

Evarts (Ambrose) Graham LectureIntroductory Remarks

Have been reading about Dr. Graham.

A very different person from myself.

EAT - Medically qualified
An outstanding surgeon

Free - A physician, turned
to surgery

- Teaching and Medical
Administration

- writer, except v. occasionally.
Mainly interested in research

- probably a very different temperament.

Admire such people v. much,
the world depends upon them.

to solid conduct of

When there, should I talk about.

~~That~~ Not really compares to lecture or a purely medical theme.
and have been

But note that am supported by the (British) MRC.

Then thought it best to give a personal account.

I was interested to see if any general conclusions
would emerge from it.

DeBenedictis Log

Why does anyone study a particular subject?

① Follows his "pore"

in art talent, character, ^{Dr. Graham writes to him} early influences, ~~made a mistake~~ ^{in rank} easy opportunities

in England, boy with great scientific taste,

so to chemistry & physics - biology less likely

I did this.

Lavoisier's joke.

② Stim interest as a child.

Jim W. as bird watcher.

Butterfly fan - in sea lovers.

Botanists (my first prize)

but due to where I lived

③ Desire to do good eq. to become a doctor

pure research, ecology
cure cancer

My own case.

my career - as first, follow my nose.

physics, "research", the war, weapons,

post-war. age of 30 [compare Dr. Graham
& chemistry at the U. of Chicago]

Had to make a late choice.

How does one make a late choice?

Fund which one is good at
important to enjoy one work.

look for some significance (unadvised relevance)

could have been eg. fundamental particles,
cosmology & astronomy.

but actually concerned a

king - not king - eg. inflation
consideration.

anti-influence of
Christian upbringing.

decided on 'molecular biology'

(Hanniker Hartridge Kingdon)

Molecular Biology

fortunate to choose this,

as subject would soon become ripe
(but I didn't know then.)

genes, Hybridae, experience

protein, nuclear acid.

present situation: major pub. solved in outline

but much thing is eg. DNA replication.

also eucaryote.

Key new interests

Physical chemistry of the postrecom - DNA —

Origin of life — difficult to see evidence

~~the~~ nervous system — both overall behaviour
and mol. biology — and a future

embryology = developmental biology.

shape and structure of organs + tissues
has other interests, etc.

(incl. embryology of the nervous system).

What problems does one hope to solve?

If a real medical technique, ~~needed~~ then would be
the main part.

ie. Applied Biology in the wide sense
some well-known recent issues.

es. population : environment

Cancer : disturbing disease, must be cured.

more phenomena with curing things
life is a ~~better~~ ~~good~~ challenge

a game

a battle

a medical condition.

es. little research into food ~~psychotic~~ changes.

My own interests

my motivation

really elsewhere

(above topics more than a sense of clarity)

could be more easily claimed as philosophy & religion.

① Toward example

birth date

Anthropology

hook or campaign.

complete ^{nonsense} ~~was~~ - meets a need (conforming)

should said people be or a sense of work?

"Lentation" tests.

can be seen then - just here.

logical

Astronomy.

② Major biological mechanism

Natural Selection

role of chance (only true reality) Phase-space

open-ended - less "structured stability"

eg. "human nature"

[as going to the moon]

profoundly anti-religious, in the conventional sense

really a new religious attitude.

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So far could have applied to plants

③ Psychological matter

really a profound mystery.

can we be spared as machines?

the new sense: a reward problem.

examples prayer - the sheer testimony of
the medical profession.

- life after death.

(perhaps in peace now)

many other aspects of human behavior.

Genetic component to IQ

Mental health

Creativity

(compare the four humors)

Biology in politics

are present trying to fit
together with the social system.

" all men created equal - no biological Sam.
over exposure in our our hands
have with restraints.

eg. medical research make the world safe for sexuality.
no discrimination (except in between) as about 60% - 70% aim.

either be sexually ^{other} before birth = adult
OR before birth

e. who is to be born?
to have children?
to inherit the earth?

Conclusion

Biology is a revolutionary subject

Political race must be taken here & under attack.
not merely social in part, but social ends.
otherwise

more: Millions of & several - minority groups needing education

& their education mainly needed in basic sciences from
a whole university point of view - hence the lectures