

National pride of Mexico

in such a laboratory.

Why should a country that is not yet overdeveloped in its national economy invest its resources in such an enterprise? Could you not absorb the full benefits of programs in basic scientific research by borrowing the literature, at no more than the cost of translation fees

north American English into Mexican Spanish?

But of course, who would then be able to understand, criticize, sift what is relevant, what pertinent to your own needs and purposes?

In the best analysis the justification is that of higher education; indeed, with all respect to the superior teachers

Sig. of and
essence of
experience
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of this faculty, and of my own university, there is one SUPREME teacher on the quest for the world ~~and~~, the physical reality which we inhabit, and which comprises our own bodies, and that teacher IS NATURE herself. No amount of scholastic communication with oneself, no amount of polemics with others in the same or in opposing ideological frameworks, can replace the experiment - asking hard questions of Nature to elucidate how the world actually is ~~is~~ the objective reality to be distinguished from how ^{we think} it might have been, or even how we feel it ought to be.

I do not press this assertion about post-rationalist reality as an assertion of ultimate truth, which has raised many philosophical criticisms about the possibility of knowledge. But those paradoxes about the ultimate, the undeniable faculty of human sensory observation and logical extrapolation, must not be confused with the rickshaws of the ignorant -

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the philosophies that inflate these limitations into a denial of ^{the} scientific method and of objective reality, to the point where "the truth" is to be decided by personal whimsy or by the shouts of the mob.

The scientist finds himself in a peculiar position in the present turmoil of the global revolution, that resurgence of faith in man that transcends the particular ideologies of socialism or liberalism that ^{different ways towards very} seek to build ~~the present~~ similar ends. He is accused of being the high priest who hoards truth (and then wielded political power) for himself and his class by his denial that truth can be found in personal or collective feeling. He is not denying it for himself, for he does not possess it himself - he merely insists that we look for it outside. This is a hard discipline, and we know from sad experience - like the

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by unwholesome aberration ~~in the~~ during the Stalinist
years, how rapidly the structure of scientific
teaching will decay ~~if it fails to~~ without
constant communication with that inspiring
schoolmaster, Nature herself. ~~and from~~
~~this will~~ This disease of the social psyche
This failure will inevitably result in the
eventual collapse of agriculture of medicine
and of industry; and I believe ^{the failure to achieve} ~~this~~ is one of the
major ~~obstacles~~ ^{obstacles} to the economic
development of those countries who are falling
ever further behind in the struggle for industrial
modernization.

I am not so enthusiastic as to predicate
the whole economic future of Mexico on this
one laboratory, and its Director might be the
first to discourage me from such an unjustified
generalization. I believe, nevertheless, that the

④ ~~basic~~ national policies that make
such a laboratory possible are indeed crucial
to the cultural as well as economic
future of the country.

all is not simple glory for science, however.

First of all, we must be careful to recognize
the limits of objective research, particularly
in the definition of fundamental ^{human} values, and
when we do focus on them ~~we~~ as undeniably
happens (for scientists ~~are~~ are no ~~of~~ more
loving in fact than other humans) - we
deserve the wrath of the multitude. The
power that derives from science-based
technology is not always ~~and~~ wisely used,
and scientists are often the scapegoats of
popular resentment against ^{the} various kinds
of exploitation of people that ^{occurs throughout}
~~of the~~ ^{or lesser degree in every human organization.} ~~are~~ ~~still~~ ~~in~~ ~~profit~~, ~~national~~ ~~paternalist~~
~~system.~~ This has led to a Polish counter
~~attack~~

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reaction ~~out~~ of statement on the part of a few -
that the search for truth has an absolute value that
overrides every other human concern. ~~These~~ ^{Such views,} in my
opinion, ~~really~~ reflect a totalitarian ideology which
has a ~~significant~~ ^{small} number of adherents
in every profession, and must be rejected as an
official expression of the scientific ethic. We
know too well the yield of misery that has follow-
ed from the pursuit of every ideology that denies
the rights of individual human beings.

A better statement would be that scientific
advance is one of the principal responsibilities of
what is uniquely human, and that scientists
must help to ~~lead~~ ^{lead} the community to the most
humane ~~and the most~~ pattern of the
nurturing and of the use of science.

⑥ My concern about this question is ~~not~~ motivated by much more than the moral and moral resolution we have been experiencing in the U.S. There is in fact an imminent feasible threat of developments that could make a mockery of the humanistic aims of biological science, which could destroy the moral foundations of laboratories just like this one throughout the world.

~~I speak of biological war~~

The threat is the escalation of biological warfare, the development of viruses and bacteria as agents of disease for military purposes.

B-W- are ^{now} not taken very seriously as weapons which a country could rely for its national defense. ~~They~~ ~~have not~~ Unlike chemical weapons, ^{like} which inflicted many casualties in WWI ~~starting with the~~ ~~use of~~ chlorine and mustard gas, B-W have not been employed for any significant purpose in modern war.

⑧ We have ^{too much} ~~enough~~ contemporary anxiety from other sources to be complacent about new cycles of such events.

An important turning point in ^{the} world history of BW was Pres. Nixon ... 11/25

later extended to toxins, chemical substances ~~related~~ mainly of biological origin. ~~Also announced that the Geneva protocol of 1925 would be submitted to the Senate for formal ratification. This has been delayed, at least in part, owing to ... barges and herbicides in the ...~~

~~This is not the place to debate even to mention this is to risk arousing controversy and emotions that I ask to be put aside if we are to confront the global threats~~

These repudiations separate, I believe correctly, the issues of BW and of CW. I will remind you that the Geneva ~~not~~ protocol, ~~and~~ together with Pres. Nixon's statements, obligate the world community never to make the first use of either BW or CW. However, ~~many~~ ^{every major power} ~~such as~~

① including the U.S. & the USSR as assuredly
entering secret research on ~~with CW~~ CW
~~and so~~ They are also still stockpiling
reserves of CW, ^(i.e. nerve gas) on the assumption that
this will deter their adversaries from
violating the Geneva protocol. But of course
this is precisely what stimulates the
continuation of CW research in military
laboratories. Disposing of existing stocks
of CW - as the U.S. has announced it will
do in ~~in~~ certain localities - is itself a
serious embarrassment because of the well
publicized hazards to civilian population.

The Nixon statement goes one step further
than the ~~Geneva protocol~~ by excluding R + D on
and stockpiling of
biological weapons, as well as the promise against
first use contained in the Geneva protocol. Some
other countries, especially U.K. and Canada
had already taken similar steps, but the exact

⑩ scope of these new policies is still somewhat uncertain - for example, just what is meant by "defensive" research. The First Detach laboratories are definitely being dismantled but their further disposition is ~~not yet~~ ~~known~~ is being negotiated at the present time with the Health and other Dept.

We have no news from ~~the~~ the USSR or China about unilateral actions on their part.

This very encouraging and important step is the result in large measure of a great popular outcry and the revulsion of many laymen against the promulgation of disease as a military adjunct. However, there are serious limitations on the long-term significance of these new policies, ~~made on a unilateral basis.~~

Nor do ~~these~~ these new policies, ~~and~~ have the force of a treaty obligation; they could be a-

① revealed at any time by the present or successive governments. Indeed - and let me stress that I speak only as a private citizen having had ~~no~~ access to ~~confidential~~ ~~prop~~ ~~govt.~~ ~~papers~~ only to ~~public~~ reports ^{published} - it is hard to believe that a unilateral ~~also~~ ~~abrogation~~ ban would be sustained for very long if other countries were known or seriously suspected of continuing secret R+D in this area.

It is therefore urgent that we proceed to a universal understanding of the need to contain BW development in every country, preferably through formal treaty arrangements.

~~I say this not because I have ~~such~~ ~~high~~ faith in the~~

Why formal agreements? After all a treaty can always be denounced, and is there so

② much advantage for security, it has to
go through the protocol?

The answer is that ^(especially defining) ~~the~~ ^{the} ~~subject~~ ^{subject} is a very com-
plicated subject, that only by ~~using~~ ^{using} a formal
contract can the various countries really be
sure to be sure of their obligations to one another.

Further, the treaty can and must provide
the ^{agreed} channels for a continuous exchange of
questions and clarifications of suspected
incidents that would otherwise provoke a
resumption of military work in defense
in retaliation.

What if we do not reach such agreements +
PW releases returns. Would this add much
to the risks of a world ~~in~~ which already
knows the possibility of nuclear extinction.

Casider...

③ Brackets/Us.

Testing

Escalator

Every small city - esp. small towns!

There will be a butchering of women
around this lab — as there must

be around military nuclear

Wakeup's BCD by the board.

Escape

Political instability

④ Why not put them together.

① ③ How suggest + unify

② Role of independent national

regulators for world leadership.

Example Storer's work as
UN Committee