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Dr. Edward McSweegan Naval medical Research Institute Bethesda, Md. 20814 202-295-0528 (lab) 301-654-6614 (home) August-15, 1986

Sen. Barry Goldwater 363 Russell Senate Office Bldg. Washington, D.C. 20310

Dear Sen. Soldwater:

I am a National Research Council Fellow currently attached to the Naval Medical Research Institute (NMRI) in Bethesda. I have been engaged in post-doctoral research for this institute for the last 22 conths. In that time I have come to conclude that the Navy's in-house research efforts are seriously misdirected, and that the funds consumed in these efforts could be better utilized in other places. I decided, therefore, to write to you about my observations and conclusions.

The Naval Medical Research Institute is engaged in a variety of research programs. These include everything from "biotechnology" and schistosomiasis to diarrheal disease, malaria, and hyperbariac physiology. Much of this work is basic science. This type of research is essentially identical to that being done in any number of universities, federal civilian institutes, and biotech companies. So, in the face of the Gramm-Rudman-Hollings deficit—cutting program, one has to ask why it is that the Navy is engaged in attempting to duplicate the research efforts of the private and federal civilian sectors?

Nothing that is now being done at NMRI is not being done somewhere else. For example, less than S miles from here is the sprawling Walter Reed Army Medical Center. They are engaged in essentially the same vaccine development, and malaria and diarrhea studies that we are working on. (Interestingly, the Army is funding most of the research that we are doing). Across the

Last July the natural gas supply that is fed into the infectious disease labs of NMRI was suddenly cut off. We were not formwarned, and to date, it has not been restored. I do not know if it ever will be. The gas is used to sterilize glass, and metal probes that routinely come in contact with infectious materials. After trying to make due with a 19th century alcohol lamp, I finally Hent to a local hardware store and bought a propand torch cylinder. It is not an ideal solution but it does make my work a little easier and a little safer. 2. The autoclaves (pressurized steam vessels for starilization) in the infectious disease section of NPRI are mither continuously broken or highly suspect. I am certain that on a number of occasions I have inadvertently discarded infectious materials that I thought had been adequately sterilized. Only after the fact did I discover that the autoclaves were not properly pressurizing. 3. About the same time that the gas mysteriously disappeared, my -Artice relephone went dead. Despite repeated assurances that the problem was being corrected the phone has remained dead. 4. In 1983 a chemical/biological containment hood was ordered for my lab. It has been sitting in the hallway ever since. Every 6 months or so someone comes by to tell as that it's going to be installed shortly. 5. HERI is trying to become a high-tech institute. On my floor alone we have at least 2 dozen computers or terminals. All of the major computer manufacturers are represented; IBM, Apple, Xcrox, Digital, and Wang. Not surprisingly, few of these machines and . their related software are compatible. A researcher writing a paper on his or her FC cannot give the disk to a secretary to have it adited on the office word processor. Statistics done on one computer are nonsense on another. We have computer cames (very popular), spreadsheets (rarely used), and DNA sequencing programs (never used). We have a \$55,000 (craenter that has been successfully used 4 times in the last 2 years. It can seldom be sterilized with our 40 year old steam system, and it is too big to fit into our suspect autoclaves. Next to the fermenter is an \$10,000 nucleic acid analyzer that has never been used, and which now serves as a desk top for various pieces of Junk, 6. In October 1 tried to order some computer disks from the stock room here on the base (you can see the building from my lab window), Despite a re-order in January they have not arrived. I suspect that I will never yet them. Fortunately, Crown Books carries computer disks. 7. The Navy supplies hospital corpmen as laboratory technical assistants. Unfortunately, they are not trained to do research and consequently require a good deal of training by the individ-

ual researchers. In addition, the corpsen also have to serve as Janitors, stockboys, night watchmen, and all-purpose handymen. This coes not make for quality technical help, and is unfair to the corpach.

8. Publications are the products of a research institute. Yet NMRI seems to go out of its way to delay and discourage publication. The last time I submitted a paper for internal approval it took 32 days for 5 people to sign off on it. Fortunately, I had the good sense to give them one copy to play with while I mailed a second copy to the journal.

The above items may seen trivial and anecdotal, yet they represent real frustrations and real impediments to quality research. Recently, a civilian researcher complained of not being search. Recently, a civilian researcher complained of not being able to get her radicisotopes for an experiment because the Radianable to get her radicisotopes for an experiment because the Radianable to get her radicisotopes for an experiment because the Radianable to Safety Office was not able to process the paper work during the course of an 8 hour day. The Navy commander that she continued to quipped; "Well, that's why we're a third-rate research plained to quipped; "Well, that's why we're a third-rate research plained to quipped; "Well, that's why we're a third-rate research plained to quipped; "Well, that's why we're a third-rate research plained to quipped; "Well, that's why we're a third-rate research plained to quipped; "Well, that's why we're a third-rate research plained to quipped; "Well, that's why we're a third-rate research plained to quipped; "Well, that's why we're a third-rate research plained to quipped; "Well, that's why we're a third-rate research plained to quipped; "Well, that's why we're a third-rate research plained to quipped; "Well, that's why we're a third-rate research plained to quipped; "Well, that's why we're a third-rate research plained to quipped; "Well, that's why we're a third-rate research plained to quipped; "Well, that's why we're a third-rate research plained to quipped; "Well, that's why we're a third-rate research plained to quipped; "Well, that's why we're a third-rate research plained to quipped; "Well, that's why we're a third-rate research plained to quipped; "Well, that's why we're a third-rate research plained to quipped; "Well, that's why we're a third-rate research plained to quipped; "Well, that's why we're a third-rate research plained to quipped; "Well, that's why we're a third-rate research plained to quipped; "Well, that's why we're a third-rate research plained to quipped; "W

My other reason for turning down the job offer was that I am philosophically opposed to the idea of the military doing the binds of sesearch that universities and civilian agencies have traditionally done; and done well. It seems theribly unfair that in an era of contracting budgets the military is getting the consist of the butter. If the DoD budget has to be cut in order to and the butter. If the DoD budget has to be cut in order to comply with Grame-Rudman-Hollings it would seem logical to cut out comply with Grame-Rudman-Hollings it would seem logical to cut out that portion which does not directly jeopardize the national secutive, and which is wastefully duplicating the efforts of other federal agencies, businesses, and universities. Let me give you some examples from NIRI again.

As previously mentioned. NMRI is doing the same research as walter Reed and NIH. NMRI is also working on malaria vaccines for military personnel. Yet, some of the most promising work in this field is being done at Rockefeller University in New York. NMRI is also interested in shistosomiasis (smail fever). So is wayne state University and Harvard Medical School. NMRI is interested in diarrhea vaccines. There are at least 50 universities investigating some aspect of diarrheal prophylaxis and distributional infection. Hyperbaries is of great interest to the Navy's diversing submariners, and NMRI has an extensive hyperbaries physiology program. Yet, some of the best research in this field is being done at Duke University. Finally, NMRI has also started a "biodone at Duke University. Finally, NMRI has also started a "biodone at Duke University. Finally, NMRI has also started a "biodone at Duke University. Finally, NMRI has also started a "biodone at Duke University. Finally, NMRI has also started a "biodone at Duke University. Finally, NMRI has also started a "biodone at Duke University. Finally, NMRI has also started a "biodone at Duke University. Finally, NMRI has also started a "biodone at Duke University. Finally, NMRI has also started a "biodone at Duke University. Finally, NMRI has also started a "biodone at Duke University. Finally, NMRI has also started a "biodone at Duke University. Finally, NMRI has also started a "biodone at Duke University. Finally, NMRI has also started a "biodone at Duke University. Finally, NMRI has also started a "biodone at Duke University. Finally, NMRI has also started a "biodone at Duke University. Finally, NMRI has also started a "biodone at Duke University. Finally, NMRI has also started a "biodone at Duke University. Finally, NMRI has also started a "biodone at Duke University. Finally, NMRI has also started a "biodone at Duke University."

what I am trying to point out is that if NMRI were to disappear tomorrow no one would notice, and no one would care. There would be no loss to science, public health, or defense preparedness. This is true of all of the DoD's biomedical research efforts. Their work would not be missed. It would easily be compensated for by the efforts already underway in our universities pensated for by the efforts already underway in our universities and biomedical businesses. I think that the mensible thing to do is to eliminate the DoD's in-house biomedical research efforts. The time and money spent by the DoD in trying to create first class research institutes has been for nothing. The effort has failed, and it is time to correct the problem.

The Money that is now going toward the maintenance of militar

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biomedical research programs should be eliminated from the defense department budget. Ideally, this money should go to the University department budget. Ideally, this money should go to the University department budget. In the support of university graduate ies Research Initiative, to the support of university graduate programs and equipment purchases, and to biotech companies able to programs and equipment purchases, and to biotech companies able to do contract work for the DoD. Whether the deficit would make this do contract this time is unclear.

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I'm certain that the DoD would attempt to make a case for its continued in-house research programs. Yet, the defense department does not feel the need to make its own fighter planes, or Christmas does not feel the need to make its own fighter planes, or Christmas do fruitCales, or nerve gas, or acetylcholinesterase. Why then do they feel that they need to have their own programs to study the they feel that they need to have their own programs to study the mechanisms of campylobacter diarrhea, or lectin-ligand interacted ions, or the cloning of rickettsial surface protein genes? These ions, or the cloning of rickettsial surface protein genes? These ions, or the cloning of rickettsial surface protein genes? These ions, or the cloning of rickettsial surface protein genes? These ions, or the cloning of rickettsial surface protein genes? These ions, or the cloning of rickettsial surface protein genes? These ions, or the cloning of rickettsial surface protein genes? These ions, or the cloning of rickettsial surface protein genes? These ions, or the cloning of rickettsial surface protein genes? These ions, or the cloning of rickettsial surface protein genes? These ions, or the cloning of rickettsial surface protein genes? These ions, or the cloning of rickettsial surface protein genes? These ions, or the cloning of rickettsial surface protein genes? These ions, or the cloning of rickettsial surface protein genes? These ions, or the cloning of rickettsial surface protein genes? These ions, or the cloning of rickettsial surface protein genes? These ions, or the cloning of rickettsial surface protein genes? These ions, or the cloning of rickettsial surface protein genes? These ions, or the cloning of rickettsial surface protein genes? These ions, or the cloning of rickettsial surface protein genes? These ions, or the cloning of rickettsial surface protein genes? These ions, or the cloning of rickettsial surface protein genes?

Recently, the director of one of the other research institutes here in Bethesda was showing me some budget-cetting plans that he had drawn up for his superfors. His major point was that while a proposed 25% budget cut would not damage existing contract proposed 25% budget cut would not damage existing contract propriams too greatly, a 25% cut would totally disrupt his in-house grams too greatly, a 25% cut would totally disrupt his in-house research programs. His conclusion was that no in-house cuts should be made. I pointed out that if the in-house programs were completely eliminated he would still have a flourishing external contracting program bringing in valuable research. His response was to put his finger to his lips and say, "Sessenbhhhh."

I hope this letter will spark some interest and some dabate on the Hill. I do not expect that my letter will prompt an overnight reform of the Dob, but I would like to think that you will find some thoughtful suggestions here for dealing with the budget crisis and the need to support universities and the growing biotech industry. Thank you, who

Sincerely,

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Sincerely,

Sincerely,

Sincerely,

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F.S. Copies of this letter have been sent to 20 other senators and representatives. A list of recipients is available upon request.

I applicate for the quality of the printer and the paper, but it was all that I had available.

I Wonder how big was Mr Sweegan's investment in SmithKlinie?