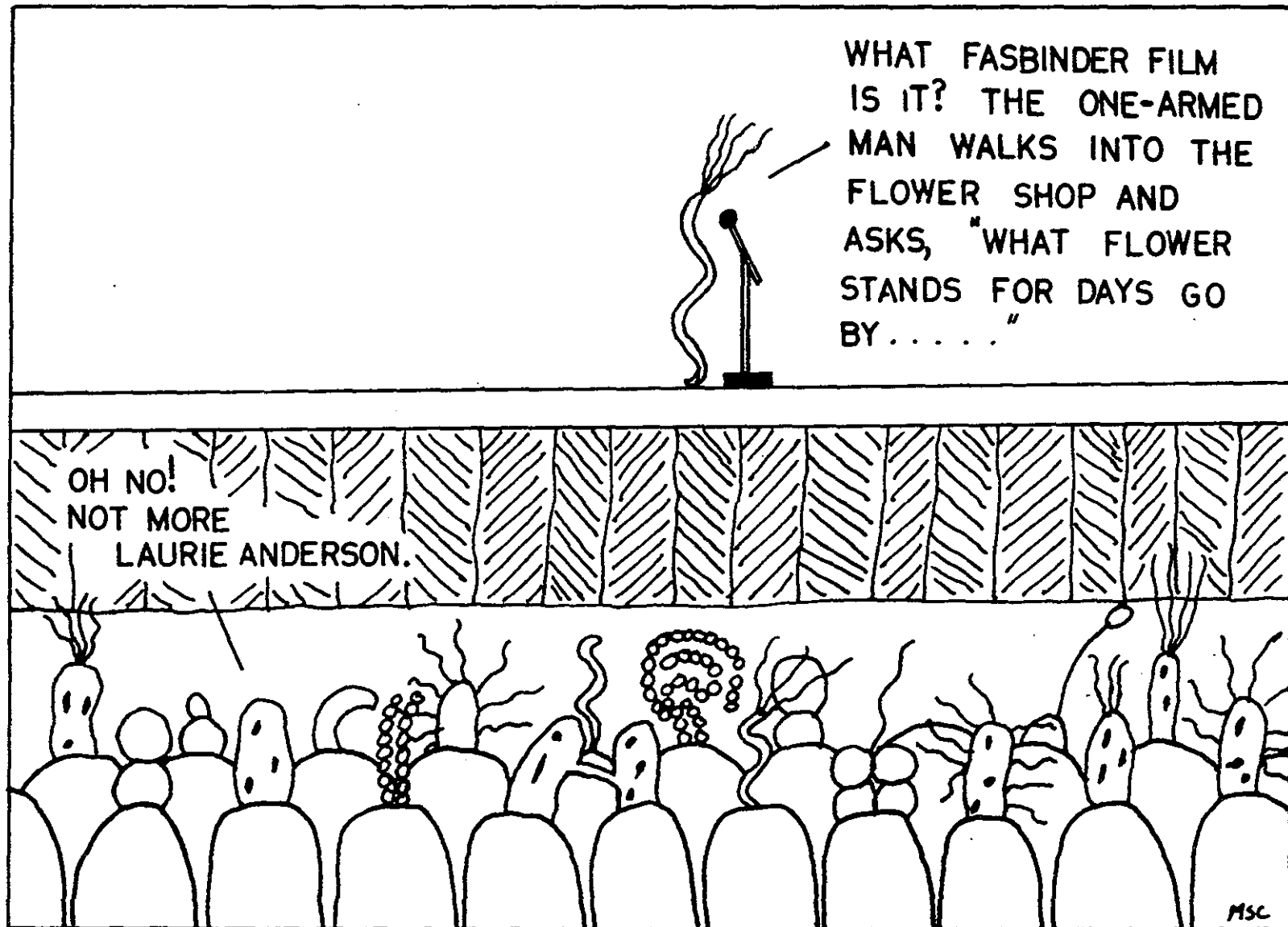
# ANNALS OF RESPIRATION



HE CLAIMS HE'S A  
FACULTATIVE ANAEROBE  
BUT I'M NOT SO SURE.

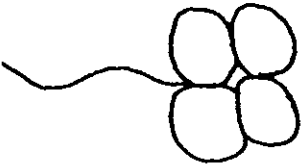


# BACTERIAL CULTURE

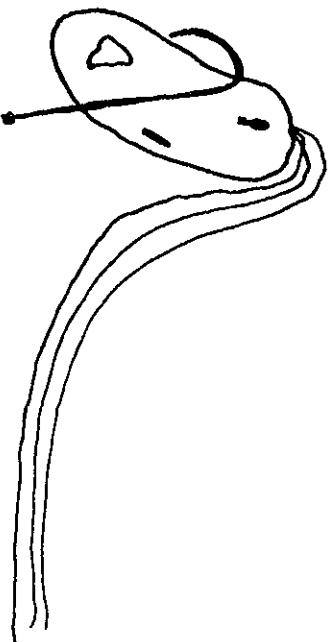


# THE CLONAL LIFE

ABOUT THREE  
BILLION YEARS.

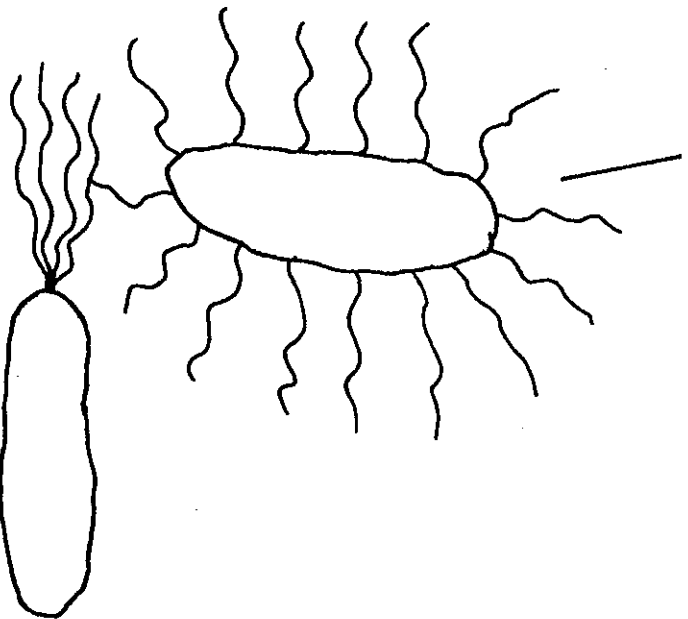


SAY POPS,  
HOW OLD ARE YOU?

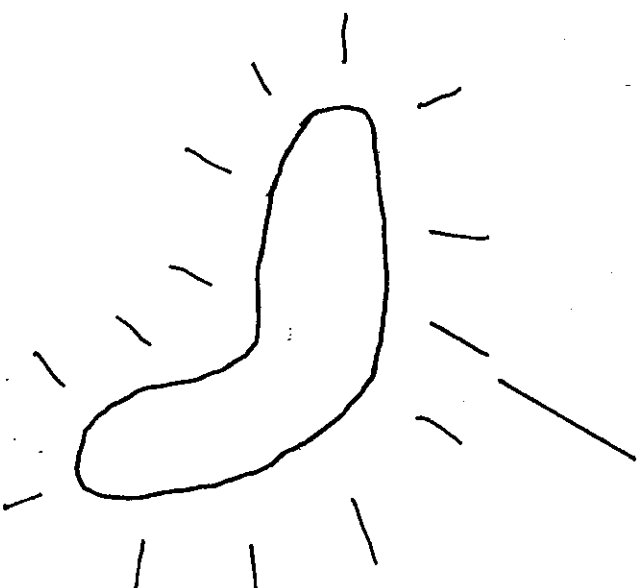


# THE SMUGNESS OF LUMINESCENT BACTERIA

I CAN'T TAKE THIS  
ANYMORE.

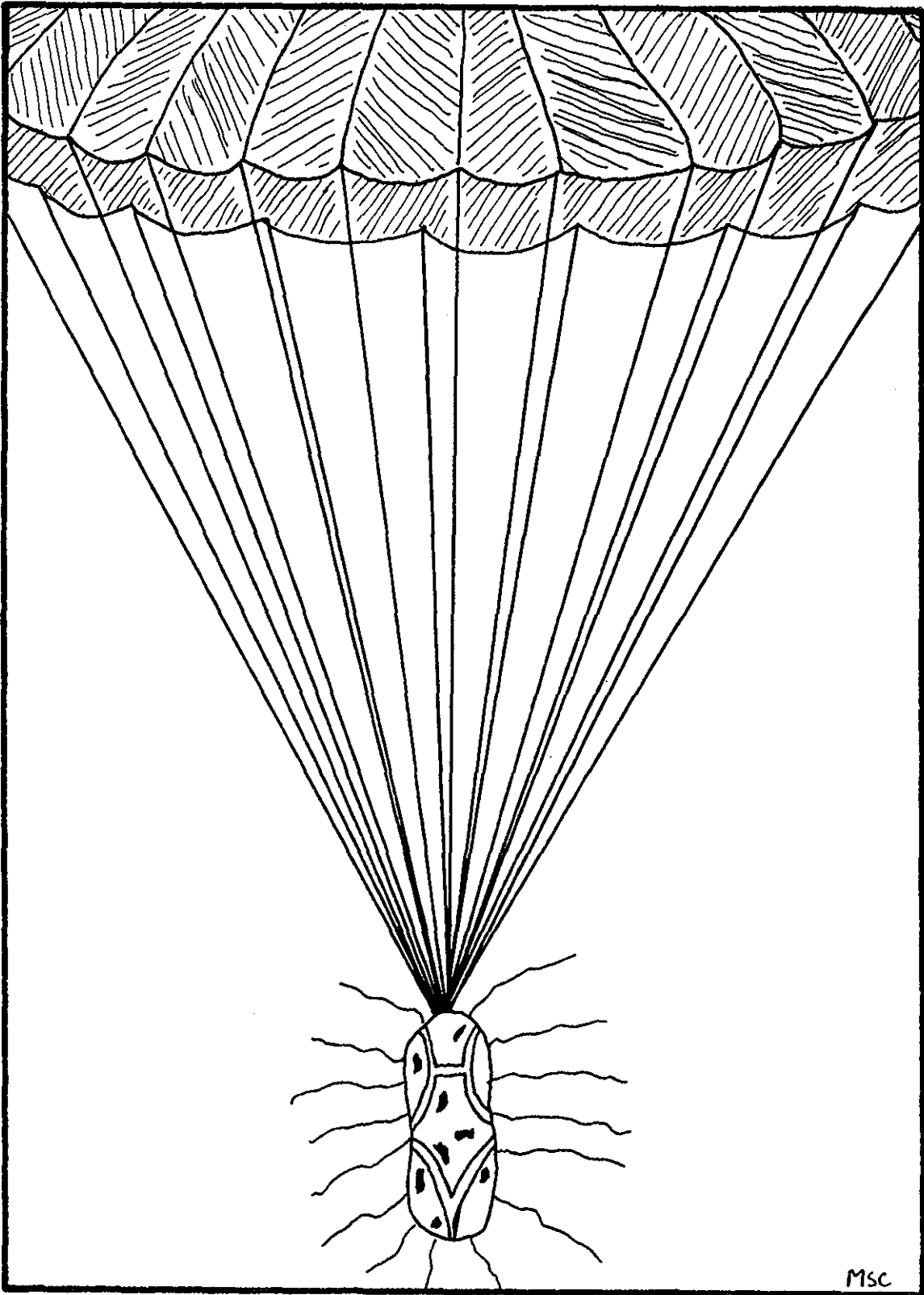


LUX ESTO!

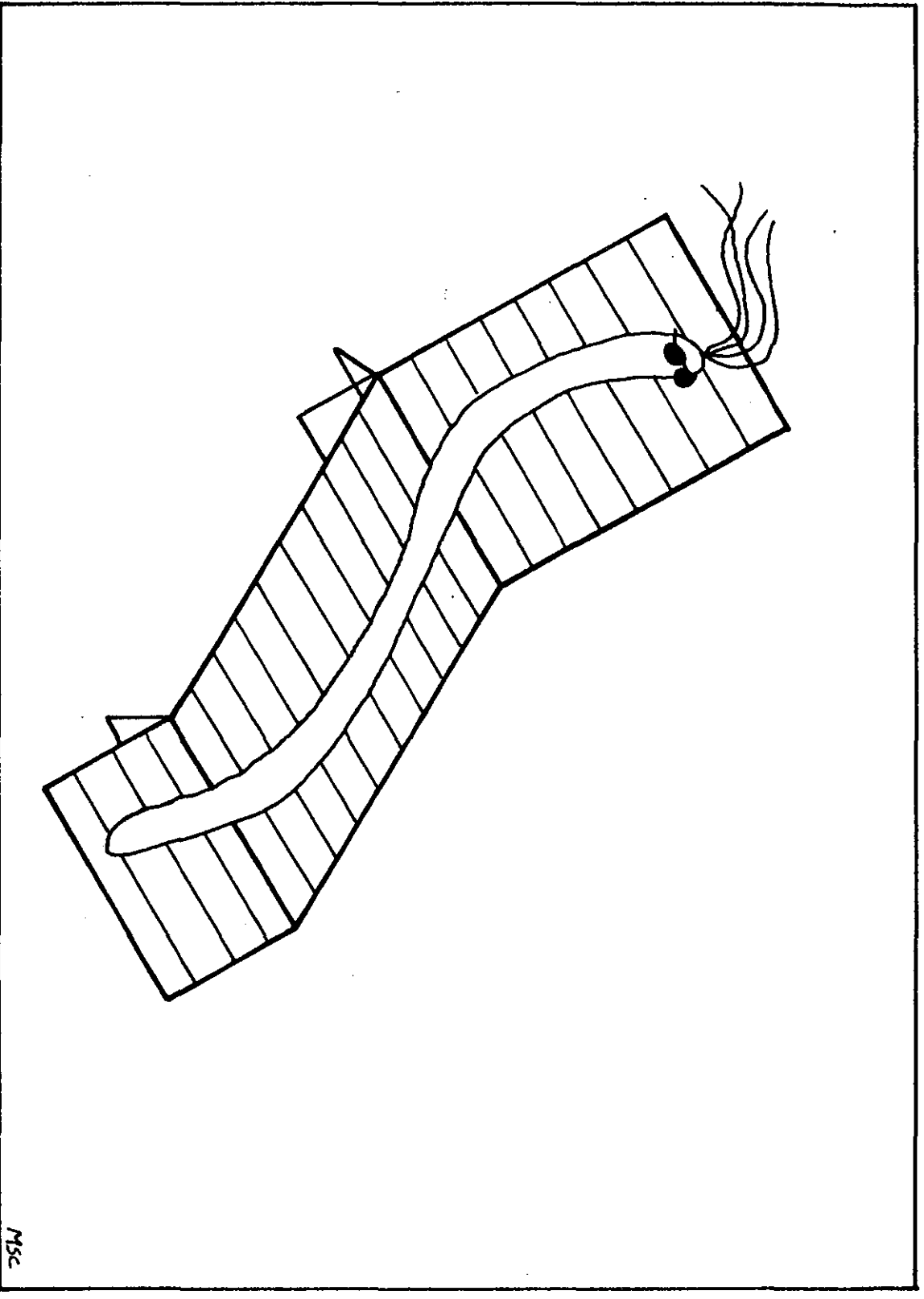


Misc

# AEROTAXIS



# PHOTOTAXIS

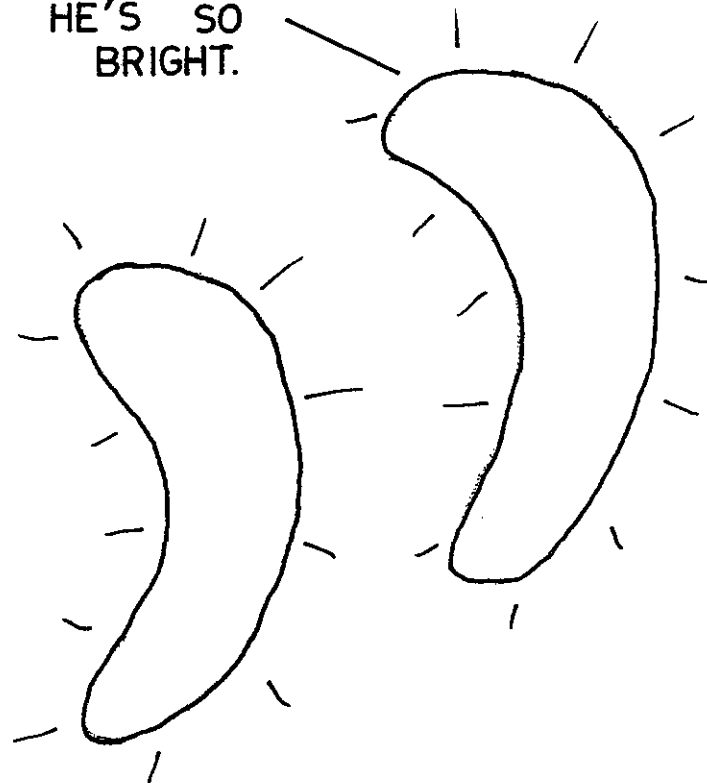
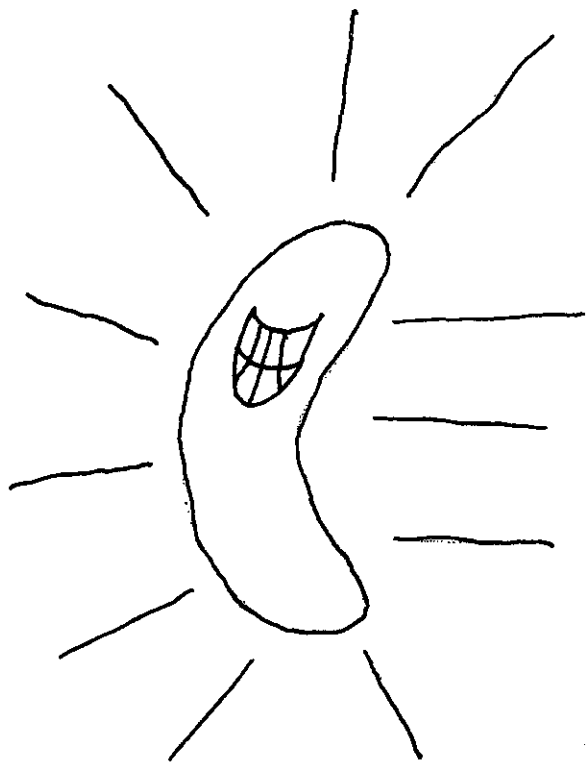


MSC



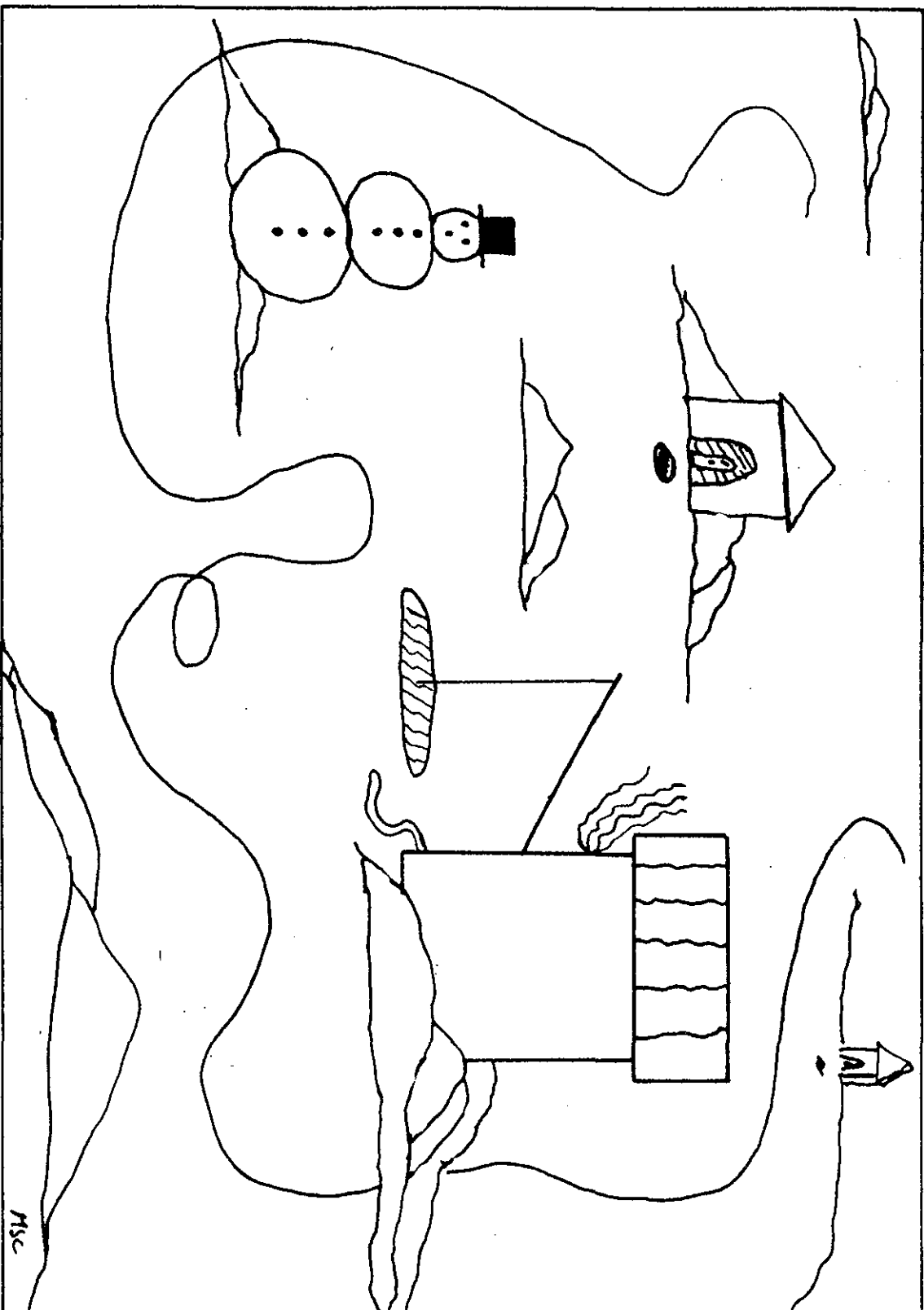
## MORE TALES OF LUMINESCENT BACTERIA

THEY CALL HIM  
SONNY BECAUSE  
HE'S SO  
BRIGHT.



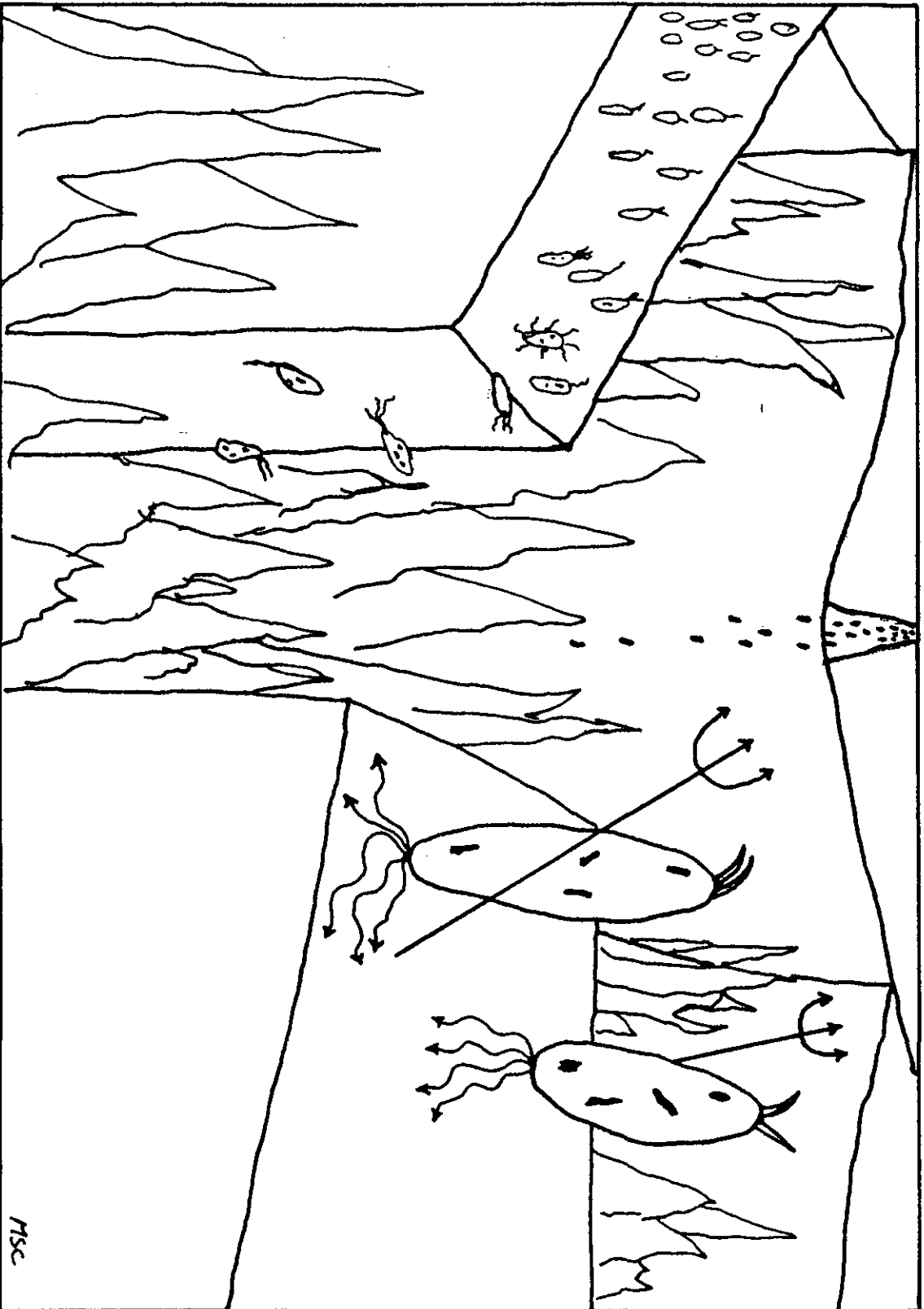
MSc

# PSYCHROPHILES



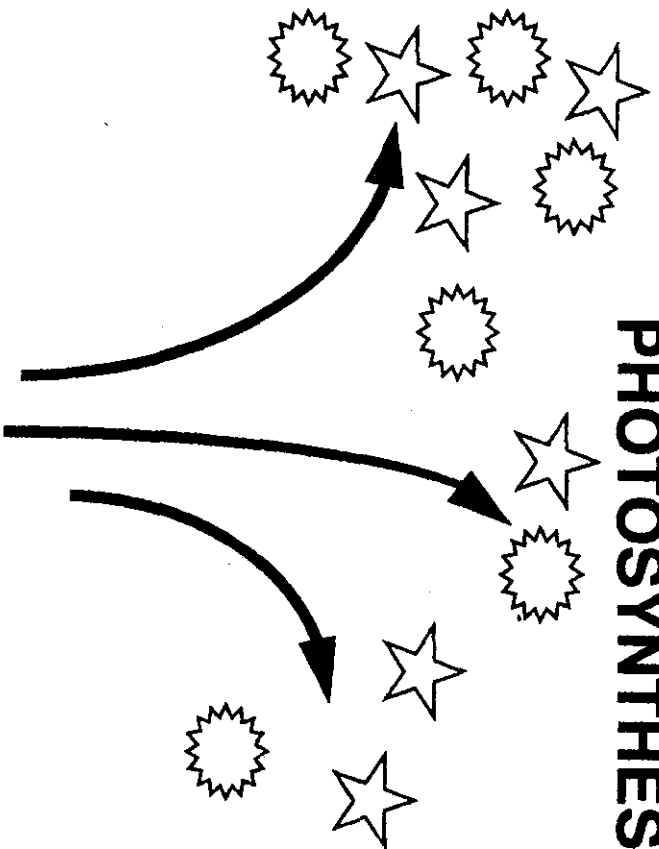
Misc

# THERMOPHILES



MSC

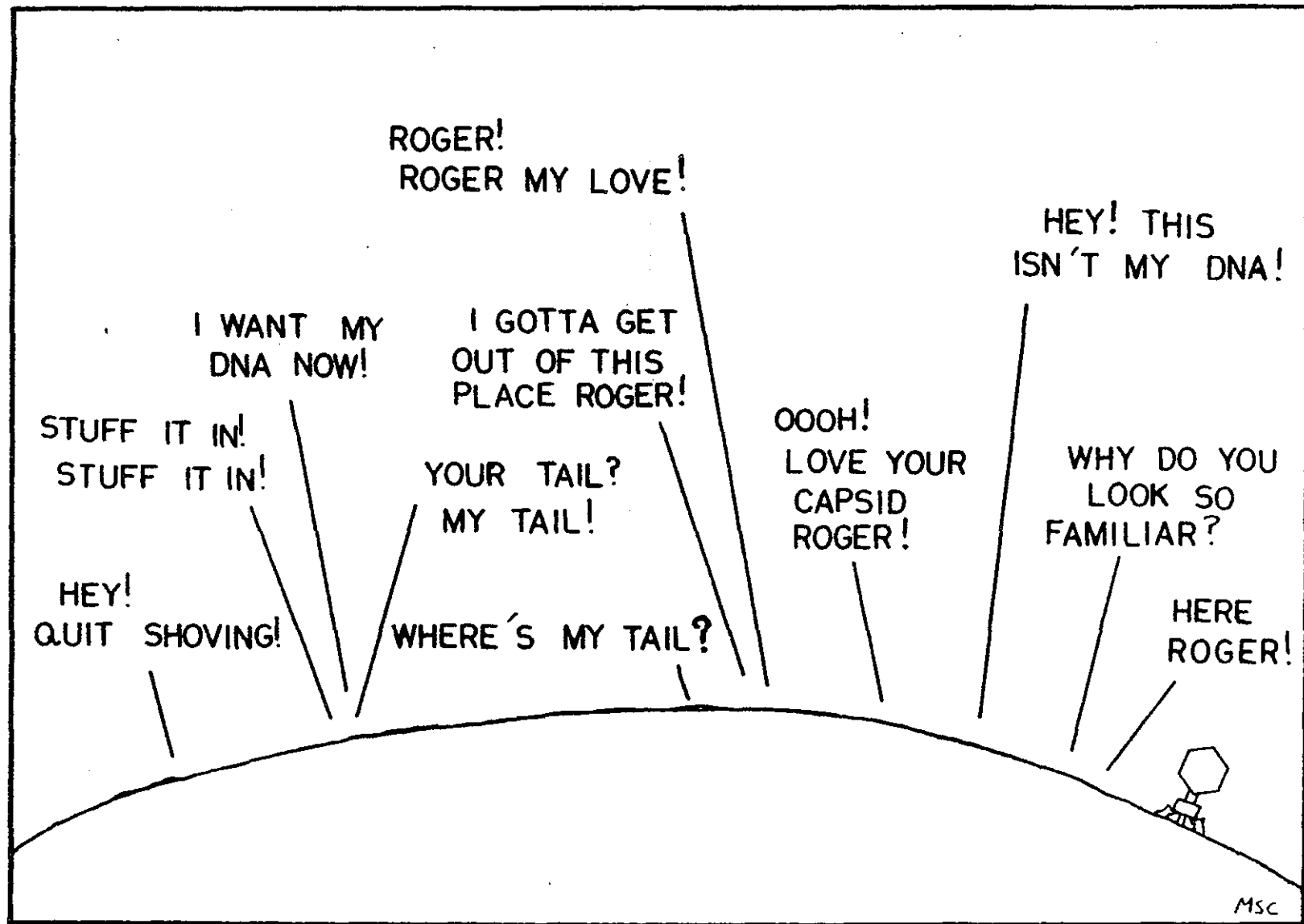
# PHOTOSYNTHESIS GONE AWRY



Oh man!  
This is new!

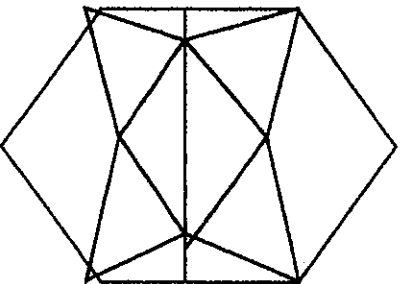
# *About Virology*

# WHAT LYTIC INFECTIONS ARE REALLY LIKE



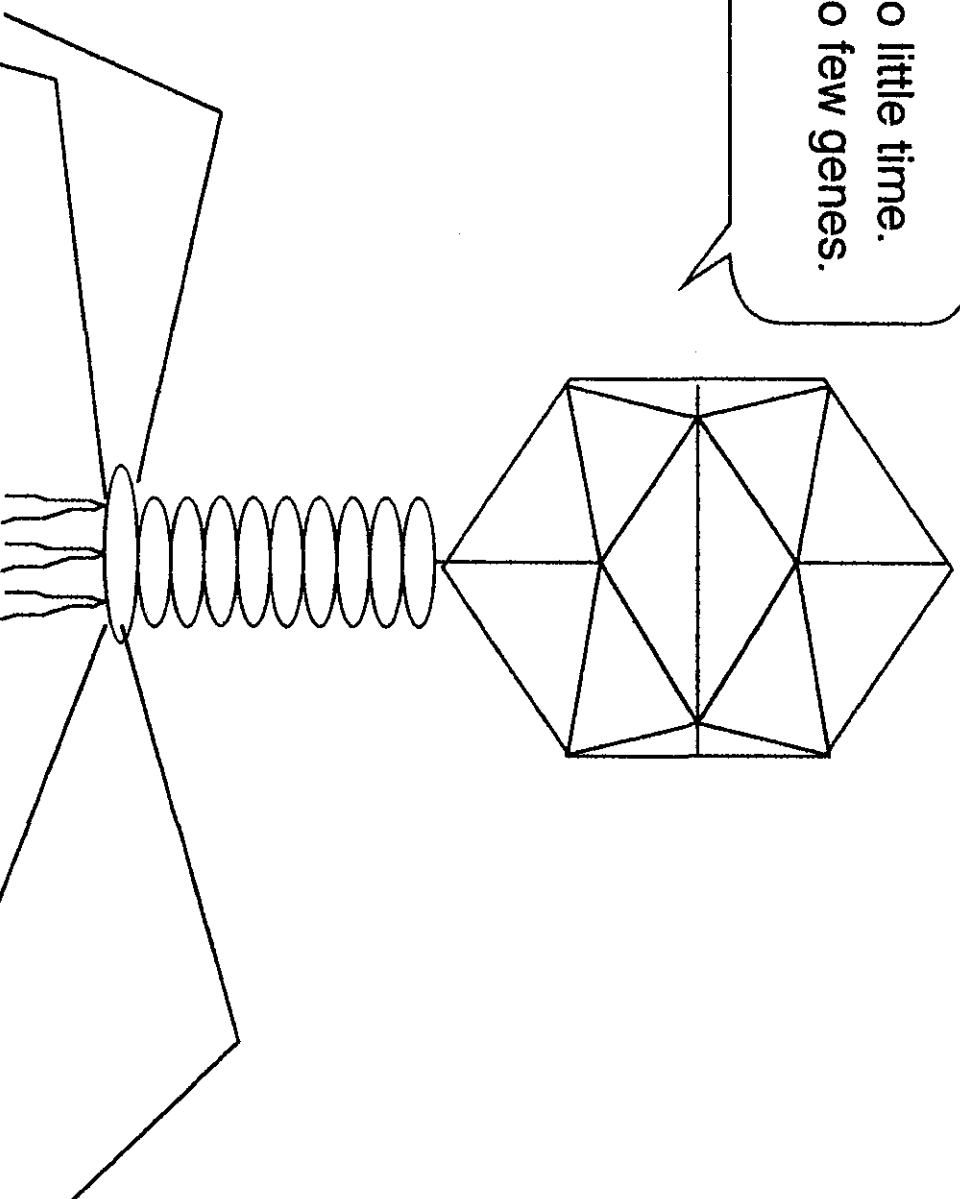
# CONFUSED RETROVIRUSES

I can't remember. Was it  
RNA → DNA → RNA → DNA → protein or  
DNA → RNA → DNA → protein?



# ANNALS OF VIROLOGY

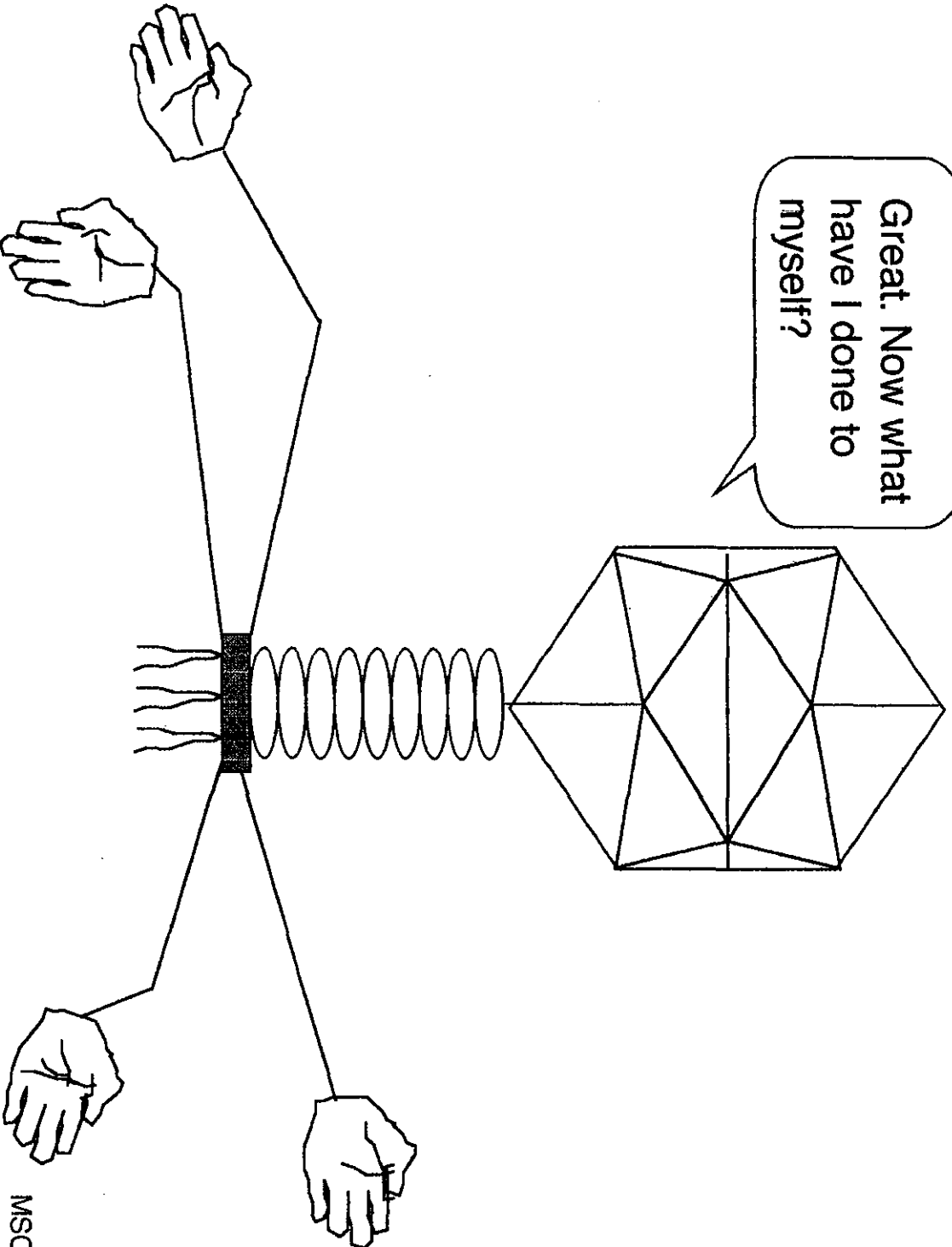
So little time.  
So few genes.





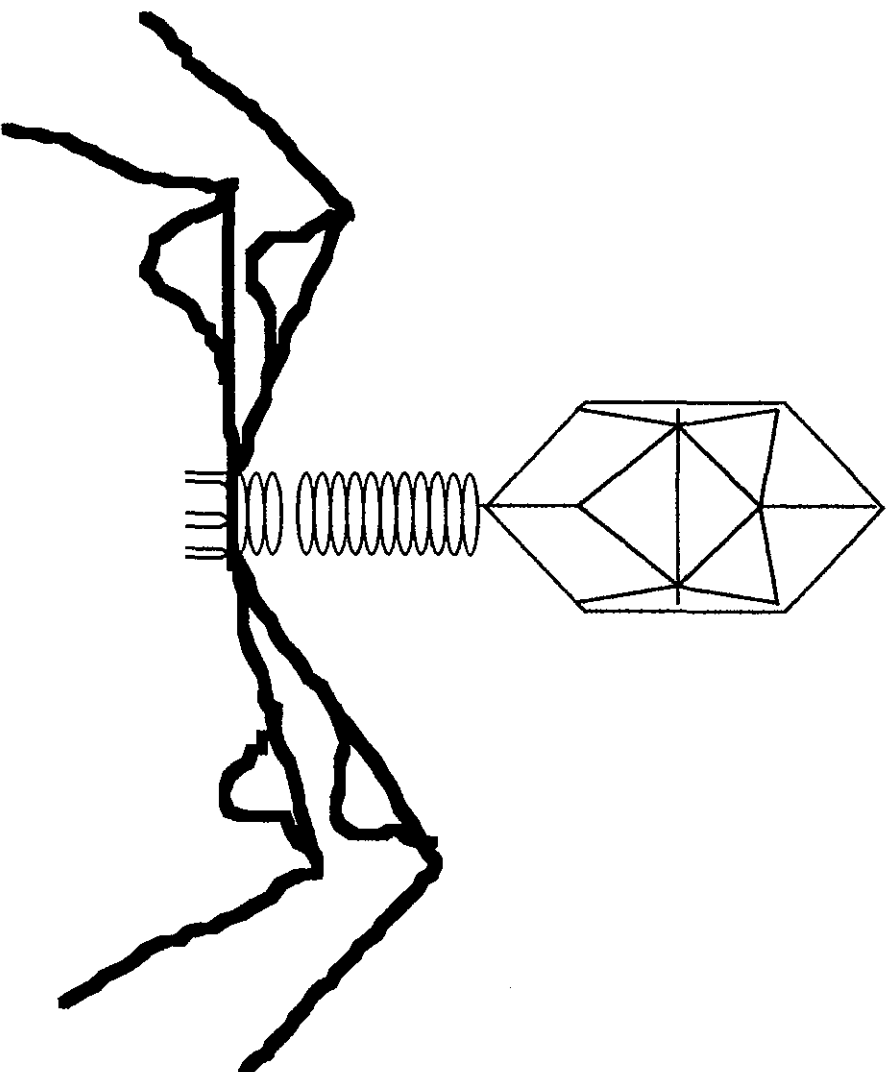
# TRANSDUCTION GONE AWRY

Great. Now what  
have I done to  
myself?



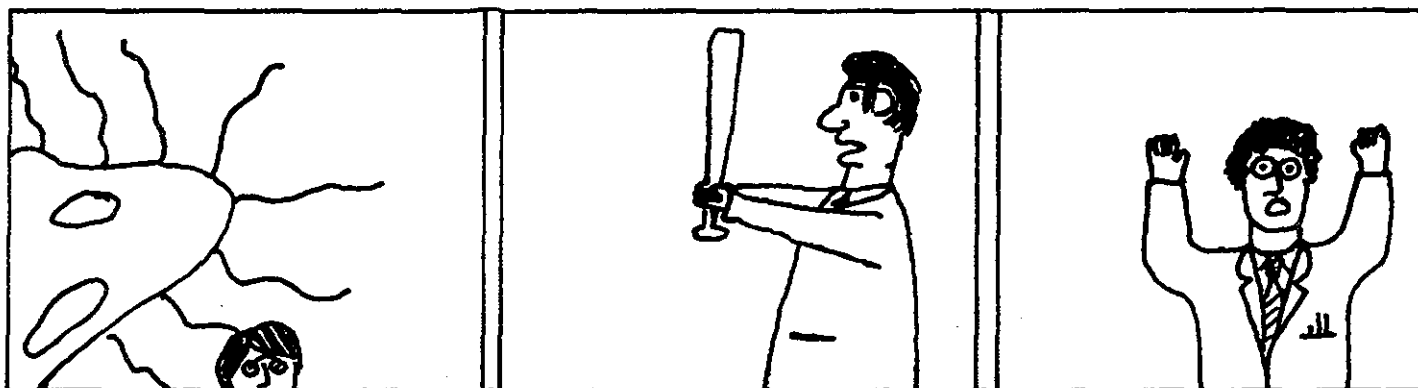
MSC

# VIRUSES ON STEROIDS

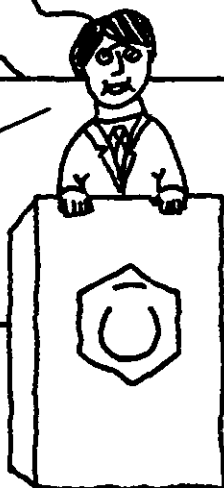


*About Molecular*  
*Biology*

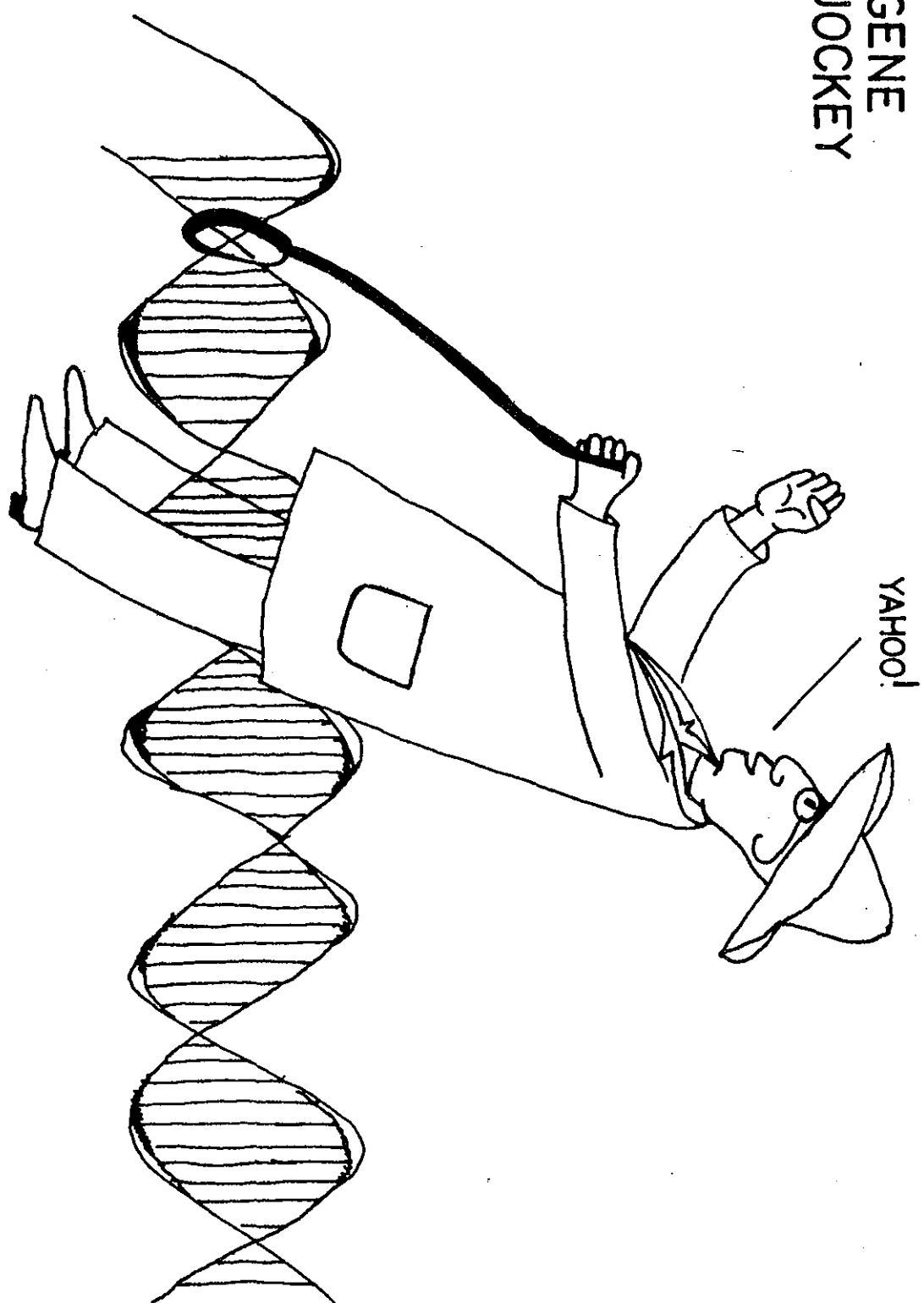
# TROUBLE IN THE GENETICS LAB



I ASSURE YOU  
LADIES AND  
GENTLEMEN,  
OUR RESEARCH  
IS HARMLESS.

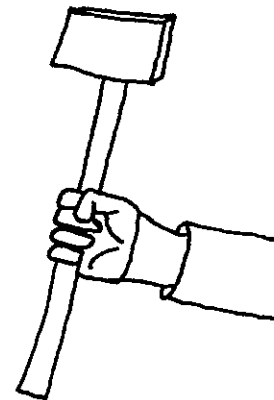


# GENE JOCKEY



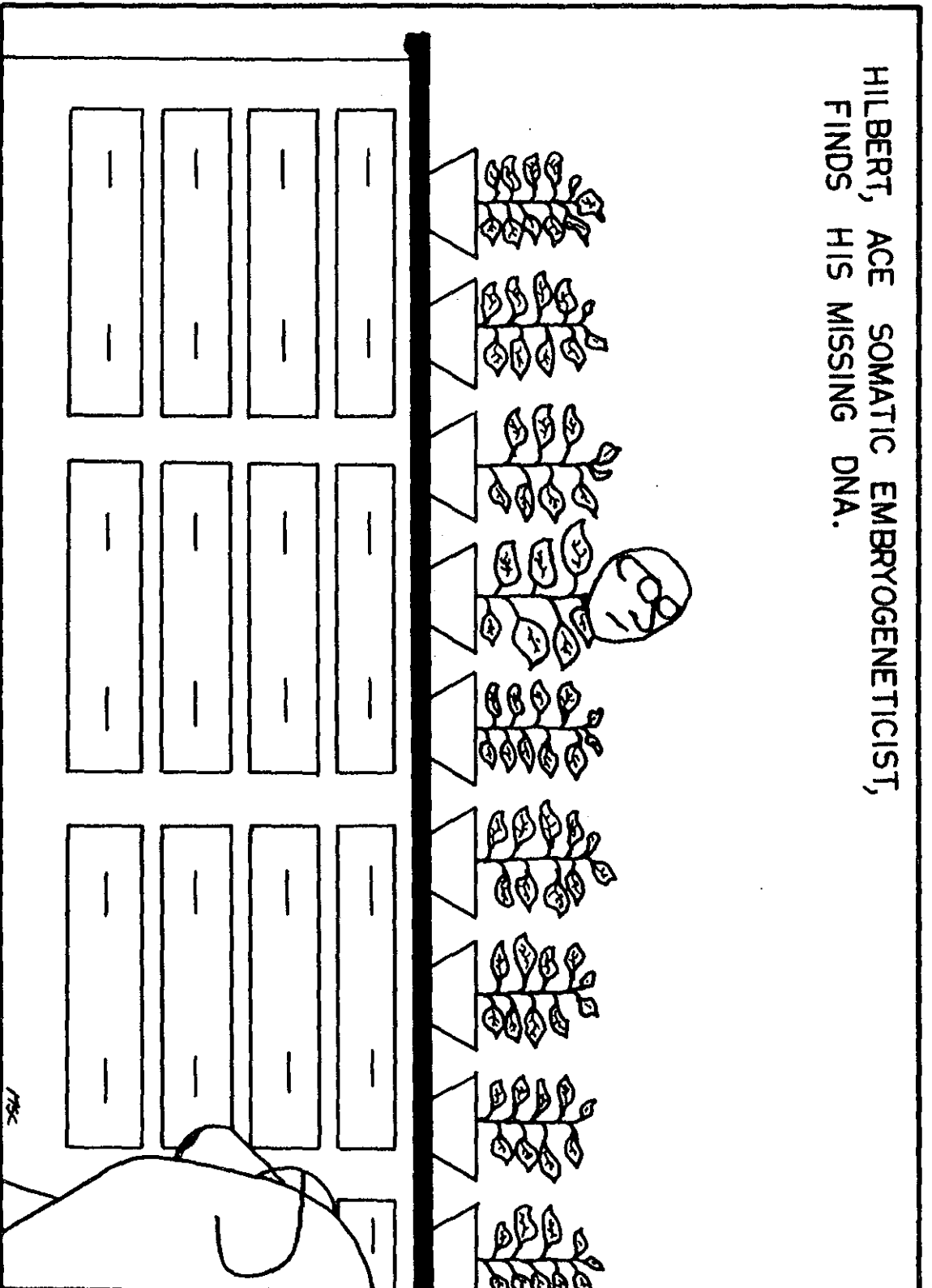
EARLY MOLECULAR BIOLOGISTS  
LACKED A SENSE OF SCALE

*I SAID BRING A  
SCALPEL YOU  
BLOCKHEAD!*

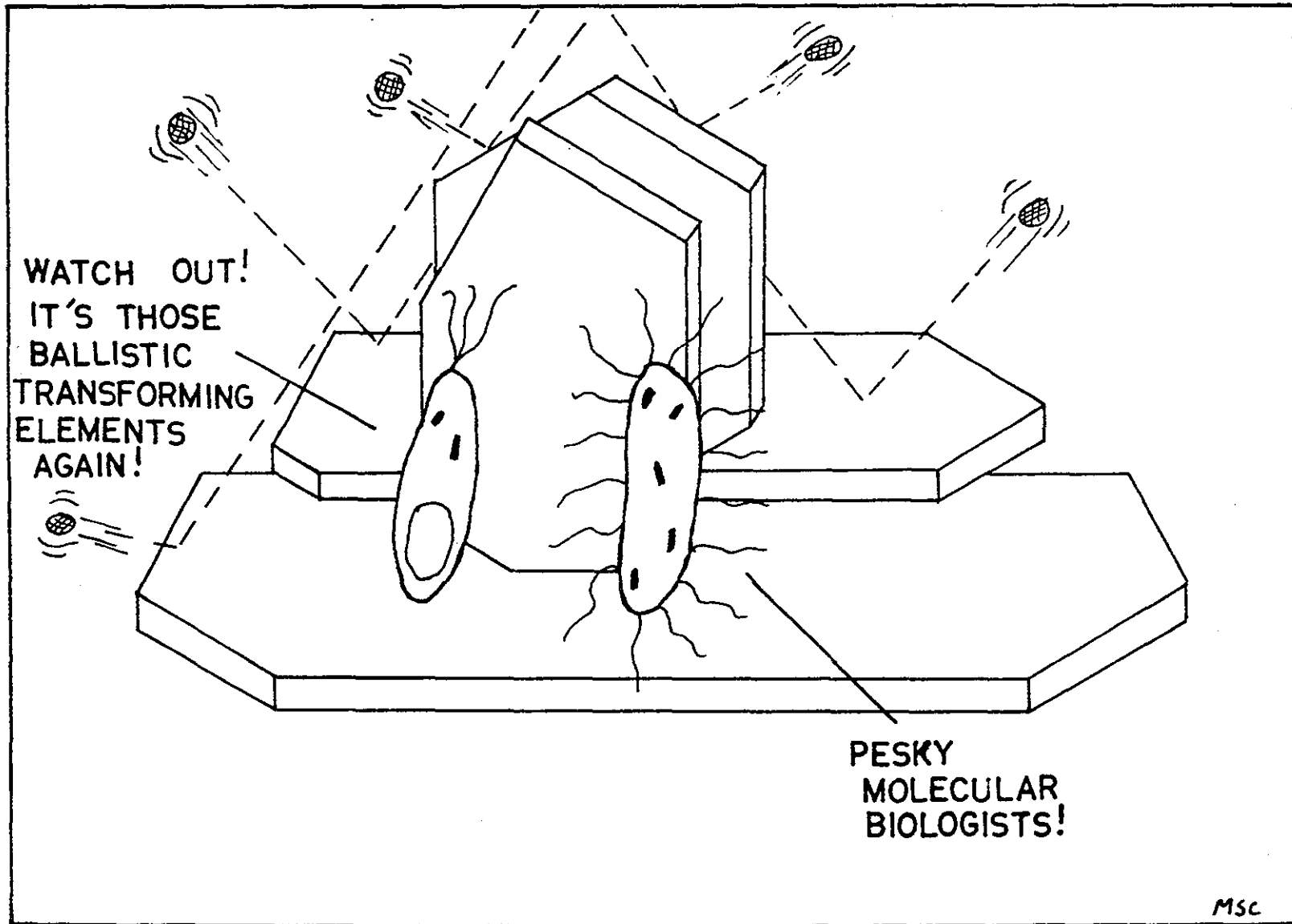


MSC

HILBERT, ACE SOMATIC EMBRYOGENETICIST,  
FINDS HIS MISSING DNA.

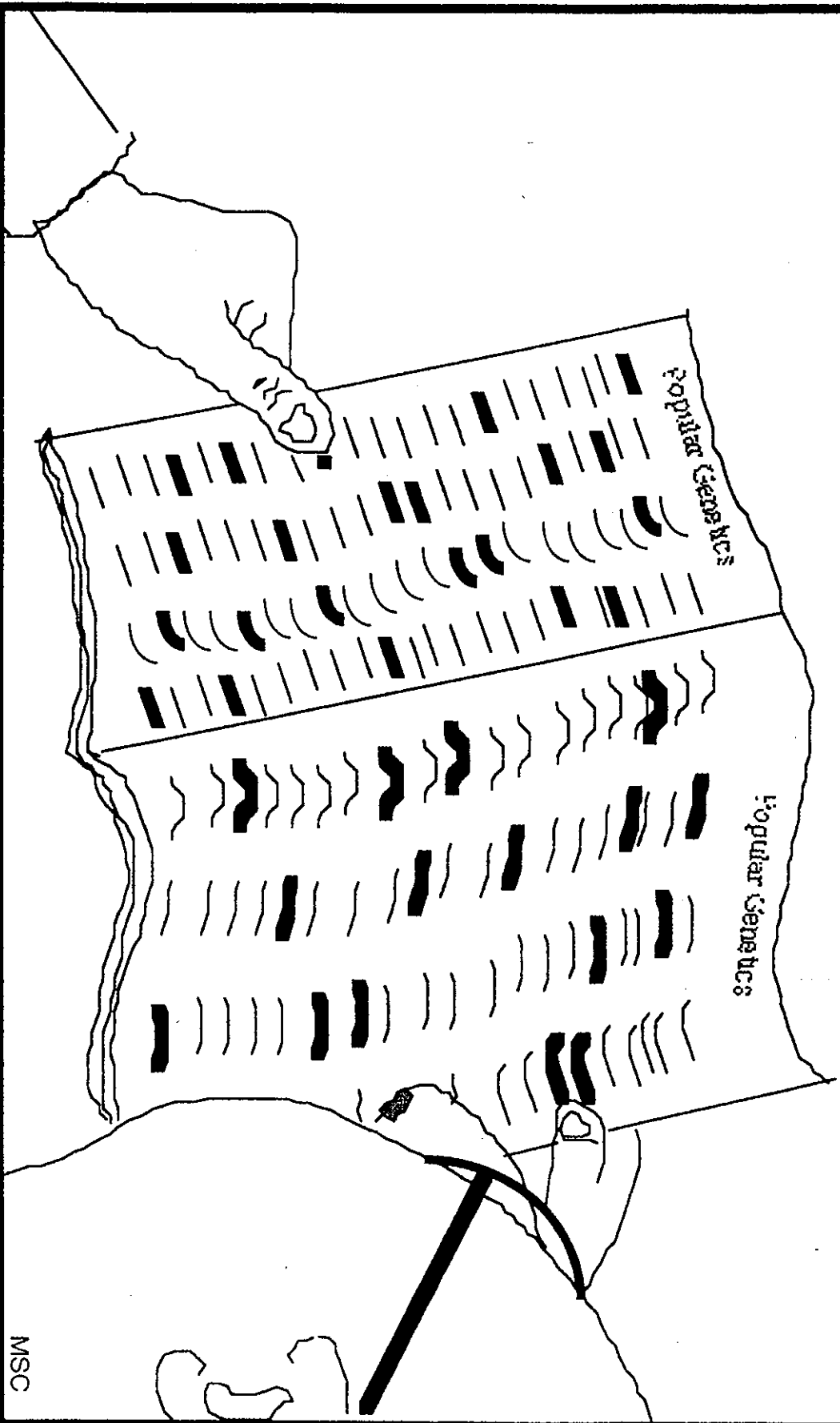


# HAZARDS OF MICROBIAL LIFE

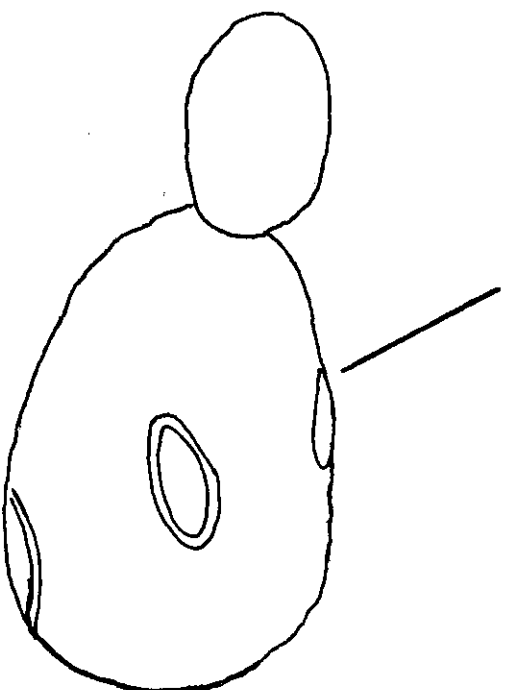
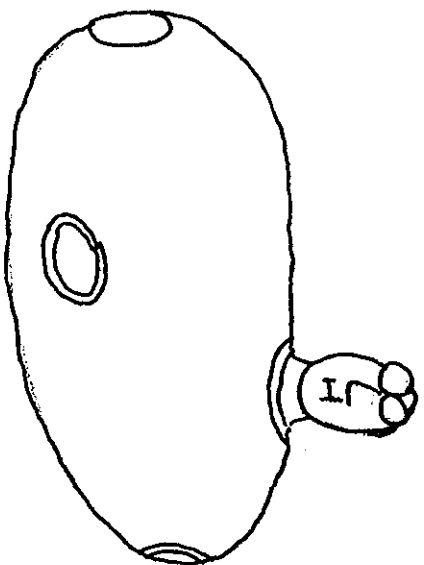




# HOW MOLECULAR BIOLOGISTS RELAX



WELL BERT, I WARNED YOU NOT  
TO HANG AROUND THE HUMAN  
GENOME SEQUENCING PROJECT.



***PLUS A FEW  
EXTRAS***

What kind of  
bacterium is that?

"Walking pneumonia.  
Walking pneumonia.  
You'll have walking pneumonia  
with me . . . ."

Must be one of those  
pesky pseudonomads  
again.

# The Real Genetic Difference Between Men and Women.

