I have just returned to work and have had an opportunity to discuss the August 12 meeting with Gene Spanier, and to examine the pre-meeting correspondence and the minutes of the meeting.

The Harvard program review that Homer Sarasohn sent was most instructive, however his July 7 letter was disappointing and inconsistent with the tone and results of the June 24 meeting. It is of concern here only to the extent that it may reflect policies related to this committee.

When plans for the June 24 meeting were initiated, it was suggested that the committee should involve members with a fresh outlook. There was no suggestion to limit or select participants, except (as per your proposal) to keep the size of the meeting within manageable proportions. Sarasohn's comments regarding the lack of "IEEE people" and other characterizations are regrettable. My understanding is that those attending were "IEEE people", each with an area of interest and a point of view. More regrettable was the inclusion of additional persons with voting power in the August 12 meeting, despite your strong feeling on June 24, agreed to by all present, that the next meeting should be for working chairmen only.

While the matter of committee name and several semantic points could be discussed, Sarasohn's implication of a committee of IEEE being taken over by a cabal and issuing professional mea culpae is nonsense, and does an injustice to all those who participated. At the same time, to exclude the possibility of electrical engineers examining the implications of what they do, and to exclude such considerations from the logical professional forum, the IEEE, is a disservice to the electrical engineer and the Institute.

It would appear the Sarasohn letter represents precisely the unilateral transfer function, that it purports to identify and oppose. Moreover, the response and subsequent action were, I believe, inappropriate, and I am sorry that I was not around to say so at the time.

I have read your comments on the draft of procedures (item V.a) and the minutes and have some idea of the procedures which now govern us. Many of the comments and criticisms were most helpful, and the appropriate revisions and inclusions (TASKS) will be available one month before the next meeting. However an issue underlying the adopted procedures necessitates some discussion.

In framing the draft procedures, several assumptions were made:

1. This committee would represent many diverse views of IEEE members,

229 Cambridge Avenue Englewood, New Jersey 07631 Englewood, New Jersey 07631 Sept. 22, 1972

Mr. J. Malvern Benjamin Bionic Instruments, Inc. 221 Rock Hill Coad Bala Cynwyd, Penna. 19004

Dear Mal,

In reply to your Sept. 19 letter, I would vote for the 3 items listed in your July 25 letter, with item B) The Engineer and War Technology given top priority. We might reasonably expect to get one regular session, which we could make item B), and get the other two in as special sessions, perhaps held at the Golosseum.

At the August 12 meeting, Ted Werntz and Paul Stoller again raised the idea of a session on the Vietnam War, as described in their earlier written proposal. It appeared to me that the discussion wasn't much different from the one we had at the June 24 meeting, with very little support for the idea.

I see no reason why the Vietnam War can't be referred to in the context of the more general theme described by B), but I still don't think it would be wise to try to organize a session devoted to the war.

Best regards,

Stephen H. Unger

#### ALBERT EINSTEIN COLLEGE OF MEDICINE

#### OF YESHIVA UNIVERSITY

1300 MORRIS PARK AVENUE, BRONX, N.Y. 10461 · CABLE: EINCOLLMED, N.Y.

INTERDISCIPLANARY PROGRAM

PHONE: (212) 430-2000

September 21, 1972

Prof. Stephen Unger 229 Cambridge Avenue Englewood, NJ

Dear Steve,

This is a draft of a letter which I am considering sending to Ed Wolff. I have many reservations, and your advice would be appreciated. Specifically:

- 1. Is the issue cited serious enough to warrant such a response?
- 2. If so, is it prudent to jeopardize the future of this committee by taking such a stand (as opposed to taking a stand if Mal should get hamstrung on the Intercon 73 issue, by IEEE "procedures")?
  - 3. Should the draft be toned down?

I have no desire to get hung up over procedural issues; there are more important things to do. However, Wolff violated his own rules by creating liason members (obtained from the IEEE hierarchy) with little to do but vote on policy issues. Please let me know what you think.

Regards,

Victor Klig

CC: M. Benjamin

N. Balabanian

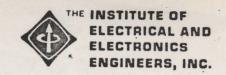
A. Robbi

M. Pessah

Enc.

VK:EWR

sent polos



345 EAST 47TH STREET, NEW YORK, N.Y. 10017 AREA CODE 212 752-6800

#### MEMORANDUM

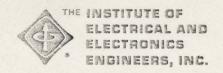
То	CSIT Members	Dat	e December 19, 1972
From	Peter Edmonds		
` .	appointed TAB Vice-Ch assume the Chairmansh	that Dr. Bruce B. Barrow has been airman for 1973; he will therefore ip of the Committee on Social	
	Implications of Technol Laboratories, Inc., 40 S Area code (617) 890-846	ogy. Dr. Barrow is with GTE-Sylvan Sylvan Road, Waltham, Mass. 02154 0 - Ext. 391.	ia
	Street, New York, N. Y. planned. Dinner will be to attend by returning the	the next meeting of C-SIT on Monday the Engineers Club, 32 West 40th and a previously a served. Please indicate your ability the message below. The deadline for ports to me remains as December 27 e.	
То	Peter D. Edmonds IEEE		
	345 East 47 Street New York, N. Y. 10017		
	I can	attend the next CSIT meeting at 6:00 Monday January 8 at the Engineers C York.	PM on lub, New

PM

Name (please print)

Date

\*But I could arrive by



#### TECHNICAL ACTIVITIES BOARD

#### COMMITTEE ON SOCIAL IMPLICATIONS OF TECHNOLOGY

December 10, 1972

Dear Committee Member:

As 1972 draws to a close and I retire as TAB Vice-Chairman and Chairman of your CSIT Committee, I wish to thank you for your cooperation and reflect a bit on the past.

When I first became actively involved in problems of international relations and peace in high school in 1945 (a few months after Hiroshima), I became aware of the lack of concern by my engineering-oriented fellow students. This awareness was sharpened a few years later when, as a college freshman, I had an opportunity to meet a much wider cross-section of engineering-bound people. Through the years I have observed many long-time engineering acquaintances become less thing-oriented and more people-oriented as they matured, but yet they have not simultaneously become interested in the role of technology in society.

Recently, many of these people have opened their eyes to the world around them and have begun to see what most of you have been observing for some time. I believe the petition for an IEEE Group and the subsequent formation of this committee is an embodyment of an awakening that could not be long denied. I believe that you have the opportunity, if you act judiciously, to accelerate that awakening and help the Institute fulfill its objectives.

I was pleased to be asked to help this fledgeling effort and wish you well on the difficult task ahead. I am gratefull for your fine spirit of cooperation which made my job so easy.

Thank you.

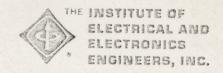
Sincerely,

Edward A. Wolff TAB Vice-Chairman 1021 Cresthaven Drive Silver Spring, Maryland

cc: J. K. Dillard

R. M. Emberson

P. D. Edmonds



#### TECHNICAL ACTIVITIES BOARD

#### COMMITTEE ON SOCIAL IMPLICATIONS OF TECHNOLOGY

Dr. J. M. Benjamin Bionic Instruments, Inc. 221 Rock Hill Road Bala Cynwood, PA 19004

Dear Dr. Benjamin:

This is a reply to your letter of September 19th to the CSIT Committee and John Gaffney.

In discussing the CSIT Plan at the TAB OpCom and BoD meetings, I encountered considerable concern that the activities be constructive. OpCom was unanimously of the opinion that no good could come from using Intercon as a forum for discussing the war.

I discussed the problem with Gene Cory, who offered at the last CSIT meeting to help arrange the Intercon sessions. It seemed to us that there are two good ones that should be of interest to our members. One, which could be arranged by the Computer Society, would involve the many ramifications of the impact of computers. The other, arranged by the Environmental Quality Committee, would be a report on the recent IEEE initiated workshop on "Technology and Governance in Achieving Environmental Quality." This was an historic meeting in which members of the science, engineering, legal, medical, and public administration professions sat together to seek solution for a common problem.

If Gene Cory and you have not yet been in communication, I would urge prompt attention to the problem since the convention will soon be here.

Sincerely,

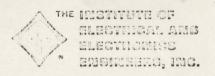
Edward A. Wolff

Chairman

cc:

W. E. Cory B. Marrheimer

R. Emherson



345 EAST 47TH STREET, NEW YORK, N.Y. 10017 AREA CODE 212 752-6800

December 27, 1974

Dipl. Ting. Fred Margulies Gewerkschaft der Privatangestellten Deutschmeister platz 2 Al013 VIENNA Austria

Dear Ing. Margulies:

In reply to your letter of November 26, 1974, I am enclosing back issues of the C-SIT Newsletter as requested and I hope you will find some of the articles interesting and pertinent to your circumstances.

The preprints of the IFIP conference 'Human Choices and Computers' were received here and I wish to thank you for recognizing our interest in these publications; I am distributing copies to chairmen of the appropriate C-SIT working groups, on Ethics and on Automation, who will surely appreciate your assistance. I noticed that the copy of the paper by Heinz Zemanek (revised version) was incorrectly assembled—after page 22 there is a duplicate set of pages 1-22 bound in reverse order. If you could send me a good copy, I should like to replace the faulty copy in our collection.

Very sincerely yours,

Peter D. Edmonds, Ph.D

Administrator - Technical Services

Bette Delmande

PDE:gd

Enclosure:

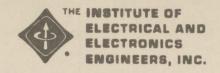
C-SIT Newsletter - issues 2-8

cc:

Dr. J. S. Kaufman - w/enclosure (IFIP preprints

Mr. M. Kutcher " titles and copy of W/G reports)

Dr. S. H. Unger - w/o enclosure



### COMMITTEE ON SOCIAL IMPLICATIONS OF TECHNOLOGY

Please reply to:

101 Barrows Hall University of Maine Orono, Maine 04473

February 5, 1975

#### AIR MAIL

Mr. Subrata K. Sarkar Direction Générale des Postes Télégraphes et Téléphones Suisses 3000 Berne, Switzerland

Dear Mr. Sarkar:

I have sent a copy of your letter of January 25 to each of the IEEE-CSIT Working Groups Chairmen, and I am sure that they are pleased to hear of your interest. A list of their names is attached.

The Education Group is just getting under way and I will keep you posted accordingly. I have also sent your letter to Editor Victor Klig of the CSIT Newsletter, so that you can be added to the mailing list.

Sincerely,

Basil R. Myers

Dean

BRM:1c Attachment

Copy to: Dr. Edmonds

Mr. Klig

CSIT Group Chairmen

Direction Générale des Postes, Télégraphes et Téléphones Suisses 3000 Berne, Switzerland

25th January 1975

Prof. Basil R.Myers Chairman CSIT, IEEE College of Engineering and Science University of Maine Or on o Maine 04473

U.S.A.

Dear Prof. Myers,

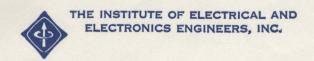
In the December 1974 issue of Spectrum I came to know that you became Committee Chairman CSIT, IEEE. I would appreciate if you could provide me the objectives of this committee and the expected coordination among different working groups. I had recently contact with Dr. Russo, Chairman CSIT WG-E/E. I would like to receive all the available information on CSIT and on other working groups besides WG-E/E. Therefore, I shall be glad to have my name on all the mailing lists.

Since a few years I am personally involved in these areas as you will notice from the enclosed resumé and the article. After receiving the necessary information I shall decide in which area my participation will be most fruitful either through CSIT and/or the Swiss section of IEEE.

Thank you for your kind understanding and cooperation.

Sincerely yours,

Subnata K. Sarkar Subrata K. Sarkar IEEE No. 5471461



STUDENT BRANCH AT THE UNIVERSITY OF ILLINOIS 247 ELECTRICAL ENGINEERING BUILDING URBANA, ILLINOIS 61801 (217) 333-7401

January 4, 1974

Mr. Stephen Unger 229 Cambridge Avenue Englewood, New Jersey 07631

Dear Mr. Unger:

The student branch of the IEEE at the University of Illinois is scheduling a meeting on April 3, 1974, which will deal with Engineering Ethics. Would you please suggest someone who would be willing to speak to our group on this topic?

Our meetings generally last for one hour and are followed by a social hour.

May I hear from you soon.

Sincerely,

William E. Buford, Jr.

William & Bufard

Programs Chairman



#### SECTION CORRESPONDENCE

February 5, 1974 660 Grand Avenue Lindenhurst, N.Y. 11757

Dr. Stephen Unger 229 Cambridge Avenue Englewood, New Jersey 07631

Dear Dr. Unger:

Enclosed please find a copy of "Purposes and Aims of the Professional Activities Committee (PAC) of Long Island IEEE".

PAC would appreciate if you send a copy of your article, "The BART Case", published by CSIT.

We would also be interested as to whether you or one of your colleagues would express a desire to be a Guest Speaker at one of our forthcoming PAC Forums. To date, we have organized two extremely successful ones and I am enclosing copies of the "Pulse" articles on same.

Many thanks for your efforts on this behalf.

Very truly yours,

Louis A. Luceri PAC, LI Sect. IEEE

#### PULTOSE ALD AIMS OF THE

#### PROFESSIONAL ACTIVITIES COMMITTEE (PAC)

#### OF THE

#### LONG ISLAND SECTION IEEE

The purpose of the PAC is to formulate a program for improving the professional, political, and economic status of engineers and to execute the program on a continuing basis.

The aims, goals and activities of the PAC are enumerated below:

- la A study of the Professional, Political and Economic problems that afflict engineers and a search for solutions.
- 15 Efforts to implement these solutions.
- 2 Scrutiny of newspapers and magazines for articles demeaning or degrading to the professional or economic status of engineers, and the writing of rebuttals to these.
- 3 Review of legislation related to the problems of engineers, and the sending of letters to legislators, expressing our views on such legislation.
- 4 Running of forums or panel discussions about problems of professionalism.
- 5 Study of patent agreements between employers and salaried engineers and means of improving engineers' benefits from such agreements.
- 6 Scrutiny of engineers' pension plans and search for means to improve them.
- 7 Liaison with Local Guidance Associations for the purpose of furnishing
  Guidance Counselors with more objective information about engineering as a
  career.
- 8 Liaison with other PAC's and groups whose activities touch on professionalism of engineers.

- 9 Formulate an IEEE point of view on curriculum, accreditation, and output of Engineering Colleges and implement this joint of view.
- Evaluate personnel practices with respect to professional and economic status of engineers, and strive to improve these by all available means.

Finally, to pass on all valuable information and experience to related groups and individuals and to receive same and more effectively implement solutions to problems, to petition IEEE for Professional Group Status for the Committee.

The group to be called the Professional Group on Professional Activities (PGPA).

#### NOTE

The PAC meets on the third Thursday of every month at P.M. at Polytechnic Institute of Brooklyn Graduate Center, Route 110, Farmingdale, New York.

Your participation will be most welcome.

#### PAC ACTS ON THE ISSUES

The Professional Activities Committee (PAC) of Long Island, is presently planning the ways and means of accomplishing the aims and goals of the overwhelming majority of its members, while simultaneously addressing some of the immediate concerns. Examples of the latter are:

Bringing the most pressing issues to the forefront and open, such as the panel discussions on -

- (a) Engineering Enrollment Controlled Input/Output
- (b) Engineering Shortage Fact vs. Fiction

Supporting NSPE in the lawsuit against it by the Federal Government to force competitive bidding by PE's on projects of the Federal Government. One of the reasons PAC supports NSPE is the feeling that such bidding would still lower the scale of payment to all engineers.

PAC is reaching Guidance Counselors to give them a first hand, working engineer account of what present day engineering really is like, so that they may realistically counsel the young student on the plus and minus side of engineering.

Effective means of making IEEE responsive to the needs of its members in a quick and forceful manner are being pursued.

Communications with PAC's across the land are actively being pursued plus much more.

There are areas that need support, and that support must come from volunteers, such as you. The following committees are being formed:

Patent
Pension
Government Relations
Employment Practices
Manpower Planning
Survey Committee
Public Relations
Curriculum/Accreditation
Legal
Technical Forecasting

The PAC meets every third Thursday of every month at Polytechnic Institute of New York (formerly PIB) Graduate Center. The time has been changed to 5:30 P.M. (Cafeteria open for dinner till 6:00 P.M.). For further information call Vic Zourides. 516-586-0740 After 6:00 P.M. 516-575-1641 Before 5:00 P.M.

February 13, 1974

Mr. Louis A. Luceri PAC, LI Section IEEE 660 Grand Avenue Lindenhurst, New York 11757

Dear Mr. Luceri:

In response to your February 5 letter I am enclosing a Xerox copy of my BART article and a follow-up note that appeared in the next issue. (May I suggest that you and your colleagues might wish to get on the mailing list of the CSIT Newsletter, since it includes much material in the area of your interests. Any IEEE member can get on this list, at no charge, by writing to the Newsletter at IEEE Headquarters. The December Issue in particular includes several items that might interest you.)

Regarding your PAC Forum, I have spoken to Dr. William A. Higinbotham of Brookhaven National Laboratories, who is a member of our committee. Assuming that a suitable date can be arrived at, he would be willing to speak at one of your forums. I suggest you contact him directly at Brookhaven Laboratories, Upton, New York 11973, phone - (516) 345-2123.

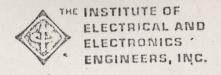
I would also like to invite you and your colleagues to participate in our open forum sessions to be held at the forthcoming IEEE Convention.

Yours truly,

Stephen H. Unger Professor

enc.

cc: Dr. William A. Higinbotham
Brookhaven National Laboratories
Upton, New York 11973



OFFICE OF THE VICE PRESIDENT REGIONAL ACTIVITIES

Robert M. Saunders School of Engineering University of California Irvine, California 92664 Tel. (714) 833-6003

**MEMORANDUM** 

January 5, 1977

TO: LARRY L. STINE

Working Group on Information Technology

Article in CSIT Newsletter December 1976

This is just a short note of appreciation for your very thorough treatment of the question I raised in the IEEE Spectrum for May 1976 on individual privacy with respect to data banks. Articles such as yours do a great deal to inform our members of the state of affairs on subjects such as data banks and personal privacy. Until a more definitive article comes along I shall certainly use yours as a source document. R. In Saundin

Robert M. Saunders

President

RMS:ds

Pantry Fride/rood rair Supermarke

Office of Consumer Affairs

MONA DOYLE DIRECTOR OF CONSUMER AFFAIRS

Jan / S John F. Kennedy Divd. Philadelphia, Pa. 19104 Phone: 215-EV 2-9500

January 3, 1977

Mr. Larry L. Stine Mitre Corp. 1820 Dolley Madison Blvd McLean, VA 22101

RE: Privacy/Social Implications Article

Dear Mr. Stine:

Your article was insightful and very well done. I was especially impressed with the alternative courses of IEEE action which you defined.

I disagree with your conclusion though. The very existence of your committee, the CSIT, warrants a call for more action on this issue than mere dissemmination of legislative developments. What more fundamental, basic, and pervasive social issue is there for a technocracy than privacy? I believe that it is in the interest of the committee and the IEEE that you keep your membership directly informed of the public interest and the public sentiment where privacy is concerned. Fat or lean, there are only seven years between today and 1984. The fall reading on major concerns taken by the Harris poll defined 78% of the American public as very concerned about privacy today and predicting that privacy along with environment would be major issues in their lives in the next decade. In this environment, dissemminating legislative data only may be like sending fiddles to a burning city.

You did such a fine job of consciousness raising and issue defining in the article that I hope you will carry your work further. I'm an IEEE member in dues only these days, but I'll be glad to help you if I can.

Yours truly.

Mona Doyle Director

Consumer Affairs



WEST COAST PATENT OPERATION
460 SIERRA MADRE VILLA
PASADENA, CALIFORNIA 91107
213 - 351-6551

February 6, 1974

Stephen H. Unger Associate Editor, IEEE CSIT Newsletter 229 Cambridge Avenue Englewood, New Jersey 07631

Dear Mr. Unger:

I believe it's a pity that EPC deleted "Refuse to work on projects opposed to your moral values" from item 21 of Proposed Code II.

Isn't that precisely what John Dean's list of "Watergate Lawyers" should have done and known they should have done? Aren't engineers starting from much farther back in terms of achieving professional status than lawyers? Shouldn't they have to try harder?

It is my personal opinion that any engineer who works on a project having morally reprehensible aspects is a whore! Any engineering manager who uses engineers on such a project is a pimp!

Who gutted item 21? Why?

Sincerely,

Gilbert H. Friedman

Attorney at Law (proudly)

Senior Member, IEEE (3595733 -- not so proudly)

ar

February 11, 1974

Mr. Gilbert H. Friedman Burroughs Corporation West Coast Patent Operation 460 Sierra Madre Villa Pasadena, California 91107

Dear Mr. Friedman:

Thank you for your February 6th letter, with which I am of course fully in agreement.

I did not attend the October 17 EPC meeting at which the deletion in question occurred. Only recently, at an EPC meeting on February 5, did I learn about the reasons. Strangely enough, the person apparently responsible is a strong proponent of codes of ethics. As I understand it, his argument was that, until machinery is developed to back up the ethical engineer (he is supporting the development of such machinery), we should not incorporate in the code items that may encourage self-sacrifice. Although I disagree with his argument, I do respect his motives.

At this recent meeting it was decided to re-work the code before pressing the Educational Activities Board to approve it. It is disappointing that further delay will result, but it will give me an opportunity to fight to restore the deleted clause. EPC also decided to investigate the BART case with a view toward possible intervention.

Positive action on these matters can come about only as a result of pressure from IEEE members. May I suggest that a very effective way to exert such pressure is to write letters for publication in such periodicals as Spectrum, IEEE Professional News, and the CSIT Newsletter.

Yours truly,

Stephen H. Unger Professor

# STUDENT BRANCH AT THE UNIVERSITY OF ILLINOIS 247 ELECTRICAL ENGINEERING BUILDING URBANA, ILLINOIS 61801 (217) 333-7401

February 19, 1974

Mr. Stephen Unger 229 Cambridge Avenue Englewood, New Jersey 17631

Dear Mr. Unger:

After receiving your letter of January 31, 1974, I was able to find a speaker for the April 3, 1974 meeting of the IEEE Student Branch at the University of Illinois.

I thank you for your help and hope that I have not caused you any great inconvenience.

Sincerely,

William E. Buford, Jr.

William E. Buford J.

Programs Chairman

# ALBERT EINSTEIN COLLEGE OF MEDICINE YESHIVA UNIVERSITY

Eastchester Road and Morris Park Avenue Bronx, N. Y. 10461

#### INTERDISCIPLINARY PROGRAM

February 25, 1974

Mr. Stephen Unger 229 Cambridge Avenue Englewood, NJ 07631

Dear Steve,

I had originally referred this to Basil Meyers' people at Notre Dame. No response.

What would be productive is if Bruder or Blankenzee could speak there. Perhaps they might be considered "speakers" and travel funds (from IEEE, The University of Illinois Engineering Department, or the Student Chapter) be secured for them.

Yours truly,

Vic

VK:ewr

CC - Peter Edmonds

## Columbia University in the City of New York | New York, N.Y. 10027

DEPARTMENT OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCE

Seeley W. Mudd Bullding

September 20, 1976

Mr. Robert Briskman COMSAT General Corporation 950 L'Enfant Plaza Washington, D.C. 20044

Dear Rob:

At the 9/10/76 meeting of the CSIT, I was instructed to convey to you, for dissimenation as appropriate, our reactions to the USAB 1976 Program Plan and to other recent USAB activities of interest to CSIT.

Regarding the Program Plan, we are disappointed that, in a 30 page document, only one short paragraph is concerned with professional ethics. (This is not to suggest disagreement with the goals outlined in the rest of the plan.)

We regret that the proposed award for ethical behavior under difficult circumstances has apparently been rejected by USAB. Since no member of our committee was invited to present the affirmative case, and since only vague accounts of USAB's deliberations have reached us, we do not know how to modify our proposal so as to accommodate the objectives to it.

CSIT welcomes Policy #7.8 (IEEE Involvement in Matters of Ethical Conduct) recommended to the IEEE Board of Directors by USAB on 8/30/76. However, it is disappointed that USAB has been unable to make more concrete recommendations in an area where it appointed task forces with specific assignments and deadlines 5 months earlier. (Not to mention the work done on this topic over a period of years by USAB's now defunct Ethics and Employment Practices Committee.)

When, in February of 1975, the IEEE Code of Ethics was introduced to the membership by then President Arthur P. Stern, he referred to it as a "living document", and invited comments. Since then, serious proposals for revision have been made by CSIT and other IEEE Committees. It is regrettable that USAB has apparently not seen fit to set up any machinery for reviewing the code and such proposals.

Yours truly,

Stephen H. Unger Professor Mr. Robert Briskman -2- September 20, 1976

CC: J. Malvern Benjamin
R.J. Bogumil
Dr. Richard Emberson
Robert Rivers
Arthur Rossoff
Joel Snyder
Membership of CSIT Working Group on Ethics and Employment
Practices



Please address reply to:

Arthur L. Rossoff Director, Region 1 14 Stafford Drive Huntington Station, NY 11746

9/24/76

Dr. Stephen H. Unger Dept. of Electrical Engineering Columbia University New York, NY 10027

Dear Steve:

I have a copy of your letter of September 20 to Rob Briskman on the matter of USAB action on the Code of Ethics. I am taking the liberty of referring it also to Jim Mulligan and to John Guarrera.

For your information, I am enclosing pages 5 and 6 of the minutes of the USAB meeting of 6/25,26 to acquaint you with some of the relevant proceedings.

To sum up, the two policies with respect to ethical conduct were passed unanimously to the Board. I am happy to report that they were accepted by the Board at its 9/23 meeting.

No action was taken on mechanisms for implementing the policies, but discussion at the 9/23 meeting suggests to me that it may, in part, reach consideration at the next Board meeting in December.

Action on an Ethics Award has been deferred. USAB is split on this.

There is no timetable for consideration of amendments to the Code.

Be assured that I will continue to press these matters. Your keen interest is appreciated.

Sincere]

encl.

Mr. Carroll reminded the members that a subcommittee of the Board of Directors is surveying the membership to determine attitudes toward the control of the quantity and quality of engineers. Mr. Carroll asked for assistance and input from the members of the USAB.

Code of Ethics There was discussion of the concept of an ethical conduct review board. In summary, the tentative recommendations were:

1) Establish an ethical conduct review committee to investigate alleged violations of the Code of Ethics. The committee, in finding a violation, would then refer the matter to the USAB for adjudication in accordance with a prescribed set of procedures, and 2) Establish a procedure to aid members who abide by the Code of Ethics and are subsequently discharged or otherwise penalized by their employers.

Mr. Rossoff pointed out that the original publication in SFECTRUM of the Code of Ethics was accompanied by a statement by then President Stern to the effect that the Code was susceptible to amendment and that suggestions for changes were solicited. The Ethics and Employment Practices Committee subsequently undertook to compile such suggestions from all sources with the intention of offering such an amendment. Suggestions were accumulated from letters to Forum, personal correspondence, Committee on Social Implications of Technology (CSIT), etc. In the view of the Committee, certain of these suggestions had merit and deserved consideration. Mr. Rossoff urged that USAB pick up this task and that an amended Code be contemplated.

Upon completion of the discussion of the Code of Ethics, the Chairman deferred further Program review in order to circulate information pertaining to the 1976 budget which would be needed for discussion during the next day. Following a brief discussion of the budget material, at 10:45 p.m. the meeting was recessed until 8:00 a.m. on June 26, 1976.

#### 4.0 SECOND CALL TO ORDER AND ROLL CALL

The United States Activities Board reconvened in the Bombay Room on June 26, 1976. Chairman Mulligan called the meeting to order at 8:05 a.m.

Mr. Eric Herz joined the members present on the previous day. Mr. Goldenstern and Ms. Peden were absent. Mr. Jerome J. Suran joined the meeting during Minute 7.0.

The Chairman asked Mr. Guarrera to continue the review and discussion of the 1976 program.

#### 5.0 REVIEW AND DISCUSSION OF 1976 PROGRAM (continued)

Ethics Award Proposal Mr. Guarrera described the Ethics Award proposal prepared by a USAB task force under the direction of Mr. Victor Zourides, acting on recommendations contained in a letter from the Committee on Social Implications of Technology (CSIT). There was considerable discussion of the genesis and background of the proposal.

It was the consensus of the USAB that action be deferred on this proposal until other issues involving the general area of ethics are resolved.

Some members of the USAB felt that the entire Code of Ethics program should be eliminated from USAB activities and, instead, be funded and operated by the Institute since the issue is not limited to the U.S.

No consensus was reached.

Government Decision-making Mr. Guarrera discussed the projects under Goal IV. He described his recent testimony before the Democratic Platform Committee, as well as activities involving Senate Resolution 109 (which created the Select Committee to Reorganize the Senate) and patent legislation.

It was the consensus that the current program is satisfactory.

Congressional Fellows Mr. Middleton read a letter he had received from the Power Engineering Society complaining about the time taken to appoint their candidate for the Congressional Fellows program. The Chairman indicated that the agenda material on this subject was specifically designed to avoid similar situations in the future.

Further discussion was deferred.

<u>USILA</u> (United States Intersociety Legislative Advisory) Project Mr. Guarrera reported on the status of the USILA task and indicated that the first draft of a "how to" booklet has been prepared. The booklet will be available to Sections for use in developing similar local programs. In recent months, the focus of this project's activities has been on energy conservation. It is recommended that USILA be used by regions outside Region VI as a clearing house for technical needs and resources. The mid-year report (January 1-June 30, 1976) on this project will be mailed to the USAB by the West Coast Office this month.

It was the consensus of the group that the current activity is satisfactory.

Professional Value Study/Opt Out Study It was the consensus of the USAB that the consultant's work should be accelerated so that the task can be concluded as soon as possible. Mr. Kinn was requested to write to the consultant asking for his plans for completion of the projects and for the submission of monthly reports, beginning in July.

Communications Mr. Cotellessa, Communications Coordinator, augmented his written report (Attachment E) by indicating that all requests for speaking engagements pertaining to USAB activities are being coordinated by Ms. Dorothy Bomberger of the Washington Office. Mr. Cotellessa requested that Ms. Bomberger be notified of <u>all</u> such requests, whether made directly to him or not.



Robert D. Briskman
VICE PRESIDENT, TECHNICAL ACTIVITIES

October 4, 1976

Mr. Stephen H. Unger
Professor
Columbia University of New York
Department of Electrical Engineering
and Computer Science
New York, New York 10027

Dear Steve,

Thank you for your letter of September 20 expressing some concerns of CSIT, particularly with regard to lack of USAB emphasis and activity on the matter of ethics. I unhappily recognize this is a long standing problem as your past letters and conversations have not been forgotten.

I am forwarding this letter, by correspondence copy, to Jim Mulligan. Jim has expressed several times USAB's interest in the matter of ethics, the last time being at the September 23 Board of Directors meeting. USAB has undertaken many activities, has several pressing problems and must balance widely diverse interests. Your efforts on ethics, in part, may be a victim of priority and lack of resources.

It would be most constructive if Jim can arrange an appropriate diologue with those concerned in USAB to implement some definitive course of action which would achieve progress on this front.

Sincerely,

Rola

RDB/vt

cc: Dr. James H. Mulligan Mr. J. Malvern Benjamin



#### UNITED STATES ACTIVITIES BOARD

2029 K Street N.W. Washington, D.C. 20006 (202) 785-0017

Telecopier 202/785-0835

October 21, 1976

Prof. Stephen H. Unger
Department of Electrical Engineering
and Computer Science
Columbia University in the
City of New York
New York, New York 10027

Dear Professor Unger:

I am writing in reference to your letter to me of May 26, 1976, and your letter to Vice President Briskman of September 20, 1976. Both of these letters, of course, relate to the interest of the Committee on Social Implications of Technology (CSIT) in matters of ethical behavior and Institute action responsive to these interests. In spite of your disappointment noted in the letter of September 20, 1976, to the effect that "Regarding the Program Plan, we are disappointed that, in a 30-page document, only one short paragraph is concerned with professional ethics," I believe that 1976 has been a year of substantial accomplishment insofar as dealing with matters of ethics is concerned. In particular, I am pleased to report that at the meeting of the IEEE Board of Directors on September 23 the following two policy recommendations from the United States Activities Board (USAB) were approved by an overwhelming majority:

#### Policy 7.8 IEEE Involvement in Matters of Ethical Conduct

- A. Infractions of the Institute's Code of Ethics by members, when reported to and investigated and evaluated by the Board of Directors, or its designated representative, are subject to appropriate action by the Institute's Board of Directors on the basis of procedures established by that body.
- B. Members who are placed in jeopardy as a consequence of adherence to the Institute's Code of Ethics may be offered assistance, provided that, in the opinion of the Board of Directors, or its designated representative, such assistance is warranted.

From your letter of September 20, 1976, I note with regard to the feelings of CSIT in this matter that "...it is disappointed that USAB

has been unable to make more concrete recommendations in an area where it appointed task forces with specific assignments and deadlines 5 months earlier (not to mention the work done on this topic over a period of years by USAB's now defunct Ethics and Employment Practices Committee)." On the contrary, I am very pleased and proud that because of the many hours of hard work by you and your committee, as well as John Guarrera's continued interest and representation of your points of view at the meetings of the USAB this year, we have been able to accomplish the action by the Board of Directors reported above.

Any individual IEEE member such as yourself may occasionally feel disappointed in the perception that the IEEE does not move fast enough nor take what is viewed as adequate action in a matter of deep personal concern. From my standpoint, however, the Institute consists of a truly enormous diversity of opinion which is represented to a large degree in the views of the members of the Board of Directors. In my considered judgment, the action by the Board in approving the policy statements I have quoted is a substantial step forward in the further recognition of the importance of ethics in Institute affairs and a tangible action based on this recognition. The combination of the adoption of the IEEE Code of Ethics in 1975 and the adoption of the policy statements provides a basis for further definitive action which has already been begun by the USAB. It will be necessary to establish procedures and practices to implement the policy statements, to provide adequate financial support for the necessary follow-through actions and to provide an orderly means for necessary revisions of the Code of Ethics to which reference has been made in the concluding paragraph of your letter of September 20.

I believe that I can understand your reasons for concluding "It is regrettable that USAB has apparently not seen fit to set up any machinery for reviewing the code and such proposals." I assure you that I, in my role as Chairman of the USAB, am very much interested in making further progress in the Institute in this important area. It is my opinion that there is substantial support within the USAB for moving ahead in this connection. But to make even what you and your associates on CSIT may view as the limited progress that we have made this year in matters of ethical concern has required an enormous amount of effort in identifying the areas of agreement among the USAB members and among the individuals who comprise the Board of Directors of the Institute.

Most of the subject areas with which the USAB has concerned itself in 1976 require sustained diligence over a period of years in order to achieve the goals to which many members aspire. In my judgment, success on the part of the Institute in improving the professional status of the individual engineer will come only as a result of continued effort of the kind which you and your colleagues comprising the Committee on Social Implications of Technology have devoted unselfishly in the last several years.

As an officer of the Institute, I thank you for the contributions which you have made, and I ask your patience and indulgence as well as your continued support in Institute affairs which are designed to achieve goals which we both seek.

Cordially yours,

J. H. Mulligan, Jr.

Vice President for Professional

Activities Chairman, USAB

Copies to J. M. Benjamin

R. J. Boagumil

R. D. Briskman

A. S. Hoagland

J. M. Kinn

Members of the USAB



#### WASHINGTON, D.C., OFFICE

2029 K Street N.W. Washington, D.C. 20006 (202) 785-0017

January 3, 1977

Mr. Steve Unger
Dept. of Electrical Engineering
and Computer Science
S. W. Mudd Building
Columbia University
New York, New York 10027

Dear Mr. Unger:

The 1976 USAB Program Plan was organized around five major goals and numerous supporting tasks. Several task forces were established to implement the various tasks.

As a member of USAB and the Program Coordinator in 1976, I had the opportunity to work with each of you. I am very encouraged by the progress we made toward meeting USAB's Goals and want to express my personal thanks for the time and effort you contributed to the implementation of the 1976 Program Plan.

The 1976 task force activity is now terminated with the conclusion of the 1976 Program Year, but it is my intention to reappoint many of these task forces and committees. I would appreciate your letting me know by January 15, 1977, whether you are interested in continuing to serve on a USAB task force or committee in 1977. Enclosed is a table of contents from our 1977 USAB Program Plan which provides an overview of the major goals and projects we will work to implement in 1977.

Again, Mr. Unger, let me express my appreciation for your contribution of time and interest during 1976. I look forward to hearing an expression of your interest and willingness to serve again in 1977.

Sincerely,

John J. Guarrera

Vice President for Professional

Activities Chairman, USAB

**Enclosures** 

The Institute of Electrical and Electronics Engineers, Inc.

UNITED STATES ACTIVITIES BOARD

1977 PROGRAM OUTLINE

November, 1976

2029 K Street, N.W., Washington, D.C. 20006 (202) 785-0017

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Columbia University in the City of New York | New York, N.Y. 10027

DEPARTMENT OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCE

Seeley W. Mudd Building

January 5, 1977

Mr. John J. Guarrera Chairman, USAB IEEE 2029 K Street, N.W. Washington, D.C. 20006

Dear John:

In response to your recent letter, I am indeed interested in participating actively in USAB's 1977 program.

My principal interests are in the development of procedures for supporting engineers who get into trouble as a result of their adherence to the code of ethics, and in possible revisions of the IEEE Code of Ethics.

I look forward to a fruitful year for USAB.

Yours truly,

Stephen H. Unger Professor

SHU: adg

January 7, 1977

Dr. Stephen B. Dobrow 3%-40 56th Street Woodside, New York 11377

Dear Dr. Dobrow:

You may recall our conversation a few weeks ago concerning the possibility of your writing an article for the IEEE CSIT Newsletter and/or participating in other ways in CSIT activities. This is to invite you (if you haven't already received an invitation via other channels) to the next CSIT meeting, which will be on Saturday. January 22 at 10:00 A.M. in the Engineer's Club, 32 West 40th Street, Manhattan.

Regarding the Newsletter, articles should be sent to our new editor: Mr. Frank Kotasek

23 Hedges Avenue

E. Patchogue, New York 11772

I hope you will be able to join forces with us.

Yours truly,

Stephen H. Unger Professor

SHU: adg



#### Committee on Scientific Freedom & Responsibility

ROSEMARY A. CHALK Staff Officer

American Association for the Advancement of Science 1776 Massachusetts Avenue, N.W. Washington, D.C. 20036

# American Association for the Advancement of Science

1776 MASSACHUSETTS AVENUE, NW, WASHINGTON, D. C., 20036

Phone: 467-4400 (Area Code 202)

Cable Address: Advancesci, Washington, D. C.

January 10, 1977

Professor Stephen H. Unger Electrical Engineering and Computer Science S. W. Mudd Building Columbia University New York, New York 10027

Dear Professor Unger:

I was greatly interested by the December CSIT Newsletter report of the decision to review and investigate individual cases of controversies involving engineering ethics.

The American Association for the Advancement of Science has appointed a new standing Committee on Scientific Freedom and Responsibility, which held its first meeting in October. I enclose an article from Science which describes the various subcommittees appointed at that meeting, and call to your attention the description of our second subcommittee, titled "Infringements of Scientific Freedom in the U.S. -- Individual Appeals." This subcommittee is also developing procedures for reviewing individual cases involving issues of ethics or scientific freedom, and plans to establish a clearinghouse through which such individual cases might be sent to an AAAS affiliate for their direct investigation. Dr. Jeremy J. Stone of the Federation of American Scientists is the chairperson for this subcommittee, and its other members are listed in the enclosure detailing each subcommittee activity.

Can you send me a copy of the membership of the CSIT Working Group on Ethics and Employment Practices and further information on the decision to review individual cases? If possible, could you also provide brief information on individual cases which may have already come to the attention of your Working Group?

I believe an exchange between our two groups would be mutually profitable, and look forward to your response.

Sincerely,

Rosemany A Chalk Rosemany A. Chalk

Staff Officer

Committee on Scientific Freedom and Responsibility

RAC:bd

Enclosures

cc: Dr. Jeremy J. Stone

Dr. Frank von Hippel

Dr. Leo Fanning, IEEE



Undegraded desert vegetation in the erg of Djenein, southern Tunisia (elevation, 200 to 400 meters; rainfall, 50 to 70 millimeters). Barkhans on a lime crust support the growth of Calligonum comosum, Aristida pungens, and Helianthemum confertum subspecies brachypodum. [From Arid Lands in Transition (AAAS, Washington, D.C., 1970)]

# **Arid Lands Activities**

Desertification—the spread or intensification of land degradation in arid and semi-arid regions due to climatic changes or human activities—is occurring at an alarming rate around the world.

In an effort to foster international scientific cooperation and to assist in development of a worldwide effort to combat desertification, AAAS is undertaking a series of activities which will revolve around the upcoming United Nations Conference on Desertification.

This project will be located in the AAAS Office of International Science and will be under the direction of a special Advisory Committee. Chaired by Harold E. Dregne of the International Center for Arid and Semi-Arid Land Studies, Texas Tech University, Lubbock, Texas, the Committee will be inter-

#### SB&F Needs Reviewers

Science Books & Films needs additional reviewers for elementary level films on psychology, mathematics, zoology, nutrition, and medicine. Reviewers are also needed for high school and college level films on child development, human sexuality, special education, sociology, and space sciences. Films to be reviewed are 16mm, and reviewers must have access to appropriate equipment. Interested scientists and teachers should respond to the Editor, Science Books & Films, AAAS, Sixth Floor, 1776 Massachusetts Avenue, NW, Washington, D.C. 20036.

disciplinary in nature and will include the chairmen of the Committee on Arid Lands and the Committee on Desert and Arid-Zones Research. Priscilla Reining, an anthropologist with extensive experience in Africa, will be project director within the AAAS Office of International Science.

Activities scheduled to date are an international strategy meeting of arid land scientists in Italy in June; a 3-day symposium of international scientists immediately preceding the August-September 1977 U.N. Conference in Nairobi, Kenya; and the identification and development of global research projects to assist in the implementation of the U.N. World Plan of Action.

In addition, a Directory of Arid Land Scientists in North America and a world-wide Directory of Arid Land Institutions are being prepared for the U.N. Conference at the Office of Arid Lands Studies, University of Arizona.

Educational and public information activities also are expected to be undertaken within the project.

In addition to Dregne, members of the Committee are Alonzo C. Atencio, Department of Biochemistry, University of New Mexico Medical School; Marion Baumgardner, Laboratory for Applications of Remote Sensing, Purdue University; John W. Bennett, Department of Anthropology, Washington University; Bahe Billy, Farmington, New Mexico; Thadis W. Box, College of Natural Resources, Utah State University; Carl N. Hodges, Environmental Research Laboratory, University of Arizona; Helen Ingram, Institute of Government Research, University of Arizona; Robert W. Kates, Programme in International

Development and Social Science, Clark University; Jack D. Johnson, Office of Arid Lands Studies, University of Arizona; William E. Martin, Department of Agricultural Economics, University of Arizona; J. D. McQuigg, Columbia, Missouri; D. F. Peterson, vice president for research, Utah State University; M. L. Riedesel, Department of Biology, University of New Mexico; and Calvin H. Raullerson, International Center for Arid and Semi-Arid Land Studies, Texas Tech University.

# Persecution, Limits to Scientific Freedom to Be Studied by Committee

The boundaries of scientific freedom, alleged persecution of scientists at home and abroad, professional and social responsibilities of the scientist, and freedom of science teaching have been identified as subject areas for new subcommittees created by the Committee on Scientific Freedom and Responsibility.

The five working groups, named during the Committee's first meeting in Washington, D.C., 8 and 9 October, are the Subcommittee on Infringements of Scientific Freedom in Foreign Countries; Subcommittee on Infringements of Scientific Freedom in the United States—Individual Appeals; Subcommittee on the Boundaries of Scientific Freedom—Ethical and Legal Limits; Subcommittee on Professional and Social Responsibilities of Scientists; and Subcommittee on Freedom of Science Teaching.

Several projects to be developed by the subcommittees were discussed during the full Committee meeting. In particular, activities will include establishment

#### Note to Members

In the course of the current AAAS membership recruitment campaign, an occasional membership invitation letter reaches someone who is already a member of the Association. This occurs because very high costs involved make it impossible to purge all the lists used to eliminate mailings to our current members. The Membership Recruitment Office asks all members to bear with this situation and apologizes for any inconvenience caused by it.

of a clearinghouse and referral function by the first subcommittee, which will serve as a focus for allegations of repression or persecution of scientists in foreign countries. The group addressing this issue will develop a referral system by which an individual allegation may be referred to the appropriate affiliate of AAAS for attention and by which reports may simultaneously be drafted for examination by the full Committee in an effort to identify significant patterns or issues arising from individual allegations.

A second project of the Committee will be a referral system for individual appeals on infringements of scientific freedom in the United States. The subcommittee charged with this activity will develop a referral system similar to that described above to allow for simultaneous study of issues of concern arising

#### \$100,000 in Bequests

A check for \$98,337.03 representing the final distribution from the probate estate of the late Charles M. Goethe was received by AAAS in August. The check brought the total amount received from Mr. Goethe's estate to \$472,380.35. Mr. Goethe had joined AAAS in 1914, becoming a 50-year member in 1964. He had made quarterly contributions to the Association for support of research by selected academies of science from 1944 until his death on 10 July 1966.

An additional check for \$1000 came to AAAS in August as a bequest of the late Setrak K. Boyajian of Hudson, Massachusetts, who had joined the Association during its centennial year, 1948.

from appeals. The Committee's charter allows for direct review by the subcommittee or full Committee of selected appeals in exceptional circumstances.

During its meeting, the Committee concurred that science is not an unbounded activity and that the limits to scientific freedom are necessarily negotiated between the scientists and the society in which they work. Committee members voiced their concerns that this process of negotiating the parameters of scientific freedom poses a critical issue for the scientific community at this time, due to several recent examples in which either representatives of society or the scientific community have made seemingly arbitrary decisions as to where the boundaries should be. In order to examine this negotiation process more fully. the subcommittee will collect and, where necessary, prepare case studies which highlight specific examples of the limits of scientific freedom. The subcommittee also will question whether or not the professional societies have a role to play in determining these boundaries.

An examination of the professional and social responsibilities of the scientist will be the fourth project of the Committee, with a particular review of the process known as "whistle-blowing"when, for example, an employee decides that a concern for public welfare supersedes allegiance to his or her employers and acts on that resolve by informing outsiders of illegal or irregular activities within the organization. The subcommittee involved in this review will work with the professional societies in developing guidelines for determining when a "whistle-blower" needs outside support and the ways in which such support could be provided.

Because of recent attacks on science education, the Committee also will examine the basic rights associated with science education as a distinctive case in scientific freedom. The subcommittee on science teaching will examine various aspects of this subject, such as the preparation of textbooks and other teaching materials related to science curricula. The subcommittee will examine the political pressures resulting from public groups who are hostile to the teaching of certain scientific principles and will consider how best to meet these political pressures on legislative and funding agencies.

The five subcommittees will meet informally during the next several months. A second meeting of the full Committee will be held during the AAAS annual meeting in Denver and will be open to the public. The Committee will sponsor

an annual meeting symposium entitled "Case Studies in Scientific Freedom and Responsibility" and urges all persons interested in the above projects to attend this symposium and to offer their views and comments on the Committee's directions.

The 13-member Committee on Scientific Freedom and Responsibility is chaired by H. Bentley Glass, editor of the Quarterly Review of Biology and a former president of AAAS. In addition to the members named previously (see "AAAS News," Science, 3 September 1976, page 877), two other persons have been appointed to 2-year terms. They are Joel Primack, assistant professor of physics, University of California, Santa Cruz, and Jessica Tuchman, biologist and staff member, office of Rep. Morris K. Udall.

# Regional Seminars Scheduled

"High Level Radioactive Waste Management," cosponsored by AAAS and the Michigan Sierra Club, will be held on Wednesday, 8 December, at the Lansing (Michigan) Civic Center. Four panel presentations, each followed by questions from the attending public, will focus on the following topics: the nuclear fuel cycle-where and how wastes are generated; public concerns over current proposals for disposal of high level radioactive wastes; the Michigan energy picture, including opposing views on whether nuclear power is necessary for the future energy needs of the state; and a review of the decision-making process in the waste management area of nuclear technology. For information, call the Michigan Sierra Club at (517) 487-8382 or the Michigan Students Environmental Foundation at (517) 484-7421.

"Living with Seismic Risk: Strategies for Urban Conservation" will be held on Friday, 10 December, at Casa del Prado. Balboa Park, San Diego, California. The issues in question involve building codes in earthquake hazard areas and the problem of older buildings that are sometimes of historical importance, that often house large segments of low-income populations, and that do not meet stringent seismic safety codes. Sponsoring the seminar along with AAAS are the San Diego Chapter of the American Institute of Architects, several San Diego city government agencies, the Save Our Heritage Organisation, and the San Diego Gaslamp Quarter Task Force. For registration information, call Marti Bundy, (714) 732-0109.

#### Committee on Scientific Freedom and Responsibility

#### Subcommittees

1. Subcommittee on Infringements of Scientific Freedom in Foreign Countries

John Edsall (Chairperson)
Joel Primack

2. Subcommittee on Infringements of Scientific Freedom in the United States--Individual Appeals

Jeremy J. Stone (Chairperson)
Harold P. Green
Frank von Hippel
Peter Petkas

3. Subcommittee on the Boundaries of Scientific Freedom--Ethical and Legal Limits

\*Harold P. Green (Chairperson)
M. King Hubbert
Charles Mosher
\*Joel Primack
Dael Wolfle

4. Subcommittee on Professional and Social Responsibilities of the Scientist

\*Frank von Hippel (Chairperson)

\*M. King Hubbert

\*Peter Petkas

\*Jeremy J. Stone

Jessica Tuchman

5. Subcommittee on Freedom of Science Teaching

William Bevan (Chairperson) H. Bentley Glass Jane Oppenheimer

6. Steering Committee

\*H. Bentley Glass (Chairperson)
William D. Carey
Rosemary Chalk

<sup>\*</sup> Indicates dual assignment

#### Synopsis

#### Subcommittee Jurisdictions

1. Subcommittee on Infringements of Scientific Freedom in Foreign Countries

This subcommittee will serve as a focus for allegations of repression or persecution of scientists in foreign countries. These allegations may include violations of the human rights of scientists, particularly those rights which are of special importance to their profession, as listed in the working group report prepared by the Council on Science and Society in England. Briefly, these rights would include the following:

- \* the right to education
- \* the right to employment
- \* protection of scientific production
- \* freedom of expression and opinion
- \* freedom of movement and residence
- \* freedom of entry
- \* freedom of assembly and association

Allegations of repressions of foreign scientists may come before this subcommittee in various ways: 1) through government reports, including congressional hearings; 2) through scientific journals or public media;

- 3) through private correspondence to the Committee members or office; or
- 4) through referral by an individual Committee member.

The subcommittee will develop a clearinghouse function for the full Committee. This function will include the following activities:

- Drafting letters for <u>Science</u> and other journals announcing the formation of the subcommittee and requesting information from the readers regarding repressions or persecutions of individual scientists in foreign countries;
- 2) Developing a specific set of criteria regarding the "kinds of information" which should be sent to the clearinghouse;
- 3) Developing a set of procedures for assisting the affiliates of AAAS in their examinations of allegations of these repressions on scientists within the discipline of their society;
- 4) Developing a referral system by which an allegation may be referred to the appropriate affiliate for attention. This system should include some feedback to the Committee office on action taken by the affiliate.
- 5) Establishing and maintaining liaison between the full Committee and the NAS Advisory Committee on Human Rights and the British Council on Science and Society and other appropriate groups;
- 6) Drafting background reports for the full Committee which examine the significant issues arising from these individual allegations which would be of concern to the American scientific community;
- 7) Drafting appropriate resolutions or expressions of concern for the AAAS Board or Council where a particular situation requires a formal statement from these bodies.

2. Subcommittee on Infringements of Scientific Freedom in the United States--Individual Appeals

This subcommittee will serve as a focus for individual appeals of infringements of scientific freedom in the United States. The subcommittee will develop criteria and procedures for referring these appeals to the affiliates, as well as a process for identifying the significant issues arising from the individual allegations and documentation which may be of importance to the larger scientific community.

Individual appeals may by received by the subcommittee in various ways: 1) through direct communication between the individual and the subcommittee or Committee; 2) through referral by individual members of the Committee or the Executive Officer; 3) through government reports, including congressional hearings; or 4) through scientific journals or public media.

The functions of the subcommittee will include the following:

 Developing a referral system by which an appeal may be referred to the appropriate affiliate for attention. This system should include some feedback to the Committee office on action taken by the affiliate.

2) Developing a specific set of criteria outlining the exceptional circumstances which will indicate when an appeal should be reveiwed directly by the subcommittee or full Committee:

3) Developing a form listing the "kinds of information" which should be sent to the affiliate by the individual;

4) Drafting background reports for the full Committee examining the significant issues arising from these individual appeals which would be of concern to the scientific community;

5) Drafting letters for <u>Science</u> and other journals announcing the formation of the <u>subcommittee</u> and requesting information from the readers regarding particular appeals involving issues of scientific freedom and responsibility.

3. Subcommittee on the Boundaries of Scientific Freedom--Ethical and Legal Limits

This subcommittee will examine how the boundaries of scientific freedom are negotiated in research activities. It is based on the premise that science is not an unbounded activity; instead, the limits to scientific freedom are negotiated between the scientists and the society in which they work. It is understood that the boundaries of scientific freedom are affected by the values of society and the values of science. In some cases these values work in harmony, yet there are also examples of adversarial relationships. These values may change over time, and the boundaries agreed to in one era may not be acceptable to a new generation of scientists or the public.

The consensus of the Committee is that the process of negotiating the boundaries of scientific freedom is a critical issue for the scientific community at this time. There are many recent examples where either society or the scientists have made seemingly arbitrary decisions as to where the boundaries of a research activity should be, and neglecting the consideration of the values of the other party has led to criticism, distrust, and sometimes harmful effects for both groups. Examples of issues which involve this negotiation process would include the ban on fetal research, the Cambridge City Council moratorium on DNA research, the need for licensing in atomic energy research, and the DNA guidelines procedure. It is possible that such issues as informed consent in human experimentation, the use of animals in experimentation, and others might also be included here.

The subcommittee will collect and, where necessary, prepare case studies which highlight the above illustrations, specifically examining the negotiation processes involved. Once the major elements of this process are more clearly understood, the subcommittee will then question whether or not the professional societies have a role to play in determining these boundaries. If such a role is clearly defined, the subcommittee will then develop some procedures for how the societies might develop this role.

It is suggested that this subcommittee develop a liaison activity with the AAAS Committee on Public Understanding of Science in order to more fully examine the need for public education and awareness of these issues.

4. Subcommittee on Professional and Social Responsibilities of the Scientist

This subcommittee will examine the responsibilities of scientists, both in terms of the responsible conduct of scientists and the social responsibility of scientists. The subcommittee will review the various procedures which have been established by the professional societies for developing guidelines for responsibilities in both areas for educating their members on how to interpret these guidelines and for helping them live up to these guidelines, and will make a judgment as to whether these guidelines and procedures on the whole are adequate.

Working on the assumption that social responsibility of scientists is an activity which should be encouraged, the subcommittee will examine various illustrations of how individual scientists or engineers have exercised their concept of social responsibility. They will evaluate the potential of a range of contributions by the professional societies and outside groups in these examples, and determine what protective mechanisms are required in order to encourage scientists to speak out on controversial issues where they have some contribution to offer.

In particular, the subcommittee will examine the process known as "whistle-blowing" -- where, for example, an employee decides that a concern for public welfare supersedes allegiance to his or her employers, and acts on that resolve by informing outsiders of illegal or irregular activities within the organization. The subcommittee will work with professional societies and other groups in developing guidelines for determining when a whistle-blower needs outside support and the ways in which such support could be provided.

#### 5. Subcommittee on Freedom of Science Teaching

Because of recent attention to the concerns of various public groups which are focused as attacks on science teaching, this subcommittee will examine the basic rights associated with this field as a unique case in scientific freedom. This subcommittee will also deal with the secondary aspects of science education, including such items as preparation of textbooks, evaluation of scientific content in primary and secondary education programs, and other teaching materials.

The subcommittee will develop procedures for reviewing the criticisms of science teaching, particularly those criticisms offered by groups in local communities who attempt to ban certain materials or concepts from the education process in their schools. In specific fields it appears that the attitude of some public groups is hostile to the teaching of central scientific principles and theories, such as those associated with evolution, human reproduction, sex, population, genetics, and racial differences. The subcommittee will examine the political pressures resulting from these groups and will consider ways in which the professional societies can respond to the lobbying pressures of these groups on legislative and funding agencies. It is the primary concern of the subcommittee to meet and respond to the criticisms of various groups on the teaching of science, when such criticisms challenge the basic scientific principles involved.

# Columbia University in the City of New York | New York, N.Y. 10027

DEPARTMENT OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCE

Seeley W. Mudd Building

off 229226 of beliggue 25% no February 2, 1977 ton bus 22222 welv

Ms. Rosemary A. Chalk
Committee on Scientific Freedom and Responsibility
AAAS
1776 Massachusetts Avenue, N.W.
Washington, D.C. 20036

Dear Ms. Chalk:

This is in response to your January 10 letter enquiring about the activities of the IEEE CSIT in the area of ethics and employment practices.

Since you are apparently receiving our Newsletter, I won't repeat information already appearing there. (Note that we are required to obtain, in writing, requests from readers to continue receiving that publication. Such requests from non-members of IEEE - i.e. your committee - will be honored).

Our decision to review individual cases resulted from a judgement that progress by IEEE's US Activities Board (USAB) toward establishing such procedures on a major scale is at an unsatisfactorily slow rate. While USAB passed a resolution which the IEEE Board of Directors endorsed this past September affirming that the IEEE should act to support members whose adherence to the code of ethics gets them into trouble, there is little indication of a serious intention to implement that policy. I have participated actively for about 4 years in USAB's activities in the field of ethics and continue to do so. However, an indication of the priority assigned to this area is the fact that, 3 1/2 months after the action of the Board of Directors referred to above, I received a form letter from USAB's Chairman asking if I wished to continue working on USAB's program and asking which areas I'm interested in. To this date. I am aware of no moves that have been made toward developing procedures to implement the aforementioned policy. This despite the fact that proposals along these lines were developed several years ago by a (now defunct) committee of USAB. Thus, while I shall continue to work with USAB, it is evident that this body (funded by a \$10 per year assessment from all US members of IEEE) is not overly anxious to press this matter.

February 2, 1977-Ms. Rosemary A. Chalk Thus far, we have received only one response to our offer to review cases, and not enough information was supplied to assess the nature of the case. I brought your letter to the attention of CSIT at our last meeting, and the consensus was that cooperation with your committee would be most desirable. There is clearly a large area of common concern. Our next meeting is tentatively scheduled for Saturday, March 12 from 10:00 A,M. to 3:00 P.M. at the Engineer's Club in Manhattan. Please notify our Chairman, J. Malvern Benjamin (see Newsletter for address) if you would like to send a delegate to act as a liason person with your committee. Enclosed is a copy of the mailing list you requested. I look forward to a useful collaboration. tain, in writing, requestruly, super emitted at a said publication. Such requests from non-members of IEEE - i.e. your com-Stephen H. Unger Professor Professor bers whose adherence to the code of ethics gets them into trouble, the SHU:adg and templement of motion of a serious intention to implement that a pbil I have participated actively for about 4 years in USAB's activitional CC: J.M. Benjamin R.J. Bogumil avois to berreters referred to brack and to notice and

February 16, 1977

Mr. J. Malvern Benjamin, Jr. Bionic Instruments, Inc. Bala Cynwyd, Pennsylvania 19004

Dear Mr. Benjamin:

Professor Stephen Unger has graciously invited a delegate from the AAAS Committee on Scientific Freedom and Responsibility to participate in the next meeting of the IEEE/CSIT Working Group on Ethics. I understand that this meeting has been scheduled for Saturday, March 12, at the Engineer's Club in Manahattan.

The Committee will plan to send a delegate to this meeting, and as soon as our liaison person has been appointed I will send the name on to you. This liaison will be discussed during the next meeting of the Committee (February 20-21) in Denver, and you will be notified of our plans by early March.

We also look forward to a useful collaboration between our two activites and these convergent interests improfessional and social responsibility.

Sincerely,

Rosemary A. Chalk Staff Officer Committee on Scientific Freedom and Responsibility

cc: S. Unger

June 2, 1978

Stephen H. Unger Dept. of EE & CS Columbia University New York, NY 10027

Dear Steve.

Thank you very much for sending the T&S bibliography. In reviewing it I could not determine which book would be the one you had mentioned that you used as a textbook. I do plan on ordering several of those you recommended.

My specific reason for seeking some type of textbook is that it has been only recently that I started concentrating on the issue of T&S. As I started my investigation I became aware that there was so much written material in so many forms and on so many related subjects that it just creates a mass of confusion in ones mind. So in an attempt to avoid the confusion and start off slowly on the subject, I started looking for a textbook.

I am not at all sure that such a textbook exists and indeed it may not be practical to confine a topic like T&S to a textbook. I should mention that I see the primary need for a textbook for use by practicing engineers as opposed to students and engineering faculty. The practicing engineer does not normally have access to libraries and other resources that are available on a university campus.

I have been reviewing back issues of the newsletter which Frank Kotasek sent me. This has been very helpful in getting a feel for the development and activities of CSIT. Again, I could not find among the book reviews a "textbook" on T&S.

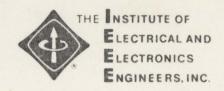
One of the problems is that T&S is very subjective and is a hot subject to handle -- particularly with engineers who take pride in being very objective. In thinking about how to approach this problem it occurred to me that perhaps a first step would be a book like "Moral Choices in Contemporary Society" of which I have enclosed copies of a few pages. The approach used in this book is to reprint parts of a number of articles on a given subject while trying to cover the spectrum of opinions on the subject. It is therefore a thought-provoker and discussion-starter which may be just what is needed for a T&S textbook.

I would appreciate your thoughts on this and if you would like to see the Moral Choices book I could bring it to the June meeting which I plan on attending.

Terry L. Hewitt

DORF TECHNOLOGY SOCIETY
Boydet France.
3627 SACREMENTO St.

SM FRMC. CAL. 94118



345 EAST 47TH STREET, NEW YORK, N.Y. 10017 AREA CODE 212 644-7869

Ivan A. Getting President

28 August 1978

Mr. James F. Fairman, Jr. Rowley, Green, Hochberg and Fairman 1990 M Street, NW Washington, DC 20036

Dr. Stephen H. Unger Dept. of Electrical Engineering & Computer Sciences Columbia University New York, NY Mr. Ellis Rubinstein IEEE 345 East 47 Street New York, NY 10017

#### Gentlemen:

We have recently instituted a new bylaw and procedures for the review by the IEEE of complaints against members and for investigating alleged inequities resulting from members' adherence to the IEEE Code of Ethics.

Under the latter category there appeared a report in THE INSTITUTE of an interview granted by Dr. Unger. There was the general feeling expressed by the Executive Committee of the Board of Directors on August 27 that the publication of this interview was not consistent with the spirit of confidentiality as described in the bylaws and procedures.

It is generally accepted that meticulous adherence to the spirit of the bylaw and procedures is essential to the best interests of IEEE and its members.

We all appreciate your continued effort in support of this work.

Sincerely,

Iran G. Selling

IAG:bis

4



#### 345 EAST 47TH STREET, NEW YORK, N.Y. 10017 AREA CODE 212 644-7869

Ivan A. Getting President

28 August 1978

Mr. James F. Fairman, Jr. Rowley, Green, Hochberg and Fairman 1990 M Street, NW Washington, DC 20036

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It is generally accepted that meticulous adherence to the spirit of the bylaw and procedures is essential to the best interests of IFEE and its members.

We all appreciate your continued effort in support of this work.

n a. Selling

Sincerely,

IAG:bjs

# Columbia University in the City of New York | New York, N.Y. 10027

DEPARTMENT OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCE

Seeley W. Mudd Building

September 18,1978

Dr. Ivan A. Getting President, IEEE P.O.Box 92957 Los Angeles, CA 90009

Dear Dr. Getting:

This is in response to your August 28 letter addressed to Mr. Fairman, Mr. Rubenstein and me in which you conveyed the feeling of the Executive Committee of the Board of Directors that publication in The Institute of an interview with me on certain ethics cases was not consistent with the spirit of confidentiality as described in the bylaws and procedures.

Let me begin by relating the facts as I know them. June 9, I received a phone call from Carole Patton of The Institute's editorial staff. She said that she was writing a series of articles on ethics for The Institute and that she had heard that I was involved in some ethics cases being considered by the MCC. I outlined for her the general nature of the two cases investigated by CSIT, suppressing all information that might identify the individuals or organizations involved, and indicated that the Executive Committee had turned over both cases to the MCC. I also asked her to check with Mr. Fairman before publishing anything. A week later I received from her, for comment, a draft version of her article (which included remarks by Mr. Fairman). It was, in my view, a competent piece I returned it with some suggestions for changes and of work. corrections.

I believe that fair play and prudence dictate that the identities of individuals and organizations involved in ethics cases be kept confidential until cleared for release in accordance with our bylaws and procedures, and I have always been very careful to avoid premature disclosure. In the present instance, there was, to my knowledge, no violation of confidentiality. I see nothing wrong with informing IEEE members as to how the new procedures are being applied. On the contrary, this is an essential part of the overall process of raising ethical standards. The Institute has been doing a good job of providing such information in a responsible manner.

I would appreciate having this letter circulated to the Executive Committee.

Yours Truly,

Stephen H. Unger

cc:Mr. James F. Fairman, Jr. Mr. Ellis Rubinstein

SU:mm

283 Ellery Street
Brentwood, N.Y. 11717
September 13, 1978

231-7325

Mr. Steve Unger 229 Cambridge Avenue Englewood, New Jersey 07631

Dear Steve:

I'm sorry I wasn't able to make the meeting Saturday. As I promised, enclosed please find the summary reports on the AIL layoffs.

If there is any way you can help us, either by obtaining the unissued Sperry amicus curiae, providing reference material concerning the flexibility of engineers, helping to debunk the myth of obsolescence as a function of age, or helping me to find other IEEE leaders who care about age discrimination, I would be very appreciative.

Furthermore, I would be honored to be part of your committee on the social implications of technology. I fear that as engineers with an extremely limited liberal and social education, we tend to think in terms of engineering factors and fail to understand the sometimes disastrous effect our creations have on ordinary people.

In addition, my investigative experiences, especially in regard to age discrimination, may be of use in getting facts related to ethics cases.

I look forward to hearing from you, and hope that our association will be mutually beneficial.

Sincerely,

William F. Wilkes

WFW: pk Encls.

11/17/78 Dear Mal, I finally got around to analyzing the feel Suyder interview on the BART case that appeared (PI) in the 9/18 issue of the Justitute. Some factual errors (1) He states that the erris brought the case to the puffic three the news media (P.1, col 1-2). This is falso - they Went to members of the BART Bd of Winters. It became public only after it was discussed at a public Bd. meeting (21 He sap in 2 place (P.1 Col. 2 & P. C. Col. 3) that the engine come to I Ext for the belp. This never baypeard (they did appeared to the Col. Sc. of Prof. Exps.). He distorts the count of principles involved in the case by suggesting (P. 6 cd. 3) that the crucial issue was provethet they live technically correct ("The orly way we could prove that they did right -- "). Of course the real issue is whether engineers calling attention to technical problems with serious consequences should, as a matter of course, receive have their views considered seriously by their managers, and when they feel that their knowingers are wrong should be able to take the matter further upth

(2) with referere to how the IEEE became involved (items above) he makes no referred to catual process. The enclosed

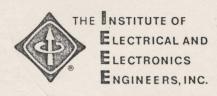
spirate of the as he committee chained by Saunders clearly gives the origin of the water wither I EDE as CSIT's 3/25/74 resolution (which incidentally, was not modified at all by TABE- see CSIT menuter of 3/25/74 meeting). Note that Singder was not a member of this Committee, the he did appear befreit as chairman &USAC's (USAB's prederussor) Eploymet Produces Committee (EPC). also note that, after I brought the case to the attention of the EPC, a subcommittee of EPC was appointed to review and the case, and they did so, mainly by reviewing my files (they did muhe a few oth chilles). This subcountto was chavid by for Fragola jast the other 2 menters being M. Sassano and Victor Zenrides. Anyder as USK deathmon may have participated in some of their work the freidertally the BART Case was 1st downed by CSIT at its 6/27/73 meeting. Snyder did attend the Salguardia Clipat queeting at on. This was attended by above march subsormittee and attorney Frank Ceemmings,

[41 Angeler also converse CSIT's role in the formation of the I tet Esticis Code (P6, cl. 4). His account of the code of its originally originally distributed. The code was drafted fing originally by a subscount de of EPC consisting of Esther Consult (ch.). Jerry Swram of one. It passed EPC, of the USAC (the one inputant deletion was made there) of them went to the scot who formed their own Committee which revised it forms.

But the USAC subcommitto started with and largely retained, the code that of originated with CSIT. We eveloud letter to me from Connell and copies of the code presented at CSIT's open forum, and the version approved by the Connell subcommittee). Any durchard mothers to do with any of this get least three the version approved by USAC. He may have been involved in the final revision must by the BOD's committee of have no cidea who was in on that. It might be noted that the I EEE code represents a significant deportant from the other codes of he mentions.

A hope you'll be able to read my hardwriting and assemble a tactful but devastating rebutted to Anyder's self-centered view of history! belond also is a capy of my tactful but devastating response to Setting's letter.

Best orgado,



#### CONTROL SYSTEMS SOCIETY

November 22, 1978

PLEASE REPLY TO: Dr. J. B. Cruz, Jr. Decision and Control Lab. Coordinated Science Lab. University of Illinois Urbana, IL 61801

Professor Kent D. Wall
Department of Engineering Science and Systems
Thornton Hall
University of Virginia
Charlottesville, VA 22901

Dear Kent:

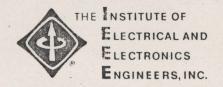
I am pleased to appoint you as the Control Systems Society Representative on the IEEE TAB Committee on Social Implications of Technology, for a term of office from January 1, 1979 to December 31, 1979. I look forward to working with you during the coming year. Best wishes.

Sincerely yours,

J. B. Cruz, Jr. President-elect

JBC/rh

c: Prof. James S. Meditch
Prof. Stephen Kahne
Prof. E. J. Davison
Prof. A. H. Haddad
Prof. Michael K. Sain
Dr. Elliot I. Axelband
Dr. Neil D. Pundit



345 EAST 47th STREET, NEW YORK, NEW YORK 10017

OFFICE OF THE GENERAL MANAGER

(212) 644-7910

December 15, 1978

Mr. J. Malvern Benjamin Bionic Instruments, Inc. 221 Rock Hill Road Bala Cynwyd, PA 19004

Dear Mal:

The enclosed correspondence from K.J. Lutz may be an indication that the Committee on the Social Implications of Technology has come to the end of its road. Postal regulations for subscriptions and mail order purchases require notifications and refunds if mailings (i.e. shipments) are not done with reasonable promptness. We have had problems with some conference publications, for which we received and accepted purchase orders and then could not deliver because the conference committees were slow in shipping copies of the record to Piscataway.

I have not had a check made of Mr. Lutz's computer record, to ascertain that his is shown with a  $\underline{T}$  &  $\underline{S}$  subscription, because I do not recall seeing any issues in the last half of the year. Postal regulations may require that we now refund all (or a proration, if I am correct that there was an issue in the first half of the year). The charges for preparing and mailing the checks will bankrupt C-SIT.

We may be proud of some of the things C-SIT did, or got started, at a critical time in the IEEE evolution from purely technical to acceptance of public and professional service. But the doubts I had early in 1978 have not been disipated by the publication performance. Please confer with your collegues on this serious situation. Either you or I should write to Mr. Lutz and I think we owe something to all the other people who paid to receive Technology and Society in 1978. I am sorry to have to write with such a sad tone.

Best wishes for 1979.

Sincerely,

RME

Richard M. Emberson General Manager and Executive Director

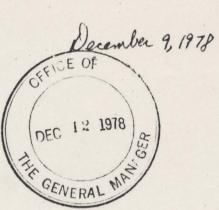
RME: im

cc: Eric Herz, R.J. Jerrill, N.D. Pundit

12/16

Kenneth Jay Lutz 1100 Brookside Avenue, West Deal Ocean, New Jersey 07712

Richard M. Emberson General Manager and Executive Director The J. E. E. E. 345 East 47th Street New York, New York 10017



Marine .

n.t. 2274 600

....

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Dear Mr. Emberson,
About two months ago, I wrote to you about
my subscription and membership in the Jechnology
and society Group. Fast year I paid \$2.00 for
membership in it, and on this year's invoice, it is

listed-

During 1978, I received no publications of Jechnology and Society whatsoever. Furthermore, I received no reply to my letter to you. It is bad enough when you take my money and do not sent what is advertised; but there can be no excuse for your not trying to rectify the situation.

If I do not hear from you in writing within ten days, I am taking this matter to the IEEE Board of Directors and am asking the U.S. Postel Service to investigate.

yours truly, Renneth J. Lutz Mambership no. 5004957

### Kenneth Jay Lutz 1100 Brookside Avenue, West Deal Ocean, New Jersey 07712

October 12, 1978

Mr. Richard M. Emberson IEEE 345 Cast 47 th Street New York, New York 10017

OCT 16 197P

Dear Mr. Emberson,

I received my IEEE renewal invoice today and I am reminded that last year I joined the CSIT group and paid to receive IEEE Jechnology and fociety. As I have not received one 1978 issue to date, I would like a refund of the two dollars I paid last year.

Last summer I spoke to someone at IEEE headquarters who sent me the 1977 issues and assured we that I will be placed on the mailing list. This letter is not my first complaint.

If your computers are so efficient at sending out bills, why can they not put me on the proper mailing lists?

Yours truly, Henneth J. Luty #5004957 Dear Mal,

By the time we returned in mid-October from a month in Europe your September letter, promptly describing events at NESCON, had been joined by many others also claiming urgent attention. Then I went back to my office and grappled with the piles which had accumulated there. Since I am presently editing a book for Academic Press, several of the envelopes contained draft manuscripts which I had undertaken to read. So I regret that my innate courtesy was submerged in a pragmatic scramble to stay ahead of the floodcrest and, not incidentally, to meet a couple of proposal deadlines. Now the birthline is set by the estimated delivery time of Christmas mail to zone 2 of our global distribution of friends. Therefore, I apologize for the two-month period of gestation in bringing forth this kitten and I seek your understanding.

I was glad to read that the CSIT Award presentation went so well and that at least "The Institute" carried the press release on it. The "S. F. Grid" printed a small paragraph after the event. Too bad that the parochialism of the L.A. media prevented coverage there. You made a heroic effort to alert them. I look forward to seeing some of the pictures in the next issue of "Technology and Society." If there were any other publications which printed the press release or a part of it ("Electronic Times"?) I should be glad to get copies or the reference(s). I want to congratulate everyone involved for carrying the plan to its successful conclusion and I trust that several precedents have been set.

While John Jackson was on sabbatical leave this fall at U.C. Berkeley, we had several phone conversations and met once with Bob Bruder, to whom I gave copies of the roster of the nominal EQC/CSIT West Coast Committee and of the responses by West Coast members to the questionnaire (remember the green sheets?) on areas of their interests in SIT. Bob Bruder, as you know, is keen to try again to create a West Coast CSIT and I encouraged him to do so. Perhaps, as a durable resident of the Bay Area, he will have more understanding than I about how to do it, having regard to the prevalent societal attitudes here. My own participation in such a Committee will have to be minimal for at least a year from now because of the overwhelming commitments mentioned in my opening paragraph. Also, I believe CSIT has been most effective in pursuing specific issues and cases, rather than generalities, and I am not aware of any cause celèbre involving EEs in the Bay Area or on the West Coast at the moment, although I may well be just uninformed. At any rate, I shall be unable to fulfill the functions of secretary of the West Coast CSIT, if it is revived in 1979, so I feel that I should lay the office of co-secretary of CSIT at Steve Unger's feet for assignment as he sees fit as incoming chairman. (May this be implemented by copy of this letter to Steve.)

When there is something elso that I might do effectively, I'll be glad to hear from whoever needshelp, on the understanding that I would have to fit it in with many other commitments.

In defense of this hedged offer, let me mention that I am involved in the social implications of the use of ultrasound for medical diagnosis and therapy as a member of the Bioeffects Committee of the American Institute of Ultrasound in Medicine. This will involve me in critical reviews of the literature to determine the threshold doses for expression of any bioeffects which should be considered hazardous to patients. AIUM interacts with the FDA and NEMA for implementation of its recommendations through federal guidelines, regulations and standards under the Radiation Control for Health and Safety Act, 1968, and through voluntary national and international standards in the medical instrumentation industry.

Another of my hats (size 14) is labelled "Technical Adviser to the U.S. National Committee for the International Electrotechnical Commission, for Sub-Committee SC29D (Ultrasonics)" and its four Working Groups, one of which is drafting standards for performance testing of ultrasonic medical diagnostic equipment. So I am involved,

but elsewhere, these days.

Concerning the CSIT minutes of the 11/4/78 meeting, item 11, Intersociety Conference on Technological Growth and the Welfare of Humanity, and item 11.4 in particular, I noted the instinctively cautious reaction of the IEEE staff assistant to CSIT. If you have problems with the "existing policy guidelines" and "the Ilatitude that IEEE, Technical Activities (Board's committees) have in organizing (intersociety) conferences ...", I suggest as precedents (in addition, of course, to the CSIT-sponsored workshop on Engineering Education held at the Univ. of Kentucky in August 1974 and the more recent one at "The Farm"): the AISLE\* legislative/technological workshops with the New York, Massachussetts and Maryland State Legislatures and their preceding Joint Conference on Technology and Governance held at the National Bureaup of Standards, Gaithersburg, MD, Sept. 19-22, 1972. I suspect that as usual the "latitude" will be defined almost entirely by the width of your purse.

(\*AISLE = An InterSociety Liaison committee on the Environment, Bernard Manheimer, chairman: (202) 755-6193 (office at HUD) or (301) 589-4347 (home).)

Best wishes for the holidays and more successes in the New Year,

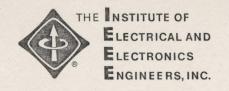
jeter

cc: Steve Unger
Joe Kaufman
Frank Kotasek
Jeff Bogumil

Steve - Sorry, I can't be more positive right now.

J'll look forward to any gaps in my
schedule to resume the crusade. I'm

not anxious about CSIT'S fette
ourward any more. Goodbuck!



345 EAST 47th STREET, NEW YORK, NEW YORK 10017

DIRECT NUMBER (212) 644-7896

December 19, 1978

R. M. Emberson General Manager IEEE 345 East 47th Street New York, New York 10017

Re: CSIT MEETING January 6th, 1979

Dear Dr. Emberson:

On behalf of Mal Benjamin, I would like to extend to you, CSIT's most warmest invitation to the next meeting of the committee at Columbia University on January 6th'79. The members of CSIT would like to have the opportunity to thank you personally for the guidance and assistance that you have provided to the committee over the past years.

Would you be so kind as to let Joe Baker know if you are able to attend since Joe is now the new TAB staff representative to CSIT.

Thank you,

Richard J. Jerril

Manager of Conference Activities

RJJ/prp

cc: J. E. Baker

J. M. Benjamin

N. D. Pundit

S. H. Unger

Day File

Conf. File: LRJJ PRP CRCSIT 121978

December 26, 1978

J. Malvern Benjamin Bionic Instruments, Inc. 221 Rock Hill Road Bala Cynwyd, PA 19004

Dear Mal,

I wanted to let you know that I will not make the next meeting, primarily because I do not wish to take the chance of running into bad weather.

As far as a report on membership, I have not yet received the membership listing which Richard Jerril was to send to me. I have been holding any activity on a Washington chapter until I have the listing.

I would also mention that I have not received a copy of the newsletter in the event that an issue did go out in December.

Hope to see you at the next meeting.

Sincerely,

Soein

Terry L. Hewitt 876 Kent Road Waynesboro, VA 22980

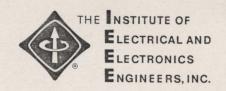
cc: Stephen H. Unger

213 Ellery Street Brentwood, Wewyork 11717 January 2, 1979.

Dear Steve,

Sorry of couldn't make the last meeting. The furder of work caused by the unfavorable decision in the Sperry age case is very great. I'm planning to be at Columbia for the January 6th meeting, if no major ototacles arise. I may also bring my sou, so he can see what his father does when he's away from home on the preek-ends. Til Hum.

Smeerely, Bill.



345 EAST 47th STREET, NEW YORK, NEW YORK 10017

DIRECT NUMBER (212) 644- 7870

January 5, 1979

Mr. Donald Christiansen, Chairman Electro '79 - Professional Program Committee IEEE - Spectrum 345 East 47th Street New York, New York 10017

Subject:

EAB/USAB Career Development Committee

Electro '79 - Professional Program Proposal April 24-26, 1979 - New York Coliseum--Americana

"The Engineer and Public Policy: Servant, Guardian, Gadfly"

#### Dear Don:

On behalf of the IEEE EAB/USAB Career Development Committee, we respectfully request the Electro '79 Professional Program Committee's consideration of a --Professionalism and Career--session entitled, "The Engineer and Public Policy: Servant, Guardian, Gadfly?"

We believe this session will be of special interest to practicing engineers, recent graduates, and students.

The specifics of this EAB/USAB proposal are detailed in the attachment.

Cordially,

J. E. Casey

Special Projects

JEC: fec

cc: B. J. Leon

B. O. Weinschel

R. A. Rivers

J. F. Wilhelm

J. M. Kinn

J. F. Fairman

S. C. Florman

S. H. Unger

R. J. Baum

E. A. Weiss

#### ELECTRO '79 Professional Program

#### Session Title:

"The Engineer and Public Policy: Servant, Guardian, Gadfly?"

#### Session Content:

Most engineers are employees and their professional responsibilities lie primarily in the realm of designing products or performing particular services.

How can engineers, therefore, safeguard the health, safety and welfare of the public? How can they influence policy affecting these areas?

This session will attempt to clarify the interrelated requirements and principals underlying the dynamic components that influence the engineering environment.

Audience participation will be invited.

#### Session Organizer:

J. E. Casey, IEEE Career Development Project

#### Session Chairman:

James F. Fairman, IEEE Member Conduct Committee

"The Engineer--The Problem Solver"
Samuel Florman - Kreisler, Borg, Florman\*

"The Responsible Engineer"
Stephen Unger - Columbia University

"Informed Consent--The Professional"
Robert Baum - Rensselaer Polytechnic Institute

"Public Policy--Rational or Irrational" Eric Weiss - Sun Company

<sup>\*</sup>Author - "The Existential Pleasures of Engineering"

Session Participant Information

Organizer - J.E. Casey, Manager

IEEE EABIUSAB Career Divelopment Project

345 East 475 ST - New York- N. 4- 10017

Tel: - 212-644-7870-or-201-981-0060-Ext-162 (

Chair man - James F. Fairman, Esq.

Fairman, Frish and Monaco

2600 Virginia Ave, N.W. Suite 301-B

washington, D.C.-20237

Tel:-202-342-0120

Speaker#1 - "The Engineer - The Problem Solver Samuel C. Florman, Vice President Kreisler, Borg, Florman 97 Montgomery Street Scarsdale, N. Y. - 10583

Speaker #2- "The Responsible Engineer

Stephen H. Unger, Professor, EE+CS Dept.

Columbia University

229 Cambridge Avenue

Englewood, N. J.-07631

Tel 2. 201-567-5923

Speaker #3 - 11 Informed Consent - The Professional"

Robert J. Baum, Director, Center for Study Human Dimension Sented.

Rensselaer Polytechnic Tustitute

Troy, N.4. - 12181.

Tel: -518-270-6574

Speaker #4- "Public Policy - Rational or Irrational"

Eric A. Weiss, Public Issues Consultant

Sun Company Inc.

100 Matsonford Road

Radnor, Pa - 19087

Tel: 215-293-6405

R.F. Cotellessa.

# Columbia University in the City of New York | New York, N.Y. 10027

DEPARTMENT OF ELECTRICAL ENGINEERING
AND COMPUTER SCIENCE

Seeley W. Mudd Building

January 17, 1979

Professor Naresh Sinha Department of Electrical Engineering McMaster University Hamilton, Canada L 85 4L7

Dear Professor Sinha:

It was a real pleasure meeting you at our recent CSIT meeting. The fact that you made such a long trip at this time of year indicates to me that you are likely to be a particularly valuable member of our committee, and I am sure that our Newsletter in particular will benefit substantially from your participation as an associate editor.

On behalf of the other CSIT members let me once again welcome you to our ranks.

Yours truly,

Stephen H. Unger Professor

SHU:mm

GENERAL ELECTRIC COMPANY, MANAGEMENT DEVELOPMENT INSTITUTE PO BOX 368 (CROTONVILLE), CROTON-ON-HUDSON, NEW YORK 10520, TELEPHONE (914) 941-5600

PROFESSIONAL

DEVELOPMENT

OPERATION IEEE

.... 25 MAL

January 19, 1979

Mr. J. M. Kinn IEEE 2029 K Street, NW Washington, D. C. 20006

Dear Jack:

Attached is a proposal for an IEEE Conference on building a professional work climate. This is in response to your request for my involvement in helping USAB build a constructive communications base with employers.

It was possible for George Hupman to try out this draft on representatives of a number of companies that employ fairly sizable numbers of engineers (list attached). Even though some of the companies are not too familiar with IEEE, there was general endorsement by all and great enthusiasm expressed by those who are familiar with IEEE.

Please let me know your reaction to this proposal and any suggestions for further action.

Best regards.

Very truly yours,

LES/mda

cc: G. H. Hupman J. J. Suran Lindon E. Saline

This proposal were cupted by USARS.

I requested that the item 2 under exclusions be included. It was not so directed, rather USARS seconmended that its views be "considered".

### PROPOSAL

## IEEE CONFERENCE ON BUILDING A PROFESSIONAL WORK CLIMATE

### L MEANING OF WORK CLIMATE

Work climate is a composite term describing how a person perceives and feels about the many elements that are involved in or impact on his or her work, managers, peers, career opportunities, professional development, rewards and recognition, compensation, facilities, et cetera. Work climate is unique to each organization and may be quite different from components within an organization. It may be perceived and evaluated differently by each individual just as the impact of meteorological climate is in the "eye of the beholder". Organizations (or components within organizations) and individuals may be more or less productive and viable depending on the work climate.

## IL CONFERENCE OBJECTIVES

The conference will be focused on helping key decision makers in organizations employing engineers:

- (1) develop a general understanding of professional work climate and its elements and why it is important to both employers and employees:
- (2) learn about various ways for assessing work climate (surveys, workshops, questionnaire a la NSPE, et cetera) within an organization (or component); and
- (3) learn through actual examples how certain employers have improved specific elements of work climate.
- (4) evolve the format and content for this kind of conference so that it will benefit both individual engineers and the engineering organizations where most engineers work.

The conference will not focus on:

- (1) promoting the Guidelines to Professional Employment for Engineers and Scientists
- (2) assessing or reporting on how IEEE members perceive their collective work climate;
- (3) providing a forum for compliants against specific employers; or
- (4) developing a consensus for action by IEEE or any of its Boards, Committees, or Societies.

## III. CONFERENCE FORMAT

The two-day conference will consist of plenary sessions for subjects of general interest and parallel (and repeated) panel sessions for subjects such as job design, retraining, communications, performance feedback, rewards and recognition, alternative (manager or professional) career paths, etc. Considerable time will be scheduled at the plenary and panel sessions for questions, answers, and dialogue.

## IV. CONFERENCE PARTICIPANTS

The conference (limited to 200 (?) participants) will be of primary value and interest to:

- Managers of Technical Employees who implement policies/practices and who, in fact, build work climate;
- Personnel Managers who are responsible for developing policies/practices;
- Academics who teach subjects related to managing professional workers; and
- Professional Society Officers who have an interest in encourage employers and employees in the improvement of work climate.

## V. CONFERENCE LOCATION AND DATE

The conference site should be easily accessible (e.g., O'Hare Regency). No unusual facility requirements are anticipated.

The conference should be scheduled far enough in the future to permit a "Call for Papers" (see VI below), other related promotional material, and "rifle shot" invitations as appropriate.

## VI. CALL FOR PAPERS

Papers would be obtained via a general "Call for Papers" as well as some invited papers. Papers would be experience-based with supporting data and/or specific information as appropriate.

Proposals for papers would be reviewed and selected to assure a high quality, balanced conference.

Papers would be published in a Conference Proceedings.

VII. COST

Costs can best be estimated by the IEEE staff.

Conference registration fees should include administrative costs, two luncheons, one dinner, cocktails, three coffee/coke breaks, and conference proceedings.

LES/mda 1/12/79

## PROFESSIONAL EMPLOYEES IN INDUSTRY GROUP

### Membership List

Armstrong Cork Company Lancaster, Pennsylvania 17604

E. I. du Pont de Nemours & Company, Incorporated Wilmington, Delaware 19898

Ford Motor Company
The American Road
Room 444 WHQ
Dearborn, Michigan 48121

General Electric Company (W2 H2) 3135 Easton Turnpike Pairfield, Connecticut 06431

General Motors Corporation 302 Boulevard Center Building Detroit, Michigan 48202

International Business Machines Corporation Old Orchard Road Armonk, New York 10504

International Paper Company 220 East 42nd Street New York, New York 10017

Worthrop Corporation 1800 Centurn Park East Los Angeles, California 90067

Rockwell International 2230 East Imperial Highway El Segundo, California 90245

Shell Oil Company P.O. Box 2463 Bouston, Texas 77001 Standard Oil Company (Indiana) AMOCO Research Center P.O. Box 400 Naperville, Illinois 60540

Standard Oil Company (Ohio) Midland Building Cleveland, Ohio 44115

Sun Company, Inc. 100 Matsonford Road Radnor, Pennsylvania 19087

Union Carbide Corporation 270 Park Ave New York, New York 10017

Uniroyal, Inc.
Oxford Management & Research
Center
Middlebury, Connecticut 06749

Western Electric Company, Inc. The Guilford Center P.O. Box 25000 Greensboro, North Carolina 27420

Westinghouse Electric Corporation Gateway Center Pittsburgh, Pennsylvania 15222 This guy volunteered a paper on fusion power (somewhat skeptical) that C51T newsletter printed (Frank Kotasek says it was warch 76). I intend to invite Pocock to meet me personally. Do you want to 39 Brackens Lane Alvaston, DIRBY DE2 OAQ fave England

21st January 1979

Dear Dr Redfield

I don't think I've been in contact with you since you published my item on the environmental effects of fusion reactors in the CSIT Newsletter for March 1976. However, as I shall be taking a holiday with my wife in the U.S.A. this summer, it occurred to me that there might be a chance of renewing my contacts with CSIT.

We shall be staying with friends at Pembroke, Mass from 27th July to 17th August - though we shall be spending some time away from there on sight-seeing trips. Perhaps you could advise me if there will be any meetings of the Energy/Environment or other CSIT groups, or whither it will be practicable for us to meet in some other way.

I should also add that I am now on the Council of the Institution of Nuclear Engineers in London, and so have somewhat widened my circle of contacts within the nuclear industry in this country. Don't hesitate to let me know if you think I can use this new post to help the Energy/Environment working group in any way.

With all best wishes,

Yours sincerely,

Rowland Pocock

- Puld Facel

March ? & Newsletter Pranck's paper

JOEL B. SNYDER
58 DIAMOND DRIVE
PLAINVIEW, NEW YORK
--(516) GENERAL 3-8204

February 1, 1979

Mr. R. Backe
Congressional Felfows Committee
IEEE/USAB
2029 K Street NW
Washington, DC 20006

Dear Dick,

Congratulations on your appointment as USAB Vice Chairman. It is a pleasure to have you active in a most responsible position again.

I recently met with the Opcom of CSIT and volunteered to bridge the gap between CSIT and USAB. In particular, CSIT would like to become more active in USAB national affairs and suggested that the Congressional Fellows Committee wouldbe one place that they could be of assistance. Three people have volunteered and are most anxious to serve on your Congressional Fellows Committee. They are:

Carl Barus
Department of Engineering
Swathmore College
Swathmore, PA 19081
(215) 544-7900 x308

R.J. Bogumil
Mt. Sinai School of Medicine
Department of Obstretics & Gynecology Annenberg
New York, NY 10029
(212) 864-5046

Victor Klig 497 Park Avenue Leonia, NJ 07605 (212) 430-2033 (201) 947-6755 (H)

I strongly recommend all three as hard-working, contientious individuals who have only the best interests of the Institute, the profession it serves, and the public we all serve, at heart.

Thank you for your consideration in this matter.

cc: S. Unger

J. Kaufman

C. Barus

R. Bogumil

V. Klig

Joel B. Snyder

## SPERRY SUPPORT SERVICES, GSFC FACILITY

A DIVISION OF SPERRY RAND CORPORATION • MAIL CODE 310.1
GODDARD SPACE FLIGHT CENTER • GREENBELT, MARYLAND 20771
PHONE (301) 982-6108

## MESSAGE

REPLY

TO

Joel B. Snyder 58 Diamond Drive Plainview New York

6 February 1979

DATE

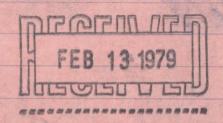
Dear Joel.
Thanks for your very kind note of
February 1, 1979. Perhaps I have been
out of USAB too long because I
truly do not know what CSIT stands
for; if I should I apologizeto
those slighted.

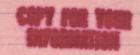
As you will know probably before you get this note, Dr. Sajaad Durrani has graciously consented to chair the Congressional Fellows committee this year. By copy of this memo and your letter, I will teansmit your recommendations to Sai'.

Best wishes.

Dulfful

DATE

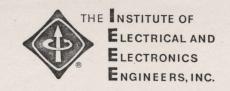




SIGNED

BY

Form N-R73 R The Drawing Board, Inc., Box 505, Dallas, Texas



345 EAST 47th STREET, NEW YORK, NEW YORK 10017

DIRECT NUMBER (212) 644-7870

TO: James F. Fairman
Samuel C. Florman
Virginia Edgerton
Robert J. Baum
Eric A. Weiss

FROM: J. E. Casey, Special Projects

February 7, 1979

SUBJECT: ELECTRO/79 SESSION #28

"THE ENGINEER AND PUBLIC POLICY: SERVANT, GUARDIAN, GADFLY"

APRIL 24, 1979--2 P.M.

We are pleased to advise you that this EAB/USAB Career Development Committee function "The Engineer and Public Policy: Servant, Guardian, Gadfly" has been FINALIZED as:

Session #28
Tuesday
April 24, 1979
2 P.M.
Sheraton Center
(formerly Americana Hotel)
53 Street and Seventh Avenue
New York, NY 10019

#### CAUTION

Advance publicity may have been released with an incorrect schedule.

cc: B. J. Leon

B. O. Weinschel

R. F. Cotellessa

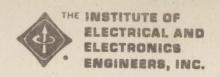
R. A. Rivers

J. M. Kinn

J. F. Wilhelm

L. Fanning

T. Shields



### COMMITTEE ON SOCIAL IMPLICATIONS OF TECHNOLOGY

Please reply to:

March 8, 1979

Tor Orbeck Dow Corning Corp. Midland, Mich.

Dear Mr. Orbeck:

As you know, one of CSIT's projects has been to give an award to a suitable candidate for "service in the public interest". This award is given to a person who is judged to have come down on the side of the general public in a situation in which there was a professional conflict between the public interest and the interest of his employer or some other more private group. To do this usually requires considerable professional risk, and frequently considerable monetary risk as well so "standing up" in this way is done at very large personal sacrifice.

It has been the feeling of our committee that one way of encouraging our fellow engineers to take such a risk is to express public appreciation in clear cut cases where this has occurred. We feel that this also helps focus the attention of the entire engineering community on the problem of such professional/moral conflict.

Last year as you probably will recall, we gave our first award to the three BART engineers whose case is so very well known. The award consisted of a suitably designed certificate plus a cash award of \$750.00 per engineer.

The selection process begins with a suggestion from anyone either a member of our committee or otherwise which is passed on the awards subcommittee of CSIT, If the awards committee after appropriate investigation is favorably impressed, it brings the nomination before the entire CSIT committee, which either approves or disapproves. This process occurs deliberately at irregular intervals because we are more concerned with the appropriateness of the awardee than we are with the regularity of the occurrence.

In order to continue making the award, we of course must have a fund available. We have a special tax exempt account set up with in the IEEE for handling such money. This account was used in the last presentation but alas, the account is presently practically empty.

We have another candidate to whom we are planning to give our second award in April; so between now and then we must come up with the necessary funds.

We are therefore writing your society in the hope that you may wish to participate in the honoring of this second awardee. We in CSIT think that this represents an excellent opportunity for several of our engineering societies to help express their concern for responsible engineering ethics.

We can assure you that every dollar given in this direction will ultimately have a more far reaching effect than one might at first suppose. Please make your check out to IEEE Foundation, Acct. 325.3 and send it to:

Dr. Joseph S. Kaufman Bell Telephone Labs. Holmdel, N. J. 07733

Hopefully, Yours,

J. Malvern Benjamin, Jr.

cc: Dr. Stephen Unger Dr. Jos. S. Kaufman Mr. David. C. Cook Mr. Tor Orbeck Mr. Louis Urban March 11, 1979

Stephen H. Unger 229 Cambridge Avenue Englewood, NJ 07631

Dear Steve,

I had planned on writing to you prior to the last CSIT meeting but I have been rather preoccupied recently since I am in the process of leaving General Electric for a position with Tektronix as an instructor for their microprocessor development systems. As you can imagine, there has been a certain degree of turmoil in this since I have 18 years service with GE. However, I have been interested in some form of teaching for many years and this new position is just what I would like to do and with a company that I feel will be highly suited to my particular characteristics.

My first location will be Rockville, Maryland so I will be in the Washington area which will make it much more convenient for me to work towards a Washington CSIT working group. I am starting with Tektronix on March 19 and for at least a month or two will be quite involved with training and getting started in my new position. I will be in Beaverton, Oregon for about a month starting March 26. Hopefully I will still be able to make the next CSIT meeting but I cannot be sure at this time.

We have a steering committee member who works at NBS near Rockville but I do not have his name or address. I would appreciate your sending me this information some time. Incidentally, for the time being my address should be left as here in Waynesboro.

I have felt that it is very desirable, and necessary, for CSIT to become active in geographic areas in addition to NYC. Therefore I plan on getting back to the task of organizing a Washington working group as soon as possible.

Best regards and I hope to see you at the next CSIT meeting.

Terry L. Hewitt 876 Kent Road

Leny

Waynesboro, VA 22980

Northgate Apt. 103-F Cranbury, New Jersey 08512 March 12, 1979

Mr. Larry Stine
MITRE Corporation
1820 Dolley Madison Boulevard
McLean, Virginia 22101

Dear Mr. Stine:

As a new member of IEEE and as one who is interested in technology and society, I attended the March 3 meeting of the Committee on Social Implications of Technology in New York.

One of the items on the agenda concerned the events surrounding the cryptology symposium sponsored by the Information Theory group in October, 1977. It was suggested that questions on scientific freedom and responsibilty that arose at that time have remained unresolved. While it was noted that CSIT lacks the resources to explore all the legal and ethical issues that relate to the regulation and control of scientific and technological endeavor, it was proposed that an article in "Technology and Society" might be a stimulus for further discussion of this topic in other areas of IEEE.

Having stated that my knowledge of law and information theory is indeed small, I offered to devote whatever effort the committee might deem appropriate toward such an article.

Frank Kotasek suggested that I contact you. I would appreciate any thoughts, direction, or advice you might offer.

The matter of data security seems to be a natural focal point for the profound, public questions that arise when a powerful technology is widely applied. I see the proposed article as being valuable in so far as it defines such questions precisely and provides background that is helpful in searching for answers. I intend to turn to such authors as Michael Polanyi and J. Bronowski.

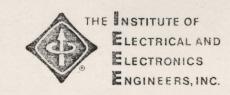
I am now collecting references, and I would be grateful for your ideas.

Yours sincerely,

Richard W. Harris

(609) 448-6801 (home) (609) 466-2100 (work)

CC. Mr. Stephen Unger Mr. Frank Kotasek Jr.



#### NUCLEAR AND PLASMA SCIENCES SOCIETY

OFFICE OF THE PRESIDENT

J. L. Shohet

March 19, 1979

PLEASE REPLY TO:
Department of Electrical
and Computer Engineering
The University of Wisconsin
Madison, WI 53706
(608) 262-1191
FTS 262-1191

Dr. C. Lester Hogan Technical Activities Board Fairchild Camera and Instrument Corp. 464 Ellis Street Mountain View, CA 94042

Dear Les,

I was disturbed to note that the Board of Directors has approved the draft statement on IEEE Position Papers. In particular, the NPSS AdCom, at their last meeting, is of the sentiment that Position Papers, especially Entity Position Papers, ought to be reviewed by all Groups and Societies for which the Position Paper might have an impact. It is my understanding that this procedure is not necessary for Entity Position Papers and it is quite conceivable that a Position Paper by one Entity might be in conflict with the position of another. Since the public will not readily distinguish between various Entities, but consider them as IEEE Position Papers, the NPSS wishes to oppose the adoption of the Position Paper document in its present form.

We are further concerned that the Board of Directors has taken this action without waiting for the response of IEEE Groups and Societies, even though it was their original intention, and was also the implication I received when this matter was discussed at the last TAB meeting in Atlanta.

I would like to request that you pass this information to the Board of Directors and the Executive Committee. I also would like to request that TAB consider modifying the document to reflect these matters at its next meeting.

Sincerely,

J. L. Shohet President

JLS:cc

cc: W, A. Furfart

D. C. Cook

J. J. Suran

Professor J.L. Shohet
Department of Electrical
and Computer Engineering
University of Wisconsin
1425 Johnson Drive
Madison, Wisconsin 53706

Dear Leon:

As requested, I sent a synopsis of the CSIT meeting (March 3) to Tony Furfari. I have enclosed a copy of the synopsis and propose to send you a copy from now on when I send it to Furfari.

Paragraph 4 is a very short synopsis of the discussion by the CSIT on the Policy Statement 14 on position papers. I particularly wrote it the way I did because I felt that I would take advantage of the direct pipeline to the board of directors. I apparently successfully touched a nerve, as you can see from the enclosed letter from Furfari to Brereton. My own comment on Furfari's letter is that no matter "how much consideration was given to the subject," it was not enough, or the board of directors would not have taken the action they did.

Sincerely,

David C. Cook Code 6603C Radiation Technology Division

Enclosure As indicated

Copy to: S. Unger

Steve: I am also enclosing a copy of a better from Lem Shohet to Lester Hogan

Dre

#### Synopsis of CSIT Meeting 3 March 1979 Columbia University

- 1. The meeting opened at 10:00 AM and was attended by 18 persons, four of them IEEE staff. There were some unimportant corrections to the minutes of the last meeting.
- 2. The status of the chairmanship was discussed. Steve Unger had been selected by the committee since Mel Benjamin had served the maximum permitted length of time, but it seems Hogan wants Benjamin to continue. It was pointed out by one of the members that this was a peculiar situation since last year the Chairman of TAB wanted Steve Unger to become chairman in place of Benjamin. Benjamin is to investigate the situation.
- 3. The June issue of the CSIT Newsletter is out and the September issue was to have been mailed 1 March. The material for the December issue was delivered to the IEEE a month ago and hopefully will be out about 1 April. The March 79 issue is believed to be well in hand, but Norman Balabanian was absent so the exact status could not be determined. The coupon in issue #22 was discussed. The coupon was not clear and is being revised. The question of those that have paid IEEE dues but not the CSIT \$2 was brought up and how to handle them was questioned. Two or three hundred of the coupons were returned and some answer must be given.
  - 4. The position paper policy of IEEE was hotly discussed and the idea that a few people in IEEE can speak for the whole 187,000 in the Institute was greatly deplored. The means of making the issuance of a position of the IEEE dependent on a much wider base is to be investigated.

A number of the attendees felt that the way Policy #14 was instituted and written in stone was typical of what is wrong with the IEEE. While the policy is supposedly up for discussion and people are reviewing it, it is suddenly adopted.

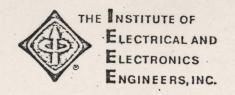
- Dave Redfield reported that the Energy Position Paper is to be issued by the Energy Committee and that the position on Solar Energy is to be published. The IEEE is being appointed by the Federal Government to an Advisory Board. The breeder reactor paper is still bouncing around in the Energy Committee and there seems to be a strong push for a solar energy satellite.
- 6. The CSIT Public Service Award is to be given to Virginia Edgerton at Electro '79. The CSIT Newsletter has published the report on the Edgerton case in toto and the "Institute" published a short summary. An article for Spectrum was submitted and turned down as not being technical in nature. The sense of the committee was that Spectrum is certainly not a technical magazine. Those articles purporting to be technical leave much to be desired and are more of the type to be found in trade magazines such as Electronic News. The IEEE technical publications are the Proceedings and Transactions. The insensitivity of the IEEE to the welfare of its members was discussed at length.

Other cases: One of them has been resolved favorably because the subject was in contact with CSIT. The patent case individual is not being supported by the Member Conduct Committee.

The Award presentation at Electro '79 was discussed and who should be invited to participate.

The Nuclear and Plasma Sciences Society is donating \$300 to the CSIT Award Fund. It was agreed to hold the next meeting at the time of the Award Ceremony at Electro '79, April 24 (Tuesday) at the Sheraton Center (old Americana).

- 7. The employment practices of the IEEE were discussed and the committee passed a resolution to the IEEE Executive Committee on formulation of the IEEE Employee Committee.
- 8. The Munitions Control Act was again discussed. The Act suppresses not only work in cryptology, but most anything in the field of interest to IEEE members. The conclusion was that the Act should be repealed or amended. It will be investigated.



DIRECTOR-DIVISION II
F. A. Furfari

PLEASE REPLY TO: Westinghouse Electric Corp. Westinghouse Bldg.-Gateway Cente Pittsburgh, Pa. 15222 (412) 255-3117

March 14, 1979

Mr. Donald S. Brereton
Manager - Market Development
Industrial Power Systems Engrg. Operation
General Electric Company
Building 6 - Room 310
One River Road
Schenectady, NY 12345

Dear Don:

As Chairman of the TAB Ad Hoc Committee on Position Papers, I believe you will be interested in the CSIT reaction to the Policy at its March 3rd meeting. David Cook, Division II Representative to CSIT reported highlights of that meeting, copy attached.

From David's report I get the feeling Policy Statement 14 was unpopular among members of CSIT. But I also have the feeling members of CSIT may not be fully cognizant how much consideration was given the subject, the real need for the policy, and that their constructive critique will be welcomed by TAB and BOD.

You may want to review the Policy background with the Chairman of CSIT.

Sincerely,

F. A. Furfari

Attachment

c: D. C. Cook



345 EAST 47th STREET, NEW YORK, NEW YORK 10017

MEMORANDUM

DIRECT NUMBER (212) 644- 7887

To Stephen H. Unger

From Joseph E. Baker, Jr.

Date March 22, 1979

Subject: Mailing Lists and Subscription Coupons to the CSIT Newsletter

Per Dr. Engelson's request, I am sending you the mailing label lists and the subscription coupons to the CSIT Newsletter.

The mailing label lists are alphabetized; we have numbered them, as follows:

- #1 List of CSIT subscribers with expiration date of 12/79. This is the current, up-to-date list.
- #2 List of those who have renewed their IEEE 1979 dues, but whose CSIT subscription expired in 1978.
- #3 List of those with both IEEE dues expiration date and CSIT subscription expiration date of 1978.
- #4 List of those with expiration date of 12/77—this constitutes that part of the original CSIT  $\underline{T} & \underline{S}$  solicitation list, made up of people who did not choose to subscribe in 1978 and 1979, in fact never paid any subscription fee.

Dr. Engelson suggests the following actions be taken:

- a) When making a mailing and requesting the labels for the Newsletter, be sure that the labels of those CSIT members with expiration date of 12/79 (i.e. list #1), are specifically requested.
- b) In order for the 1978 subscribers to receive the make-up issues, the labels of those with a 12/78, CSIT expiration date (i.e. list #2) should be specifically ordered, in addition to list #1 discussed in the above paragraph.
- c) The CSIT list of those with an expiration date of 12/77 (i.e. list #4), should be wiped out from the computer, since there is no need to hold on for several years a list of people who have shown no apparent ininterest whatsoever in CSIT.

However, Dr. Engelson suggests that before we drop this list, a special letter, with a coupon attached, be addressed to these people; the letter could be used as a one-time subscription solicitation instrument.

Enclosed, please also find the F-64 List, which is the up-to-date CSIT Complimentary List, which Dr. Engelson has established. The CSIT Complimentary List contains the names and addresses of 13 individuals. When ordering mailings of the Newsletters to the list(s), be sure to specifically request the F-64 List, in order to insure that complimentary copies are mailed to the proper people.

We are also mailing you the CSIT subscription coupons received to date. We have arranged them alphabetically for your convenience and divided them into 3 categories:

- 1. Coupons  $\underline{\text{with}}$  comments from individuals who wish to continue their subscriptions.
- 2. Coupons  $\underline{\text{without}}$  comments from individuals who wish to continue their subscriptions.
- 3. Coupons without comments from individuals who  $\underline{do}$  not wish to continue their subscriptions.

Enclosures /JEB

cc: I. Engelson (w/o enclosures)
File: MJEB-PRP-CSITNW.032279



# COMMITTEE ON SOCIAL IMPLICATIONS OF TECHNOLOGY

Please reply to:

Dr. Lester Hogan Fairchild Camera & Instrument Co. 464 Ellis St. Mountain View, CA, 94042

March 24, 1979

Dear Dr. Hogan:

I very much enjoyed meeting you recently in Atlanta. It was good to have the chance to get to know you just a little.

Our CSIT committee discussed the matter of chairmanship at their subsequent meeting and concluded that if you have no real serious objection, they would like Dr. Unger to be thier Chairman this year. I will continue to be active in the affairs of the committee, however.

We hope you will find this D.K.

Sincerely,

J. Malvern Benjamin, Jr.

MBeyamin

Copies: Dr. Stephen Unger Dr. Peter Rodrigue



### COMMITTEE ON SOCIAL IMPLICATIONS OF TECHNOLOGY

Please reply to:

Mr. George C. Sumner 4000 Harlanwood Dr. Ft. Worth TX, 76109

March 24, 1979

Dear Mr. Sumner:

I'm writing you at the suggestion of Louis Urban who, as past Peesident of the Aerospace Society suggested I contact you.

As you may know, one of CSIT's projects has been to give an award to a suitable candidate for "service in the public interest". This award is given to a person who is judged to have come down on the side of the general public in a situation in which there was a personal or professional conflict between the public interest and the interest of his employer or some more private group. To do this usually requires considerable professional risk and frequently considerable monetary risk as well. So "standing up" in this way is done at very large personal sacrifice.

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We can assure you that every dollar given in this direction will ultimately have a far reaching effect. Please make out your check to IEEE Foundation, Acct. 325.3 and send it to:

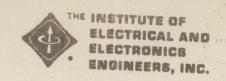
Dr. Joseph Kaufman
Bell Telephone Labs.
Holmdel, NJ, 07733

Hopefully yours

J. Malvern Penjamin, Jr.

12 1

CC: Dr. Stephen Unger Dr. Joseph Kaufman



# COMMITTEE ON SOCIAL IMPLICATIONS OF TECHNOLOGY

Dr. Edward A. Wolff 1021 Cresthaven Dr. Silver Spring, MD, 20903

Please reply to:

March 24, 1979

Dear Ed:

It was good to see you again in Atlanta. We all still remember your patience and usual forbearance during our first year. Here's hoping we haven't disgraced you too much since

As you know, one of CSIT's projects has been to give an award to a suitable candidate for "service in the public interest". It is award is given to a person who is judged to have come down on the side of the general public in a situation in which a conflict existed between a professional or public interest and the interest of the employer or some more private group. To do this usually requires taking a considerable professional risk and frequently a large monetary risk as well. So standing up in this way is done at very large personal sacrifice.

It has been the feeling of our committee that one way of encouraging our fellow engineers to take such a risk is to express public appreciation in clear cut cases where this has occurred. We feel that this also helps focus attention of the entire engineering community on the problem of such professional/moral conflict.

Last year, as you may recall, we gave our first award to the three BART engineers whose case is so very well known. The award consisted of a suitably designed certificate plus a cash award of \$750.00 per engineer.

The selection process begins with a suggestion from anyone which is passed on the to the awards subcommittee of CSIT. If this group is favorably impressed after careful investigation, the case is brought to the entire committee for approval. This process occurs irregularly because we are more concerned with the appropriateness of the awardee than with the regularity of the occurrence.

In order to continue making the award we, of course, must have a fund available. We have a special tax exempt account within the IEEE for handling such money. This account was used in the last presentation but, alas, it is presently pepleted.

We have another award candidate for which our fund needs replenishing. We are therefore writing the Engineering Management Society in the hope that you may wish to participate.

We in CSIT think that this presents an excellent opportunity for several of our engineering Societies to express their concern for responsible engineering ethics.

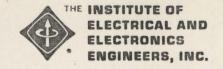
We can assure you that every dollar given in this direction will ultimately have a far reaching effect. Please make out your check to: IEEE Foundation Acct. 325.3 and send it to:

Dr. Joseph Kaufman Bell Telephone Labs. Holmdel, N.J., 07733

Hopefully yours,

J. Malvern Benjamin, Jr.

CC: Dr. Stephen Unger Dr. Joseph Kaufman



# TECHNICAL ACTIVITIES BOARD COMMITTEE ON SOCIAL IMPLICATIONS OF TECHNOLOGY

Please reply to:

Honorable Edward I. Koch City Hall New York, New York 10007 Professor Stephen H. Unger
Dept. of Electrical Engineering
and Computer Science
S.W. Mudd Building
Columbia University
New York, New York 10027

March 26,1979

Dear Mayor Koch:

The enclosed material concerns the treatment meted out by the City of New York to IEEE member Virginia Edgerton, a computer systems analyst, who called attention to a situation that might, in her judgement, degrade the performance of the police department's emergency dispatching system (SPRINT). Although the salient events occurred during the previous administration, the matter has not as yet been satisfactorily resolved.

#### In particular:

- (1) There is no indication that the City of New York has established a policy whereby an engineer in its employ whose professional judgement on a significant matter clashes with that of his immediate supervisor may have the issue reviewed by other qualified people.
- (2) On the specific issue in the Edgerton Case, we have been unable to ascertain whether appropriate studies have been made recently of the loading of the SPRINT system. Nor can we learn what plans exist for the associated computer. This matter is too important to be treated without written reports being filed by identifiable, competent experts.
- (3) Altho it is clear that Ms. Edgerton acted in a completely selfless manner to protect the people of this city, no municipal official has acted to redress the wrong done to her. No apology has been made and there has been no offer to re-instate her.

I sincerely hope that you will see fit to look into this matter and deal appropriately with the issues.

Since the award presentation to Ms. Edgerton is taking place in New York City (LaLoire Room, Sheraton Center Hotel at 1:00, April 24), a unique opportunity exists to take care of item (3) above. As session organizer, I cordially invite you to participate in this event as one of the featured speakers. This would be an important indication that the present administration intends to deal with sophisticated technical issues in a more serious manner than has been the case in the past.

Yours truly,

Stephen H. Unger Chairman-CSIT Working Group on Ethics and Employment Practices

SHU:mm encl pent 4/10



# TECHNICAL ACTIVITIES BOARD COMMITTEE ON SOCIAL IMPLICATIONS OF TECHNOLOGY

Please reply to:

Mr. John M. Austin 3B Village Green Apartments Rhinebeck, New York 12572 229 Cambridge Avenue Englewood, N.J. 07631

April 10,1979

Dear Mr. Austin:

I appreciate your having sent me a copy of your letter to Jerry Suran on the Edgerton case. Such letters to IEEE officers and publications are, in my opinion, crucial in the effort to make IEEE effective in supporting professionalism in its best sense.

During ELECTRO'79, CSIT is presenting its second "Award for Outstanding Service in the Public Interest" to Virginia Edgerton. This will take place in the La Loire Room 2 & 3 of the Sheraton Center Hotel at 1:00PM on Tuesday, April 24, prior to a panel discussion on professionalism in which Ms. Edgerton will participate (see Electro "79 program). Jerry Suran accepted our invitation to speak at the award ceremony (perhaps your letter had an immediate effect!), and Leo Young will also speak.

That same morning also in the La Loire Room, at 10:00, CSIT will hold one of its relular meetings. You are cordially invited to attend and participate in all of these events, and I particularly hope you will be able to fit the meeting into your schedule.

Yours truly,

Stephen H. Unger Chairman, CSIT Working Group on Ethics and Employment Practices

S. Muger FY1



# TECHNICAL ACTIVITIES BOARD COMMITTEE ON SOCIAL IMPLICATIONS OF TECHNOLOGY

Please reply to:

April 12, 1979

To: THE IEE EXECUTIVE COMMITTEE

At its March 6, 1979, Meeeting, the Committee on Social Implications of Technology (CSIT) unanimously approved the enclosed "CSIT Proposal on IEEE Employee Committee," which we believe would result in improvements in IEEE Employee Policies.

I request that you give early consideration to this proposal, and am awaiting your response.

Sincerely yours,

J. Malvern Benjamin / JEB

JMB/eob Enclosure

#### CSIT PROPOSAL ON IEEE EMPLOYEE COMMITTEE

The employment policies of IEEE with respect to its staff are not merely a means of obtaining the best possible services for the money spent, but can also be construed as an example of how IEEE expects an employer to treat professional employees, particularly electrical engineers. Indeed, the IEEE employer-employee relationship can serve as a test model of employment policies that the employed members of IEEE would like their employers to apply toward them.

In achieving desirable employment policies, two conditions should be fulfilled. One is that the benefits, both tangible and intangible, to the employer-employee partnership should be maximized. The other is that the division of the benefits among employer and employees should be fair.

The above objectives can best be achieved through a proper composition of the IEEE Employee Committee. The members of that committee should above all be committed to achieving these objectives. They should be sufficiently knowledgeable to recognize the many subtleties and tradeoffs in the employer-employee-outside world system. They should be willing to devote the time to acquaint themselves with the state of the art of enlightened employment practices, the desires of the IEEE membership, and the Intersociety Employment Guidelines. The membership of the committee should be broadly representative of the membership of IEEE, with no more than one member employed in a personnel capacity.

The Committee on Social Implications of Technology (CSIT) requests the IEEE Executive Committee to make its appointments to the IEEE Employee Committee in accordance with the above principles.

# Columbia University in the City of New York | New York, N.Y. 10027

DEPARTMENT OF ELECTRICAL ENGINEERING
AND COMPUTER SCIENCE

Seeley W. Mudd Building

April 16,1979

Mr. Terry L. Hewitt 876 Kent Road Waynesboro, Virginia 22980

Dear Terry:

It was nice hearing from you, and I hope things are going well in your new position.

I don't know who you're referring to with respect to a steering committee member at NBS near Rockville. However, let me give you a few names of people in your area who might be interested in working with you in organizing a CSIT chapter.

Marc Apter has been an active corresponding member of the Working Froup on Ethics, (as was Joseph Stitelman) and E. Vogel recently wrote to us inquiring about how he could participate actively. Larry Stine was chartiman of the WG on Communications. The other names were picked (non systematically) off the T & S mailing list.

Note that our April 24 meeting at ELECTRO '79 should be particularly interesting, since the award to Virginia Edgerton will be presented later the same day.

Best regards,

Stephen H. Unger

SHU:mm encl Marc Apter 28 Carolina Ct. Sterling, Va. 22170

Joseph Stitelman 1600 S. Eads St. Apt. 227S Arlington, Va. 22202

Edward A. Scott 12001 Old Columbia Pike #704 Silver Spring, Md. 20904

W.J. Schwerdtfeger 9200 Fowler Lane Lanham, Md. 20801

E. Vogel 9922 Walker House Rd. Gaithersburg, Md. 20760

Larry Stine Mitre Corp. Mail Stop W262 McLean, Va. 22101

George A. Shaton 5420 El Camino Columbia, Md. 21044

Melvin N. Abramovick 10708 Shelley Court Garrett Park, Md. 20766 Walter C. Blanchett 2312 Wheystone Ct. Vienna, Va 22180

Garry Grossman 1815 19th NW Apt. 300 Washington, D.C 20009

David J. Antol 25 Summerfield Rd. Baltimore, Md. 21207

Robert S. Cohen
Div. of Solar Technology
US Dept. of Energy
Washington, D.C. 20545

William W. Anderson 31 College Ave. Annapolis, Md. 21401

T.S. Bly 11305 Rolling House Rd. Rockville, Md. 20852 May 20, 1979

Stephen H. Unger 229 Cambridge Avenue Englewood, NJ 07631

Dear Steve,

From minutes of recent meetings, it looks like things are warming up a bit more than usual for CSIT. I am hoping to make the Juhe meeting but it will be somewhat dependent on the gas situation at that time since I will be driving up from Washington.

I have been quite busy with my new job but am expecting to free up some time soon to get actively moving again on a Washington area working group. I hope to be able to make some inputs at the meeting regarding this effort and would like to get some guidance from the steering committee.

Hoping to see you on June 9th,

Terry L. Hewitt

876 Kent Road Waynesboro, VA 22980



## The American Society of Mechanical Engineers

United Engineering Center ● 345 E. 47th St., New York, N.Y. 10017 ● 212-644-7722 ● TWX-710-581-5267

# Technology and Society Division (Founded in 1972) EXECUTIVE COMMITTEE 1978–1979

5-27-1979

#### Chairperson

A. M. DHANAK
Professor, M.E.
Wictor Paschkis
East Lansing, MI 48824
517—355-5160

To: Steve Unger
Victor Paschkis
East Lansing, MI 48824
CC: J. Malvern Benjamin

Re: Meeting on T&S fir which I was to prepare plans

#### Vice Chairperson

RICHARD J. PEPPIN 1711 Westwind Way McLean, VA 22101 703—821-3823

#### Secretary

T. PAUL TORDA 316 W. Barry Avenue Chicago, IL 60657 312—549-1246

#### Treasurer

JEROME STEFFENS Catalytic, Inc. 555 N. 23rd St. Philadelphia, PA 19130 215—864-8728

ROBERT W. WINSTON The College of Staten Island 715 Ocean Terrace Staten Island, NY 10301 212—390-7748

BASIL H. MANNS U.S. EPA Office of Noise Abatement 9116 Sudbury Road Silver Spring, MD 20901 202—557-7666

DAVID ARONSON David Aronson Assoc. 9 Riverview Drive, W. Upper Montclair, NJ 07043 201—744-6112 Dear Steve:

The meeting for which we had hoped to get funds from the Natl. Science Fdtn. or the Natl. Fdtn. for the Humanities, and for which I was to prepare plans was, as I see it, never very well defined. Since I cannot attend your next meeting (I am on vacation starting June 6)), and since I think we should not further delay I am submitting hereafter a report including some questions. If the Comm. in general agrees I would be grateful if I could receive suggestions for additional names of potential speakers and certain organizational questions raised below.

1) Title... I believe that this can wait, but I suggest two, to indicate' the direction of my thinking

Does growing technology mean growing consumption?

Is an ever growing consumption desirable?

2) Purpose

We-i.e. the various Technol. Soc. groups are convinced that the answer to the second question under 1) is no. But even if all engineers were united on this point (which they are not) it would be counter to democratic principles to force our view on the majority. For both reasons (that there is not unity in the profession, and the 'democratic' aspect) we must educate the general public. Planning such education and thinking it through in general terms is the prirpose of the proposed meeting.

3) The education of the public should include both groups that are directly involved and the socalled 'general public'. Because of the width of groups to be involved there can be only few representatives from engineering I think the total group must not be smaller than 15 and not larger than 25.
4) I suggest to get representatives (not less than one, not more than 2 from

each group: (1)Electr. Eng.

(5) Grade Schl. Teacher

(9) Housewife (H.person)

(2Mechan. Eng.

(6) High School Teach.
(7) College Eeacher

(10) Lawyer (11) Friends Comm.

(3) Natural Scient. (4) Social Scient.

(8) Undon Worker

on Natl. Legislatio
(12)League of Women
Voters

Suggested names:

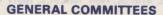
(1) Mal Benjamin; Steve Unger (2) V. Paschkis; Paul Torda; Roy Anderson

(3) Harry Blanchard (chem.) or Prof. Percy Baker, Dean Em. Bilogy Morgan State College (4) Noel Francisco (may be too far away: Wisconnin)

(5)

(6) Mrs. Irene Shapiro Dept. of Biology The Bronx High School of Science (7) Dr. Monika Hellwig 8408 Galveston Rd. Silver Spring Md20910 (College) (8) Carl Herbine, Phila. (9) Barbara Mauger Phyllis Taylor (who is also Nurse)

Peter J.Petkas former coworker of Nader (12) Suggest invite organization; am willing to do if you request



Equal Opportunity
HAROLD KAUFMAN
Polytechnic Institute of N.Y.
333 Jay Street
Brooklyn, NY 11201
212—643-4993

Engineering Education
EDWIN A. FRIEDMAN
Dean of the College
Stevens Institute of Technology
Hoboken, NJ 07030
201—792-2700

Engineering Ethics HENDRIK B. KONING Philadelphia Electric Company (S24-3) 2301 Market Street Philadelphia, PA 19101 215—841-5568

. Science

to indicate!

Assessment
R. LEON LEONARD
School of Aerospace, Mechanical Control of Aerospace, Mechanical Control

Papers Review
ROBERT J. HEINSOHN
Dept. of Mechanical Engineering
Pennsylvania State University
University Park, PA 16802
814—865-8281

General Education VICTOR PASCHKIS Fellowship House Farm R.D. #3 Pottstown, PA 19464 215—326-5045

Program
T. PAUL TORDA
316 W. Barry Avenue
Chicago, IL 60657
312—549-1246

Newsletter Editor RICHARD J. PEPPIN 1711 Westwind Way McLean, VA 22101 703—821-3823

Legislative Questions
BARRY HYMAN
Program in Social Management of Technology
University of Washington
Seattle, WA 98195
206—543-7029

Legal Consequences
ROBERT M. WINSTON
The College of Staten Island
715 Ocean Terrace
Staten Island, NY-10301
212—390-7748

Consumer-Product Relations
RICHARD M. JACOBS
Consultant Services Institute, Inc.
23 Rumson Road
Livington, NJ 07039
201—992-3811

Membership Development

I dod to To y ditroj an old go yo' JEFFREY M. LEVY

Stone & Webster Engineering Corp.
One Penn Plaza

New York, NY 10001

answer to the second question under

#### **ADVISORY COMMITTEE**

Harry Blanchard (chem.) or Prof. Percy Baker, Dean Em. Bilogy Morgan State College

VICTOR PASCHKIS Fellowship House Farm R.D. #3 Pottstown, PA 19464 215—326-5045

T. PAUL TORDA 316 W. Barry Ave. Chicago, IL 60657 312—549-1246

GEORGE F. HABACH Consultant 20 Cambridge Road Glen Ridge, NJ 07028 201—265-2000 x522 (O) 201—746-0442 (H)

DONALD E. MARLOWE Executive Director American Society for Engineering Education One DuPont Circle N.W. Washington, D.C. 20036 202—293-7080 LEROY E. PAGANO Assistant Dean College of Business Admin. St. John's University Staten Island, NY 10301 (212) 447-4343

Dr. Monika Hellwig 8408 Galveston Rd. Silver Carl Herbine, Phila. (9) Barbara Mauger Phyll

1) Mal Benjamin; Steve Unger (2) V. Paschids; Paul Torda; Roy Anderson

Mrs. Irene Shapiro Dept. of Biology The Bronx High School

# SINGER

AEROSPACE & MARINE SYSTEMS GROUP

KEARFOTT DIVISION

24 May 1979

Prof. Stephen H. Unger 229 Cambridge Avenue Englewood, NJ 07631

Dear Steve,

At a CSIT meeting I attended (I think) last fall there was some discussion of conducting some CSIT activity at an appropriate national meeting. The recent minutes indicate that this possibility is still being considered.

As recently named General Chairman of the forthcoming 1980 Joint Automatic Control Conference to be held in San Francisco, 13-15 August 1980, I should like to offer the possibility of CSIT holding some meeting at our conference. This could be a committee meeting held one of the evenings of the JACC or on one of the two days following. Or it could be a special session included in the technical program. For the former, all you have to do is ask me to reserve a room;; for the latter, you would have to submit a program outline by 15 January 1980 to the Program Committee chaired by Dr. H. Austin Spang, III, General Electric Company, Corporate R&D, Building 5, Room 207, Schenectady, NY 12345.

I continue to believe that exposure of the activities of CSIT is a real benefit and I would hope that you can use this opportunity.

Sincerely,

Bernard Friedland General Chairman

1980 Joint Automatic Control Conference

BF:wg



June 6, 1979

Professor Stephen H. Unger Department of Electrical Engineering Columbia University New York, N. Y. 10027 U.S.A.

Dear Steve:

I regret that I shall be unable to attend the CSIT meeting on June 9th since I have to be in Atlanta, Georgia on that day to attend the wedding of a nephew who is very close to me.

Kindly extend my apologies to all the members of the CSIT.

. With regards.

Yours sincerely,

NKS:1h

Naresh K. Sinha

noresh K. Einhe

Professor

21 Berkeley Terrace Livingston, New Jersey 07039 June 20, 1979

Mr. Stephen H. Unger 229 Cambridge Avenue Englewood, New Jersey 07631

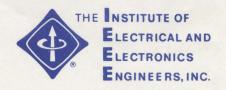
Dear Steve:

- 1. Enclosed is the CSIT Entity Position Statement on the Application of Systems Engineering to Societal Problems. Please sign and date it and send it to the IEEE General Manager.
- 2. Enclosed is the proposed IEEE Position Paper on the Application of Systems Engineering to Societal Problems, together with a one page digest. Please send it to the chairman of the applicable IEEE Major Board (I assume this is TAB), so that he can start the approval procedure.
- 3. Enclosed are four copies of our proposed amendment to Policy 14. If you agree with the way I have rewritten it, please send it to TAB, with copies to Suran and Hertz.

Sincerely yours,

Gerald Rabow

Serald Pelian



345 EAST 47th STREET, NEW YORK, NEW YORK 10017

### TECHNICAL ACTIVITIES BOARD

TELEPHONE: (212) 644-2150

PLEASE REPLY TO:

Dr. Irving Engelson, Manager Committees & Special Projects

June 21, 1979

Mr. Stephen H. Unger 229 Cambridge Avenue Englewood, NJ 07631

Dear Steve:

Enclosed is a memo from Mel Bonaviso regarding 1980 Member Dues Renewal Billing. It contains xeroxed copies of the information about the CSIT Newsletter, as it appears in various brochures.

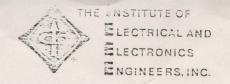
We will appreciate it if you will review the text and inform Mel of changes, if any.

Cordially yours,

Irving Engelson

IE/ma Enc.

cc: M. Bonaviso



345 EAST 47th STREET, NEW YORK, NEW YORK 10017

Dr. S. Unger June 8, 1979

DIRECT NUMBER (212) 644- 7891

TO:

Presidents, ALL Societies/Groups/Councils

FROM:

Mel Bonaviso, TAB Administrator - Finance

SUBJECT:

1980 Member Dues Renewal Billing

Following are excerpts from the 1979 IEEE membership and periodicals listings for your individual S/G/C. It would be appreciated if you will review these listings, indicate any changes you wish to include, and return this form in the enclosed envelope, no later than MONDAY, JULY 9, 1979.

If no reply is received the same information will be included in the distribution for 1980 renewal notices.

### SPECIAL COMMITTEE PUBLICATIONS

IEEE Technology and Society

Abbry: CSIT S Code: 102 of Technology. Examines the impact of technology on society. Emphasis on controversial issues, including ethics, energy, the arms race, appropriate-scale technology, and information technology. Quarterly.

Printed Micro
5021 \$2.00 Not Available

# Special Committee Publications

IEEE Technology and Society Abbrv: CSIT S Code:102 The special publication of the Committee on Social Implications of Technology. Examines the impact to technology on society. Emphasis on controversial issues, including ethics, energy, the arms race, appropriate-scale technology, and information technology. Quarterly.

Printed Micro
5021 \$2.00 not available

## **Special Committee Publications**

IEEE Technology and Society

Abbrv: CSIT G/S/S: 102 The special publication of the Committee on Social Implications of Technology. Examines the impact of technology on society. Emphasis on controversial issues, including ethics, energy, the arms race, appropriate-scale technology, and information technology. Quarterly.

Printed Micro
5021 \$2.00 Not Available

	Please revise listings for my S/G/C as noted above.	
	The above listings are approved for 1980.	
SIGNED	ביי אינה אינה אינה אינה אינה אינה אינה אי	

# CSIT Proposal for Amendment of IEEE Policy 14

CSIT proposes the following amendments to the New Policy 14 on IEEE Position Papers and Entity Position Statements which were adopted at the IEEE ExecCom and BoD meetings of February 14-17, 1979. The purpose of the amendments is to fairly represent to the outside world the various viewpoints held within IEEE on controversial issues, without unduly impeding the development of IEEE Position Papers or Entity Position Statements:

# Entity Position Statements

- 1. Entity Position Statements must be circulated to all IEEE Entities.
- 2. Any Entity shall have the right to issue a Position Statement with a different viewpoint from that of other Entities.
- 3. When there are differing Entity Position Statements, complete or in preparation, each must include, starting with the second sentence, a sentence for each Entity with different view, indicating the existence of such a view, supplied by the Entity holding that view.
- 4. Whenever time permits, Entity Position Statements shall not be publicized outside IEEE until other IEEE Entities have had reasonable time to respond.
- 5. When time does not permit waiting for response from other Entities, the Entity Position Statement must be labeled "Preliminary" and must include the following first paragraph:

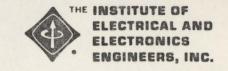
"This is a <u>preliminary</u> Position Statement by Entity X, which is one of N Entities constituting IEEE." (N to be supplied by IEEE staff) "It is preliminary because the remaining IEEE Entities have not yet had an opportunity to react to this Position Statement, or to exercise their right to develop a different position on the topic."

6. A preliminary Position Statement must be replaced, as soon as

practical, by one including the responses of the other Entities. Use of the Preliminary Position Statement must then cease, and all references to it must be updated.

# IEEE Position Papers

On IEEE Position Papers, Entities must be given the opportunity to append differing position statements (not requiring the approvals of #14.8B of Policy 14). In any use of the Position Paper, the existence of the differing position(s) must be brought out.



# TECHNICAL ACTIVITIES BOARD COMMITTEE ON SOCIAL IMPLICATIONS OF TECHNOLOGY

Please reply to:

229 Cambridge Avenue Englewood, N.J. 07631

Dr. Irving Engelson IEEE TAB Office 345 E 47th Street New York, New York 10017

June 26,1979

Dear Dr. Engelson:

Enclosed are 3 copies of a proposal to amend IEEE Policy 14 on "IEEE Position Papers and Entity Position Statements". This proposal was discussed and approved by CSIT at a meeting on June 9,1979.

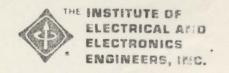
Please forward copies to President Suran and General Manager Herz for consideration by the appropriate IEEE bodies.

Yours truly,

Stephen H. Unger

Acting Chairman, CSIT

SHU:mm encl



# TECHNICAL ACTIVITIES BOARD COMMITTEE ON SOCIAL IMPLICATIONS OF TECHNOLOGY

Please reply to:

229 Cambridge Avenue Englewood, N.J. 07631

Dr. Bernard Friedland Aerospace & Marine Systems Group Kearfott Division 1150 McBride Avenue Little Falls, New Jersey 07424

July 5,1979

Dear Bernie:

Thank you for your May 24 letter inviting CSIT to hold a Committee meeting and to apply for a place on the program of the 1980 Joint Automatic Control Conference. I brought this matter up at our June 9 meeting, where there was general agreement to try to take advantage of the opportunity. I have also passed along copies of your letter to our associates in California, who would be the logical people to take action on the matter.

We appreciate your having given us this opportunity.

Yours truly,

Stephen H. Unger Acting Chairman, CSIT

SHU: mm

Also sent to Kutcher Stine Friedrich Persah Jackson.



## IEEE GROUP CORRESPONDENCE

Department of Electrical and Computer Engineering 111 Link Hall Syracuse University Syracuse, NY 13210

August 9, 1979

Leon W. Zelby School of Electrical Engineering The University of Oklahoma 202 West Boyd Street Room 219 Norman, OK 73069

Dear Leon:

As you know, the IEEE Committee on the Social Implications of Technology was organized almost seven years ago. Very soon, the activitées of CSIT became centered in Working Groups in specific areas, of which nine were identified. Some of these Working Groups have been more active than others.

CSIT--and its Newsletter, TECHNOLOGY and SOCIETY--has been influential far out of proportion to the resources devoted to it. We have had a great impact, through the Working Group on Ethics, in moving IEEE to take the first steps in support of engineers who act with integrity in discharging their ethical responsibilities. Articles from T and S find their way into published bibliographies and are reproduced in edited books.

Although the T and S publication schedule was delayed last year, we are now well on the way to catching up. The June, 1979 issue should reach subscribers by September 1 and the September, 1979 issue is already in press. By the end of the year, we will be on schedule. As you will read in the June issue, we are attempting to upgrade the status of T and S to that of an IEEE Magazine. In order to do that, we must improve our coverage and get more articles that can be considered technical. For this, we need your assistance.

You are now listed in TECHNOLOGY and SOCIETY as chairman of the Working Group on Education. I would like to urge you as a first step to prepare a publication for T and S in the area of your Working Group. This publication could take the form of a full scale article, a communication commenting on an appropriate issue, the review of an appropriate book, a report on the relevant conference, etc. Please let me know what I can expect from you and by when. The next meeting of CSIT is on September 15 at Columbia University. I would like to hear from you prior to that date so that publication plans of T and S can be discussed at the meeting.

Sincerely,

Norman Balabanian Editor

NB/sb

Northgate Apt. 103 F Cranburg, New Jersey 08512 August 20, 1979

Dear Steve,

On September 15 I will be on vocation out west and thus will be unable to other the CSIT meeting. (My wife's parents, who are four England, will be visiting, and are plan to take them on a tour through Colorado, Utah, Nevada t California.)

After I return (September 18) I will begin a new job with Bell Loboratives at Marray Hill. I don't get know my individual telephone number, but the main telephone is (201) 582-3000. Our home telephone will remain (609) 448-9519.

I will certainly be at the meeting subsequent to the September 15th one.

Your sinceely, Richard Havris Columbia University in the City of New York | New York, N.Y. 10027

DEPARTMENT OF COMPUTER SCIENCE

Seeley W. Mudd Building

August 29, 1979

Mr. Robert Bruder Contract Administration University of California San Francisco, CA 94143 Mr. Bradford McMillan 141 Park Avenue San Francisco, CA 94118

Dr. Peter D. Edmonds P.O. Box 268 Mento Park, CA 94025 Prof. Jack Sklansky
Dept. EE and Comp. Sci.
University of California
Irvine, CA 92664

#### Gentlemen:

Enclosed is an invitation from Bernie Friedland to utilize the JACC next summer on behalf of CSIT. It looks like a good opportunity to initiate a California CSIT chapter. I've responded to Bernie indicating that I've turned the matter over to our western friends. We'll be glad to help you in any way possible, and if you so request, I'll dig out the names of California subscribers to T&S.

Best regards,

Stephen H. Unger

SHU: ovj

JOEL B. SNYDER
58 DIAMOND DRIVE
PLAINVIEW, NEW YORK
--(516) GENERAL 3-8204

September 11, 1979

Dr. S. Unger 229 Cambridge Avenue Englewood, New Jersey 07631

Dear Steve,

Regretfully, I cannot attend the September 15th meeting of the CSIT Opcom. I will be in L.A. on other IEEE business.

It has been my distinct misfortune to have had major meeting conflicts for the last 2 or 3 CSIT meetings. I hope that the situation calms down. I would very much like to participate in CSIT activities.

Please keep in mind my role on USAB. If there are any matters that CSIT wishes brought to the attention of USAB I will be more than happy to serve as intermediary.

Hoping to see you soon, I remain,

Sincerely,

Joel B. Snyder

September 23, 1979 Dear Steve, I'm writing to let you know exactly what my relationship is with Virginia Edgerton uls-a-vis CSIT, Virginia has just sent a second letter to Terry Suran regarding TMI, and I provided her with some source material that she used, I was not involved in the effort formally-only casually through my faiendship with Virginia, I'm not involved in any other technologysociety-type activities with her. My own activity on TMI will be done exclusively through CSIT, For now this includes gathering information on TMI, making preliminary notes for use in an article, position paper, etc,; and sending you a set of questions on ethical implications of TMI. After Terry Suran has had time to answer Virginia's letter, I expect to become more active on TMI. I wan't emourage Virginia to participate in my activities or any other CSIT activities, I think leath Virginia and CSIT would be letter off if her connection to CSIT is minimized. Virginia and Lare very good friends and I continue to see her.

Best regards, Frank



# TECHNICAL ACTIVITIES BOARD COMMITTEE ON SOCIAL IMPLICATIONS OF TECHNOLOGY

Dear Stevel:

I will not be able to attend the Nov 17 CSIT meeting so you can consider this in the nature of a report.

- 1. The December issue (8 pages) copy was mailed into IECE on Friday Nov 9. I asked them to try to get it into the mail in 1979. I will try like hell to get the March.
- 2. So far one person has offered to supply the "objective" paper in support of muclear power I had invited, but I don't know if he can get it tome of muclear power I had invited, but I don't know if he can get it tome for the March issue; I hope so. In the meantime I want to make a for the March issue; I hope so. In the meantime I want to make a strong pitch to all owr WG's to flood me with papers. Specifically, I want to encourage Jack Andreson to get to work on that paper. on economics. also, Len Zimmerman over me abook review & a poem.
- 3 The March 1980 issue is an important one because that will be the issue out just before the Pub Board will be decided on Magazine status. To all articles with "technical" content will be most welcome.
- 4. Enclosed is a copy of the latest missive from Irwin Fierst, in which you will be interested. I assume Mal Benjamin will apprise you of a litter
- 5. Before the Sept issue was mailed, I sont Hillon Brown a copy of the item on his testimony and offered to print his comments or rebuttal. So for, no response. On Oct 9 I wrote to Herrold in Washington for further info on the "task force" from which that testimony presumably was generated (copy enclosed). No response.
- 6 If Toll Snyder is at the meeting, please tell him I got his letter but nothing further has developed, so I didn't answer him.
- 7. as reader responses I have gotten two volunteers to do paper refereing

8 If Terry Hewitt comes to the meeting please tell him his review of Tins will be in the Dec. issue.

9. The letter I had sent to Pessah was returned undelivered. Does anyone have an address for him?

On our way back from the September CSIT meeting Jim Luidsay & I organized some thoughts, came up with a session theme and abstract, and thought of 6 or 7 potential contributors for a session at the Frontiers in Education in Oct 1980 in Houston, Jim was to fly it by the appropriate people at this year's conference in Niagona Falls last month. I assume we will be able to able to have that session. The thome was: Educating Electrical Engineers for Professional Responsibility. Jim will no doubt report on that if he is at the meeting. 11. That's it, except for a final plea to all to send me some papers. 11. That's it, except o

for the blaket ione; I hope so, In the meanterie I want to make a

3 the March 1980 cause is an important one because that will be the since out just before the Pack Brond will to decide on Hagazine states,

It. Enclosed is a copy of the lottest missice from this Ferret, in which you is swill be interested. I essuine Had Benjamin will apprise you if a letter

which he get also maide, I amt Hiller Brown a copy of the stem.

5. Refere the Sept wave me maide, I amt Hiller Brown a copy of the stem, on his toting and offered to print his commonts or what for further info on his totings. One Oct 9 I survive to Hernell on what that yet and his totings info in the second of the second on the "teak force" from which that teatimony presumably use .

generated ( copy Indoses). No response. to If Joel Snyder is it the mething, please tell him I got his letter



Prof. Stephen H. Unger Computer Science Dept. 406 S.W. Mudd Columbia University New York, NY 10027

16 February 1980

Dear Prof. Unger:

I thought I'd better write on our "regular" stationery, since the blind embossing on my "fancy" one didn't sufficiently catch your eye. Our name is GOTHAM Audio Corporation.

I appreciate hearing from you and I am encouraged to learn that you you too have some serious thoughts on matters of standardization and ethics. I would very much like to attend your next meeting, but regrettably I will be leaving this Friday for Europe and will only return on March 16th, one day too late. I am sure there will be another occasion soon and I will be delighted to attend.

Perhaps in the meantime we could meet some time and exchange views on this subject which, as you could see from my enclosures, is rather close to my heart. I suppose that your involvement with CSIT stems from the underlying thought that LOGIC and ETHICS have something in common ?! I've thought a lot about that and perhaps there is a start of an article there somewhere entitled perhaps: "The Ethics of Logic and the Logic of Ethics". I'll be thinking about that during my trip.

I still feel that ethics are very <u>personal</u> and should not be either "channeled" or "guided" by any committees. I believe that an engineering Society should only <u>assist</u> (but not advise) an individual as to how he can best achieve the results which his ethics dictate he must persue.

I'll look forward to getting together with you after I return.

Sincerely yours,

COTHAM AUDIO CORPORATION

Stephen F. Temmer President

SFT/me



# TECHNICAL ACTIVITIES BOARD COMMITTEE ON SOCIAL IMPLICATIONS OF TECHNOLOGY

Please reply to:

February 1, 1980

Mr. Stephen F. Temmer Audio Corporation 741 Washington St. New York, NY 10014

Dear Mr. Temmer:

I found your letter of 5 January most interesting, from several points of view.

First, the issue of standardization is one that I feel is all too often neglected by engineers. There is clearly a problem of achieving a balance between on the one hand avoiding excessive waste due to chaotic choices of parameters without regard for compatibility, and, on the other hand impeding innovation by a premature freezing of parameters at selected values. This issue appears to be an important one in the technology/society interface, and I wonder if you would consider writing a paper on the subject for Technology and Society, the publication of the IEEE Committee on Social Implications of Technology (CSIT)? I would also like to invite you to attend the next meeting of CSIT, scheduled for Saturday, March 15, 10:45-4:00, at Columbia University (Room 1306A, Engineering Building). My conjecture is that you would be a valuable member of this committee.

Your comment about the ethics of engineering societies themselves also rings a bell in that CSIT is now heavily engaged in an effort to get the IEEE to correct energy policy testimony given on its behalf before congress (by Jerry Suran), which conflicts with official IEEE Policy.

I look forward to further contact with you.

Yours truly,

Stephen H. Unger Acting Chairman CSIT



## **AUDIO CORPORATION**

Stephen F. Temmer, President

Dr. Stephen H. Unger Professor of Computer Science Columbis University New York, NY 10027

5 January 1980

Dear Dr. Unger:

This letter is in response to your article on "Engineering Ethics" in the current IEEE Spectrum. May I congratulate you on this contribution. It is interesting to me that the words "engineering ethics" are new to me; I thought I had first used them in performance of my task as Mr. Avery Fisher's consultant on the rebuilding of Avery Fisher Hall at Lincoln Center.

One of the reasons that your article touched me, is that I have been the victim, not the beneficiary, of the engineering association to which I belong, aside from being a Senior Member of IEEE. The Society is the Audio Engineering Society of which I was International Vice President until last November and am now a Governor.

I take the liberty of enclosing some material describing my quest and the results of my application of my ethics and those of many of my fellow AES members in attempting to prevent improper behavior of the AES in matters of standards writing.

It is regrettable when the remedies which you recommend in your article, namely turning to your engineering society, turns out to be not the remedy but indeed the problem itself. It raises for me the question of who adjudicates the ethics of the engineering societies?

No need to respond; just venting some feelings.

It is likely that you know an old friend of mine Francis F. Lee of MIT whom I recently met in Peking, where he was teaching.

Sincerely yours,

Encl: AES matters

#### THE BENEFITS AND DANGERS OF STANDARDIZATION

by Stephen F. Temmer 1. November 1978

#### THE PROBLEM:

The recording industry is admittedly within reach of a new technology in the recording process, a technology which has been with us now in other signal processing aspects of audio since 1971. The digital recording form, as such, is fairly old. Its applicability to recording on magnetic tape is likewise many years old. Its appeal to our industry is recent only because its economics appear to be coming within range for the entertainment world. Admittedly, the introduction of digital technology into any phase of recording which requires interchangeability is problematical. But that's nothing new. How long did it take for a U.S. tape machine manufacturer to build a machine capable of also playing back and recording the CCIR tape recording characteristic, or a European one of playing an NAB tape? A mere matter of decades! Such incompatibility has been with us for as long as this industry has existed, and it will continue to be with us. Just try to take your TV set to Europe and see what you can tune in. In short, utopia is as far away as ever.

#### THE DREAM:

A world in which everyone uses the same format, language, sampling rate; in short every tape recorded digitally anywhere is playable everywhere.

#### THE NIGHTMARE:

That comes ten years later when we find out that we knew too little at the time we "standardized" to make a long lasting and intelligent decision.

#### THE ROLE OF THE A.E.S.:

The A.E.S. is undoubtedly well intentioned but, in the opinion of the writer, ill advised. I believe that every topic which concerns audio engineering should be aired within forums of the AES provided that such discussion never implies a search for consensus. I believe that in this phrase there hides the true danger, for consensus invariably invites its sister phrase "least common denominator". Study groups, I believe, are worthwhile and useful. They, by contrast to standards committees, may be composed of people seeking enlightenment. In other words, they may be tutorial in nature. Whenever such a group gives the impression that it is acting as a go-between among competitive interests, then I believe this not to be in the interest of the public which, were it to choose between compatibility, on the one hand, and diversification of knowledge and competitive engineering, on the other, would be well advised to choose the latter.

#### THE ROLE OF THE CONSUMER:

It is interesting to note that the consumer really doesn't get consulted in these deliberations. And frankly, all that will really be in it for him is higher prices. It is a well known fact that the principal complaints about music in the home are noisy pressings and poor cassette duplicates. I'm afraid neither of these will be significantly improved through the use of digital technology in the studio!

## THE BENEFITS OF INCOMPATIBILITY:

I believe that incompatibility has benefits to the consumer: it tends to discourage those technologies not worthy of his purchase. Just look at quad records as a good example of just such a case. But video cassette recorders, in at least four incompatible formats, are doing just great. If you want an example of incompatibility which was remedied long after the product appeared on the market place, look at 1" helical scan video tape recorders, where a standard was agreed upon between two marketed conflicting systems.

#### CONCLUSION:

I feel strongly that until digital becomes an all encompassing technology from the microphone right into the home, the possible benefits it holds for the consumer are miniscule. But that fact in and of itself does not justify, to my way of thinking, an effort which will likely stifle competition and creative thinking on a subject which needs innovation much more than it needs standardization for the foreseeable future. Perhaps in ten or fifteen years, we may be able to see more clearly where it is all going. Right now, I'm afraid that our ego is running away with our usually good judgement.

---.

10.November 1978

## To those concerned with digital audio recording...

All of you received two letters recently from Norman Schwartz, one dated October 20th, the second dated October 25th.

In the first letter Norm expressed "a great deal of concern" about the fact that the stopping of all procedures with regard to digital standards was based on my complaint to the Justice Department. In the follow-up letter he added a single sentence at the end in which he indicated that no communication had been received from the Justice Department.

I believe that both of these letters might leave such an inaccurate impression with you, that it is prudent to forward to you two items which I have written. One is a run-down of the events which led to the cessation of activities on the part of that Committee, and the other summarizes my thoughts on the entire matter of standardization as it applies to to-day's technology.

Early on in this situation, Emil Torick, AES President, asked me: "Steve, I've been racking my brains trying to figure out what's in this for you; how you can benefit from this." It is indeed sad to realize that people have become so suspicious that they cannot even consider that one's motivation could possibly come from principles and convictions. The fact is there's nothing in it for me except that I see lots of people discussing what is obviously of economic advantage to each and every one of them, while no one considers the viewpoints of the AES, chartered as an organization devoted to the advancement of the science — not the industry!

I hope that after you've had a chance to read the enclosed you too will realize that my stand, far from being opposed to the AES, indeed has been taken to defend the principles for which I believe the AES should stand. I do not believe the AES should ever become an industry association. I will appreciate hearing your thoughts on this subject.

Sincerely yours,

Stephen F. Temmer

Encl: (2)

P.S. THE DATE ON THIS LETTER IS CORRECT. THAT'S WHEN I ASKED AND WAS ASSURED IT WOULD BE SENT. IT HAS BEEN DELAYED UNTIL NOW, WHEN I ASKED IT BE RETURNED SO I COULD SEND IT MYSELF. IT THUS COMES TO YOU JUST IN TIME TO WISH YOU THE BEST FOR THE HOLIDAYS AND THE COMING YEAR.

The facts about my involvement with the Digital Standards Committee,

The Justice Department etc.

Ever since the organization of the Digital Standards Committee at the Fall Convention 1977 of the AES, I have felt strongly that this activity was improper. I wrote to John McKnight telling him of my thoughts in January 1978, and he replied to all of my questions basically indicating his disagreement with my views, but also stating that as for any legal implications of this standards effort, he was not informed and thought I should get the facts.

In an effort to "get the facts" I consulted with the Justice Department in February, indicating my feeling that this activity was against the law.

At the subsequent Board of Governors meeting in Los Angeles in May I was severely criticized by the Board for not having come to them first with my complaint; some of the members even felt I should resign. To underline the Board's feelings about the standards effort, a strong resolution was passed by a unanimous vote with only myself abstaining, which urged the digital standards committee to pursue its assignment with even greater vigor. This in the face of knowledge that the Justice Department was indeed investigating my complaint.

I subsequently met with the AES's lawyer Mr. Siverd at my request to once again explain my position on this question.

I do not know what happened as a result of this meeting except by inference when further meetings of that committee were cancelled. On October 20th a letter was written by Norman Schwartz, Chairman of that committee in which he informed the members "with great regret" that due to my complaint to the Justice Department all activity of the committee was stopped. At the Board of Governors Meeting held on 3. November in New York, Mr. Siverd was present and clearly showed that my standpoint had been absolutely correct and that any activity which attempts to standardize unmarketed technology was indeed in violation of anti-trust statutes.

It is clear to me that had I followed the Board of Governors' suggestion made in May that I bring this matter to its attention first, the only thing the Board would have done is what they actually did at their May meeting: sanction, without the benefit of counsel, what has since been revealed to be potentially illegal activity.

One activity which CSIT might try to promote is a course to train engineering students as "house doctors" to advise home owners on appropriate energy conservation measures for their houses, and to implement simple fixes. (Figures of 15 - 20% fuel savings without loss of comfort have been quoted for such fixes, and an overall savings from retrofit of as high as 75% [1] .) The availability of a sufficient number of such "house doctors" (we may want to come up with a better name) appears to be a key requirement to realize a large potential for energy savings. In addition to helping solve the energy problem, such training for many or all engineering students would have the following benefits:

- 1. Even if the opportunity to practice "house doctoring" never materializes, such a course would be worthwhile on its own merits for learning interdisciplinary engineering and as an introduction to social implications of technology.
- 2. If the opportunity to practice does come about (and I believe that it should, and probably will), then students would have the opportunity for part time or temporary work, that is relevant, toward financing their education. Note that if the energy savings are to be realized soon, then the peak need for this occupation would be for relatively few years.
- 3. There would probably be some demand for this service for a longer period, thus providing back-up employment for engineers, and hence a stronger economic position for all engineers.
- 4. Having this service provided by engineers or prospective engineers will (if properly provided) enhance the profession, giving opportunity for direct contact between engineers and the public.

Gerald Rabow January 13, 1980

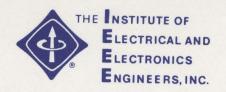
<sup>[1]</sup> Marc H. Ross and Robert H. Williams, "Drilling for Oil and Gas in Our Buildings", Report PU/CEES 87, Center for Energy and Environmental Studies, Princeton University, July 17, 1979.

Steve,

I have enclosed one possible (SIT activity which I want to being up as part of my proposal for a major (SIT effort in energy conservation.

Apon reflection on our recent telephone conversation. I think that I can best contribute to CSIT by conservation areas. I would in the rystems / energy conservation areas. I would not want to take on fruther administrative responsibilities, and in fact would like to relaining his my secretarial duties at an early date. I recognize your point that we should ale share in the administrative work, but I think that I've probably done my part for a while by having served as Accutary for the past two years.

Sincerely, Serabl Reban



345 EAST 47th STREET, NEW YORK, NEW YORK 10017

NEIL D. PUNDIT, Ph.D.
STAFF DIRECTOR, TECHNICAL ACTIVITIES

(212) 644-7890

January 30, 1980

Dr. Stephen H. Unger 229 Cambridge Avenue Englewood, NJ 07631

Dear Steve:

Congratulations on your appointment as Chairman of the Committee on Social Implications of Technology. In the enclosed package, you will find information concerning some of the services and materials available to you from TAB, as well as order forms, where applicable.

Also enclosed is your committee's membership roster, including the 1980 appointments made to date, for your use in the formation process of your committee for 1980.

We would appreciate receiving a revised 1980 committee roster from you at your earliest convenience, to aid us in preparing the TAB Roster for 1980. The TAB Roster and the TAB Manual are being forwarded to you under separate cover. Both of these items are in the process of being updated for 1980, but you may find much of the 1979 information of value.

If we can assist you in any way, please do not hesitate to call.

Sincerely yours,

Neil D. Pundit

NDP:sl



# TECHNICAL ACTIVITIES BOARD COMMITTEE ON SOCIAL IMPLICATIONS OF TECHNOLOGY

Please reply to:

REC'D BY JUL 9 1979 SYSTEMS RESEARCH

229 Cambridge Avenue Englewood, N.J. 07631

Dr. Bernard Friedland Aerospace & Marine Systems Group Kearfott Division 1150 McBride Avenue Little Falls, New Jersey 07424

July 5,1979

#### Dear Bernie:

Thank you for your May 24 letter inviting CSIT to hold a Committee meeting and to apply for a place on the program of the 1980 Joint Automatic Control Conference. I brought this matter up at our June 9 meeting, where there was general agreement to try to take advantage of the opportunity. I have also passed along copies of your letter to our associates in California, who would be the logical people to take action on the matter.

We appreciate your having given us this opportunity.

Yours truly

Stephen H. Unger

Acting Chairman, CSIT

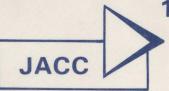
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1980 to fix exact date & fime.

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SHERATON-PALACE HOTEL, SAN FRANCISCO AUGUST 13-15, 1980

**ASME CENTURY 2 EMERGING TECHNOLOGY CONFERENCES** 

SPONSORING ORGANIZATIONS
AMERICAN INSTITUTE OF CHEMICAL ENGINEERS AMERICAN SOCIETY OF MECHANICAL ENGINEERS
INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS INSTRUMENT SOCIETY OF AMERICA

11 January 1980

PARTICIPATING ORGANIZATIONS: AMERICAN INSTITUTE OF AERONAUTICS AND ASTRONAUTICS SOCIETY OF MANUFACTURING ENGINEERS

#### **OPERATING COMMITTEE**

DR. BERNARD FRIEDLAND The Singer Company 1150 McBride Avenue Little Falls, NJ 07424 (201) 256-4000, Ext. 2696

Local Arrangements
DR. DAVID AUSLANDER School of Mechanical Engineering University of California Berkeley, CA 94720 (415) 642-4930

Publications PROF. LARRY M. SWEET Department of Mechanical and Aerospace Engineering Princeton, University Princeton, NJ 08544 (609) 452-5305

Publicity
PROF. DAVID HULLENDER Department of Mechanical Engineering University of Texas at Arlington Arlington, TX 76019 (817) 273-2561

#### PROGRAM COMMITTEE

Program Chairman DR. H. AUSTIN SPANG, III GE. Research and Dev. Ctr. Building 5, Room 207 Schenectady, NY 12345 (518) 385-8718

DR. L. TAPLIN (Vice Chairman)
PROF. L. D. DURBIN
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PROF. D. SEBORG
PROF. J. SPEYER
PROF. G. STEPHANOPOULOS

DR. L. TAPLIN (Vice Chairman)

Prof. Stephen H. Unger 229 Cambridge Avenue Englewood, NJ 07631

Dear Steve.

I'm writing again to remind you about the possibility of CSIT holding a meeting at the 1980 JACC. I noted in the minutes of a recent meeting that CSIT wants to do something, but I haven't yet heard from anyone.

I see that you are tentatively scheduled to participate with ASME's Technology and Society Division in a short course on engineering responsibility at the ASME Century II Emerging Technology Conferences, of which JACC is a part. The JACC would be another good place for those in IEEE and ASME interested in societal issues to get them aired; there will be a number of technical sessions on energy (solar, nuclear), pollution control, etc., which will attract engineers who CSIT is trying to reach.

The program committee is now putting together the final program, so it is necessary for CSIT to act expeditiously.

Sincerely,

Bernard Friedland

BF:wg



# Georgia Institute of Technology

### ENGINEERING EXPERIMENT STATION

ATLANTA, GEORGIA 30332

March 13, 1980

Dr. Stephen H. Unger 229 Cambridge Avenue Englewood, New Jersey 07631

Dear Dr. Unger:

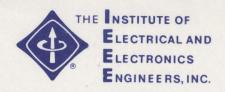
I regret that I am unable to attend the March 15, 1980 meeting of the CSIT due to current limitations on our travel budget.

I would suggest modifying your draft letter (Exhibit C) on Jerome Suran's testimony. The following phrase should be added to the end of Item 1, "even though this is one of the most viable near-term alternatives".

Sincerely,

Donald G. Bodnar

DGB/rcf



345 EAST 47th STREET, NEW YORK, NEW YORK 10017

### TECHNICAL ACTIVITIES

TELEPHONE: 644-2150

Dr. Irving Engelson, Manager Committees & Special Projects

November 20, 1979

Dr. Stephen H. Unger 229 Cambridge Avenue Englewood, NJ 07631

Dear Steve:

Per our phone conversation of this afternoon, I am returning the October 3 expense report submitted by Frank Kotasek in connection with his attendance at a meeting on TMI in Washington, D.C. on October 2-3. As you know, CSIT does not have travel funds allocated to it. On rare occasions when travel is reimbursed, it requires the prior approval by the TAB Chairman.

I have checked with Neil Pundit if there are any exceptions to this rule and I regret to say that there aren't any. Therefore, since Frank's trip did not have Dr. Hogan's prior approval we cannot arrange for payment of these expenses. The only possible alternative that I can see is an attempt by you to contact Dr. Hogan and persuade him to make an exception.

Sincerely

Irving Engelson

Enc.

cc: F. Kotasek

IE/amh



# TECHNICAL ACTIVITIES BOARD COMMITTEE ON SOCIAL IMPLICATIONS OF TECHNOLOGY

3/1/80

Please reply to:

Near wars. Reisman:

Enclosed is a copy of the tentature age la forth =/15 CSIT with. It shall go out will the meeting retice. On moday you will alwrecein from Frank Rotasele putally hand delivered) a druft of a covering letter and petition for the Commercia of CSIT to a breidy. This to should go out with the meeting notice.

Some further corretioniste the Roster:

Begunil is run.

Fairman is mr. James F. Fairman, fr.

Redfield is Dr.

Publi is Dr.

Achwarty is Dr. R. J. Schwarz (note spelling).

your truly, Styphen H. Muger (Chavin CSIT).

5/7/8 229 Combridge Ore Plac Vr. Birmbaun: In response to your 4/28 note, I'm andre a copy of -the CS37 rester. Under squarte con you shall receive copy of the member of our last meeting, chil should qui you some coler of what we re up to. Other infrantion on this is contained in Technology of Society. I would be happy to supply any other tend of intent to you at to arms specific questions or with activities of plans. We have tentally solded our much 2 muly (aft 5/17) for 9/13 al 11/15. Perhaps you could array you soldule to be able to make one of those in which care we would all be we pleased to meet you prisonly. Best reger, Atu Chage 13 Signiture of ar polition for Sicily Status (and with

Also included with this notice please find a Tentative Agenda.

Please bring this cover letter with you for identification to Campus Security.

MR/amh

Dr. Stephen H. Unger 229 Cambridge Avenue Englewood, NJ 07631

IVPlan to attend the CSIT meet College Walk.

Dr. Milton Birnbaum
The Aerospace Corporation
Post Office Box 92957
Los Angeles, Calif. 90009

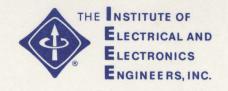
intend to park on

NAME					
MAKE OF	CAR				_
LICENSE	DI ATE	#			

Would appreciate a membership list of CSIT and papers describing recent activities of CSIT.

Aricerely.

Mr. 4/28/80



345 EAST 47th STREET, NEW YORK, NEW YORK 10017

## TECHNICAL ACTIVITIES BOARD **ENVIRONMENTAL QUALITY COMMITTEE**

PLEASE REPLY TO:

May 19, 1980

Dr. Stephen Unger Columbia University Electrical Engineering Dept. S.W. Mudd Building New York, NY 10027

Dear Dr. Unger:

I have been notified by Mr. Bernard Manheimer, Chairman of the Environmental Quality Committee, that he has appointed Mr. Lester Nagel as the EQC representative to CSIT. By copy of this letter to Mrs. Mona Reisman, CSIT Administrator, I am requesting that she forward background material on CSIT to Mr. Nagel. His address is:

> Mr. Lester Nagel 54 Dale Drive Summit, NJ 07901 (212) 264-0994 - Business

> > Sincerely,

Audrey R. Bickel

Administrator

cc: B. Manheimer

L. Nagel

M. Reisman

Anthinate
factor 5/27/80



# TECHNICAL ACTIVITIES BOARD COMMITTEE ON SOCIAL IMPLICATIONS OF TECHNOLOGY

Please reply to:

299 Cambridge Avenue Englewood, N.J. 07631

May 20, 1980

Mr. E.K. Gannett IEEE Headquarters 345 East 47th Street New York, NY 10017

Dear Mr. Gannett:

This is in response to your May 16 letter on the question of magazine status for Technology and Society. Because of a prior commitment I will be unable to attend the June 17 meeting of the Publications Board. However, Mr. Frank Kotasek, Jr., formerly T&S editor and currently an associate editor has agreed to appear in my place to present our case. In accordance with your suggestion he will arrive before 9:30 so that this can be the first item on your agenda.

Thank you for your cooperation.

Yours truly,

Stephen H. Unger Chairman, CSIT



Please reply tot

May 27, 1980

Mr. Subrata K. Sarkar c/o Generaldirektion PTT CH-3030 Berne Switzerland

Dear Mr. Sarkar:

Thank you for your May 13 letter with petition signature and enclosures.

We would be very pleased to receive from you, for publication in Technology and Society, one or more articles based on the work of your group. A general report on its activities (in English) would also be welcomed for publication.

At this time, over 320 signatures have been received on our petition for society status. We need as many more as possible; if you could circulate the petitions among your colleagues and get the results back to be my about July 7, it would be most helpful. Mailing copies to acquaintances at other locations, asking them to get their associates to sign is often very effective.

Yours truly,

Please reply to:

229 Cambridge Avenue Englewood, N.J. 0763]

July 2, 1980

Mr. William H. Underwood Long Island Lighting Company 175 East Old Country Road Hicksville, New York 11801

Dear Mr. Underwood:

It is a pleasure to welcome you to CSIT as a PES representative.

Our next 2 meetings have been tentatively scheduled for September 13 and November 15 (Saturdays from about 10:15 to 3:00) at Columbia University. You will recieve meeting announcements and preliminary agendas several weeks in advance of each meeting. Please let me know if you have any questions.

Yours truly,

Please reply to:

229 Cambridge Avenue Englewood, N.J. 07631

July 2, 1980

Mr. Leonard W. Thomas, Sr. 1604 Buchanan Street, NE Washington, D.C. 20017

Dear Mr. Thomas:

It is a pleasure to welcome you to CSIT as a EQC representative.

Our next 2 meetings have been tentatively scheduled for September 13 and November 15 (Saturdays from about 10:15 to 3:00) at Columbia University. You will receive meeting announcements and preliminary agendas several weeks in advance of each meeting. Please let me know if you have any questions.

Yours truly,

IEEE



POWER ENGINEERING SOCIETY

OFFICE OF THE PRESIDENT John E. Barkle

Please address reply to: **Bechtel Power Corporation** P.O. Box 3965 San Francisco, CA 94119 (415) 768-8443

June 9, 1980

Dr. Stephen H. Unger Columbia University Electrical Engineering Dept. S. W. Mudd Building New York, NY 10027

Dear Dr. Unger:

The Administrative Committee of the Power Engineering Society has elected William H. Underwood as its representative to the TAB Committee on the Social Implications of Technology effective at this time. Please arrange to add Mr. Underwood to the Committee roster and send him information concerning Committee activities and meetings.

Bill is also chairing a committee within the PES which is concerned with informing members and the public about the interfaces and interactions between power technology and society.

His Address and telephone contact are:

Long Island Lighting Company 175 East Old Country Road Hicksville, NY 11801 (516) 733-4171

Sincerely,

cc: W. H. Underwood Irving Engelson Esmi Bidstrup Prof. G.P. Rodrigue R. E. Larson

R. T. H. Alden P. T. Ashton L. O. Barthod M. A. Sager

JEB/sy

7/28/80 mr. Bradley J. Willcockson 229 Cambridge dre. Englewood, n.J. 07631 2364 Leicester Rd. Jeicester, n. y. 14481 Wear Mr. Willcockson; Thank you for your peteteri signiture and expression of interest in CSIT. Here are a few ways in which you can become active in CSIT octaintees ( you might come up with some other ideas as well): (1) Come to one of our meetings (currously being held at Columbia Unity in NYC). New 2 reladuld for 9/13 & 11/15 at 10:15 An - 23 am Let me know if you might be able to attend of Ill get further information to you. (3) Solicit Tas subscriptor's from arrang your colleagues, annual rate is now \$3/yr. (Early subscriber for 1981 well got the 12/x0 issue at no number. If you send in a number of names together, a single check would suffice for all (at \$3 each). mail to IEEE menter Services 445 Hoes Lane, Piscataway, n.J. 08854. write or solicit from alleagues articles, book reviews, reviews of meeting remons, etc. for Tols. (4) Organize or help organize a technology society serior in some appropriate type of an conjunction will some IEEE meeting (local or material). apristraly 11 Muses Chinin, CS87

7/24/80 Dr. Frak Valtyged Center for Energy od Emericantal Studies Princeto, Unio 9 88540 Wear Frank: I'd like to thank you again for your article ( which appeared in the fine ism of Technology and Society). It was very well received. Let me from if you have anything else that might fall wither our supe The next 2 meetings of CSIT will be a Saturday, 10:15-3:00, Sept. 13 al nov. 15. They are generally held at Columbia Certify you could fit one of there in? Wap we a line or Call me 1201/567-592; . Bed rugte,



P.O. Bex 19403 OTA Station Orlington, Texas 76019

Please reply to:

229 Cambridge due. Eyland, N.J. 07631

6/30/80

Wear ms. Blackwell:

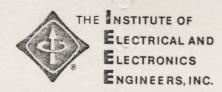
in CSIT.

number for consideration) but the more we get, the stronger our Case, which will go before TAB July 17.

Enclosed is a recent copy of our publication, which should give you a reasonable idea of what CSIT is about. (Note the brief historical account on p.3.): a submitten form appears on the back. If you feel our efforts ment your support, you could help by subscribing, asking your collegants subscribe and getter; additional significant on our putition (p.4), which should get back to me by July 15.

Jet me hum if there are other questions.

Styler Hellinger



#### AEROSPACE AND ELECTRONIC SYSTEMS SOCIETY

OFFICE OF THE PRESIDENT Rudolf A. Stampfl

PLEASE REPLY TO:
Naval Air Development Center
Code 20
Warminster, PA 18974
11 March 1980

TO: IEEE Directors - Regions 1-6

#### Gentlemen:

A large number of members of my society are residing in the United States Regions and they need your support. The problem can readily be understood by reading the enclosed letter to Mr. Urban, which I request you read, perhaps, before you continue reading this note. Its author is real and I removed his name for apparent reasons.

The International Traffic in Arms Regulation regulates not only arms sales, it also rules on export licenses of items it deems to be in the advanced technology category, quite properly, to avoid disadvantage to the United States. Beyond, it regulates the kind of advanced technology information that can be published outside the United States. Conferences in the United States in which foreign nationals are present constitute export of high technology information! Thus, all IEEE conferences export technology information when foreign nationals are present. An article, enclosed, from the New York Times of 22 February 1980 states this in the words of Mr. Knowles.

There is no problem with properly cleared papers by the Defense Department and, likewise, the present restriction of information to the Soviet Union, as a tool of foreign policy, is not at issue. However, industry without defense work and members working for it are readily intimidated arbitrarily by the all-encompassing wording of the rules which have, in our opinion, no basis in law. It simply curtails directly or by intimidation the freedom to publish. The enclosed letter is a good example of the effect on IEEE members. No case has ever been tested in court and no one is likely to volunteer.

The enclosed copy of the <u>AES Newsletter</u> shows additional confusion in paragraph 3 of that report. In order to obtain an equitable explanation of this matter of importance to many United States IEEE members, I suggested and still propose that USAB examine a concern of United States members, and I introduced the enclosed resolution in the Technology Activity Board meeting in December 1979 for that

purpose. Although I convinced a significant minority of the importance and urgency of the issue in December, I failed to obtain a majority of votes. This outcome of the TAB non-action was used in the USAB OPCOM meeting in January 1980 to stop further effort by USAB. Prior to the TAB meeting, I had informed the VP-USAB for 1979 of the plan through my enclosed letter, and he was prepared to act and proceeded at that time to collect background material.

In late January 1980, my Board of Governors voted to instruct me and a committee of two other members to continue to examine the matter, which I shall continue to do. USAB's leadership could, however, be much more effective as a nationwide spokesman for the Institute.

The question has been raised, "What does AES specifically expect USAB to do?" I consider it demeaning to propose a roadmap for USAB on how to proceed with a national issue. More to the point, "What are the results we hope for?" AES does not endeavor to change the law that governs export control. AES, however, does expect to change the regulations that regulate the information flow of concern to our members, and AES does expect clarity in the procedures that permit publication and participation in conferences as either author or attendee.

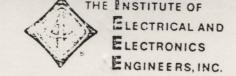
Sincerely yours,

R.A. May

R. A. STAMPFL

Encl: (5)

Copy to:
C/S/C Presidents
Chairman, CSIT
Members, Technical Activities Board
Members, AES Board of Governors
Members, Board of Directors
Members, Executive Committee
Dr. Gowen



### AEROSPACE AND ELECTRONICS SYSTEMS SOCIETY

27 February 1980

PLEASE REPLY TO:

Mr. Louis J. Urban ASD/AX Wright-Patterson Air Force Base Dayton, Ohio 45433

Dear Lou:

The last time we discussed the Export Control item for the Technological Policy Conference, I indicated that I had prepared an agenda item for the USAB meeting in January, and would rely on their staff to determine current status. I believe you got a copy of my 7 January letter to Dave Dobson, enclosing the recommendations for that USAB action.

Since that time, two important things have happened:

- (1) The TAB has not only reaffirmed their intentions to do nothing and learn nothing, but have successfully insisted that USAB do and learn nothing.
- (2) The State Department has apparently invoked ITAR as a bar to attendance of USSR people at certain U.S. conferences.

In view of the high level politics involved, and apparent State Department intention to read into the ITAR various powers or responsibilities which are far removed from even their own broad wording, I don't believe anyone in IEEE who is dependent on the U.S. for employment can afford involvement in the issue. It is a job for paid IEEE staff people and will have to wait until IEEE executives are ready to learn something about the problem.

I'm sorry to back out of the conference at this late date, but I can only interpret IEEE policy to require a "see no evil, speak no evil" attitude on the issue at this time.

With best regards,

### ce Dept. Bars Soviet Scientists Invited to Two Technical Parleys

By WALTER SULLIVAN

In an effort to prevent the transfer of official, Sharon Connolly, who heads the technological information to the Soviet Union, the United States has blocked the entry of specialists from the Soviet bloc who had been invited to two international conferences in California.

Other foreigners attending one of the meetings, a conference on computer technology that ends in Santa Barbara today, were required to sign a Government pledge that they would not reveal information from its sessions to citizens of Communist countries, including China.

The several dozen foreigners, about half of them Japanese, signed the pledge, according to the conference organizers. There was initial confusion among Americans who thought that they, too, would be required to sign, but they were not required to do so.

#### Chinese Reported to Sign

The inclusion of China in the signed pledge was an embarrassment to the organizers as three Chinese scientists had already arrived. But the Chinese were finally admitted after the first day, and the organizers said the Chinese, too, agreed to sign the pledge, prohibiting them from divulging information to China.

These United States Government actions coincide with efforts to curtail the transfer of technology to the Soviet Union in the wake of its intervention in Afghanistan. But the moves have caused outrage among American scientists.

The Commerce Department, which said the pledges were needed to avoid riolation of laws in technology transfer, lenied that they were a novelty. But an

compliance division in the Office of Export Administration, said she could cite no previous instance because no records of such pledges were kept.

Dr. J. Allen Bromley, Yale University physicist and president-elect of the American Association for the Advancement of Science, said the pledge requirement and efforts to curtail scientific contacts were "playing into the hands of the hard-liners" in the Soviet Union. Other physicists said secrecy pledges might altogether discourage international meetings in the United States.

The other conference, which starts in San Diego on Tuesday, is on lasers, electro-optical systems and inertial confinement fusion, which is a nuclear technology field. Its sponsors are the Institute of Electrical and Electronics Engineers and the American Optical Society. A Soviet scientist is listed on the confer-

ence's European organizing committee.

Dr. Jarus Quinn, president of the Optical Society, said he knew of five Soviet scientists who had been invited but had been denied American visas. Another Soviet scientist, in Texas on an exchange, was scheduled to present a paper, but was denied permission to visit San Diego, according to Dr. Quinn.

Dr. Quinn said he believed the State Department was concerned about information the visitors might glean from exhibits at the meeting. A State Department spokesman said the restrictions followed long-standing policy.

Dr. Lewis Branscomb, vice president for research of International Business Machines Corporation, expressed dismay over the Government actions on the ground that Americans stand to gain from Soviet exchanges. It is a question, he said, "whose nose is being bitten off to spite whose face."

Dr. Branscomb was science adviser to President Carter during his first Presidential campaign and voiced doubt that the Commerce Department action reflected White House policy. A spokesman for the White House's National Security Council said he had no knowledge of the restrictions.

new yark Times 2/22/80

The three-day Santa Barbara meeting, to which specialists from Eastern Europe and the Soviet Union were invited, dealt with bubble memories, a technology applicable to computers. It was organized by the American Vacuum Society, whose president is Dr. John L. Vossen of RCA Laboratories of Princeton, N.J.

On Feb. 11, Dr. Vossen learned that the Commerce Department had asked conference organizers to rescind the Sovietbloc invitations. On Feb. 19 Dr. Vossen received a letter from Kent N. Knowles director of the department's Office of Export Administration, stating that, under Part 379 of the office's regulations, "oral" exchanges of information in the U.S. with foreign nationals constitute the export of

technical data." Such exports to the Soviet bloc must be licensed, he added. Two hours before registration at the conference, Dr. Vossen received a phone call from the Commerce Department in which the wording of the pledge to be signed by registrants was suggested.



### INSIDE AESS

#### AESS MEMBERS ELECTED IEEE FELLOWS

Fourteen members of the AES Society have been honored by the IEEE in their election to IEEE Fellow grade. Those members elected to the highest grade of membership are:

Elliot I. Axelband

Israel Bar-David
Joseph V. Charyk

Floyd M. Gardner V. Gregers Hansen

Richard G. Hoft

Bernhard E. Keiser

John J. Kelleher V. Prasad Kodali

Shota Miyairi

Robert A. Rivers

Lon L. Sanders

Marjorie R. Towns Frederick C. W For fundamental contributions to the outstanding leadership of spacecr

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TIPS FOR TECHN

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development.

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on of microwave technology and for contributions to the

and continuing technical leadership in the development and Microwave Landing System for use by civil and military air-

and technical contributions in the space exploration program.

ons to the development and application of pulse Doppler and imaging

DOT

#### MEER AWARD

receive L at NAECC May 20-22. an, has been selected to ard. This award is presented held in Dayton, Ohio on

### INTERNATIONAL TRAFFIC IN ARMS REGULATION (ITAR)

The International Traffic in Arms Regulations (ITAR) places legal restrictions on the disclosure of certain unclassified technical data to foreign nationals, and are applicable in some cases to professional papers and presentations and to informal discussions by U.S. engineers. Because the definition of technical data has been broadly drawn, and the procedural requirements for its release may not always be met when IEEE members participate in conferences here or abroad, the AESS Board of Governors has explored the issue and offers the following information.

In addition to classified information, "technical data" includes "(a) any unclassified information that can be used, or be adapted for use, in the design, production, manufacture, repair, overhaul, processing, engineering, development, operation, maintenance, or reconstruction of arms, ammunition, and implements of war on the U.S. Munitions List; or (b) any technology which advances the state-of-the-art or establishes a new art in the area of significant military applicability in the United States."

In conversations with the Office of Munitions Control,

the following points evolved:

1. The ITAR makes no distinctions between international conferences held in the U.S., and those held overseas, and other meetings here or abroad at which foreign nationals may be present (this includes all IEEE

meetings).

2. Material in published form or approved for public release by a (qualified) U.S. Government agency is exempt from licensing provisions of ITAR in that customs and postal authorities are authorized to permit its export without a license. Presumably this also covers disclosure to foreign nationals in the U.S., and oral presentations overseas.

3. In apparent conflict with the above, the OMC has specifically directed that "professional presentations and informal discussions at overseas conferences and trade shows be forwarded to OMC prior to the event." Employers of IEEE authors and speakers are understandably confused as to whether OMC review is required in addition to DOD release. In many cases, the employers either decline to approve a paper, because of the possible problems, or submit it to OMC after internal and DOD approval (OMC has in the past, accepted such "exempt" material for review and has issued export licenses for it).

In view of the number of Executive Branch offices involved in enforcing these regulations there is some confusion on proper interpretations of the requirements and limitations. The AES Society is trying to clarify the effects of these regulations on IEEE publications and con-

ferences.

#### INTERNATIONAL RADAR CONFERENCE

The 1980 International Radar Conference sponsored by the IEEE/AESS and the IEE(UK) will be held in Washington, DC in April 28-30, 1980.

A heavy emphasis is being placed on the contributed papers with a modest supplement of carefully selected in vited papers to round-out the program. A two parallel session format is expected for the three days with such synchronism that moving from session to session between papers is possible without "losing your place" in the program.

Rather than the usual keynote single address, the first-morning plenary session will feature a quick review of the teachings of the 1970's and some panel discussions by distinguished community members to take us into the government and private expectations of the 1980's.

Finally, other displays or events associated with the tools of our trade, such as hand-held calculators and the newest publications, are being planned as a further service to the attendee. Contact: General Chairman R. T. Hill, Conference Office, 777 14th Street, N.W. (Suite 917), Washington, D.C., 20005.

#### CARNAHAN CONFERENCE

The 14th Carnahan Conference on Crime Countermeasures will be held on May 14-16 at Carnaham House, 1701 Newton Pike, Lexington, KY. This meeting is sponsored by the AES Society and the University of Kentucky. Contact: Sue McWain, (606) 257-3971.

### SOCIETIES STUDYING MODEL AGREEMENT ON INVENTIONS

The USAB at its meeting last December considered a Proposed Model Agreement Concerning Inventions and Discoveries and Proprietary Information. They are now circulating the proposed agreement to RAB and TAB entities for comments and suggestions. See section INSIDE USAB, this issue, for details.

#### NAECON'80

The 32nd NAECON will be held in Dayton, Ohio during May 19-23, 1980. Further information is available from NAECON office, 140 Monument Avenue, Dayton, Ohio 45402. Exhibits information: Jay Muse, (513) 223-6266.

#### 1980 POWER ELECTRONICS SPECIALIST CONFERENCE

The eleventh annual IEEE Power Electronics Specialists Conference, cosponsored by the IEEE Aerospace and Electronic Systems Society, will be held in Atlanta, Georgia on June 17–19, 1980.

Five other IEEE Societies are cooperating in the 1930 PESC: the Electron Devices Society, the Industrial Electronics & Control Instrumentation Group, the Magnetics Society, the Power Engineering Society, and the Circuits and Systems Society. A local IEEE Section, and Region Three Atlanta Section, will co-sponsor the conference.

### TIPS FOR TECHNICAL COMMITTEE CHAIRMEN

#### Introduction

This article contains various tips and information of value to technical committee chairmen in the management of their committees and sub-committees. None of this material is intended to be restrictive; it is intended for guidance only.

Four major topics will be discussed. They are Organizing, Getting the Job Done, Being Part of the Group/-Society, and Getting the Most from Your Members.

#### Organizing:

If you are a new committee chairman or chairman of a new committee your first task is to recruit some help. It's difficult, if not impossible, to work alone. Here are some tips on getting the help you need.

The first approach is a person to person request to your friends working in your field. Tell them generally what you have in mind, where you need help, and ask for their

support

Another approach, very similar to the one just described, is to contact well-known persons in the field whom you think could help you. An executive in an organization will frequently volunteer someone to you but be sure the volunteer is interested in helping you.

Finally, many chairmen have found it helpful to place a notice in the Group/Society newsletter asking for volunteers. This technique smokes out many willing

workers who otherwise may be missed.

When you have obtained an adequate list of prospective committee members and next logical step is to hold an organizational meeting. The primary purpose of this meeting will be to agree on a well-defined field of interest and, if appropriate, set up some subcommittees.

RNATIONAL TRAFFIC-IN ARMS REGULATION (ITAR)

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Item: Resolution Concerning International Traffic in Arms Regulation (ITAR)

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Requested Action: Endorsement for USAB action.

The ITAR makes no distinctions between international conferences held in the U.S., and those held oversess, and other meetings here or abroad at which oreign nationals may be present (this includes all IEEE meetings).

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The following resolution is offered for TARL

Whereas, IEEE members cannot be given clear guidelines as to publishable material with regard to ITAR regulations and

Whereas, IEEE sponsored meetings in the U.S. and overseas are seriously impeded and

Whereas, the freedom for publication of academic scientific results is wiously impeded

BE IT RESOLVED that USAS shall make every effort to obtain written clarification from OMC as to publications at any IEEE conference regardless of source.

22:11

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The following resolution is offered for TAB:

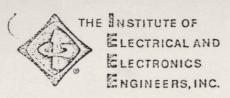
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22:11



#### AEROSPACE AND ELECTRONIC SYSTEMS SOCIETY

OFFICE OF THE PRESIDENT Rudolf A. Stampfl

PLEASE REPLY TO: Naval Air Development Center Code 20 Warminster, PA 18974

18 Oct 1979

Dr. Bruno O. Weinschel One Weinschel Lane Gaithersburg, MD 20760

Dear Bruno:

My predecessor, Lou Urban, in cooperation with Dave Barton, has attempted to find a solution to the ITAR question. As discussed with you over the phone, I request that USAB take on the task to find clarification as to what our members may publish without government clearance. Dave states the four questions clearly in his letter of 23 August 1979 and in his Attachment B of that letter.

While he attempted to obtain an "understanding", I side with IEEE council that only written opinions are the basis for advise to our members. The question is clearly one transcending beyond AES and indeed, puts every author at IEEE conferences in jeopardy who does not request clearance beforehand.

With kindest regards,

R. A. STAMPFL President, AESS



Please reply to: 229 Cambridge Ave. Englewood, N.J. 0763

April 11, 1980

Mr. Rudolph A. Stampfl Naval Air Development Center Code 20 Warminster, Pennsylvania 18974

Dear Mr. Stampf1:

I have received (by copy) your 11 March letter with attachments to IEEE's Regions 1-6 Directors on the potential of ITAR to inhibit domestic publication of non-classified technical information. As you probably know, CSIT has expressed concern about this matter ever since the cryptology episode a few years ago. (Enclosed are copies of 2 relevant articles from our quarterly, Technology and Society).

If there is anything our Committee can do to support your efforts to rectify the situation, we would be happy to cooperate. You might also consider sending me an article on the subject for publication in <a href="Technology">Technology</a> and Society.

Yours truly,

Stephen H. Unger Chairman, CSIT

SHU/nkb



Please reply to:

229 Cambridge Avenue Englewood, N.J. 07631

Mr. Hiltow U. Brown, III
IBM Corporation
1133 Westchester Avenue
White Plains, New York 10604

Dear Mr. Brown:

Since Dr. David Redfield has indicated that the press of other obligations makes it necessary for him to resign from the Energy Committee, I am appointing Dr. Anthony D. Robbi to succeed him as CSIT Representative on the Energy Committee.

Yours truly,

Stephen H. Unger Chairman, CSIT

cc: Dr. David Redfield Dr. Anthony D. Robbi

SHU: mac



OFFICE OF THE PRESIDENT

JUL 3 0 1980

PLEASE REPLY TO: Roger D. Madden 2025 M Street, N.W. Room 5002 Washington, DC 20554

Dr. Stephen Unger 229 Cambridge Avenue Englewood, New Jersey 07631

Dear Dr. Unger:

Vehicular Technology Society has recently appointed Dr. James J. Mikulski as its representative to the Committee on Social Implications of Technology. Please include him on your committee meeting mailing list.

Jim Mikulski is an inventive engineer, working in land mobile radio - an interest area which has many sociological ramifications. I am pleased that Jim has taken on this assignment, and I'm sure he has much to offer your committee.

Sincerely,

Roger D. Madden



Please reply to: 229 Cambridge Avenue Englewood, NJ 07631

August 6, 1980

Dr. James J. Mikulski 1137 Laurel Avenue Deerfield, IL 60015

Dear Dr. Mikulski:

It is a pleasure to welcome you to CSIT as a representative of the Vehicular Technology Society.

Our next two meetings have been scheduled for September 13, and November 14 (Saturdays from about 10:15 A.M. to 3:00 P.M.) at Columbia University. A meeting announcement with the preliminary agenda will be sent out in a few weeks for the September meeting.

Please let me know if you have any questions.

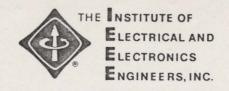
Stephen N. Vinger (MSR)

Yours truly,

Stephen H. Unger Chairman, CSIT

cc: Roger D. Madden

SHU/amh



345 EAST 47th STREET, NEW YORK, NEW YORK 10017

#### TECHNICAL ACTIVITIES

TELEPHONE: (212)644-7887

May 20, 1980

Mr. Lester Nagel 54 Dale Drive Summit, NJ 07901

Dear Mr. Nagel:

I have been notified to add your name to the CSIT roster as the EQC representative.

Enclosed please find copies of the last two CSIT mailings which include: the January 22 and the March 15th minutes, information and petition of CSIT's drive to convert to an IEEE Society, and the latest roster. I hope this will provide you with the neccessary background information.

If I can assist you in any way, please do not hesitate to contact me.

Sincerely,

Mona Reisman

Administrator
TAB Technical Committees

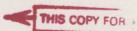
Mona Reisman

MR/1bw Encls.

cc: A. Bickel

B. Manheimer

S. Unger



### Columbia University in the City of New York | New York, N.Y. 10027

DEPARTMENT OF COMPUTER SCIENCE

Seeley W. Mudd Building

July 30, 1980

Mr. Frank Manley 2910 Floral Blvd. Butte, Montana 59701

Dear Frank:

As I believe I mentioned to you earlier, your activities in the area of appropriate technology would be of great interest to members of the IEEE Committee on Social Implications of Technology, of which I am currently chairman. We put out a quarterly publication, Technology and Society, and would be happy to receive, from you or your associates, articles ranging from short to moderate length pertaining to the general philosophy of AT, specific applications, etc. Notices about the forthcoming conference you talked about in Troy would also be suitable.

Give my regards to Tom Rogers (and remind him that we have also been publishing articles on engineering by philosophers).

Yours truly,

Stephen H. Unger

SHU/mlr



Please reply to:

229 Cambridge Avenue Englewood, N.J. 07631

August 4, 1980

Mr. Stephen F. Temmer Gotham Audio Corporation 741 Washington Street New York, N.Y. 10014

Dear Mr. Temmer:

This is to remind you of our correspondence earlier this year and to renew my invitation to you to:

- (1) Come to a CSIT meeting (next one to be Sept. 13, 10:15 at Columbia. I'll have the notice sent to you if you wish. And the one after that is tentatively Nov. 15.)
- (2) Write an article for T&S on standards (or some other topic if you wish.)

I look forward to meeting you.

Stephen H. Unger

August 4, 1980

Stephen H. Unger 229 Cambridge Avenue Englewood, NJ 07631

Dear Steve;

We have arrived in Oregon and are somewhat settled. We are currently renting since our house in Virginia still has not sold. Things have been quite hectic but fortunately we have had no serious problems.

The mail has been slow reaching us and I have had no CSIT news since leaving Virginia. I have sent an address change notice to IEEE but I don't know how long that will take to effect my CSIT address. I would therefore appreciate your checking the appropriate IEEE people to see that my address is changed. I would also appreciate your sending me the Washington and Oregon names on the CSIT newsletter list. It will probably be some time before I can show much activity but I do plan on remaining active.

I haven't heard anything from the DC group yet. I hope things are moving there.

Regards,

Serry

Terry L. Hewitt

17165 SW Merlo Road #1 Beaverton, OR 97006

503-642-1069

Columbia University in the City of New York | New York, N.Y. 10027

DEPARTMENT OF COMPUTER SCIENCE

Seeley W. Mudd Building

August 11, 1980

Mr. William W. Schwarze 87 Pugh Road Wayne, Pennsylvania 19087

Dear Sharon and Bill:

I wonder if you would be willing to write an article for our IEEE quarterly, Technology and Society on the way employee engineers are and/or should be treated with respect to patent rights? Length is no problem - say 1000-5000 words. I think you've done some very interesting work.

Best regards,

Stephen H. Unger



Please reply to:

229 Cambridge Avenue Englewood, N.J. 07631

August 7, 1980

Mr. George Sinclair 122 Rayette Road Concord, Ontario L4K 1B6 Canada

Dear Mr. Sinclair:

I recently received, from Leo Young , a copy of your June 26 letter to the IEEE Board of Directors in which you raise a number of interesting questions about the definition of technology, the nature of engineering and the nature of industrial innovation.

These issues are all of great interest to members of our committee. One or more articles by you on these topics for our quarterly publication Technology and Society would be most welcome and would, I believe, initiate an interesting dialogue.

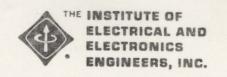
Stephen H. Unger

Chairman, CSIT

cc: Leo Young

Professor Norman Balabanian

SHU: mac



Please reply to:

Mrs. Wor Wilson 3 whitesel Court Summt, N.J. 07901 Wear Non:

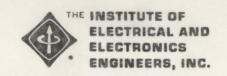
9/15/8 229 Carbridge ave Eyland, 71- j. 07631 (201)567-5923 or (at work) (212) 280-3107 022736

Before you change your mind, I'd like to take up your Her to help with the ether jurged CSIT's conditably. Endoud is a copy of the proposal made to USAB.

Perhaps you would like to take change of item # 1. Bearing in mid Esme Bedstrup's point that adding anythy. to the dues notice mailing would cost ~ \$60,000 (due to the fact that it would mean crossing a weight threshold) we probably sheld the interms of on insert for Spectrum or the firsteliet. a detailed Springister is what is called for.

If you would prefer working or one of the other items instead (or in addition) or of you have any other ideas, let me know. In a levert are sheld publicly discun this by phone in the not distant future.

Best regul, Steve



9/15/80

Please reply to:

mr. Jock Jallow 166 East 61 St. New York, Nry. 10021

229 Cambridge Ove. Englaved, N.J. 07631

Wear Jack: Lenjoyed our commenten last week.

at our CSIT meeting this part Saturday, we decided to priced with the application for a Society on Social Splications of Technology (SSIT) and so I shall activate the address committee appointed by Bob Jacon to draft a Constitution. In line with our conversation, I am enclosing the 2 most recent when of TdS (the light issue is more being printed) and a copy of creat the CSIT charter.

Please give me any suggestions you may have for the first draft of the SSIT constitution. My intent is to select a constitution of an existing society, replace the field of interest statement with scope statement of the CSIT charter and add mostly the ABCON by adding a members appointed by Niverseil Winters. Let me know if you have ay feeling about what constitution to war. I'll try to get somethy out for comment in a few weeks.

Justify the your fast.



PLEASE REPLY TO:

George F. Bobart Westinghouse Electric Corp. P.O. Box 300 Sykesville, Md. 21784

December 23, 1980

Dr. Stephen H. Unger Chairman, CSIT 229 Cambridge Avenue Englewood, NJ 07631

Dear Dr. Unger:

I appreciated your letter of December 19, 1980 and offer for the I.A.S. Society to identify a representative to CSIT. Due to the holiday season, we, unfortunately, will not be able to identify and provide a delegate to attend your next meeting on Saturday, Jan. 17, 1981. We will discuss this subject at our next Ad Com meeting on Feb. 3, 1981 in Atlanta and keep you posted on any special participation planned by the Industry Applications Society.

Sincerely,

George F. Bobart, President-Elect, I.A.S.

GFB/bgo



Please reply to:

229 Cambridge Ave. Englewood, N.J. 07631

Mr. James F. Fairman, Jr. Suite 1022 2025 I Street, N.W. Washington, D.C. 20006

October 1, 1980

Dear Jim:

At our September 13 CSIT meeting, we discussed the status of ethics activity in IEEE, a matter that, as you know, has been of prime concern to our committee from its inception. In order to bring us up to date on what MCC has been doing and to facilitate cooperation with MCC, the committee formally instructed me to request that you come to our November 15 meeting. It will be held at Columbia University, between 10:15 and 3:00.

I hope you will be able to make it.

Best regards,



Please reply to:

10/16/80

Dear mora

Enclosed is the tentature agenda for our 11/15 metry also the following tens:

- (1) updated list of complimetry TAS subscriptions is enclosed.
- (2) Some corrections on CS37 roster
  Bogunil & Klig are "Mr." ret" "On!"
- Pobli, Schwarz Atheridan are "Dri" mit "rur." (31 Please sund meety invitation le Mr. Jack Jatlow 166 E. 6 St.

New York, n. y. 10021

(is also lackond in copy of my invitation to Fairmon.

Store Unger

If you have need of additional help on the Ethics Subcommittee I could spare some time. I am particularly interested in the guestions of ethical education and development, Don Wilson

Don Wilson 3 wh tesell Ct. Summet, N. J. 07901 (201) 273-0178





### SYRACUSE UNIVERSITY

L. C. SMITH COLLEGE OF ENGINEERING ENGINEERING AND PUBLIC AFFAIRS PROGRAM

LINK HALL | SYRACUSE, NEW YORK 13210

Nov 6, 1980

Doar Steve:

I will not be able to attend the Nov 15 meeting. What I had written in my previous (Oct 23) letter can constitute my report, augmented by a faw things here.

the December issue will carry a report of the 31 October issue of Science article on cryptography. (The notice of your AAAS session will be in also). Based on conversations with Vewsletter production - if nothing interveres - the issue showed be mailed to subscribers by Dec. 10.

I mendoring an announcement comming from TAB that I won't be putting in Tot's because of timing. It should be conveyed to Engleson that its nonappearance is due to the timing, not our lack of desire.

I had asked Victor Klig to consider guest editting a Special Issue on Medical Elutionies/TerRnology but he hasn't get responded. Can you ask him at the meeting? Other suggestions for special issues & volunteer exitors would be wellbe welcome!

Frank will no doubt supply me with a summary of minutes for the next newsletter. also, I hope you will send me, a blurb on what develops from the TAB meeting in December.

Best mishes Homan

11-9-80 Dear Steve Iwould like to explore the creation of a bay area CSIT Committee. I am currently part of PAC and am serving on CILA (Calif SILA) Please advesse. your friend Jack Andrese

Please reply to:

229 Cambridge Avenue Englewood, New Jersey 07631

November 19, 1980

Mr. Jack Andreson 1813 Channing Ave. Palo Alto, California 94303

Dear Jack:

We were all happy to hear from you, and delighted that you are interested in organizing a Bay Area CSIT Chapter.

Enclosed are a bunch of names of subscribers to T&S from the Bay Area. We'll try to help in any way we can. The TAB office will send out any reasonable mailing for you, and can supply you with CSIT stationery. The Washington area chapter is well under way and you might wish to contact them for advice. One contact there is:

Mr. Will Anderson
P.O. Box 502
Annapolis Maryland 21404 Home phone 301-867-3179
Work phone 301-267-2265

Terry Hewitt, who got them started, is now in Oregon, and he's planning to try to organize chapter there. His address is:

Mr. Terry L. Hewitt 17165 SW Merlo Road Beaverton, Oregon 97006 phone: 503-641-3728

The drive for Society status for CSIT is still on. We will present to TAB, in early December, a proposed constitution for a Society that was put together by a committee that I chaired consisting principally of representatives from several of the societies that opposed the formation of the new Society. It looks quite reasonable (with provision, incidentally, for chapters), and we have a chance of getting it thru, tho its by no means in the bag. Letters or phone calls to Society presidents or TAB Directors would be helpful.

Keep us informed as to how you're doing, particularly if we can provide any other assistance. (By the way, we've chosen Jeff Bogumil to be next year's CSIT chairman.)

Yours truly.

Stephen Wagen



### **AUDIO CORPORATION**

Stephen F. Temmer, President

Dr. Stephen H. Unger 229 Cambridge Avenue "Englewood, NJ 07631

21 October 1980

Dear Dr. Unger:

I'm so sorry that I can only now respond to your letter of 4 August. On 11 September I entered the hospital with a serious hepatitis and am only now beginning to see the light at the end of the tunnel.

I had fully expected to attend your meeting on 13 September, and have now put 15 November on my calendar. I hope I will be well enough by then to make it.

Your encouragement to write on the subject interests me. I hope we can discuss this when we finally get to meet.

Sincerely yours,

GOTHAM AUDIO CORPORATION

Stephen F. Temmer President

SFT/me

	Speed Letter.	
To Steve Unger	From	Dr. Bernard Friedland The Singer Company
EE Dept		Kearfott Division 1150 McBride Avenue
Columbia U.		Little Falls, New Jersey 07424 (201) 256-4000, Ext. 2696
Subject SSIT etc.		(600) 200 1000
-No. 9 & 10 FOLD MESSAGE		
Joe Cruz told us (at CDC)	that proposal t	o upgrade CSIT to
SSIT has TAB approval.	Congratulation	ns, but I don't think
The battle is yet over.		
missive from Feerst.		
Wherever it might	t be Useful.	2
	Date /2/15/80	Signed
REPLY		
-No. 9 FOLD		
-No. 10 FOLD		
	Date	Signed
A A SA		

INSTRUCTIONS TO SENDER 1. DETACH YELLOW JOPY. 2. SEND WHITE AND PINK PARTS WITH CARBON TO PERSON ADDRESSED.

INSTRUCTIONS TO RECIPIENT

1. WRITE REPLY AT BOITOM. 2. DETACH STUB, RETAIN WHITE COPY AND RETURN PINK COPY TO SENDER.

To Mail in Window Envelope, Fold at Guide Marks.

Form RM-1 REPLY MESSAGE

> S. H. UNGER R-M. EMBERSON



11/20/80 Reply Wessage

Richard M. Emberson 3588 Spring Blvd. Eugene, OR 97405

New Jersey 08854 (201) 981-0060

. ork, New York 10017 (212) 644-

SUBJECT

Jo:

P-51T

There read about C-517 in many of the Society newsletters, in the Institute etc. and

believe you got pretty wide coverage on The proposal to consent to Society status. Have you asked for a recent count (or even an analysis by rapies 1--10)

of the Technical Interest Profile category corresponding to C-SIT! If not, Esmi Bidstrap 644-7868 could give you the imprimation - or order a set of labels

if you should wish & make a mailing. ( Think it is TIP 3910) I note that a "draft constitution" is supposed to be on the TAB agenda for

The Dec. 3 meeting in Alrida. I suspect signed would find it easier

To from a Council Than a Society. Best wishes, RINE

FOLD-

# TECHNICAL ACTIVITIES BOARD COMMITTEE ON SOCIAL IMPLICATIONS OF TECHNOLOGY

Please reply to:

229 Cambridge Avenue Englewood, New Jersey 07631

November 19, 1980

Mr. Terry L. Hewitt 17165 SW Merlo Road #1 Beaverton, Oregon 97006

Dear Terry:

I guess by now you're reasonably settled down and ready to be a founding father of yet another chapter of CSIT. (My excuse for not responding sooner to your letter was to give you a breather first in your new environment.)

Enclosed is an excerpt from the 1979 T&S subscriber list showing the names & addresses of those in Oregon. We can help further by arranging with the TAB office to send out some sort of initial mailing for you, and we can also publish a notice in T&S calling attention to what you are doing. You can get CSIT stationery from the TAB office.

The Washington area chapter is alive and well, as you may have noticed from the note in T&S. They had, I believe, about 16 people at their first open meeting. Dick Labonski and Susan Thomas have been coming to our meetings in New York. You might want to contact either of them, or Will Anderson, to get more details, and perhaps advice. Along similar lines, we've received a letter from Jack Andreson, now in California, indicating that he would like to start a Bay Area CSIT chapter, and I'm about to send him some preliminary material. I assume you won't mind if I send him your address so that he can, if he wishes, ask you for advice.

The drive for Society status for CSIT is still on. We will present to TAB, in early December, a proposed constitution for a Society that was put together by a committee that I chaired consisting principally of representatives from several of the societies that opposed the formation of the new Society. It looks quite reasonable (with provision, incidentally, for chapters), and we have a chance of getting it thru, tho its by no means in the bag. Letters or phone calls to Society presidents or TAB Directors would be helpful.

Keep us informed as to how you're doing, particularly if we can provide any other assistance. (By the way, we've chosen Jeff Bogumil to be next year's CSIT chairman.)

Yours truly,

consisting principally of representatives from several of the societies that opposed the formation of the new Society. It looks quite reasonable (with provision, incidentally, for chapters), and we have an excellent chance of getting it approved by the IEEE Executive Committee at its January meeting, tho its by no means in the bag. Should this effort succeed, it would greatly facilitate the formation of local chapters such as you are proposing, but, even if things go well, it may be a year or two before the new society could get under way.

Keep us informed as to how you're doing, particularly if we can provide any other assistance. (By the way, we've chosen Jeff Bogumil to be next year's CSIT chairman.)

Yours truly,

Stephen H. Unger Chairman, CSIT

tyshen H Chager

phone numbers: office (212) 280-3107, home (201) 567-5923



## TECHNICAL ACTIVITIES BOARD COMMITTEE ON SOCIAL IMPLICATIONS OF TECHNOLOGY

Please reply to:

229 Cambridge Avenue Englewood, New Jersey 07631

December 15, 1980

Professor Steven M. Goldblatt
Department of Building Construction & Contracting
School of Technology
Purdue University
South Campus Courts A
West Lafayette, Indiana 47907

Dear Professor Goldblatt:

This is in response to your December 8 letter in which you indicate an interest in forming a local chapter of CSIT in your area. I'm very pleased that you are considering this venture, and we'll try to give you all the help we can.

Enclosed are the names of subscribers to T&S from Indiana. (This list is over a year old.) An important step that you might wish to take at an early point is to recruit new subscribers to T&S using the form that appears in the September issue. Circulating that form amongst members of the various relevant departments at Purdue and to the staffs of companies in the area that employ EE's would greatly enlarge the pool of people on whom you could draw for membership. The TAB office will send out any reasonable mailing for you, and can supply you with CSIT stationery and extra copies of T&S.

The Washington area chapter is well under way and you might wish to contact them for advice. One contact there is:

Mr. Will Anderson P.O. Box 502 Annapolis Maryland 21404 Home phone 301-867-3179 Work phone 301-267-2265

Terry Hewitt, who got them started, is now in Oregon, and he's planning to try to organize chapter there. His address is:

Mr. Terry L. Hewitt 17165 SW Merlo Road Beaverton, Oregon 97006 phone: 503-641-3728

Still another such effort is being planned by Jack Andreson in the San Francisco Bay Area.

The campaign to get approval for an IEEE Society on Social Implications of Technology just passed a key milestone. At its December 4 meeting, TAB endorsed the concept, based on a proposed constitution that was put together by a committee that I chaired,



December 8, 1980

Prof. Stephen H. Unger EE Dept., SW Mudd Bldg. Columbia University New York, NY 10027

Re: CSIT

Dear Prof. Unger:

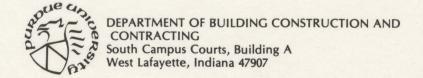
How can I start a CSIT working group in my area? I have been an inactive CSIT member since its inception and hold memberships in the ABA, ANS, California Bar, NAACP, Sierra Club, and other organizations besides IEEE.

Thank you for your consideration.

Sincerely,

STEVEN M. GOLDBLATT Assistant Professor (317) 494-6105

SMG/ab



December 29, 1980

Dear Steve,

Your recent letter did not quite find me "settled in" since we were in the process of another move -- this time to a house. We are now renting a 4-bedroom house which gives us the room that we need for our normal activities. The apartment was rather confining, but served us well in our transition period. Note our new address below.

From the minutes of the last meeting, it looks as if things are really moving in CSIT. I was particularly interested in the inclusion of a discussion of substantive issues for the next meeting. I have felt from my first CSIT meeting that such discussions are very needed, although I think this activity should be held outside of the business meeting where more time can be spent on in-depth discussions.

Discussions of this type was one of my primary personal interests in the establishment of the DC working group, but because of my brief association with the group I could not parsue it. Now that I am getting settled in here, I will be concentrating in this area -- which I would really call education in sociotechnology.

I thank you for the list of names of T&S subscribers in this area. I am going to get out an initial letter very shortly. I plan on getting a working group started here within the next few months, and I am sure that there will be no difficulty in finding interested individuals.

I would like to recommend that one individual on the steering committee be appointed to coordinate the activities of the working groups. This should probably be someone who can regularly attend meetings. I would hope that the establishment of these first few working groups would bring about the creation of many more. I feel they could be a very effective part of CSIT's activities. I would also like to recommend that some special effort be made in T&S to acknowledge and promote the activities of the working groups. Perhaps a special section in each issue could be used for news from the working groups. This would, of course, require regular inputs from the working groups, which could also act as a further motivator for the groups.

I was sorry to learn of your stepping down from chairman. I send you my personal thanks for your many efforts. You have contributed greatly to the technology/society movement and the effect of your leadership has been very stimulating for the rest of us in CSIT. I also heartily endorse Jeff's selection as our new chairman and look forward to working with him.

In addition to establishing a CSIT working group here, I intend to actively pursue several personal areas of interest which are related. One effort is the establishment of an interdisciplinary discussion group on the general subject of science, technology and society. I have already made a very firm contact at the University of Portland and I plan on this activity centering at the U of P or some other local college or university.

My intent is to involve not only educators and engineers but also persons with other backgrounds and interests. It is an attempt to bridge the very wide gap between the technologist and the non-technologist. Discussion subjects would center on the relationship of science and technology with all other facets of life -- sociological, philosophical, historical, etc. If you have any knowledge of similar efforts, or if you have any suggestions for me, I would greatly appreciate your inputs.

Another area, which I plan to pursue privately, is my own continued research and, hopefully, some writing. This effort would parallel the activities of the discussion group. My personal interest lies primarily in the historical, philosophical and moral aspects of the interrelationship of technology — and the technologist — with the rest of society. With your interest in ethics, I am sure you have done considerable thinking along these lines. Again, if you have any comments or suggestions along this line I would be pleased to hear from you.

I very much miss the CSIT meetings back east but will try to do my part from the great northwest. Give my regards to all, and I hope that something will get me back to NYC to see you again.

Best regards,

Seny Terry L. Hewitt

3375 SW 173 Ave. Beaverton, OR 97006

503-642-1069



# TECHNICAL ACTIVITIES BOARD COMMITTEE ON SOCIAL IMPLICATIONS OF TECHNOLOGY

COMMITTEE ON SOCIAL IMPLICATIONS OF TECHNOLOGY 229 Cambridge does 12/10/80 Englant, N.J. 07631 Wear mona: Please add to the list of those receiving the notice of the 1/17/81 CSIT meeting the following: mr. alex Gruenwald Rich Van Jenen 175 East Old Country Road Hicksville, New York 11801 Bootor Etelranes Corp 1.0 Bux 122 Parseppany ny nor. Charles The Nicita Sevittown, New York 11756 m. Jack Jatlow 166 East 69 St. New York, n.y. 10021 Mr. Robert Friedel Director, Contropola History of Electrical Engineery TEEE Headquarters 345 Ent 47 St. Mr. martine Weiss 18 Sillespie ave. Fair Haven, New Jersey 07701

Seit rigus, Stysten Unger P. S. Clean sent me a copy of the capitated list. M B Weiss
18 Gillespie Ave
Fair Haven NJ
07701

Bell Laboratories Room 1G630 Holmdel NJ 07733 November 24, 1980

S. H. Unger Columbia University Dept. of Electrical Engineering S. W. Mudd Building New York, NY 10027

Dear Mr. Unger,

A recent (December 1980) issue of The Institute referred to you as the chairperson of the New York chapter of the Committee on the Social Implications of Technology. I am interested in these problems and would like to know more about this Committee. Please send me information regarding your activities and other material that you deem relevant. My mailing address is given above and I can be reached by telephone at (201)-949-4608 during working hours. My IEEE membership number is 7139231. Thank you.

Yours sincerely,

Martin B. Weiss

med 18/80 1/12/81 mg.

Mr. C. M. Rader Mr. B. R. Climie Dr. R. C. Hansen Mr. R. T. Chamberlain Prof. St. W. Director

THE INSTITUTE OF

ELECTRICAL AND
ELECTRONICS
ENGINEERS, INC.

TECHNICAL ACTIVITIES BOARD
COMMITTEE ON SOCIAL IMPLICATIONS OF TECHNOLOGY

Mr. John H. Power, Jr. Dr. R. E. Merwin

Prof. D. L. Schilling

Prof. S. J. Kahne

Dr. D. M. Bolle Prof. J. Bordogna

Mr. W. B. Penn Mr. D. N. Heirman

Dr. M. Kuhn

Dr. M. D. Schwartz Mr. C. B. Stott Prof. F. T. Ulaby Dr. J. D. Irwin

Mr. G. F. Bobart

Mr. John E. Barkle Bechtel Incorporated Stanford University Engineering Office The Old Pavillion Stanford, CA 94305

Dear Mr. Barkle:

PLEASE REPLY TO:

229 Cambridge Avenue Englewood, NJ 07631

Mr. A. R. Howland Dr. D. L. Snyder

December 19, 1980 Dr. J. M. Lommel

Prof. F. J. Rosenbaum
Mr. R. C. Maninger
Mr. J. E. Barkle
Mr. B. B. Pearlman
Dr. R. C. Smith
Mr. C. M. Bird
Mr. D. W. Pricer

Dr. T. W. Bristol Mr. S. B. Ahmed

Mr. S. F. Meyer

As an IEEE Society president it is your prerogative to appoint a representative to the Committee on Social Implications of Technology. CSIT is a standing committee of TAB concerned with vital, and often controversial, issues involving social implications of technology. Its activities have included substantial contributions to the development of the IEEE code of ethics, creation of an IEEE Award for service in the public interest, stimulus to Institute reports on conservation and solar energy technologies, sponsorship of SIT related sessions at technical meetings, and publication of a widely quoted newsletter. The committee is open to, and eagerly solicits, members from all IEEE Societies.

The next CSIT meeting will be held in New York City (at Columbia University) on Saturday, January 17, 1981 at 10:15 AM. I hope that you will delegate a representative to attend and participate in ongoing committee activities. As particular projects undertaken are strongly defined by member interest (within our charter), if you or your colleagues have special concerns in this field you will find the committee responsive and a stimulating opportunity to pursue such matters. Your representative might also perform a valuable service as liaison between CSIT and committees of your society with related interests.

Please do not hesitate to contact me directly for more information or to discuss particular matters.

Stephen H. Unger MIXE

Dr. Stephen H. Unger Chairman, CSIT

Chair man, C

229 Cambridge Ave. Englewood, NJ 07631

December 31, 1980

Mr. B. D. Pratt Owens Corning Fiberglass Box 415 Granville, Chio 43023

Dear Mr. Pratt:

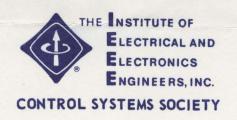
It is a pleasure to welcome you to CSIT as a representative of the Electrical Insulation Society.

Our next meeting is scheduled for Saturday, January 17, 1981 in the EE Department Conference Room, 1306A, SW Mudd Engineering Building, Columbia University, New york City. A detailed meeting announcement with the preliminary agenda etc. will be sent to you next week by the TAB Office. (The meeting starts at 10:15 a.m. and will end at about 3:15 p.m.)

Please let me know if you have any questions.

Yours truly,

Stephen H. Unger Chairman, CSIT



PLEASE REPLY TO:

National Science Foundation
Division of Electrical, Computer,
and Systems Engineering
Washington, DC 20550
(202) 357-9618

December 30, 1980

Dr. Stephen H. Unger 229 Cambridge Avenue Englewood, NJ 07631

Dear Dr. Unger:

I am pleased to inform you that Dr. Harold Chestnut (Corporate Research & Development, Building 81 - B101F, General Electric Company, 1 River Road, Schenectady, New York 12345) has agreed to serve as the CSS representative on CSIT. As you may know Dr. Chestnut, a former IEEE President among numerous honors, is a most distinguished member of our profession. I am sure he will be a valuable addition to CSIT.

Singerely, yours,

Stephen Kanhe President

229 Cambridge Avenue Englewood, New Jersey 07631

January 7, 1981

Dr. Harold Chestnut Corporate Research and Development Building 81 - Blolf Teneral Electric Company 1 River Road Schenectady, New York 12345

Dear Hal:

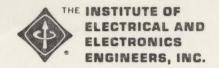
It is indeed a pleasure to welcome you to CSIT as a representative of the Control Systems Society. In a sense, since you were involved in the birth of the committee, you will actually be rejoining us.

I hope that, despite the somewhat short notice, you will be able to attend our upcoming meeting on Saturday, January 17, at 10:15 a.m. It will be in the EE Department Conference floom, 1306A of the SW Mudd Building, Columbia University. You should be receiving the formal meeting notice from the TAB office very shortly.

Best regards.

Stephen H. Unger Chairman, CSIT

P.S. Your signature on the petition for a SSIT was much appreciated.



## TECHNICAL ACTIVITIES BOARD COMMITTEE ON SOCIAL IMPLICATIONS OF TECHNOLOGY

Please reply to:

229 Cambridge Ave. Englewood, N.J. 07631

April 11, 1980

Bay Area Council, IEEE 701 Welch Road - Suite 2205 Palo Alto, California 94304

Gentlemen:

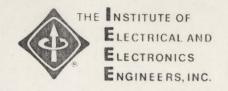
I am very interested in your proposal to establish a legal defense service for San Francisco area IEEE members (as presented in the April 12 USAB OPCOM Agenda). This is the sort of thing I have been advocating within IEEE for many years.

Any further information you have on the proposal would be greatly appreciated, and if you would like to send me an article on this subject, I would be happy to forward it to the editor of our quarterly, Technology and Society, who would undoubtedly receive it warmly. Suggestions for any other ways in which CSIT could support the idea would also be welcomed.

Yours truly,

Stephen H. Unger Chairman, CSIT

SHU/nkb



#### GEOSCIENCE AND REMOTE SENSING SOCIETY

(Formerly Geoscience Electronics Society)

Professor Fawwaz T. Ulaby PRESIDENT January 14, 1981

PLEASE REPLY TO:
Remote Sensing Laboratory
University of Kansas
Center for Research, Inc.

Lawrence, Kansas 66045 (913) 864-4832

Dr. Stephen H. Unger Chairman, CSIT 229 Cambridge Avenue Englewood, New Jersey 07631

Dear Dr. Unger:

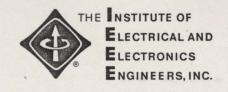
Professor Robert McIntosh has agreed to serve on the Committee on Social Implications of Technology as the representative of the IEEE Geoscience and Remote Sensing Society. He will not be able to attend the January 17, 1981 meeting because of other commitments, but he will try to participate in future activities of CSIT.

Sincerely,

Fawwaz T. Ulaby

TTU:1b

cc: Dr. R. E. McIntosh, Secretary/Treasurer, GRS-S w/enclosure: Dec. 19 correspondence



345 EAST 47th STREET, NEW YORK, NEW YORK 10017

DIRECT NUMBER (212) 644- 7887

February 18, 1981

Mr. Jack L. Jatlow 166 East 61st Street New York, NY 10021

Dear Mr. Jatlow:

I have been notified to add your name to the CSIT roster as an EM representative.

Enclosed please find: copies of the September 13th and the November 15th CSIT minutes and the latest issue of TECHNOLOGY and SOCIETY. We are currently in the process of updating the CSIT roster. Upon completion I will send you a copy.

If I can assist you in any way, please do not hesitate to contact me.

Sincerely,

Mona L. Reisman

Administrator

TAB Technical Committees

Mona L. Cusman

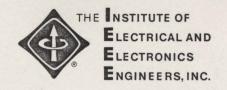
MLR/amh

Enc.

cc: R. J. Bogumil

F. Kotasek

S. H. Unger



345 EAST 47th STREET, NEW YORK, NEW YORK 10017

DIRECT NUMBER (212) 644- 7887

February 18, 1981

Mr. Peter Lubell Microband Corp. of America 655 Third Ave. New York, NY 10017

Dear Mr. Lubell:

I have been notified to add your name to the CSIT roster as a COM representative.

Enclosed please find: copies of the September 13th and the November 15th CSIT minutes. We are currently in the process of updating the CSIT roster. Upon completion I will send you a copy.

If I can assist you in any way, please do not hesitate to contact me.

Sincerely,

Mona L. Reisman

Administrator

TAB Technical Committees

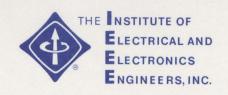
MLR/amh

Enc.

cc: R. J. Bogumil

F. Kotasek

S. H. Unger



VICE PRESIDENT, TECHNICAL ACTIVITIES

Dr. Robert E. Larson

PLEASE REPLY TO:

26515 Anacapa Drive Los Altos Hills, CA 94022 (415) 494-1165

February 5, 1981

Dr. Stephen H. Unger Columbia University Electrical Engineering Department S.W. Mudd Building New York, NY 10027

Dear Steve:

Now that your term as Chairman, Committee on Social Implications of Technology has expired, I wish to extend to you the formal appreciation of the Technical Activities Board for your interest and efforts on behalf of TAB.

May I also take this opportunity to add my personal thanks and express the hope that we will have many more opportunities to work together for IEEE in the future. It is only through the dedicated services of volunteers such as yourself that the Institute can continue to fulfill its mission.

Robert E. Larson

REL/mam

ENJOYED 980.

ENJ

#### UNIVERSITY OF EDINBURGH

Science Studies Unit

School of Engineering

#### STUDIES IN SOCIALLY APPROPRIATE TECHNOLOGY

Work in the field of Appropriate (Intermediate) Technology leading to higher degrees by research was introduced in Edinburgh some years ago. The M.Phil. programme takes two years but may be extended to three years for work towards the Ph.D. Supervision is normally undertaken by H. Dickinson, School of Engineering, and D.O. Edge, Science Studies Unit.

In its early stages the programme of work is concerned with achieving a broad understanding of the social, economic and technological bases of underdevelopment. This is followed by a detailed study of specific technical limitations found in poor countries and the social and economic effects of the introduction of new technologies. The final choice of topic is made in the light of the student's background, experience and interests.

Subject to the availability of funds, field trips of up to one year's duration to underdeveloped countries are an important feature of the programme of each research student. The student may be expected to acquire a working knowledge of a language appropriate to the area of studies chosen.

The programme offered is arranged to increase understanding of the poorer two-thirds of the world and is not directed towards any particular employment prospect.

#### Completed Studies include:

- Technology and innovation in a Mexican village.
- O The Volta River Project: a case study in politics and technology (Ghana). (Published in book form by Edinburgh University Press, 1980.)
- The use of tropical agricultural wastes as industrial inputs (Mauritius).
- The spread of introduced technology at village level (Sri Lanka).
- Energy flow in subsistence agriculture (Sri Lanka).
- The technology and politics of water sharing (India/Bangladesh).

#### Continuing Studies:

- O Water utilization strategy for the Yellow River (China).
- The social impact of large scale water resource technologies in East Africa (Mozambique).
- Social and economic effects of large scale energy production and consumption in Brazil.
- o Rural development in Southern Africa (Lesotho).
- O Pharmaceutical technologies in 'Third World' countries.
- O The River Nile: a case study of human intervention.
- O Social and ecological consequences of irrigation.

The programme is open to graduates with a good (First or Upper Second Class) honours degree, or the recognised equivalent, in engineering or other branches of applied science but other disciplines are not excluded.

For citizens of the U.K. there is the possibility of obtaining supporting studentships from the Science and Social Science Research Councils.

At the present time funds for overseas students are not available in Edinburgh but should be sought from governments, international and national agencies, and aid programmes.

Applicants wishing to be considered for entry into the programme should send a Curriculum Vitae, including details of everseas experience or interests, together with the names of two referees to:

H. Dickinson,
School of Engineering,
University of Edinburgh,
The King's Buildings,
EDINBURGH. EH9 3JL,
Scotland,
(U.K.)



#### University of Edinburgh

### Department of Electrical Engineering

School of Engineering, The King's Buildings, Edinburgh, EH9 3JL

031-667 1081 Ext 3268

HD/MG

17 March 1981

Dr. Stephen H. Unger, 229, Cambridge Avenue, Englewood NJ07733, U.S.A.

Dear Dr. Unger,

As a subscriber to 'Technology and Society' I write to affirm my support for your efforts to convert CSIT into SSIT.

May I also suggest that part of the work of CSIT/SSIT should be to review, or monitor, the social, economic and cultural implications of the transfer of technology to the Third World. The absence of analytic material in this field led us to introduce a relevant post-graduate programme in Edinburgh some years ago. The enclosed sheet indicates the sort of studies we have made.

Yours sincerely

H. Dichan

H. Dickinson



OFFICE OF THE PRESIDENT William B. Penn

PLEASE REPLY TO:

General Electric Company 3001 East Lake Rd., Bldg. 9-3 Erie, PA 16531 (814) 455-5466 Ext. 2037

December 23, 1980

Dr. Stephen H. Unger Chairman, CSIT 229 Cambridge Avenue Englewood, NJ 07631

Dear Dr. Unger:

I have appointed Bill Pratt as the Electrical Insulation Society representative to the Committee on Social Implications of Technology. His address is as follows:

B. D. Pratt Owens Corning Fiberglas Box 415 Granville, OH 43023 Telephone Number 614-587-0610

I suggest you contact him, though I will send him a copy of the letter you sent  $\operatorname{me}$ .

I would appreciate being kept informed as to the activities of CSIT.

Best wishes for the holidays.

Sincerely,

W. B. Penn

SUS AN RAG MACKEY 882-1 OWENSMOUTH AU CANOGA PARK, CA 91304 3/6/81

DEAN MR. UNGER,

FIRST I WOULD LIKE TO THANK YOU FOR UISITING OUR.
CAMPUS AT CALIFORNIA STATE UNIVERSITY, NORTHRIDGE, LAST
YEAR. I ENJOYED YOUR DISCUSSIONS OF COMPUTER CONFERENCING AND ETHICS ISSUES, VERY MUCH. I WAS PLEASED TO
MEET YOU AT THAT TIME AFTER READING YOUR EDITORIALS
IN TECHNOLOGY AND SOCIETY FOR SO LONG.

OVER THE LAST FEW WEEKS, I HAD BEEN OBTAINING SIGNITURES ON THE RETITION TO MAKE THE CSIT A SOCIETY. FOR THE RECORD, I HAD OBTAINED SEVENTEEN EVEN BEFORE I WENT TO THE FACULTY IN THE ELECTRICAL ENGINEERING DEPARTMENT AT CSUN. I WAS SET TO DO THAT WHEN PROFESSOR JOHN GUERRENA TOLD ME THAT THE MOTION FOR THE SOCIETY HAD TUST GONE THROUGH.

THIS GEFORT TO MAKE PEOPLE AWARE OF THE ETHICAL ISSUES INVOLVED IN ENGINEERING IS DEFINITELY WORTHWHILE. I WANT YOU TO KNOW THAT MORE AND MORE PEOPLE ARE MECOMINE CONCORNED, DUE TO YOUR EFFORTS AND THESE OF OTHER MOMBORS OF THE SOCIETY.

I AM PLUASED TO SAY THAT I SOLD A FEW SUBSCRIPTIONS
TO TECHNOLOGY AND SOCIETY IN THE INTENIM.

PLUMSE ACCOPT MY CHECK TO COVER DAVID, HARLEY AND RUSSELL.
THANK-YOU

Susan 3

#### SUBSCRIPTIONS GO TO:

- 1. ANA B. TORRES 42134685 7337 INDEPENDENCE #17 CANOGA PARK, CA 91303
- 2. SATINDER S GILL 41679385 9925 ZELZAH AU. #726 NORTHRIDEE, CA 91325
- 3. RUSSELL E SWEENEY 77537/8 S 8762 ET, WANDA AU. #22 NORTHRIDGE, CA 91325
- 4. HARLEY STABER 7944705 S 1291 BALSAMO AU SIMI VALLEY, CA 93065
- 5. DAVID SMITH 4286969 S 14924 VICTORY BLUD. VAN NOYS, CA 91411

Columbia University in the City of New York New York, N.Y. 10027 DEPARTMENT OF COMPUTER SCIENCE Seeley W. Mudd Building 3/17/81 ms. Susan Rae Mackey 8821 Ownsmouth ave. Canoga Park, Ca. 91304 Dear Susan: your letter, with ordoners, is much appreciated. I enjoyed of viset to your conquer, particularly the apportunity to meet with you are your fellow students, as well as with member of the faculty. I like the status of the new society is not quite official, I believe we are over the hump and we hope to go into operation in January 1982. In her ordif this orecars, we will wish to start both student chapters and local chapters. Duperding or your status at the time, you might be intended in organizary one or the other in your area or on your Campus. Certainly you're made a fine start. Best regards, Alighen H. Uhrza

Columbia University in the City of New York | New York, N.Y. 10027

DEPARTMENT OF COMPUTER SCIENCE

Seeley W. Mudd Building

2/10/81

Wear Bill, Jeff & Frank,

No Community inversed on the 5557 Constitute

The enclosed version incorporates the elements we descend earlier (addition of history to frits, some additionate assecret as come, explicit referent to chapters),

Call me if gor have Community of I don't hear for you, I'll cold you in many 2/16.

Best regule,

Store

Dear Jeff,

I am quitting CSIT effective immediately. Please remove my name from the CSIT membership roster. I am quitting for the following reasons:

1. I object to the undemocratic manner in which you and Steve Unger are imposing your policies on CSIT. For example, the SSIT constitution and the whole matter of "Why become a society?" were railroaded through CSIT without adequate discussion. Democracy does not mean electing a chairman who then imposes his will on the organization. Democracy is a participatory process in which every member

has a voice (not just a vote) in every decision of importance.

2. You are improperly giving top priority to Steve's favorite political causes (e.g., the Soviet engineer, the <u>Progressive</u> case, giving awards to engineers just because they get fired). These areas are peripheral to the field of social implications of technology. I think a person joining SSIT has a right to expect that at least some of SSIT's activities will be related to the social implications of technology, and I think it's unfair to the grass-roots IEEE member (and politically ineffective) to deal exclusively with issues that are of interest only to the lunatic fringe of IEEE. You and Steve are cynically exploiting the other members of CSIT to push your own pet projects. I am aware that the usual response to such an objection is: "The end justifies the means." But the end is people. And the members of CSIT are people, too. If we cannot treat each other with decency and fairness—if we cannot practice what we preach—then we have no business trying to reform the whole world.

3. You and Steve underestimate, by roughly an order of magnitude, both the amount of work and the amount of opportunity that is involved in becoming a

society. For examples:

a) The January 17 meeting was "business as usual," despite the fact that we had just achieved conditional society status. (We spent more than an hour

talking about the Soviet engineer.)

b) Steve estimates (correctly, in my view) that we will receive a \$40K subsidy from IEEE over the next two years. For \$25K we can mail a special promotional issue of T&S to all 150,000 IEEE members in regions 1-6. Yet Steve says that this effort will gain us only 1000 new subscribers. I think a more realistic estimate would be 10,000.

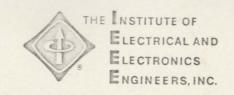
Clearly, you and Steve are thinking of SSIT in terms of lunatic-fringe politics. Clearly, you do not comprehend the power of the grass roots to effect change. I suggest you read a book about the French Revolution of 1789; if you don't, then SSIT will be a total flop. (I'd be glad to loan you a book on the French Revolution. Just ask.)

Frank Kotaseh

Frank Kotasek

cc: N. Balabanian

S. Unger



PLEASE REPLY TO:

V. Edgerton 10 Park Ave. N.Y. N.Y. 10016

21 February 1981

Dr. Stephen Unger CSIT 229 Cambridge Ave. Englewood, N.J. 07631

Dear Sir

In accordance with your request, the following are the agencies to be notified:

> California Department of Industrial Safety (CALOSHA)

525 Golden Gate

94102 San Francisco, California

Mr. Murray stated this was the starting point, since the sets have been installed at Pacific Bell, GTE, and some local independents in California. They are, however, also throughout the country, and he mentioned specifically Illinois Bell, and SNET. He added that if one State agency took action, it might get the others to also move on this.

The other agency he suggested might be proper to notify was the National Fire Protection Association, whose safety standards were involved. These specific standards are almost universal, and in California, the code was copied almost word for word, from the NFPA.

Cordially

Elgerta

A. Gruenwald F. Lord cc:

file

### Columbia University in the City of New York | New York, N.Y. 10027

DEPARTMENT OF COMPUTER SCIENCE

Seeley W. Mudd Building

March 18, 1981

California Department of Industrial Safety 525 Golden Gate San Francisco, California 94102

#### Gentlemen:

I would like to call to your attention a situation which, altho it has been in existence for a number of years, has not, to my knowledge, been remedied. It came to my attention recently in the course of my activities with the IEEE Committee on Social Implications of Technology.

The problem involves a keyboard console manufactured by Microform Data Systems and used by various telephone companies, including Pacific Telephone and Telegraph, for providing directory assistance information. As indicated in the enclosed copy of an article from the 10/11/76 issue of Electronic Engineering Times, this console has been found by a California Court to be in violation of California codes dealing with the safety of electrical equipment.

Since this is presumably a matter of interest to your department, I hope you will look into it, and I would be interested in learning the outcome of your investigation.

Yours truly,

Stephen H. Unger

Professor

DEPARTMENT OF COMPUTER SCIENCE

Seeley W. Mudd Building

March 18, 1981

Ms. Virginia Edgerton 10 Park Avenue New York, New York 10016

Dear Virginia:

The following opinion of the qualifications of Don Selwyn to operate USAB's Ethics Hotline, is based on a lengthy phone conversation that I had with him and on the article he wrote having to do with the rights of handicapped people.

He seems to me to be a very decent, thoughtful man with a strong ethical sense. Altho he has not had any formal involvement with engineering ethics, and has not apparently had much experience in IEEE affairs, I believe that he is a sufficiently mature person to be able to adapt himself to this task without too much difficulty, and that he is likely to do a good job.

Yours, truly,

Stephen H. Unger

### Columbia University in the City of New York | New York, N.Y. 10027

DEPARTMENT OF COMPUTER SCIENCE

Seeley W. Mudd Building

November 5, 1981

Mr. Alan Hochberg 292 Harvard Street, Apt. 4 Cambridge Massachusetts 02139

Dear Mr. Hochberg:

I would like to add my name to the petition calling for an arms freeze that appeared in the September 1981 issue of Computer.

I am very pleased to see such an item appearing in an IEEE publication. Speaking for the editor of Technology and Society (Norman Balabanian), I would like to invite you or any of your associates to submit articles, or short items on this subject to T&S. In case you are not familiar with this periodical, it is the newsletter of the IEEE Committee on Social Implications of Technology (CSIT). Effective January 1, CSIT will become a new IEEE society, and, beginning with the March issue, T&S will become a magazine. (If you are not currently a member of CSIT, you can join the new society by checking it off on your dues notice (\$6 a year for members, \$5 for student members; nonmembers can subscribe to the magazine for \$11.)

We are looking for new people to become active in SSIT. If you, or anyone else you know of, would like to become involved, please get in touch with me for more information. The next ADCOM meeting is on November 21, at Columbia University.

Yours truly,

Stephen H. Unger

Professor

Phone numbers: (212)280-3107/2736 (office)

(201)567-5923 (home)



October 7, 1981

Dr. Stephen H. Unger Columbia University Electrical Engineering Dept. S.W. Mudd Building New York, NY 10027

Dear Dr. Unger:

As a member of the IEEE Committee on Social Implications of Technology, you must be interested in book reviews published in Technology & Society.

I have recently received the following books for review. If you are interested, I shall be glad to send you the book you want to review. You may keep the book and send me a 600-900 word review by the end of November. If you do not have the time, perhaps you can send me the names and addresses of possible reviewers.

Thank you for your cooperation and I am looking forward to hearing from you.

Sincerely,

Naresh K. Sinha

Associate Editor (Book Review)

Science & Technology

narest K. Sinh.

NKS:1h Encl.

E118-15

### IEEE COMMITTEE ON SOCIAL IMPLICATIONS OF TECHNOLOGY BOOKS RECEIVED

- 1. The Making of a Counter Culture by Theodore Roszak (Doubleday).
- 2. Nuclear Power by James J. Duderstadt (Marcel Dekker).
- 3. Person/Planet by Theodore Roszak (Doubleday)
- 4. Privacy: How to Protect What is Left of It by Robert Ellis Smith (Anchor Press/Doubleday).
- 5. The Collapse of Work by Clive Jenkins and Barrie Shuman (Eyre Methuen).
- 6. The Conserver Solution by Lawrence Solomon (Doubleday).
- 7. Over a Barrel by Jan Marmorek (Doubleday).
- 8. The Waste Watchers by Arthur H. Purcell (Doubleday).
- 9. Energy Shock After the Oil Runs Out by Lawrence Solomon (Doubleday).
- 10. What Every Engineer Should Know About Product Liability by James F. Thorpe and William H. Middendorf (Marcel Dekker).
- 11. What Every Engineer Should Know About Human Resource Management by Desmond D. Martin and Richard L. Shall (Marcel Dekker).
- 12. Energy, Earth and Everyone by Medard Gabel (Doubleday).
- 13. The Microelectronics Revolution edited by Tom Forester (Oxford University Press).



Москва. Высотное здание на Котельнической набережной. ABUA Фото Т. Гутина TPAR AVION) NOVI CCCP 3 1966 I am sorry I could not attend the september CSIT (V Kyda CIII A (U.S.A) meeting since I was outside north america. I shall be Englewood, n.J. 07631 returing by the end of Odober, 229 Cambridge avenue and hope to attend the november meeting. KOMY Dr. Stephen Unger Best regards. naresh Индекс предприятия связи и адрес отправителя naresh K. Sinha 513 Hotel academy Nauk kdekiekiekiekieki

moscow, U.S.S.R.

Индекс предприятия связи места назначения