

Not a 'stacked deck'

Academy rebuts Rather

(Editor's Note: The following is a copy of a letter from Philip Handler, president of the National Academy of Sciences, to John Backe, president of CBS.)

Dear Mr. Backe:

On Sunday evening, Feb. 13, on listening to the CBS News program, "60 Minutes," I was shocked to hear Dan Rather suggest that a committee of the National Academy of Sciences is, in his words, "a stacked deck." An annotated transcript of the relevant portions of the program and a summary of what we have learned concerning the circumstances leading up to his remarks are described in the enclosed materials.

The "stacked deck," to which Mr. Rather referred is a committee appointed by me in response to a request from the U.S. Navy, that the academy study the available evidence concerning the environmental effects of project "Seafarer." Knowing of the public concerns about this project, we constructed this committee with the greatest aspects of science and engineering relevant to the problem in question. The distinguished membership of that broadly based committee is listed in the accompanying press advisory, dated Dec. 9, 1976. The chairman is J. Woodland Hastings, professor of biology at Harvard and a world authority on bioluminescence and bioelectricity. The notion that this committee is "stacked" would be laughable were it not for the tragedy that the integrity of the committee and that of the academy were impugned so casually—or deliberately—by CBS News.

The academy was established to provide to the nation independent, reliable advice on scientific and technical matters. It has been doing so for 114 years. The credibility of our reports derives from the high

distinction of academy members and of the other 7,500 scientists who participate in our studies, without compensation; it is maintained by the institutional procedures that we have carefully designed over the years to eliminate sources of undue bias, to assure that all relevant information has been objectively considered and its reliability evaluated, and to make certain that the conclusions and recommendations of each report logically derive from its information and data base.

The committee has addressed its task carefully and thoroughly. Its interim report is surely a model of caution and I am confident that the final report will be a model of factual accuracy and objectivity. Accordingly, the allegation that the committee is a "stacked deck" is quite intolerable. The fact that we were never given an opportunity to rebut the accusation makes matters even more frustrating.

Does it not matter that, at most, only three of the 17-member committee could be embraced by Dr. Becker's remark concerning a "pre-bias?" Those three can gain nothing by having taken their position and I can assure you that the other 14 are far from easily guided sheep. Considering how many other persons and how much scenery were presented, should there not have been some description of the only body of competent, objective scientists who have recently examined the question—and whose devotion to the scientific ethic Mr. Rather so easily dismissed?

What I find most remarkable is that Mr. Rather's damaging characterization followed a very carefully worded statement by Dr. Becker—which made no accusation whatever. The latter's statement was

certainly startling, but not in the way Mr. Rather indicated.

Mr. Backe, I am a professional biochemist. I can imagine no analogue to the situation Dr. Becker portrayed. He indicated, correctly, that experts argue that there are no ill effects from a field 10-6 times as great as that of Seafarer—and wishes us to believe that there are unacceptable adverse effects from that of Seafarer. I can think of no noxious influence—chemical, sound, temperature, pressure, electrical, light, ionizing radiation, etc.—for which exposure to one million times a detectably harmful dose is not violently and rapidly lethal. Yet the very sentence, which might have led the listener to wonder whether this witness had discredited himself, was the one that led his interviewer to discredit our committee!

I suggest that it was reckless and ill-advised to have one of the best-known CBS commentators make such a statement with no apparent substantiation. If the intent of CBS News was an objective examination of the difficulties in balancing environmental concerns and national defense considerations, it failed. By casually discrediting the views of a carefully selected committee of qualified scientists, "60 Minutes" has raised the public's level of anxiety far beyond the magnitude of any foreseeable hazard offered by the Seafarer antenna.

The deck was stacked, Mr. Backe, but not by the academy!

I trust that you will agree that, in the interest of our public responsibility and in fairness to our committee and to the academy, those responsible for the content of "60 Minutes" should issue a corrective statement on "60 Minutes" at the earliest opportunity.

NATIONAL ACADEMY OF SCIENCES

OFFICE OF THE PRESIDENT
200 CONSTITUTION AVENUE
WASHINGTON, D.C. 20048

January 22, 1980

Mr. Caril Tucker
Editor
Saturday Review
1290 Avenue of the Americas
New York, New York 10019

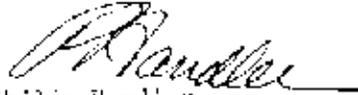
Dear Mr. Tucker:

As you are by now quite aware, the article "The Invisible Threat: The Stifled Story of Electric Waves" (SR, 9/15/79) has dismayed the scientists most familiar with the issues. Having read the article with extreme care and having reviewed the criticisms offered by several of the scientists mentioned in the article, I can only share that dismay. The article is replete with distortions, inaccuracies, and misrepresentations that are difficult to regard as other than willful and venal. It is insulting to several distinguished scientists and to the National Academy of Sciences.

We do, of course, have alternative means available to deal with the article, most especially its slanderous description of Professor Hastings. As you may know, this institution has in the past successfully sought legal redress when one of our committees was slandered in the public prints and we would not hesitate to so commit our resources again, should that be necessary. However, in the hope of being more positive and of extracting something of value from this episode, we have prepared the enclosed article for publication in the Saturday Review. It has several purposes: to rectify in part the grievous injustice done to this institution and to several reputable scientists; to outline the actual scientific knowledge relevant to the issue treated in the article; and to inform SR readers who have been misled by Ms. Schiefelheim's article as to how the episode occurred.

I request that you give the enclosed manuscript your prompt attention, and that publication of the article be scheduled expeditiously.

Sincerely yours,


Philip Handler
President

Enclosure

(Note: The above image file is poorly defined; the text of the letter appears below)

NATIONAL ACADEMY OF SCIENCES

OFFICE OF THE PRESIDENT
2101 CONSTITUTION AVENUE
WASHINGTON D C 20418

January 22, 1980

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Editor
Saturday Review
1290 Avenue of the Americas
New York, New York 10019

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Sincerely yours,

(signed)

Philip Handler
President

Enclosure

January 21, 1980

SCIENTIFIC EVIDENCE AND PUBLIC DECISION MAKING

By Philip Handler, Alvin G. Lazen, and Normal Metzger

The authors are all associated with the National Research Council of the National Academy of Sciences. Philip Handler is Chairman of the Council and President of the Academy; Alvin G. Lazen is Associate Executive Director of the Assembly of Life Sciences; and Normal Metzger is Senior Editor in the Office of Information.

A continuing stream of diverse new technologies, introduced for private profit or public benefit, characterizes our civilization. Stimulated by a growing list of unfortunate experiences, increasing attention is now being given to possible dysbenefits of these technologies, such as social disturbance or hazard to the public health. In consequence, risk assessment has become a major enterprise. Establishment of the nature and magnitude of the risk, if any, associated with a given technology is a valid scientific question. The acceptability of such risk, however, is a political question. The role of the scientist is to inform; decision is the responsibility of the polity, albeit frequently made by those to whom the polity has temporarily delegated that responsibility on its behalf.

The public is informed that automobile seat belts do save lives but each of us decides whether we wish to use them; less than 20 percent do. Evidence describing the linkages of cigarette smoking to lung cancer and cardiovascular disease is offered to the citizenry, which then decides, individually, whether or not to smoke. Those instances in which the public purpose can only be served by government action, e.g., licensing of nuclear power plants, approval of food additive or—the exemplars in this article—construction of high voltage transmission lines or of antennae that emit extremely low frequency radiation, again entail a two-stage process, viz., scientific appraisal followed by political decision. While the formal separation of scientific information from public judgment is a truism, the two are not always easily distinguishable, they do not always operate independently of each other and their intertwining may have messy consequences in the making of public decisions. The unwary can be trapped and unprincipled advocates rewarded when the rules of either arena are not understood or their operation is inadvertently or deliberately distorted. The problem may be particularly serious when relevant, conflicting evidence derives not from the mainstream of scientific understanding but from a relatively little explored fringe and is offered by partisan scientists in the employ of an entity that benefits from the technology in question or by scientist-advocates already committed to the view that the technology is, in some way, dangerous or undesirable. It is then that the intricate structure and built-in safeguards of the scientific enterprise become particularly important.

The elements of that structure consist of journals, each with its squadron of references, of informal networks by which scientists relentlessly critique each

other, of peer review systems by which applications for research grants are appraised, of deliberately harsh competitions within academic departments by which a select few are given tenure and others left to find work elsewhere. This is a rather brutal but unparalleled system for rewarding excellence and culling out that which is shoddy, a system for defeating Gresham's Law as it might otherwise operate in the matter of scientific excellence. It is a tough arena in which to work. Critics are ready to spring on the slightest mistake; daring hypotheses are met with skepticism and bitterly fought. The older establishment is ever the target of brash graduate students and assistant professors. A unique feature of this system is the National Research Council, the working arm of the National Academy of Sciences. Having no interest but the ultimate public interest, it operates as objectively and impartially as possible. The Council is a unique system for definition of the scientific questions relevant to a given problem, the appointment of a committee of the most knowledgeable and competent scientists with assurance of representation of all legitimate points of view and interests, and for the rigorous, impartial, critical review of that committee's report before its release.

The system of science works; but the nonscientist unfamiliar with the rules of the system can misread it, can mistake honest scientific contention for persecution, can interpret angry attacks on controversial assertions as a cover up, can imagine the emergence of "mainstream" views as the telltale of a cabal. As an example, let us consider in some detail the possible biological effects of certain forms of electromagnetic radiation, a matter concerning which controversy has arisen in connection with the acceptability of high-voltage lines for transmission of electricity and with the proposed construction of an antenna which would enable communication with deep-running submarines (Project Seafarer) [See box for brief explanation concerning electromagnetic radiation.]. This was the subject of a recent Saturday Review article entitled "The Invisible Threat: The Stifled Story of Electric Waves," written by SR reporter Susan Schiefelbein (SR: 9/15/79). That article, largely premised on the writer's selection of what scientific evidence is believable and what is not, is powerfully illustrative of the mischief that can be engendered by a misunderstanding that can be engendered by a misunderstanding of the workings and rules of the scientific enterprise. The article attacks the integrity of a number of individual scientists and of a committee of the National Academy of Sciences. It calls into question the probity of the Academy itself and the validity of the very methods of science. Nevertheless, here we will specifically address the central issue, one that supersedes the problem of prejudiced reporting: the assaying of scientific information in a public arena.

The issue can be stated simply enough: does extremely low-frequency (ELF) electromagnetic radiation such as that associated with high-voltage lines and the Project Seafarer antenna cause biological effects; if so, are such effects harmful in any way?

Obtaining a reliable, definitive answer to that question turns out to be rather difficult. Our environment is suffused by electric and magnetic fields of many origins: the natural stationary and undulating electric and magnetic fields of the planet; local fields from electric wiring, appliances, electric machinery, and transmission lines. Such fields surround all flowing electric currents. To appreciate their magnitude, the natural electric field of the earth, which averages 130 volts per meter, is about the same as that about 12 inches from an electric broiler; the natural magnetic field of the Earth is about 0.5 Gauss, it may be about 5 Gauss in close proximity to an electric can opener, an electric razor, or hair dryer, and much higher under an electric blanket.

Several thousand miles of existing high voltage transmission lines now operate at 765 kilovolts (kV), and carry enough energy to supply the requirements of both Boston and Baltimore. The maximum associated electric field directly under a 765 kV power line is approximately 10,000 volts per meter; the maximum magnetic field is approximately 0.5 Gauss. Both fall sharply with distance from the source. At the edges of a 250 foot right of way, the fields are about 2500 volts/meter and 0.15 Gauss; at 500 feet they are less than the natural levels, 100 volts per meter and 0.01 Gauss. Most houses and other buildings are shielded from the electric field by conductors in their walls and roofs.

In any case, fields do surround transmission lines, people are exposed to them; and they do penetrate through biological tissue. What are the consequences of such exposures? We can readily provide some gross answers. An electric field is created within a person standing under an electrical transmission line but, in general, for reasons having to do with the conductivity of electricity in living tissue as compared with that of air, such an internal electric field, on the average, is thousands or more times smaller than the external field in the air. In considering whether even such an attenuated field is a hazard, we move into difficult and perhaps insufficient experimental science and into controversy.

While there are plentiful data, much of them are contradictory, and some simply experimentally valid. That may seem remarkable, given both the ubiquity of electromagnetic radiation and a long history of curiosity concerning any possible biological effects. Accordingly, let us note some of the contradictory results and then examine several experiments that have been claimed to indicate adverse biological effects but which have not survived appraisal of the validity of their results by the normal procedures of science, yet which, nevertheless, have been awarded credence in the public arena.

Efforts to search for biological effects of ELF have been persistent, catholic, and imaginative. The examination has included searches for possible effects of electric and magnetic fields on the growth and development of plants and animals, for changes in physiological or molecular aspects of cellular metabolism, for genetic and chromosomal changes, for any effects on the behavior of animals or people, in particular on the health of utility linemen

working on live 765 kV and 345 kV transmission lines.

The general conclusion extractable from the sum of these efforts is that if a hazard does exist it has not been demonstrated. In the absence of any such proof and in the absence of any theory that predicts such effects, we are left with the unprovable negative: that there does not exist any danger from extremely low frequency radiation at the level at which people are customarily exposed. And we are left also with a burden to improve the experimental methods necessary to this field, and appraise further those small effects that have been seen to ascertain whether they signal real hazards.

Many results have been inconsistent, with superficially similar experiments seemingly finding opposite results. For example, one report claimed a significantly increased human reaction time upon exposure to electrical fields of 3 Hz (Hz=Hertz=cycles per second) as compared to exposure to 10Hz, whereas another report claimed that there was an increased reaction time at 12Hz as compared to 2Hz.

Two studies assessed the effect of 60Hz fields on the growth rate of chickens; one found no effect and the second a decreased growth rate. Such inconsistencies have been obtained repeatedly in the history of science, particularly when, as in this case, the effects sought are small and particularly when they depend on the subjective judgment of the investigator or subject, e.g., estimation of the time of initiation of "fatigue" after exposure to a given field. They can be dealt with by the classical procedures of science; their evaluation is not facilitated by ad hominem attacks.

Aside from inconsistencies, there are flaws in some experiments, incomplete information in others, and a drawing of conclusions not supported by what has purportedly been measured. To illustrate, Soviet investigators have reported a number of complaints—listlessness, excitability, headache, drowsiness, and fatigue attributable to exposure to high intensity electric fields. However, a nine-year study of linemen working on energized high-voltage transmission lines, conducted by scientists at Johns Hopkins University, found no physical, mental, or emotional effects attributable to exposure to high electric fields. Similarly, a study in France of people working and living in proximity to transmission lines found no increase either in the frequency of visits to physicians or use of medications. Studies in Canada, Germany, Sweden, and Japan have failed to show significant effects on electrical workers from the electrical and magnetic fields in which they intimately work.

What is one to do under these conditions? The wary layman should certainly recognize that conclusions from the seemingly positive experiments are tentative at best and perhaps invalid; scientists would attempt to appraise each of the experiments. They would note, for example, that the Russians found similar results in different working environments and then ask whether these variances

were properly controlled for, indeed whether there were commonalities other than electric fields that might have been responsible for the reported effects, and how the effects were measured and evaluated. Scientists are made mistrustful by the fact that the array and number of illnesses of Russian workers exposed to high intensity electromagnetic fields were not compared by the same investigators with those of workers not so exposed. Finally, scientists in the United States are now attempting to repeat some of the Russian experiments.

Similar puzzles crop up in experiments with rats and mice. One experiment, for example, reports no effects on either the growth or development of mice exposed for over 10 months to 60 Hz fields of 160 kV/m. In contrast to this benign result is one report that asserts statistically significant decreased water consumption, food intake, and weight gain as well as increased adrenal and pituitary weights and decreased blood steroid levels in rats exposed to a 60Hz 15kV/m field for about a month. This dramatic report is a centerpiece of the Saturday Review article; hence, we shall return to its appraisal below.

A number of experiments have looked for changes in the chemical composition of the blood, principally the concentrations of serum triglycerides (fat), prompted by the posited relation of blood triglyceride levels to various types of heart disease. Human volunteers confined to a small room and exposed to unusually high intensity electromagnetic fields did, one experimenter reported, show higher triglyceride levels than did controls. But, again, one is left on slippery ground for public decision, for another experiment in which humans were exposed, again day and night, to similar electric and magnetic fields found no differences between control and experimental subjects. In a related series of experiments conducted on personnel involved in the Navy's Project Sanguine/Seafarer facility at Clam Lake, Wisconsin, supposedly elevated serum triglyceride levels were found both in these personnel and in matched controls living in Illinois. What is one to make of that, other than methodological inadequacy or operation of chance in these several studies?

One could continue in this fashion, but the leitmotif remains the same: a preponderance of the data showing no effects and some data purporting to indicate small effects of uncertain relation to the public health, all without a guiding theoretical background.

Oddly, the Saturday Review article even derides attempts to understand at a fundamental level the effects of electric and magnetic fields. After indicating that "using a metal ball as a model of the human body, together with his own assumptions of how much heat the body can throw off by means of perspiration and other biological processes, [Dr. Herman] Schwan figured that a person can safely handle an exposure of 10 milliwatts of microwaves per square centimeter of body surface," the author opines that "metal balls and calculations cannot determine what is or is not a dangerous assault on internal organs."

What chutzpah! After passing many errors for many matters, we cannot quite ignore such errors as: stating that Dr. Schwan's funding is largely from the Department of Defense when the bulk thereof derives from the National Institutes of Health; indicating that his research is in "electromagnetics" when it is in biophysics and biology; stating that Dr. Schwan used "metal balls" when he employed spheres of tissue to approximate exposures to electric fields; failing to note that the work referred to, done over a period of thirty years, has been rigorously reviewed and reaffirmed in the scientific literature; and failing to note that Dr. Schwan, a member of the National Academy of Sciences, is perhaps the leading authority in the United States, if not the world, on the interactions of electromagnetic fields with living tissue.

More important than these indefensible errors is the fact that after exhibiting her failure to understand science, the author naively derides the use of one of science's most helpful tools—the use of simple models of complex structures. Models are intrinsic to the scientific method and vital guides to the design of experiments. Hydraulic pressure models, for example, have been applied to studies of blood circulation, with consequent gains in the treatment of circulatory disease; other model systems, including computer models, have aided in the design and syntheses of drugs now used to treat various human ills. The examples are legion. Dr. Schwan's use of models to study the effects of electromagnetic radiation on living tissue was in the classical tradition of science: to study the possible effects of a possibly toxic agent at lower and simpler levels of biological organization as a prelude to organ and whole animal studies.

Let us return to the experiments referred to earlier, those of Andrew Marino of the Veterans Administration Medical Center at Syracuse and his colleagues, who assert that there are quite clear effects which are, in fact, the pillar for the Saturday Review article. The point is not simply to indict that article, but rather to illuminate the consequence when selected experimental results are taken as facts—in this case, by a journalist—deliberately in disregard of the fact that they have been rejected as valueless by the rules by which science guards against shoddy work.

To recapitulate, Dr. Marino published papers claiming that fairly low intensity electric fields cause "stress" in experimental animals, the consequences including stunted growth, food avoidance, and changes in physiological state. To quote from the Saturday Review article: "In one study, rats exposed to an ELF field failed to gain weight normally. In another, three successive generations of mice exposed to ELF fields were stunted. Marino concluded that the animals were exhibiting the classic signs of stress." A photograph used in the Saturday Review article to illustrate these effects shows a test mouse about one third the size of a control mouse.

These results seem provocative. Are they believable? If, indeed, they occurred, were the experimental arrangements such as to preclude other causes of the

reported effects? A prime role of committees of the National Research Council is to appraise the scientific validity of experimental results relating to the topic at hand; only scientifically valid, meaningful findings should reasonably figure in public decision making. Upon request from the Defense Department, the National Research Council appointed a committee to investigate the possible biological or other effects related to the construction by the Navy of a very large grid antenna to communicate with deep-running submarines, Project Seafarer. Appointment of the committee is the sole responsibility of the President of the National Academy of Sciences.

The Committee's reviewers found that the cages used to house the experimental animals could have transmitted small electric shocks each time the rats ate or drank. Was it then these shocks or the fields that led to poor feeding by some rats? Did Marino consider such shocks in his conclusions? One doesn't know, but it seems likely that to be "buzzed" when one eats is not to eat well. A reviewer whose professional career has been devoted to the study of stress pointed out that stress can be validly ascertained only by comparisons under precisely controlled conditions. That was patently not the situation in the Marino experiments; thus, the animals that were exposed to ELF were housed three to a cage, while the control animals were each alone in a smaller cage; vibration isolation pads were added to the experimental cages but not to the control cages.

Line concerns beset interpretation of the alleged results of these experiments. The data were themselves paradoxical: Marino reported reduced levels of corticosteroid hormones whereas classic stress research shows that stress raises such levels. Independent analysis of Marino's own data shows that there was no statistically significant difference in the weight of the treated versus the untreated rats! And that picture of the woefully stunted mouse? Perhaps the growth of some mice was indeed stunted, but it must have been a very small fraction of the total. And the experimental procedures used do not unequivocally tell us why; they most surely do not provide scientifically acceptable evidence that extremely low frequency radiation causes such effects.

Yet on this trivial, dubious ground, the article in the Saturday Review built a case for a conspiracy in which are united the National Academy of Sciences and its National Research Council, the federal government, the legal system, and for that matter any scientist who dares to disagree with Marino's claims. QED!

These are not trivial matters. Both the print- and the electronic-news media have utilized the thin tissue of fancied biological effects of ELF to inflame the imagination of the public. At stake are future options for the siting of major electrical power plants and a means for communicating with deeply submerged submarines, obviating the need for a telltale surface antenna. It boggles the mind that some of the news media have been willing to treat such matters with mischievous irresponsibility.

A final matter. Once one chooses, by ignorance or venality, to accept and use only those findings and observations that might buttress a particular point of view, one is forced in time to paranoia so that the fairness and honesty of others is treated as mere cavilling. One shameful example. The *Saturday Review* article libeled the chairman of the National Research Council's Committee on Project Seafarer, Professor J. Woodland Hastings, Chairman of the Biology Department at Harvard University, stating explicitly that he "publicly lied," yet failed to indicate the nature of the lie or the identity of the public in question.

Upon direct inquiry to the author, we were informed that she, personally, was the "public" in question. The "lie" consisted of Dr. Hastings' statement to her, in 1979, that Dr. Marino and a VA colleague, Dr. Robert Becker, had conducted no research in this field that contributed significantly to current understanding whereas she had in her possession a letter from Hastings to Becker and Marino that indicated that Hastings knew otherwise. That letter, dated three years earlier, was a canvassing letter, written early in the course of the committee study, in which Hastings as committee chairman states that he had been informed that Marino and Becker had conducted investigations relevant to the effect of ELF, and, if that was true, requested that they more fully inform the committee of their work so that the committee could give it due consideration in the course of its deliberations. (Marino and Becker never responded nor did they accept the committee's invitation to attend a committee meeting and present their experiments and findings in person.) By the time of Ms. Schiefelbein's conversation with Dr. Hastings, the committee had long since reported their dismissal of the Marino-Becker findings as essentially without scientific value—as Hastings told her. There was indeed lying reported in the pages of *SR*—but it was not done by Dr. Hastings.

We end with two quotations. One, taken from the National Research Council report on Project Seafarer, neatly reveals the committee's frustrations with the need to form judgments on sometimes flimsy data: "The Committee has examined a number of cases in which a claimed effect of an ELF field was very likely an effect of something else in the experiment and cases in which no effect was found, but the design of the experiment was such that probably none could have been found even if it did exist. The Committee has not enlarged on these inadequacies on an experiment-by-experiment basis, because, in the absence of an effect (whether real or artifactual), an appraisal of the possible impact of experimental shortcomings becomes an exercise in prophecy, rather than analysis." The *Saturday Review* article contains one statement that we embrace entirely: "The controversy is a complex and many-facted one; it is not well-served by simplified conspiracy theories and personal vendettas." Would that the author thereof had taken her own lesson to heart.