

Airport & Electronics System

J. A. Meyer

Jan '71

Peter Stone

(212) 228-4350

Kamparts

James Ridgeway

Mason -

usefulness of an oath for organizing
group.

Benjamin - Becoming instruments

Paschalis - resp. for counterproductive effects
GNP cannot keep growing

Pethas (Nader group) very little
legal protection for professionals
seeking to act ethically (voluntary
civil service) unions have protected
their people (except of assembly line
inspector for auto co.)

~~There is~~ appeal to white Americans
that they live (independence, toughness etc.)
not morality. Testimony before Congress
Problem is civil Congress not fully the
Constitutional role.

Larson saw effects of comp. tech. on people
eng. should use their minds to solve soc. prob.
abolish a trade-off, objectivity
IEEE can focus effort - contact officials etc.

Davidson decision makers often focus on how
tech can help small # of people can control
large areas of population VN war - bombing
testimony a COW treaty - OVER -

you should bring a sense of reality
to what is going on - dist words from
reality. People to people place reality
quote from C.P.P. on Howell etc
was with Larson

Center when I took left
not opposed to Union Line
1) the most good narrow
view of old world.
How is
2) take the reality can
be knowledge to cope with
other world A.P.P. by action

Sandy Lenz IUE
AMA & ABA not union
they don't deal with employees. with WWII,
eng became employees. join unions

Frank Collins

exper. with unions 15 years ago
we must organize but it is up to
what we organize for.

27

40

Annand RCA Union

engineers must use labor language
to organize union that can act
effectively in realm of economics.
IEEE can't help as community.

15

24

44

13

2

Unger

Pandharis ASME has adopted broad
goals

Pandharis we can contact IEEE -
leadership feels need to change. also
regional orgs. to make another
felt.

Bloom (medic) traced AMA history
attacked hierarchical structure & influence
we should not stress money - who do we
work for?

London need for new communication
media in workplace. BFP 3000 apr 1966

John Ullmann - Prof. of Management; Chairman of Dept.
of Management, Marketing & Business Statistics, Hofstra

- (1) Is a P.E.
- (2) Has a research background in the economics & design of machinery & production systems
- (3) Is consultant in industrial development & other community problems to various public agencies in the city
- (4) Co-author of "Manufacturing Management: An Overview"
& author of "Potential Civilian Markets for the Defense Electronics Industry" and other publications

Michael Averko - Manager of Marketing Information
Services : Ziff-Davis Publishing Co.

George Katz - Assistant Professor: Dept. of Neurology
Columbia Medical School

Rowen Hay Rifkin - Instructor in Electrical Engineering
Brooklyn Poly.

BELL

2 ABS ?

Seymour Melman - Prof. of Industrial Engineering

Books - (1) "Pentagon Capitalism" (2) "Our Depleted Society"
(3) "The War Economy of the United States"

Edited a series: "Conversion of Industry from a
Military to a Civilian Economy"

Wrote first book in series: "The Defense Economy:
Conversions of Industry and Occupations to
Civilian Needs."

Congressman Ed Koch

Unseated Carmine Desapio on the City Council
(death knell for Tammany Hall)

In 1968-1970 was member of committee on Science &
Astronautics (He received scientists supporting Hatfield-
McGovern Amendment)

Presently on Banking & Currency Committee

Terence McCarthy - Consulting Economist

- (1) Recently Adjunct Prof. at Columbia's School of Engineering & School of Business
- (2) Co-author of "Strategy for American Society"
"The Garrison Economy"
"What the Vietnam War has Cost"
- (3) Has written numerous monographs, e.g., "Economics of Light Metals"

THE COMMITTEE FOR SOCIAL RESPONSIBILITY IN ENGINEERING

STATEMENT OF PURPOSE

Working Committee:

Tony Agnello, CCNY
Dr. Aaron Ashkinazy, RCA
Prof. P. M. Brown, CCNY
Prof. Frank Collins, PIB
Prof. Douglas Davids, NYU
Dr. Albert Friedes, BTL
Dr. Lee M. Horowitz, NCE
Dr. Elsa Horowitz, IBM
Barry Horowitz, PIB
Prof. George M. Katz, Col. Med.
Larry S. Liebovitch, CCNY
Brad Lyttle, WRL
Prof. Seymour Melman, Col. U.
R. H. Rifkin, PIB
Dr. Harvey Rubin, BTL
Prof. Philip Sarachick, NYU
Paul Stoller, IBM
Steve Tencer, Col. U.
Prof. S. H. Unger, Col. U.
Rod Wallace, Col. U.
Prof. Richard Wiener, CCNY
Prof. Sheldon Weinbaum, CCNY
David Wuchinich, Cooper Union

Coordinator:

Ted Werntz

Electrical and electronics engineers face today increasing unemployment and job insecurity, conditions that stem from misguided national priorities. Thousands of engineers feel that their engineering talents are misused in both civilian and military projects, and believe that the constant development of weapons technology spells ultimate disaster for mankind. The COMMITTEE FOR SOCIAL RESPONSIBILITY IN ENGINEERING seeks to challenge the present orientation of electrical and electronic engineering and to explore ways in which engineering skills can be used to solve the obvious and growing ills of our society. It is essential that we end unemployment and pollution and provide adequate medical care, housing, education, transportation and communication systems for all people.

We invite you to explore these matters with us.



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

August 10, 1971

Professor Stephen H. Unger
229 Cambridge Avenue
Englewood, N.J. 07631

Dear Professor Unger:

Bob Tanner informed me recently that you had mentioned to him that you had never had any further word about your article, "The New Engineering Conference," after we had acknowledged receipt of your manuscript.

Through a misunderstanding on my part, I neglected to inform you that David DeWitt, the editor of IEEE SPECTRUM, was not interested in publishing your article in SPECTRUM.

Please excuse me for this oversight. I was under the impression that Dave had already told you.

Sincerely,

Ronald K. Jurgen

Ronald K. Jurgen
Managing Editor
IEEE SPECTRUM

RKJ:sg

Enc.: Ms.

The New Engineering Conference

3/26/71

Stephen H. Unger

The Committee for Social Responsibility in Engineering (CSRE) held a three session conference at the Ethical Culture Building in New York to coincide with the IEEE National Convention. The purpose was to discuss the current crisis in engineering. Distorted national priorities, engineering unemployment, militarism, personal responsibility for one's professional work, and alternative forms of engineering organizations were linked together by a series of well informed, articulate panelists. Comments and questions from the floor helped sharpen the issues.

Thousands of leaflets stating the premises of the CSRE were distributed to those attending the IEEE Convention. Activities began Monday morning with a press conference outside the Coliseum featuring Seymour Melman, Columbia University Professor of Industrial Engineering, and Congressman Ed Koch of Manhattan. This was attended by TV, radio, newspaper, and trade publication representatives. Wednesday evening, a leaflet criticizing the choice of Assistant Secretary of Defense David Packard as a featured speaker was distributed to those attending the IEEE Banquet at the Hilton Hotel. The leaflet argued that, at a time when the consequences of militarism are coming home to roost, we should not be honoring a man who might well be called "Mr. Military-Industrial Complex".

The Monday afternoon session of the New Engineering Conference focussed on the economic issues affecting the engineer. After some general remarks by Congressman Koch, John Ullmann, Chairman of

the Department of Management, Marketing and Business Statistics at Hofstra University, and the author of a study of the electronics industry, and economist Terence McCarthy underscored the precarious state of our economy brought on largely by excessive military spending. Some specific examples were given of how the situation could be improved by a redeployment of engineering manpower into areas that would contribute to the economy instead of draining it.

Seymour Melman, who for a decade has been studying the problem of converting industry to peacetime activities, said that such a conversion is quite feasible, but that our government appears to lack the will to take even the initial necessary steps. He cited the fact that military oriented engineers have work habits ill suited to non-military work, where economic factors are usually paramount. This difficulty can be surmounted, Melman said, but in the absence of strong government action to re-allocate funds, and to encourage retraining and relocation of engineers engaged in military work, employment prospects for these individuals are bleak. A point made by a number of panelists was that there is a great deal of important work for engineers to do in areas such as transportation, power generation and control, improved communications, and many other areas. It would be a mistake, they argued, to lobby for new military contracts or support for projects such as SST that are difficult to justify in terms of the nation's best interests. Apart from the obvious general harm that this would do, it could lead to increased public distrust of technologists and ultimately reduce employment prospects for engineers.

The second session, Tuesday afternoon, was concerned with

the ethics of engineering, particularly the idea of personal responsibility for the consequences of one's work. Sam Mason, Professor of Electrical Engineering at MIT, suggested that we consider a Hippocratic oath for engineers, a practice followed in Canada.

J. Malvern Benjamin described a company he heads, Bionic Instruments, which in addition to the necessary goal of making a profit, also seeks to contribute to bettering the world thru its products. The company, run on a cooperative basis, has been in existence for 15 years.

Victor Paschkis, Professor Emeritus of Mechanical Engineering at Columbia University and a founder of the 21 year old Society for Social Responsibility in Science, discussed the question of evaluating and predicting secondary effects of technological advances. He also pointed out that we must, as engineers take into account the fact that exhaustion of resources and environmental effects make it impossible for our GNP to grow indefinitely.

Peter Petkas, associate of Ralph Nader, indicated that there is little legal protection for engineers who, on ethical grounds, feel compelled to defy their employers. Civil service regulations are of little use in such cases. At present, only labor unions can do anything effective to protect principled professional actions.

Jeremy Stone, Director of the Federation of American Scientists, discussed the role of independent technologists in testifying before congressional committees, stressing the importance of this function in serving the public interest.

Haverford College Physics Professor, William Davidon, a pacifist

named a co-conspirator in the Berrigan case, attributed the growing public distrust of science in large part to the fact that a conspicuous application of modern technology is to concentrate large amounts of power in the hands of small groups. He cited the Indochina War as an example. Davidon also urged that engineers, as precise thinkers, consider how our government is distorting the links between words and reality thru the use of terms such as "pacification", "protective reaction", etc.

A last minute addition to the panel was Harry Larson, long active within the IEEE on issues of social effects of technology, who presented a talk similar to the one he gave the previous evening at a session of the IEEE Convention. During the question period, Mr. Larson was challenged as to his stand on military applications of technology. He took a position that unfortunately war was still with us and therefore sophisticated weaponry is necessary. This view was disputed both from the panel and from the floor.

The third session, Wednesday evening, was devoted to a discussion of how engineers could act as members of groups to promote their economic interests, their rights to function as responsible professionals, and the common good. Two representatives of engineering unions, Sandy Lenz of the IUE, AFL-CIO, and Harold Ammond of the RCA engineers union, put forward strong cases that engineers, being for the most part employees, can effectively protect their economic and professional positions only by using existing laws that ensure their rights to form unions. Professional societies such as the IEEE, however modified, cannot perform these functions, they argued. Responding to a question from the floor, they advised those trying to form unions to declare themselves openly in order

to gain the protection of labor laws from employer retaliation.

Frank Collins, Professor of Physical Chemistry at the Polytechnic Institute of Brooklyn, who was once involved in the organization of such a union, and Stephen Unger, Professor of Electrical Engineering at Columbia University, agreed in large part with Lenz and Ammond, but expressed concern that engineering unions might easily follow the path of so many other unions that have become parochial pressure groups for their own members, to the detriment of society as a whole. Without a broad societal concern, they could well develop into a third arm of the military-industrial complex. Unger suggested that, like the AAUP, engineering societies might protect some of the professional rights of their members by censuring organizations that violated certain practices in dealing with engineering employees.

Victor Paschkis stated that the ASME is seriously considering the adoption of a code of ethics for engineers, and the means for backing up those of its members whose jobs might be jeopardized by their efforts to live up to this code. In a sharp exchange with Lenz, who deprecated such efforts as ineffectual, Paschkis accused the labor movement in general of a lack of concern for minority groups, and for the general public.

Harvey Rubin, Bell Telephone Laboratories engineer and a member of an IEEE committee on the concerns of young engineers, discussed the possibility of reforming the IEEE, specifically recommending that the best route is via the regional organizations.

An analysis of the AMA was presented by Ron Bloom, a medical interne at Lincoln Hospital, in which he strongly attacked the AMA's anti-social thrust. He deplored the hierarchical structure of the medical and other professions, urging that our principal motives

should be to help people, not to make money.

Georges London, physicist with Brookhaven National Laboratories, described a "free press" in operation there. Published monthly, it is distributed free to all employees, and any employee may submit material, which is then published without editing. The cost of each issue is about \$65, raised by voluntary contributions. He suggested that members of other institutions might find such a press to be a valuable way of exchanging ideas.

There was a lively discussion from the floor, particularly on the appropriate roles for professional societies and unions. It was also suggested that, in view of engineering unemployment, universities and engineering societies should discourage students from entering the field.

The CSRE, in existence since the beginning of this year, consists of engineers of varying ages from universities and industrial organizations in the New York Metropolitan area (with increasing contacts elsewhere in the country). The coordinator is Ted Werntz, and its address is 137 W. 14 Street, New York City 10011. General goals of the Committee are to achieve a more professional status for the engineer, to explore ways in which engineering skills can be used to solve the obvious and growing problems of our society, and to stop the misuse of technology in both civilian and military projects.

In addition to organizing the New Engineering Conference, the CSRE has initiated a magazine, "Spark", whose pages are open to individuals or groups wishing to comment on the broad range of questions of concern to the profession. The first issue appeared in time for the Conference.

The group will also submit to the IEEE Board of Directors a petition, signed by several hundred IEEE members, calling for a revision of the IEEE constitution to add to its purposes a commitment to "strive to enhance the quality of life for all people and to promote the welfare of the engineers it represents" as well as for an understanding of the impact on society of the technology it is advancing.

IEEE 71

February 4, 1971

Messrs: William A. Higinbotham
Stephen H. Unger

Gentlemen:

Thank you for your letter of January 29 concerning space at the March Convention for the Committee for Social Responsibility in Engineering to present its views.

I will put this on the agenda of the coming meeting of the Executive Committee of the Conference Board for an official decision which will be transmitted to you.

Sincerely,

WJH:RC

William J. Hilty

1971 INTERNATIONAL CONVENTION AND EXPOSITION
MARCH 22-25 NEW YORK HILTON AND COLISEUM

Sponsored and Managed by the Institute of Electrical and Electronics Engineers Inc./345 E. 47 St., N.Y., N.Y. 10017/212-752-6800

<i>Chairman, Conference Board</i>	<i>Chairman, Executive Committee</i>	<i>Meetings Director</i>	<i>Exposition Director</i>	<i>TAB Liaison</i>	<i>RAB Liaison</i>	<i>Director, Convention and Exposition Services, IEEE</i>	<i>Meetings Manager, IEEE</i>	<i>Exposition Manager, IEEE</i>
Emmet G. Cameron Varian Associates	Dr. Donald B. Sinclair General Radio Company	Dr. Harper Q. North Northrup Electronics Div.	Theodore A. Smith R.C.A. (retired)	Dr. Seymour W. Herwald Westinghouse Electric Corp.	Walter E. Peterson American Digital Corp.	William J. Hilty	J. Howard Schumacher, Jr.	Joseph M. Doblmeier

HILTY

635
PL2-6800 X ~~685~~

IEEE 71

rec'd. 2/12/71

February 10, 1971

Messrs: William A. Higinbotham
Stephen H. Unger ✓

Re: Space at the March Convention and
Publication of your Schedule of
Meetings

Gentlemen:

The February 9 meeting of the Executive Committee of the IEEE Conference Board considered your requests at length.

It was decided that no non-affiliate IEEE organization could be accepted since, in all fairness, this would permit any other group to obtain similar privileges.

Sincerely,

Bill Hilty

William J. Hilty

WJH:RC

1971 INTERNATIONAL CONVENTION AND EXPOSITION MARCH 22-25 NEW YORK HILTON AND COLISEUM

Sponsored and Managed by the Institute of Electrical and Electronics Engineers Inc./345 E. 47 St., N.Y., N.Y. 10017/212-752-6800

Chairman,
Conference Board
Emmet G. Cameron
Varian Associates

Chairman,
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Dr. Donald B. Sinclair
General Radio Company

Meetings Director
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Northrup
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American
Digital Corp.

Director, Convention
and Exposition
Services, IEEE
William J. Hilty

Meetings
Manager, IEEE
J. Howard
Schumacher, Jr.

Exposition
Manager, IEEE
Joseph M.
Dobmeier

THE COMMITTEE FOR SOCIAL RESPONSIBILITY IN ENGINEERING

c/o Ted Werntz, 923 Walton Ave, N.Y. 10452

Feb. 19, 1971

Mr. David DeWitt, Editor
IEEE Spectrum
345 E. 47th St.
N.Y., N.Y. 10017

Dear Mr. DeWitt:

Electrical and electronics engineers face today increasing unemployment and job insecurity, conditions that stem from misguided national priorities. Thousands of engineers feel that their engineering talents are misused in both civilian and military projects, and believe that the constant development of weapons technology spells ultimate disaster for mankind. The COMMITTEE FOR SOCIAL RESPONSIBILITY IN ENGINEERING, CSRE, seeks to challenge the present orientation of electrical and electronic engineering and to explore ways in which engineering skills can be used to solve the obvious and growing ills of our society. It is essential that we end unemployment and pollution and provide adequate medical care, housing, education, transportation and communication systems for all people.

We invite you to explore these matters with us during the IEEE Convention week. We plan panel/workshop sessions on Monday and Tuesday afternoons and Wednesday evening at the Ethical Culture Society Meeting Hall, 2 W. 64th St. (four blocks north of the NY Coliseum). Our sessions are intended to extend the scope of the IEEE Convention and to convince the membership that the IEEE would be remiss in its responsibilities toward society if it fails to take an initiative in promoting the restructuring of our priorities.

Some comments by J.V.N. Granger(Spectrum, Jan. 71, pg. 11, next to last paragraph) and David DeWitt(Spectrum, Feb. 71, pg 41) are encouraging, because they seem to indicate concerns similar to ours.

Sincerely yours (for CSRE),

Anthony Robbi
Anthony Robbi

Aaron Ashkinazy
Aaron Ashkinazy

phone: 609 452-2700
ex. 3218 or 3221

229 Cambridge Avenue
Englewood, New Jersey 07631

March 28, 1971

Mr. David DeWitt
IEEE Spectrum
345 East 47 Street
New York, New York 10017

Dear Mr. DeWitt:

It is my understanding that you expressed an interest in receiving an article reporting on the recent New Engineering Conference organized by the Committee for Social Responsibility in Engineering.

Enclosed is such an article, which I hope you will be able to publish in the Spectrum.

Yours truly,

Stephen H. Unger
Professor of Electrical Engineering
Columbia University
and member of the CSRE

(I can be reached by phone at home at 201-567-5923, or at my office 212-280-3107).

229 Cambridge Avenue
Englewood, New Jersey 07631

May 14, 1971

Mr. Carl Dreher
R. D. 5
Brewster, New York 10509

Dear Mr. Dreher:

My colleague Seymour Melman showed me your April 26 letter to him in which you question the reason for the formation of the Committee for Social Responsibility in Engineering, particularly in light of the existence of the SSRS. Since I have been an active member of both groups, I offered to respond to your comments.

The CSRE was formed early this year, the initial impetus being the idea of holding a meeting parallel to the IEEE Convention in order to point up the areas of social concern that the latter group largely ignores. Its members are drawn from most of the Engineering schools in the New York area (both faculty and students) and from a number of industrial laboratories. (See the working committee listed alongside the statement of purpose enclosed with this letter.) In addition to organizing the 3-session New Engineering Conference, an intellectual success despite a disappointing attendance ranging between 55 and 85, a 48 page magazine, Spark, was issued. About 15,000 leaflets were distributed at the IEEE Convention, and several hundred signatures have been obtained on a petition (copy enclosed) to amend the IEEE constitution. Altho we are in somewhat of a financial hole, a second issue of Spark is being prepared, we shall be present at the Spring Joint Computer Conference, and a number of other activities have been carried out or are being planned.

Having only recently stepped down as a member of the SSRS Council, my first act upon hearing about the proposed formation of a committee to act at the IEEE Convention was to phone Ken Knowlton, a current SSRS Council member, to invite him to the first meeting and to attempt to involve SSRS. He was unable to attend, but asked me to keep him informed. However, he did not respond to subsequent invitations to participate. Note that 3 former SSRS presidents were panelists at one session of our conference.

I have been an SSRS member for about a decade and, particularly as a Council member, found that organization to be somehow unable to take meaningful action of any kind. At a time when large numbers of scientists and engineers are coming to accept its precepts, SSRS seems unable to provide leadership. I suspect that during its short tenure, CSRE has had a greater impact on more people than SSRS has achieved in the last 5 years. In short, the formation of the new group may be attributed in part to the inertia of the SSRS.

Should you wish to learn more about CSRE, I would suggest that you attend our next working committee meeting, Wednesday, May 26, 7:30 P.M., Room 1306A, S. W. Mudd Building, Columbia University, 120th St. and Amsterdam Avenue. Copies of Spark can be obtained by writing to our office. Finally, I might add that financial contributions are badly needed.

Yours truly,

Stephen H. Unger

P.S. I don't have a copy of the petition available, but I'm enclosing a copy of the leaflet distributed at the IEEE convention. It describes our conference.

Copy to Seymour Melman

THE COMMITTEE FOR SOCIAL RESPONSIBILITY IN ENGINEERING

137a West 14th Street, New York, N.Y. 10011

June 30, 1971

Mr. R. J. Tanner
Chairman, IEEE Regional Activities Board
C/O Bell Northern Research
P.O. Box 3511
Station C
Ottawa, Ontario
Canada

Dear Mr. Tanner:

We are writing as members of both the IEEE and the Committee for Social Responsibility in Engineering (CSRE).

The CSRE was organized at the beginning of this year to promulgate the idea that engineers should, as responsible professionals, insist that their work be of benefit to mankind. Our first project was to organize the New Engineering Conference, at which distinguished panelists discussed the economic crisis in engineering, individual freedom and responsibility in our profession, and the role of engineering organizations. The sessions were held during the IEEE Convention at the Ethical Culture Society Building, located not far from the Coliseum.

Since our intention was to reach IEEE members, we requested the Convention managers (via a letter to William Hilty) to cooperate with us in such matters as the distribution of copies of our meeting schedule at registration tables. All of our requests were flatly rejected. Since we were circulating a petition calling for the broadening of the IEEE constitution, a second letter was sent to Mr. Hilty requesting permission to set up tables within the convention halls to solicit signatures from other IEEE members. No response was received.

A letter to the editor of the Spectrum was sent describing our meeting and inviting IEEE members to attend. We were informed that it had arrived after the publication

Working Committee:

Tony Agnello, CCNY
Prof. Ralph Akkoyunlu, SUNY
Dr. Aaron Ashkinazy, RCA
Prof. P. M. Brown, CCNY
Prof. Frank Collins, PIB
Prof. Douglas Davids, NYU
Dr. Albert Friedes, BTL
Dr. William Higinbotham, BNL
Barry R. Horowitz, PIB
Elsa Horowitz, IBM
Lee M. Horowitz, NCE
Prof. George M. Katz, Col. Med.
Larry S. Liebovitch, CCNY
Brad Lyttle, WTR
Ted Mankovich, Col. U.
Prof. Seymour Melman, Col. U.
Prof. Marvin Paull, Rutgers
Rowan Hay Rifkin, PIB
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Rod Wallace, Col. U.
Ed Walker, IBM
Prof. Richard Wiener, CCNY
Prof. Sheldon Weinbaum, CCNY
David Wuchinich, Cooper Union

Coordinator:
Ted Wernitz

(Affiliations for
identification only)

deadline, but that the Spectrum would welcome an article describing our conference after the event. Such an article was submitted immediately after the conference. Several issues of the Spectrum have subsequently appeared, but no word of the New Engineering Conference or of the CSRE has been printed in its pages.

This seems to be a strange way to treat a serious group of people, largely IEEE members, acting in a responsible way to address our profession on an important set of issues. Without in any way implying that you are personally responsible for this treatment (quite the contrary- we have some reason to believe that you would not have approved of it), we would appreciate the opportunity to have an informal discussion with you in New York City on the relations between the IEEE and the CSRE, particularly with respect to the 1972 IEEE Convention. We would like to have this meeting at the earliest possible date, and look forward to your reply.

Yours truly,

Harvey Rubin

Stephen H. Unger

Defense Specialists Not Saluting Military

BERGEN

RECEIVED 3/23/71 P. 319

By ANN CRAWFORD

Staff Writer

The term "scrap engineer" did not appear to shock any of 75 engineers of all ages, accents, and hair lengths who convened in New York yesterday to talk about their joblessness.

Scrap engineers are technicians or scientists overtrained in a military specialty. There are at least 60,000 of them in half a dozen defense-dominated industrial areas, including New Jersey who can't find jobs in their chosen profession.

A former Columbia economist, Terrence McCarthy, and John Ullmann, chairman of the Hofstra University management department, said at the Ethical Culture Society Hall yesterday the 60,000 were only the tip of the iceberg — that political subservience to The Pentagon had brought the nation to the brink of bankruptcy.

They were members of a panel sponsored by the Committee for Social Responsibility which seeks to organize engineers with moral objections to producing weapons. Many are also members of the redoubtable Institute of Electrical and Electronics Engineers whose annual convention was taking place down the street at the Coliseum.

The Right Word

McCarthy said the escalating costs of the Vietnam war, as well as the debts of conflicts going back to WW I soon would bankrupt the country.

"The nation is in effect bankrupt now," he said. "But no one wants to use the word because of the response in the whole world economy."

Ullman said the federal government was doing almost nothing about retraining scientists and engineers dislocated by reductions in defense and space contracts.

"The administration is trying to persuade us that the economy is actually expanding," Ullman said. "If you are unemployed, it's only a temporary embarrassment."

He expressed fear that out-of-work engineers would press for new appropriations for defense, aggravating their long-run position.

Seymour Melman, professor of industrial engineering at Columbia, listed possible escape routes from the grim outcomes predicted by his colleagues.

It is conceivable, Melman said, that the Congress will enact a bill of rights for unemployed defense industry veterans, like the GI bill of rights. The federal government would subsidize a year of retraining, family maintenance, moving expenses, and possibly assume the debts of the job-seeker.

Second, the federal government would expand its programs and expenditures in the development of natural resources, transportation, housing, health care, and other neglected public responsibilities, Melman said. These and a score of other areas had been

identified, by the President's Council of Economic Advisers as parts of the civilian sector where the federal government should be spending \$40 billion a year in new money, Melman said. Retrained technicians would work in the new fields.

He also insisted on a regional redeployment of the highly trained engineers, saying that in certain military industrial sectors, there is such a high density of engineers that they couldn't be absorbed by any known civilian industry.

He named parts of New Jersey, Boston environs, Houston-Dallas, Southern California, Seattle environs, and eastern Long Island.

Melman proposed a three-year subsidy under which the federal government would pay part of the retrained engineer's salary for local governments or industry in underdeveloped parts of the country. The amount of the subsidy would be pegged to the local cost of living.

Electronics

A McGraw-Hill Publication

Richard G. Gundlach

Associate Editor

330 West 42nd Street | New York 10036 | 212•971•2592

2245

**THE
ELECTRONIC
ENGINEER**



A CHILTON Publication

Stephen A. Thompson
Western Editor

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213/387-1271

137a West Fourteenth Street, New York, New York, 10011

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Elsa Horowitz	- IEM 507 W. 113 St. NYC 10025	666-3193	
Lee M. Horowitz	- Newark College of Engineering (NCE) 507 W. 113 St. NYC 10025	666-3193	
George M. Katz	- Columbia Medical 325 Anaire Ave. Leonia NJ	201- 947-3308	579-3794
Larry S. Liebovitch	- CCNY 3505 Decatur Ave. Bronx 10467	655-2643	
Brad Lyttle	- War Tax Resistance (WTR) *339 Lafayette St. NYC 10012		777-5560
Marc Mangot	- NYU 820 W. 180 St.	795-1838	
Ted Mankovich	- Columbia U. 309 W. 109 St. NYC	865-7541	280-3134
Seymour Melman	- Columbia U.		280-2936
Marvin Paull	- Rutgers U.		
Rowan Hay Rifkin	- Brooklyn Poly (PIB) 66 Livingston St. Bklyn 11201	852-9134	643-2113
Anthony Robbi	- RCA Rd 1, Hopewell, NJ	609- 466-0119	

* An * in front of the address indicates the business address; otherwise the address is the home.

All telephone numbers are New York City, unless area code is given.

Name	- Affiliation / Address*	Home Telephone#	Business# Telephone
Harvey Rubin	- Bell Telephone Labs. (BTL) *Holmdel, NJ	222-3815	212-581- 5620 X2464
Philip Sarachik	- NYU - EE Dept. 201 W. 86 St. NYC	877-7563	584-0700 X 710
Paul Stoller	- IBM 257 CPW, NYC	787-0773	914- 945-1400
Steve Tencer	- Columbia U. *330A Mudd, Columbia U.	201- 791-0158	280-2946
Stephen H. Unger	- Columbia U. - EE Dept. *NYC 10027	201- 567-5923	280-3107
Rod Wallace	- Columbia U. *Box 115 Pupin Lab. Col. U. NYC	865-4766	280-3325
Ed Walker	- IBM *Spring Valley Rd. Ossining NY 10562		
Ted Werntz	- 923 Walton Ave. Bronx	537-2973	
Richard Wiener	- CCNY 472 1 St. Bklyn 11215	201- 871-3847	621-2392
Sheldon Weinbaum	- CCNY 472 1 St. Bklyn 11215	499-2841	621-2244
David Wuchinich	- Cooper Union 330 W. 101 St. NYC	666-7823	254-6300

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RHR - 4 March 1971

A PETITION TO THE BOARD OF DIRECTORS OF THE IEEE

The undersigned members of the IEEE herewith propose to change Article I, Section 2 of the Constitution of the Institute of Electrical and Electronic Engineers to read:

"Its purposes are primarily scientific and educational, and it shall strive to enhance the quality of life for all people and to promote the welfare of the engineers it represents. The IEEE shall direct its efforts toward the advancement of the theory and practice of electrical engineering, electronics, and the related arts and sciences, and toward an understanding of the impact of these advances on society. Means to these ends are the holding of meetings for the reading and discussion of professional papers, the publication and circulation of works of literature, science and art pertaining thereto and any other activities necessary, suitable and proper for the fulfillment of these objectives."

(The words underlined are the proposed addition; parts of the existing first sentence of the Section are deleted.)

Our intention in elaborating and extending the purposes of the IEEE is twofold. First, the engineer should become more aware of the social consequences of his work and his special responsibility in preventing the misapplication of scientific knowledge. Second, the current IEEE concerns with the welfare of its members, such as the IEEE Insurance Program and the recent concern shown for engineering unemployment, are magnified and made more legitimate. (Some letters in Spectrum have pointed out many practical ways in which the IEEE could better insure the treatment of its members as professionals.)

NAME

ADDRESS

THE COMMITTEE FOR
SOCIAL RESPONSIBILITY IN ENGINEERING

137a WEST 14th STREET

NEW YORK, N. Y. 10011

THE COMMITTEE FOR SOCIAL RESPONSIBILITY IN ENGINEERING

137a West 14th Street, New York, N.Y. 10011

Working Committee:

Tony Agnello, CCNY
Prof. Ralph Akkoyunlu, SUNY
Dr. Aaron Ashkinazy, RCA
Prof. P. M. Brown, CCNY
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Prof. Richard Wiener, CCNY
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David Wuchinich, Cooper Union

Coordinator:

Ted Werntz

(Affiliations for
identification only)

PRESS CONFERENCE

CSRE will hold a Press Conference on Monday, March 22, 1971 at 10 A.M. outside the main entrance to the N. Y. Coliseum (during the IEEE Convention). The organization's purposes and goals will be introduced by the coordinator, Ted Werntz, and by Seymour Melman, Professor of Industrial Engineering at Columbia University and author of Pentagon Capitalism.

PRESS RELEASE: For Release March 22, 1971

Contacts:	Ted Werntz:	(212) 537-2973
	Stephen H. Unger:	(212) 280-3107
	George M. Katz:	(212) 579-3794
	Rowan Hay Rifkin:	(212) 643-2113

Misuse of technical talent, for destructive or frivolous purposes, while the lights are literally going out in our cities, coupled with rising engineering unemployment, has stimulated the formation of an insurgent group of engineers: THE COMMITTEE FOR SOCIAL RESPONSIBILITY IN ENGINEERING. Members, drawn from engineering schools and industrial organizations in the Metropolitan area, run the gamut from undergraduate to Fellow of the IEEE.

A "New Engineering Conference" sponsored by the Committee is to be held March 22-24 at the Ethical Culture Society Hall in Manhattan (64th Street at Central Park West) and

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Panelists at the conference will include: Congressman Edward Koch; Seymour Melman, Professor of Industrial Engineering at Columbia University and author of Pentagon Capitalism and Defense Economy: Conversion of Industries and Occupations to Civilian Needs; Jeremy J. Stone, Director of the Federation of American Scientists and author of Containing the Arms Race; several highly respected electrical engineers, including Professor Samuel Mason of M.I.T.; and some younger members of the profession. Haverford Physics Professor William Davidon, a pacifist named as co-conspirator in the Berrigan case, and former president of the Society for Social Responsibility in Science, will also be a panelist.

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Unemployment, government policies, conversion to a peacetime economy; effects on the engineer.
(Monday, March 22, 2:00 p.m.)
2. INDIVIDUAL FREEDOM AND RESPONSIBILITY IN ENGINEERING:
Personal responsibility for the consequences of one's work. Your influence on the direction of your work; alternate employment choices. Code of Ethics; prestige of the profession.
(Tuesday, March 23, 2:00 p.m.)
3. ENGINEERING ORGANIZATIONS --WHAT COULD THEY DO FOR YOU?
Critique of the IEEE. Other professional societies (AMA, etc.). Engineering Unions. New organizational forms.
(Wednesday, March 24, 7:30 p.m.)

ENGINEERING RESPONSIBILITY

Engineers face today increasing unemployment and job insecurity, conditions that stem from misguided national priorities. Thousands feel that their engineering talents are misused in both civilian and military projects, and believe that the constant development of weapons technology spells ultimate disaster for mankind.

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David Wuchinich, Cooper Union

Coordinator:

Ted Wernitz

(Affiliations for
identification only)

The COMMITTEE FOR SOCIAL RESPONSIBILITY IN ENGINEERING seeks to challenge the present orientation of engineering and to explore ways in which engineering skills can be used to help cure the obvious and growing ills of our society. It is essential that we end unemployment and pollution and provide adequate medical care, housing, education, transportation and communication systems for all people.

If you agree with the above statement and would like to do something about it, then

- start meeting with a small group of engineers in your community. Some have found that a regular weekly meeting, say every Tuesday for lunch in the north-east corner of the cafeteria, made it easy to hold the group together once it got started.
- see if your group can develop some ideas or plans for action that might be worth sharing with other engineers.
- use our magazine, SPARK, to share your ideas and plans with others, while they are using SPARK to share their ideas and plans with you.
- If your group would like a bundle of SPARKs, please write us.
- If you feel SPARK is providing a worthwhile service, consider helping to support it financially. Checks should be made out to C.S.R.E. (Comm. for Social Responsibility in Engineering).

THE COMMITTEE FOR SOCIAL RESPONSIBILITY IN ENGINEERING
137A West 14th Street, New York, N.Y. 10011
212-924-0894

**THE
ELECTRONIC
ENGINEER**



A CHILTON Publication

Assigned

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Assistant Editor

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215/748-2000

Alan J Silverman

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@ Bodney

American Stock Exchange

**86 Trinity Place
New York NY 10006
212/964-3200**

22 May Farmington BPT

Sci. & Tech. in our Sec

all day 9:00 - 5:00

John Ullman to be there -
Coyne man Wolf

presenting diving breaks

a step in the right direction

We engineers have long looked forward to the day when redirection of government funds would allow engineers, previously channelled into non-productive military and space work, to turn their attention to the problems of our cities. Engineers versed in modern technology can, under the proper conditions, make real contributions to the solutions of many urban problems.

But we cannot simply turn these problems over to the companies that supplied us with such bonanzas as the BOMARC missile and who added the term "cost over-run" to our language.

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Prof. Sheldon Weinbaum, CCNY
David Wuchinich, Cooper Union

Coordinator:

Ted Werntz

(Affiliations for
identification only)

We warn against:

- expecting quick cheap technical fixes to deep rooted social problems
- arrogant top-down decision making without community participation
- carrying over wasteful aerospace work habits that ignore costs
- social underwriting of bloated managerial overhead
- the use of urban studies contracts to tide over weapons companies between military contracts

We urge:

- the formation of interdisciplinary teams including community representatives
- the re-education of aerospace engineers in engineering economics
- a farsighted definition of goals which includes considerations of environmental balances and material resources
- providing organizations in which the goal is the solution of important problems rather than corporate "quick-buck" swindles

THE COMMITTEE FOR SOCIAL RESPONSIBILITY IN ENGINEERING
137 A West 14th Street, New York, N.Y. 10011
212-924-0894

Lowenstein: Class of 50 EB FIS
George Kato " 57 PROF.
Vick Kluge



Professor Stephen H. Unger
229 Cambridge Ave.
Englewood, N.J. 07631



THE INSTITUTE OF
ELECTRICAL AND
ELECTRONICS
ENGINEERS, INC.

345 EAST 47TH STREET, NEW YORK, N.Y. 10017

March 30, 1971

Dear Professor Unger:

Thank you for your letter dated March 28 and the copy of "The New Engineering Conference" to consider for possible publication in IEEE SPECTRUM. The material has been forwarded to Mr. DeWitt and you will hear from us after the review of the material has been completed.

Sincerely,
Ronald K. Jurgen
Managing Editor
IEEE SPECTRUM

(609) 964-1552



HAROLD J. AMMOND

Executive Secretary

**ASSOCIATION OF SCIENTISTS
AND PROFESSIONAL ENGINEERING PERSONNEL**

318 COOPER STREET

CAMDEN, N. J.

THE COMMITTEE FOR SOCIAL RESPONSIBILITY IN ENGINEERING

137a West 14th Street, New York, N.Y. 10011

May 1, 1971

ACTION LETTER NO. 2

Our next meeting will be held on Tues. May 11 at 7:30pm in Room 1306a Mudd Bldg., Columbia Univ. (120th and Amsterdam Ave.).

On Sat. May 8, Psychologists for Social Action is sponsoring an all day conference on the role of professionals in voicing effective dissent.

We have been given a table in the lobby of the conference at which we will be distributing SPARK and other literature.

Sat. May 8 9:30 am -- 5:00 pm

New School for Social Research

66 West 12th St. NYC

Speakers include Carey McWilliams, Philip Morrison, Frank Collins, Russel Nixon, Ethel Tobach etc. Registration fee \$5.

We need help manning our table.

We have also received permission to man a table at the Spring Joint Computer Conference in Atlantic City, May 18-20. If you can help man this table please call

Tony Robbi 609-466-0119 or

Paul Stoller 212-787-0773

so we can coordinate our table coverage.

We have not yet reached our goal of 600 signatures on our petition to amend the IEEE constitution. Please help us collect additional signatures.

Keith Bose of SELF HELP attended our last meeting. Keith suggested a joint project on engineering 'Whistle Blowing', possibly in conjunction with Nader's Raiders. Steve Unger (212-280-3107) will be setting up a follow-up meeting in the near future. If you know a lawyer who might be interested in working in this area, please contact Steve.

Ted Werntz attended a meeting of the Technical Societies Council of New York. The TSC is planning to hold a conference either in Nov. or March, and have asked for our assistance (possibly we should join the Technical Societies Council). The TSC conference will of course be an establishment conference, and will probably be held in the Americana Hotel. No theme has been set yet, no speakers have been invited. Ted has been invited to participate in the first planning meeting for the TSC conference Wed. May 12. Anyone interest should contact Ted at 212-537-2973.

Paul and Ted made a 10 ft. long banner saying "ENGINEERS FOR PEACE" in 1 ft. high letters. A contingent of 30-50 people marched under it on April 24 in Washington. A somewhat smaller contingent will participate in the MAYDAY actions on May 3 and 4 in Washington.

Barbara Walker designed and Paul Stoller and Elsa Horowitz have financed a 1½" button saying SOCIAL RESPONSIBILITY IN ENGINEERING (white letters on a blue background). The buttons will be available in time for the SJCC (May 18). They will cost us 9¢ each and will be sold for 25¢. Address orders for buttons to our New York office, c/o Paul Stoller.

Three New York City bookstores are selling Spark . The Eith Street Bookstore, Taylors (near Columbia), and the New Yorker. In All cases we have left 6 to 24 copies on consignment, and will be reimbursed 30¢ for every copy sold when we bring in the second issue. If you feel you may be able to place a dozen or so Sparks in your local bookstore, please write and we will send them to you.

Many of us have been very successful selling Spark at work. In some cases we have given people complementary copies, asking that they send us money if they like what we are doing. If you would care for one, two, many dozens, please drop us a note and we'll send them to you.

CSRE speakers have spoken at Manhattan College, Pratt Institute, Newark College of Engineering and City College of New York during the past month. If you would care to arrange a session at an engineering school in your area, please contact us.

The deadline for copy for the next issue of Spark is May 24. Please try to have your copy in by then.

Since we now have a debt of close to \$300, we can use contributions, help selling SPARK, buttons etc. In particular we need money to pay for the next issue of SPARK. We would also be expected to help finance the Technical Societies Council if we decide to join and play an active role. So please try in some way to help us pay our debts and finance our on-going activities.



Engin. & med. & Biology Group of IEEE

Spring '71 P. 7
call for members

Victor Klig will organize

May 10 deadline
for bids.

Murray Eden

Copy of petition to George Katz

Mal Benjamini

Jack Halpern

We are trying to make engineers more aware of their personal responsibility for the consequences of their work so that in their professional activities (on the job and in professional societies) and in their political activities they will give serious consideration to the long term interests of society. We are also concerned about the economic plight of the engineer displaced by changing government policies.

Engineers would be better able to act responsibly in their professional capacities if they were protected by professional societies or unions.

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{ Larry Bogert
380 Elkwood Terrace 567-6625
201-944-1676 }

{ Prof. Leonard E.E.'s Spring Quarter
Robert Dutton
EECS
382 Corey Coll U. Cal. Berkeley
94720 }

March 28, 1971

Dear Steve -

These are really good
films - & reasonable!

Let me know when you
will be showing them -

Regards - & Love -

Mirina Heitor

836-3944

208 Grayson PL

Teaneck NJ 07666

Engineers' Exhibition Shows a New Mood

NYT 3/23/71 p.49

Angry Professionals Picket Convention at the Coliseum

By WILLIAM D. SMITH

The 1971 convention and exhibition of the Institute of Electrical and Electronics Engineers opened yesterday as planned but not as usual.

In past years personnel recruiters swarmed outside exhibition headquarters at the New York Coliseum trying to steal skilled technological bodies from other companies. Now dissident engineers roam Columbus Circle complaining about unemployment and the nation's priorities.

The traditionally tedious process of registration in the lobby far exceeded the confusion of past years as angry engineers often waited an hour to enter the exhibit floor.

Once inside the exhibition hall the engineers were greeted with a graphic example of the recession that has hit their industry. Where once exhibitors were crammed wall to wall, empty spaces were very much in evidence.

A sign said "Make sure you see all four floors" but the fourth floor, which last year held almost 100 exhibits, was empty except for a couple of non commercial displays.

This year's show has some 425 commercial exhibitors compared with 587 in 1970. Of this total almost 100 were from overseas.

Many of the big names of American electronics were missing or barely visible. The International Business Machines Corporation had a booth that was only six yards long.

The Xerox Corporation appeared to have the largest exhibit of any American Company but it was equaled or exceeded by the displays of Panasonic of Japan and Siemens of West Germany.

The British, with 31 exhibitors, led the foreign invasion of the Coliseum followed by the French, who were there for the first time, Japan, Canada, Australia, Denmark, West Germany and Korea.



Scene at General Precision Industries, Ltd., exhibit at show at Coliseum. Canadian concern was one of many foreign exhibitors at Electrical and Electronics Engineers show.

Ferranti Electric of Britain displayed integrated circuits and discrete electronic components. A spokesman explained, "We are here partially to wave the flag and also to convince American companies with overseas subsidiaries that there is a quality producer handy in Europe."

The eight Australian companies attracted considerable attention by sheer cheerfulness. While some of the American salesmen were sitting back and looking apathetic the Aussies were shaking hands and passing out kangaroo lapel pins as if the whole Coliseum belonged to them.

A quick survey of exhibitors indicated that the American Electronics industry has not turned the corner yet. A man working at the Sprague Electric Company commented "We're beginning to feel some more optimistic waves but orders aren't coming in much faster yet."

Another man at the General Electric exhibit commented, "Look at the faces

on every floor. Do they look like business is bombing?"

Some of the exhibits appeared to be attracting considerable attention. The Digital Equipment Corporation introduced a new family of computers, called the PDP-16. The computers will sell from \$800 to \$3,000.

The Lambda Electronics Corporation presented a new 85-watt voltage regulator for use in computer systems. The regulator will prevent damage to computer data during utility brownouts, the company said.

If the establishment show inside the Coliseum failed to generate much enthusiasm the dissidents outside fared little better trying to drum up dissent. Most of the engineers coming into the Coliseum declined to accept the literature passed out by the group called the Committee for Social Responsibility in Engineering.

Some 40,000 engineers, compared to 47,000 in 1970, are expected to attend the conference which will last until Thursday.



The New York Times/Lee Romero

Alice D'Entremont, engineering student at Harvard, examining an infra-red xenon searchlight.

I am writing to you as a member of the working committee of a newly formed organization:
THE COMMITTEE FOR SOCIAL RESPONSIBILITY IN ENGINEERING (please refer to the enclosed statement of purpose).

We are planning a set of three Alternate Sessions, to be held during the IEEE Convention in New York City. Additional Descriptive information regarding these sessions appears on the enclosed flyers.

I have taken the liberty to enclosing a bundle of flyers, which I would appreciate if you would post in appropriately visible locations.

We invite both your personal involvement as well as your financial support.

For additional information, please contact me or any other member of our working committee. We can also be reached through Ted Wertz, 923 Walton Ave., Bronx, N.Y., (212-537-2973).

We look forward to your involvement in our activities.

Sincerely yours,

(for the Committee for Social Responsibility
in Engineering)

Please mail this slip to : The Committee for Social Responsibility in Engineering
137a West 14th St.
New York, N.Y. 10011

NAME _____ TITLE _____
AFFILIATION _____ PHONE _____
STREET _____ CITY _____ STATE _____ ZIP _____

I am enclosing on a separate sheet, the names and addresses of people
who would be worth contacting in advance. _____.

Enclosed is my Contribution in the amount of \$_____ to help you in your efforts.
Please make checks payable to: **THE COMMITTEE FOR SOCIAL RESPONSIBILITY IN ENGINEERING.**

Date. _____ Signature _____.

THE COMMITTEE FOR SOCIAL RESPONSIBILITY IN ENGINEERING

137a West 14th St., New York, N.Y. 10011

INVITES YOU TO PARTICIPATE IN THE

NEW ENGINEERING CONFERENCE

DURING THE

IEEE CONVENTION

MARCH 22-24, 1971

NO REGISTRATION FEE

OPEN DISCUSSION SESSIONS:

1. **THE ECONOMIC CRISIS IN ENGINEERING:**
Unemployment, government policies, conversion to a peacetime economy; effects on the engineer.
(Mon. Mar. 22, 2:00pm)
2. **INDIVIDUAL FREEDOM AND RESPONSIBILITY IN ENGINEERING:**
Personal responsibility for the consequences of one's work. Your influence on the direction of your work; alternate employment choices. Code of Ethics; prestige of the profession.
(Tues. Mar. 23, 2:00 pm)
3. **ENGINEERING ORGANIZATIONS — WHAT COULD THEY DO FOR YOU?**
Critique of the IEEE. Other professional societies (AMA, etc.). Engineering Unions. New organizational forms.
(Wed. Mar. 24, 7:30 pm)

AUDIENCE PARTICIPATION WILL BE EMPHASIZED!

Partial List of Participants:

Harold Ammond
Michael Averko
J. Malvern Benjamin
Frank Collins
Barry Commoner
William Davidson

John Haynes
Hon. Ed. Koch
Georges London
Samuel Mason
Seymour Melman
Victor Paschkis

Anthony Robbi
Harvey Rubin
John Ullmann
Stephen Unger

Sessions held at: Ethical Culture Society Hall
2 West 64th St. (at Central Park West)
(4 short blocks north of Coliseum)

3/17/71

The lights are going out. in our cities.

The fish can't live in our water.

The air stinks- even in the suburbs.

Transportation is breaking down. (Did you come here by subway?)

We could add to the list- but we'll let you do that for yourself.

There^c isn't one simple cause, but ~~certainly~~ a lack of money is one big factor.

In the world's richest nation?

Where have all the dollars gone? During the past couple of decades, about a trillion of them have gone to the pentagon. For national security.

(Do you feel secure?)

As engineers, many of us have been used directly or indirectly in some of history's biggest boondoggles.

Perhaps its time for us to speak up as a profession.

What do we want to work on?

Transportation for people- or for bombs?

Thermonuclear reactors- or thermonuclear bombs?

Control systems for power networks- or for missiles?

Engineering for life- or for death?

Which brings us to David Packard. No doubt he is a nice, able, and charming fellow.

But he represents the agency that implemented the perversion of our profession, and that is now carrying out a policy of mass murder in Indochina. His prior affiliations were with organizations that profit from this perversion and murder.

Mr. Packard, who might well be designated as "MR. Military Industrial Complex", is a singularly ^{inapt} ~~untimely~~ choice as a featured IEEE speaker.

Feb. 17, 1971

A proposal to amend the Constitution of the IEEE:

A Petition to the Board of Directors of the IEEE

The undersigned members of the IEEE herewith propose to change Article I, Section 2 of the Constitution of the Institute of Electrical and Electronic Engineers to read:

"Its purposes are primarily scientific and educational, and it shall strive to enhance the quality of life for all people and to promote the welfare of the engineers it represents. The IEEE shall direct its efforts toward the advancement of the theory and practice of electrical engineering, electronics, and the related arts and sciences, and toward an understanding of the impact of these advances on society. Means to these ends are the holding of meetings for the reading and discussion of professional papers, the publication and circulation of works of literature, science and art pertaining thereto and any other activities necessary, suitable and proper for the fulfillment of these objectives."

(The words underlined are the proposed addition; parts of the existing first sentence of the Section are deleted)

Our intention in elaborating and extending the purposes of the IEEE is twofold. First the engineer should become more aware of the social consequences of his work and his special responsibility in preventing the misapplication of scientific knowledge. Our other objective is to make legitimate and magnify the current IEEE concerns with the welfare of its members, such as the IEEE Insurance Program and the recent concern shown for engineering unemployment. Some letters in Spectrum have pointed out many practical ways in which the IEEE could better insure the treatment of its members as professionals.

NAME

ADDRESS

A Robb
a Ashkinay

NEW ENGINEERING CONFERENCE

March 22-25, 1971

2 West 64th St.

1. ENGINEERING UNEMPLOYMENT

The effect of the Nixon's Administration's economic policies on engineering unemployment.

Sen. George McGovern

Do we need a nation-wide system for allocation of our engineering and scientific resources and skills?

A proposed Federal Dep't. of Science and Technology.

The effect of DOD policies including cost-plus contracts and consequent manpower stockpiling on the present engineering unemployment situation.

Mon. Eve. 8 pm. Main Auditorium.

2. Conversion to Peace Time Economy.

How a peace-time economy can provide jobs for all our existing engineering manpower. The steps necessary to convert from a weapons economy to a socially useful economy. How great will be the suffering of the individual weapons engineer? How may this suffering be alleviated?

Prof. Seymour Melman, Prof. of Industrial Engineering, Columbia Univ.

Tues. Eve. 8 pm. Main Auditorium.

3. The ENGINEER AND SOCIETY. WHAT ARE THE RESPONSIBILITIES of an engineer to the society in which he functions? In what manner has the engineering profession been remiss in fulfilling these responsibilities? Is the lack of esteem in which engineering is held partially accounted for by its neglect of these responsibilities?

A SESFA pledge ceremony will be held at the end of this session.

Wed. Eve. 8 pm. Main Auditorium.

4. ENGINEER*MANAGEMENT RELATIONSHIPS.

The history and experience of engineering unions. The parallels and lessons to be learned from the experience of the teaching profession.

Henry Zylla, Pres. of the Engineers Association, Sperry Gyroscope Co. The history and experience of an employee operated and controlled newspaper or "free press".

Georges London, Brookhaven Laboratory Free Press

A radical critique of the IEEE. Contrasts with the AMA. A role for an engineering lobby.

Thurs. Eve. 8 pm. Main Auditorium.

a bad time

AFTERNOON WORKSHOPS

for

NEW ENGINEERING CONFERENCE

1. PORTABLE PENSIONS. As high priced migrant workers, should an engineers's pension follow him from job to job. Examples from TIAA and CREF and how they work.

Mon. 2 pm. 5th floor conference room.

2. The LOCKHEAD SYNDROME AND THE WEAPONS ENGINEER. Studies have shown that work in either a wasteful enviornment or work on a morally nondefensible product or service have a debilitating effect on engineers, their family life and productivity.

Tues. 2 pm. 5th floor conference room.

3. RETRAINING AND RETREADING. A critique of HUD's program to retrain electrical engineers for work on urban problems.

Wed. 2 pm. 5th floor conference room.

Additional workshops will be scheduled upon request. Check conference bulletin board or daily bulletin for latest schedules.

COMMUNICATIONS CENTER. A communications center will function from 6 to 12 pm daily in the lobby of 2 West 64th St. Any group wishing to do so to do so may set-up and man a literature table in the Center.

* * * * - - - - -

New Engineering Conference
137a West 14th St.
New York, N.Y.10011

Dear Sirs:

I would like to help plan the 1972 New Engineering Conference. _____.

I would like to help plan the new publication, New Engineering Thought _____.

I am enclosing \$5 to cover the cost of the proceedings for the 1971 New Engineering Conference _____.

I would like tape recordings of the following sessions at \$7.50 per session _____.

Enclosed is \$5 for a subscription to New Engineering Thought. _____

Please keep me posted of your next plans _____.

name

address

city

state

zip

New Engineering Conference (draft proposal 2/1/71)

March 22, 23, 24 at Ethical Culture Society Hall

Evenings at 8:00

1. The Engineering Environment Unemployment, government policies, conversion to a peacetime economy and the effects on the engineer. Constructive uses of engineering.
2. The Engineer as an Individual Personal responsibility for the consequences of one's work. Codes of ethics. Prestige of the profession. Pledge ceremony.
3. The Engineer and His Organizations Possible roles of organizations in permitting the engineer to function as a responsible professional, and to protect his economic interests. Engineering unions. The Brookhaven Free Press. Critique of the IEEE. Other professional societies (AMA, ABA, AAUP).

229 Cambridge Avenue
Englewood, New Jersey 07631

February 14, 1971

Professor Joseph Weizenbaum
Room 824, 545 Technology Square
Massachusetts Institute of Technology
Cambridge, Massachusetts 02139

Dear Professor Weizenbaum:

You may recall our having met last year when you visited our department to speak at our computer colloquium.

Enclosed is the statement of purpose of a recently formed organization, The Committee for Social Responsibility in Engineering. I think it is self explanatory.

The initial project of this group will be a conference held in parallel with the IEEE Convention this March to treat a number of critical topics that receive little or no attention from the IEEE. Three principal sessions are planned:

- (1) The Economic and Political Crisis: Engineering unemployment, and its relation to government policies. Conversion to a peacetime economy and the effects on the engineer.
- (2) The Moral Crisis: Personal responsibility for the consequences of one's work. The dilemma of the engineer working on military projects. Codes of ethics.
- (3) The Organizational Crisis: What are engineering societies doing for the engineer and for society? What should they be doing? Engineering unions. Other professional societies.

These sessions, held not far from the convention site at the Ethical Culture Building, will be in the form of panel discussions with extensive participation from the floor. They will take place respectively during the afternoons of March 22 and 23, and the evening of March 24. Informal workshop sessions on special topics may also be set up. Thus far the following people have agreed to serve as panelists: Michael Averko, Jin Malvern Benjamin, Barry Commoner, William Davidon, Samuel Mason, Seymour Melman, Victor Paschkis, and John Ullman. Others are in the process of being contacted.

Which brings me to the main point. We would be very pleased to have you participate on any of these panels. Let me know if you can, or if you wish to discuss the idea. (The sooner the better, since we are about to launch our publicity campaign.) You might also help us by spreading the word among your associates, and by sending us a check (payable to the CSRE) to help defray mounting expenses.

Best Regards,

Stephen H. Unger
Professor of Electrical Engineering, Columbia University

229 Cambridge Avenue
Englewood, New Jersey 07631

February 14, 1971

Professor William Viavant
College of Engineering
University of Utah
Salt Lake City, Utah

Dear Bill,

Enclosed is the statement of purpose of a recently formed organization (another one!), The Committee for Social Responsibility in Engineering. I think it is self explanatory.

The initial project of this group will be a conference held in parallel with the IEEE Convention this March, to treat a number of critical topics that receive little or no attention from the IEEE. Three principal sessions are planned:

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- (2) The Moral Crisis: Personal responsibility for the consequences of one's work. The dilemma of the engineer working on military oriented projects. Codes of ethics.
- (3) The Organizational Crisis: What are engineering societies doing for the engineer and for society? What should they be doing? Engineering unions. Organizations in other professions.

These sessions, to be held at the Ethical Culture Society Building, not far from the convention site, will be in the form of panel discussions with extensive participation from the floor. They will take place respectively during the afternoons of March 22 and 23, and the evening of March 24. Informal workshop sessions on special topics may also be set up. Thus far the following people have agreed to serve as panelists: Michael Averko, J. Malvern Benjamin, Barry Commoner, William Davidon, Samuel Mason, Seymour Melman, Victor Paschkis, and John Ullman. Others are in the process of being contacted.

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Best Regards,

Stephen H. Unger

THE COMMITTEE FOR SOCIAL RESPONSIBILITY IN ENGINEERING

What has now become CSRE began meeting weekly at the end of the past year. Picking a name and drafting a STATEMENT OF PURPOSE were the first items of business. Frank Collins, Barry Horowitz, Brad Lyttle and R.H. Rifkin drafted the final version of the STATEMENT.

Recently the weekly meetings of the working committee have been spent discussing the form of the alternate-sessions we will be holding during the IEEE convention, March 22-25, 1971, in New York City.

Three sessions are beginning to take shape. They are:

1. THE ECONOMIC CRISIS IN ENGINEERING: Unemployment, government policies, conversion to a peacetime economy and its effects on the individual engineer. Panel members who have agreed to participate are;

Prof. Seymour Melman, Industrial Engineering, Columbia Univ.

Prof. John Ullman, Chairman of the Department, Marketing and Business Statistics, Hofstra Univ.

Michael Averko, Manager of Marketing Information Services, Ziff-Davis Publishing Co.

2. THE MORAL CRISIS IN ENGINEERING: Personal responsibility for the consequences of one's work. Codes of Ethics. Prestige of the profession. SESPA pledge ceremony.

Prof. Sam Mason, MIT

Prof. William Davidon, Former chairman of the Physics Dep't, Haverford College; also a Berrigan co-conspirator.

Victor Paschkis, former President of Scientists for Social Responsibility in Society, (SSRS), 221 Rock Hill Rd., Bala Cynwyd, Pa. 19004.

3. THE ENGINEER AND HIS ORGANIZATIONS: Possible roles of organizations in permitting the engineer to function as a responsible professional, and to protect his economic interests. Engineering unions. The Brookhaven Free Press. Critique of the IEEE. Other Professional societies (AMA, ABA, AAUP).

Georges London of the Brookhaven Free Press.

Anthony Robbi of RCA who is now preparing a critique of the IEEE. He can be reached at RD #1, Hopewell, N.J. 08525. Tel. 609-466-0119.

Comments or ideas on all panels are welcome. We also welcome the names of additional possible participants.

Our sessions will be held in the main hall of the Ethical Culture Society, 2 West 64th St. The hall can hold 1200 to 1400 people. Rental per session will be \$50. The building has four other smaller halls that could be used to hold workshops, seminars, etc. Again, suggestions are welcomed.

Stephan Unger of Columbia, and William Higinbotham of Brookhaven, have sent a letter to the IEEE asking for 1. a literature table in both the Coliseum and Hilton; 2. a room for small discussion groups at both locations; 3. dissemination at the registration tables of our meeting schedule; 4. publication of our meeting schedule in the March issue of Spectrum. Bill Hilty, IEEE convention manager, has since replied that our requests will be discussed at the next meeting of the IEEE Convention Board.

We have made arrangements to have use of the Dolphin Center, 137a W 14th St. during the Convention. This will give us 24 hour access to typewriters, mimeo machines, etc. In addition we get one month's mail address, phone service, etc. for an initial cost of \$25. Until after the Convention, we can best be reached through any members of our working committee or at the home of TED WERNITZ, 923 Walton Ave., Bronx, N.Y. 10452. 212-537-2973.

We also have a bank account at the Bankers Trust Co. Total input to date has been \$115. Hall rental plus Dolphin Center rental totals \$175. We expect to spend an additional \$200 or so for printing costs. Please feel free to contribute in any way you can.

Ted Wernitz

THE COMMITTEE FOR SOCIAL RESPONSIBILITY IN ENGINEERING

What was to become CSRE began meeting weekly at the end of the past year. Picking a name and drafting a STATEMENT OF PURPOSE were the first two things accomplished. Frank Collins, Barry Horowitz, Brad Lyttle and R.H. Rifkin wrote the final version.

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Georges London of Brookhaven Free Press

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Comments or Ideas are welcome on all panels. Also the Names of suggested additional speakers.

Our sessions will be held in the main hall of the Ethical Culture Society, 2 West 64th St. This hall holds 1200-1400 people. Cost per session will be \$50. The building also has 4 other halls, holding 250, 150, 50 and 50. These rooms could be used to hold workshops, seminars etc. Again, suggestions are welcomed.

Stephen Unger and William Higinbotham (Columbia and Brookhaven resp) have sent a letter to the IEEE asking for 1. a literature table in both the Coliseum and Hilton; 2. a room for small discussion groups at both locations; 3. dissemination

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We also have a bank account at the Bankers Trust Co. Total input to date has been \$125. Three sessions plus Dolphin Center costs total \$175. Also need money for pamphlets etc.

Hastily written by the co-ordinator. Ted Wernitz

DAVID PACKARD

David Packard is 59 years old, 6 feet 4 inches and weighs 250 pounds and since 1959 has been deputy Secretary of Defence. Prior to moving to the Defence Department, Packard had been on the board of directors of the General Dynamics Corp, U.S. Steel, Stanford Research Institute, the Equitable Life Insurance Co., Hewlett-Packard, Stanford Univ., National Airlines, System Development Corp (SDC), the Crocker-Citizens National Bank, the American Management Association, Huggins Laboratory, and the Varian Corp. He was also director of the International Advisory Committee of the Chase Manhattan Bank and one of the Advisory Board of the Hoover Institute of War, Revolution and Peace.

When news of his move to the Defence Department was announced former assistant Secretary to Defence Adam Yarmolinsky, worried about blatant "conflict of attitude" was quoted in the Washington Post (Jan 24, '69) as saying that "Men who have made a career in the defence industry are likely to be less sensitive to controlling the expansionist tendencies of the establishment."

Packard was Chairman of the Board and Chief Operating Officer of the Hewlett-Packard Co, in which he owned 30% of the stock of this company that does \$100 million business with the government each year. Packard arranged for his 30% stock interest in Hewlett-Packard to be put in a trust managed by the Bank of America during his term as Deputy Secretary of Defence. He claimed that since the dividends and capital appreciation of the stock would go to charity, the basic \$300 million value of his share of Hewlett-Packard would have no influence on his decision making process. Sen. Gore's reaction to the trust arrangement was that "public confidence (would) be shaken".

source Current Biography (1969)
Who's Who 1958-1969

While serving on the board of directors of the General Dynamics, Packard worked with former assistant Sec. of the Air Force and current pres. and chairman of the Board ~~xxxxxxx~~ Roger Lewis. Packard and Lewis met not only at General Dynamics meetings but also at meeting of the Stanford Univ. trustees.

George S. Moore, chairman of the Board of the First Nat'l City Bank, and on the board of W.R. Grace, Chubb, United Airlines, Borg-Warner and Mercantile Stores, worked with Packard on the board of U.S. Steel.

L.D. Welch and George Metcalf are two of Moore's fellow directors at First National City. Welch is chairman of the Board of Comsat and former chairman of Standard Oil of New Jersey. Metcalf is Chairman of Sears Roebuck. While Moore and Metcalf worked with Packard on the Board of US Steel, Welch was with him on the Board of General Dynamics.

John M. Meyer Jr. Chairman of the Board of Morgan Guarantee Trust Co. was a fellow director with Packard at US Steel. The President of Morgan Guarantee Trust is Thomas S. Gates, former Secretary of Defence. Henry S. Wingate is also on the board of Morgan Guarantee Trust, the J.P. Morgan Co. was a fellow director with Packard at US Steel. Wingate is Chairman of the Board and Chief Executive Officer of the International Nickel Co.

William C. Bolenius, on the Board of International Nickel with Wingate, former vice chairman of AT&T, and on the boards of the Pullman Co, Ingersoll-Rand, was on the board of General Dynamics with Packard, while Wingate and Packard were on the board of US Steel.

Another interesting pair are Roger Blough and Stuart Saunders, both on the Board of Chase Manhattan Bank with David Rockefeller, while Packard was director of Chase Manhattan's International Advisory Committee.

Saunders is the Chairman of Penn Central, while Blough was Chairman of US Steel till '69. Both saw Packard at board meetings of US Steel and the Equitable Life Insurance Co.

W.A. HIAS and G.F. Lente and Packard were on the board of Pacific Gas and Electric, which serves most of northern and central Calif. Both are also on the Board of the Bank of America which operates the "trust" Packard established for his Hewlett-Packard stock while he is Deputy Secretary of Defense.

Button (or card mottoes)

{ Engineer
Technology for Life
- Not for Death }

{ I am a Responsible
Engineer }

{ Engineer life -
not death }

- ✓ 1. Finalization of speaker list.
- ✓ 2. Distribute speakers amongst sessions.
- ✓ 3. Session format: Individual talks, panelist statements, panel discussion, audience participation (statements and questions).
 - a. who is in which?
 - b. time limitation for each.
- ✓ 4. Speaker confirmation: day, time, session, individual talker or panelist.
5. Abstract of remarks from speakers: beforehand, at session.
6. Tank you note after convention.
7. Arrangements for anybody not familiar with NYC.

1. Mechanism for instantaneous decisions;

a. Expenditures

b. Policy

2. Survey: Thursday at Coliseum.

3. Evaluation and future activities meeting, get together:

a. during convention week.

b. later.

4. Compile list of donors.

5. Spectrum article.

6. Press release for each session.

*** 7. MANPOWER*****

*** 8. TIME TABLE*****

Now
TUE

EVE.
EVE.

1. Hall:

✓ a. Rental.

✓ b. Furniture, their physical arrangement.

✓ c. Sound and recording equipment:

(1) Rental.

(2) Physical location or arrangement.

(3) Blank tapes.

✓ d. Entrance displays: easle with large poster.

(1) Directions to Hall.

(2) Panels, panelists, etc.

2. Office facilities:

a. Room with 24 hour access.

b. Telephones.

c. Furniture.

d. Reproducing equipment and supplies.

e. Typewriter.

f. Office supplies: pencils, paper, etc.

✓ 3. Lounge facilities.

✓ 4. Toilet facilities: directions (signs), location.

5. Outside bulletin board at ECH.

6. Special parking arrangements: with ECS or the police.

7. Arrangements for opening and locking the rooms.

8. Literature and donation table:

a. Location.

b. Furniture.

c. Literature:

(1) Newsletter.

(2) Restaurant listing (economics).

(3) Other.

9. Refreshments - concession ?

10. Displays at ECH - audio and visual.

11. Security and unexpected physical problems.

12. a. Moderator and coordinator for each session.

b. Announcements, money pitch, collection baskets.

13. Provisions for overflow: outside sound equipment, police arrangements.

1. School:

a. Newspapers.

b. Letters to all EE and interested faculty and others.

c. Posting of flyers.

d. Leafletting - especially evening students.

e. Announcements at student IEEE meetings.

2. Picketing at IEEE headquarters:

a. When?

b. Picket signs.

c. Police cooperation.

d. Leaflets

e. Press release at picketing.

f. Advance press notification (to get coverage).

g. Who speaks to press?

3. Press:

a. Initial contact: statement of purpose, initial announcement flyer
(in order to gather inside names.)

b. Press conference (During week before sessions):

(1) Emphasis? Group or individual speakers?

over, please

(2) When? and where?

(3) Press release to be handed out.

(4) Invitations to press.

(5) Format.

4. Personal contact with interested people in;

a. Industry.

b. Schools.

c. Other.

5. Leafletting (will these be the same as the program?):

a. Where?

(1) Schools.

(2) Industry.

(3) Coliseum.

(4) NY Hilton.

b. When and where at each location?

c. Quantity of leaflets needed.

d. Writing the leaflet - layout.

e. Include money pitch and cut slip, blank back.

f. Arrangements: tables, chairs, manpower.

g. What other literature should be available at leafletting tables.

h. Prior permission and arrangements with the Coliseum and or NY Hilton?

i. Sound truck outside Coliseum?

j. Directions or map?

k. Placard for table.

l. Buttons or other identification for leafleters.

m. NECLC lawyer, telephone number, etc. (NYCLU or ACLU ?)

n. Give to leafleters case decided in favor of such.

o. Newsletter to be sold at table and other places.

p. Articles, if any, to be distributed.

6. Newsletter:

a. Articles.

b. Printing.

c. Cut slip with fund pitch.

d. Cost?

7. Program - same as leaflet?

Amendment

MONEY

683-8120
Ryan
ECCLC

10
160
120
82

300
240
160
50
210

580

h. Prior pervasion and arrangements with the Colliseum and/or NY Hilton?

~~24 x 10 =~~

i. Sound truck and the Colliseum?

~~with~~
~~10~~

(26)

200

j. Direction of way?

~~left~~

k. Placed for table.

10

200 x 200

l. Buttons or other identification for leaflets.

10

15

m. NECJC lawyer telephone number, etc. (NYCU or ACLU?)

7

138

3

x 200

8

276

3

n. Newsletter to be sold at table and other places.

16

p. Articles, if any, to be distributed.

5

o. Newsletter:

6

5

q. Articles:

10

r. Printing:

5

s. Out slip with lunch pitch.

6

t. Cost?

6

u. Program - same as leaflet?

6

10

4

3

7

(138)

Cost 8100
2412

200

200

1000

1000

1000

200

THE COMMITTEE FOR SOCIAL RESPONSIBILITY IN ENGINEERING

137a West 14th Street, New York, N.Y. 10011

Working Committee:

Tony Agnello, CCNY
Prof. Ralph Akkoyunlu, SUNY
Dr. Aaron Ashkinazy, RCA
Prof. P. M. Brown, CCNY
Prof. Frank Collins, PIB
Prof. Douglas Davids, NYU
Dr. Albert Friedes, BTL
Dr. William Higinbotham, BNL
Barry R. Horowitz, PIB
Elsa Horowitz, IBM
Lee M. Horowitz, NCE
Prof. George M. Katz, Col. Med.
Larry S. Liebovitch, CCNY
Brad Lyttle, WTR
Ted Mankovich, Col. U.
Prof. Seymour Melman, Col. U.
Prof. Marvin Paull, Rutgers
Rowan Hay Rifkin, PIB
Dr. Anthony Robbi, RCA
Dr. Harvey Rubin, BTL
Prof. Philip Sarachik, NYU
Paul Stoller, IBM
Steve Tencer, Col. U.
Prof. S. H. Unger, Col. U.
Rod Wallace, Col. U.
Ed Walker, IBM
Prof. Richard Wiener, CCNY
Prof. Sheldon Weinbaum, CCNY
David Wuchinich, Cooper Union

PRESS CONFERENCE

CSRE will hold a Press Conference on Monday, March 22, 1971 at 10 A.M. outside the main entrance to the N. Y. Coliseum (during the IEEE Convention). The organization's purposes and goals will be introduced by the coordinator, Ted Werntz, and by Seymour Melman, Professor of Industrial Engineering at Columbia University and author of Pentagon Capitalism.

PRESS RELEASE: For Release March 22, 1971

Contacts:	Ted Werntz:	(212) 537-2973
	Stephen H. Unger:	(212) 280-3107
	George M. Katz:	(212) 579-3794
	Rowan Hay Rifkin:	(212) 643-2113

Coordinator:

Ted Werntz

(Affiliations for
identification only)

Misuse of technical talent, for destructive or frivolous purposes, while the lights are literally going out in our cities, coupled with rising engineering unemployment, has stimulated the formation of an insurgent group of engineers: THE COMMITTEE FOR SOCIAL RESPONSIBILITY IN ENGINEERING. Members, drawn from engineering schools and industrial organizations in the Metropolitan area, run the gamut from undergraduate to Fellow of the IEEE.

A "New Engineering Conference" sponsored by the Committee is to be held March 22-24 at the Ethical Culture Society Hall in Manhattan (64th Street at Central Park West) and

admission is free. Discussion will center on questions neglected by conventional engineering societies such as the IEEE, whose annual Convention will be going on simultaneously a few blocks away. Audience participation will be emphasized at these sessions.

Questions to be addressed are: What can be done for the engineer who is forced to choose between giving up his job and carrying out an assignment he feels is reprehensible, such as doing weapons-related research? Should engineering societies attempt to influence governmental policies on technology? If so, in what direction? How can engineering jobs be created that will serve society better than SST's or ABM's? Why is research on such a vital problem as controlled thermonuclear fusion, which might solve our energy problems without damaging the environment, funded on such a miserly basis? Why aren't there crash programs to develop the technology needed for quality mass transit systems? Is there a role for engineering unions?

Panelists at the conference will include: Congressman Edward Koch; Seymour Melman, Professor of Industrial Engineering at Columbia University and author of Pentagon Capitalism and Defense Economy: Conversion of Industries and Occupations to Civilian Needs; Jeremy J. Stone, Director of the Federation of American Scientists and author of Containing the Arms Race; several highly respected electrical engineers, including Professor Samuel Mason of M.I.T.; and some younger members of the profession. Haverford Physics Professor William Davidon, a pacifist named as co-conspirator in the Berrigan case, and former president of the Society for Social Responsibility in Science, will also be a panelist.

The group plans to distribute leaflets at the IEEE Convention in order to attract to its meetings a considerable number of the tens of thousands of engineers expected to attend. A petition will be circulated among IEEE Members to amend the IEEE constitution to add to the purposes of that organization a commitment "to enhance the quality of life for all people and to promote the welfare of the engineers it represents", and to strive for an understanding of the impact on society of the technology that it is advancing. This is intended as a first step in the revitalizing of the world's second largest

professional society.

In the view of the Committee, the insensitivity of the IEEE hierarchy to the present crisis in engineering is highlighted by the choice of David Packard as the guest speaker at the annual IEEE Banquet. Few men better symbolize the military-industrial complex that has led to the current impasse than the Assistant Secretary of Defense who made his fortune producing sophisticated electronics for the armed forces.

The first issue of the "Spark", a periodical that the Committee is initiating, will be ready for distribution at the Conference.

* * * * *

New Engineering Conference Program:

1. THE ECONOMIC CRISIS IN ENGINEERING:
Unemployment, government policies, conversion to a peacetime economy; effects on the engineer.
(Monday, March 22, 2:00 p.m.)
2. INDIVIDUAL FREEDOM AND RESPONSIBILITY IN ENGINEERING:
Personal responsibility for the consequences of one's work. Your influence on the direction of your work; alternate employment choices. Code of Ethics; prestige of the profession.
(Tuesday, March 23, 2:00 p.m.)
3. ENGINEERING ORGANIZATIONS --WHAT COULD THEY DO FOR YOU?
Critique of the IEEE. Other professional societies (AMA, etc.). Engineering Unions. New organizational forms.
(Wednesday, March 24, 7:30 p.m.)

WE'RE IN TROUBLE

THE LIGHTS ARE GOING OUT IN OUR CITIES.

THE FISH CAN'T LIVE IN OUR WATER.

THE AIR STINKS - EVEN IN THE SUBURBS.

TRANSPORTATION IS BREAKING DOWN. (DID YOU COME HERE BY SUBWAY?)

We could add to the list - but we'll let you do that for yourself.

There isn't one simple cause, but a lack of money is one big factor.

IN THE WORLD'S RICHEST NATION?

Where have all the dollars gone? During the past couple of decades, about a trillion of them have gone to the pentagon for national security.

(DO YOU FEEL SECURE?)

As engineers, many of us have been used directly or indirectly in some of history's biggest boondoggles.

Perhaps it's time for us to speak up as a profession.

What do we want to work on?

Transportation for people - or for bombs?

Thermonuclear reactors - or thermonuclear bombs?

Control systems for power networks - or for missiles?

Engineering for life - or for death?

WHICH BRINGS US TO DAVID PACKARD

No doubt he is a nice, able and charming fellow. But he represents the agency that implemented the perversion of our profession, and that is now carrying out a policy of mass murder in Indochina. His prior affiliations were with organizations that profit from this perversion and murder.

Mr. Packard, who might well be designated as "Mr. Military Industrial Complex", is a singularly inept choice as a featured IEEE speaker.

Committee for Social Responsibility in Engineering
137 A West 14th St., New York, NY 10011

SSRS NEWSLETTER

Published monthly by the SOCIETY FOR SOCIAL RESPONSIBILITY IN SCIENCE, an international organization founded in 1949 by scientists and engineers whose purpose is to induce scientists to recognize a personal responsibility for the anticipated consequences of their work and to exercise their profession always for the benefit of humanity.

SSRS has members in 25 countries and the Newsletter is circulated in 40 countries.

Editorial and Business Correspondence:

SSRS, 221 Rock Hill Rd., Bala Cynwyd, Pa., 19004
Ann Davidon, Editor

Subscription: \$5 per year (included in membership dues). In bulk: \$1 apiece for 20 or more to the same address.

3. to conduct educational efforts of his colleagues, individually and through their professional societies, of decision-makers both in the public and private sectors of all economies, and of the general public to accept personal responsibility and to understand that technological implementation has unintended effects in addition to the intended ones, that these unintended effects cannot be disregarded but must be explored and evaluated before undertaking a project; that uncontrolled growth of technology is not possible on this Spaceship Earth that wise control of the development of technology is necessary.

Victor Paschkis

Chairman of the Committee
on Review and Statement
of Goals

The following oath, proposed by SSRS member Professor M. W. Thring (U.K.) will be discussed at the Annual Meeting in Trondheim.

AN OATH FOR APPLIED SCIENTISTS AND ENGINEERS

I vow to strive to apply my professional skills only to projects which, after conscientious examination, I believe to contribute to the goal of co-existence of all human beings in peace, human dignity and self fulfilment.

I believe that this goal requires the provision of an adequate supply of the necessities of life (good food, air, water, clothing and housing, access to natural and man made beauty), education and opportunities to enable each person to work out for himself his life objectives and to develop creativeness and skill in the use of the hands as well as the head.

I vow to struggle through my work to minimize danger, noise, strain or invasion of privacy of the individual: pollution of earth, air and water, destruction of natural beauty, mineral resources and wild life.

BOOK REVIEWS

[The following reviews by Earl Graham of three important books published in the United States during the past year are particularly relevant now, at a time when the "Pentagon Papers" have revealed a secret side of the Vietnam war which many had suspected but never before seen documented. Unfortunately, the "megamachine" and the growth of militarism are not confined to the United States, but permeate all of Western society - and increasingly countries of the "Third World". Scientists everywhere would do well to read and heed these biopsies of the cancerous American giant.]

The Myth of the Machine: The Pentagon of Power, by Lewis Mumford, Harcourt Brace Jovanovich, New York, 1970, 496 pp. \$12.95

how the megamachine has given us our "dismaying nightmare of twentieth-century existence, in which almost no malign hallucination or psychotic impulse would be technically impossible to carry out, and in which no product of technics would, if it filled its own specific requirements, be regarded as humanly undesirable, if only it promised increasing money or power or prestige to investors, fabricators, or financial and political exploiters."

He has been accused of being antiscientific. To this reader Mumford definitely is not, but is rather seeking to have science and technology return from its barren pursuit of power to that of providing plenitude for man. In his words: "No one questions the immense benefits already conferred in many departments by science's efficient methodology: but what one must challenge is the value of a system so detached from other human needs and human purposes that the process itself goes on automatically without any visible goal except that of keeping the corporate apparatus itself in a state of power-making, profit-yielding productivity."

SSRS members will agree with his analysis of the responsibility of scientists. "The scientists' aloofness from the social scene, though an excellent temporary protective device, also prevented the body of scientists from concerning themselves about the political or economic uses to which their seemingly disinterested pursuit of knowledge might be put. Under the new ethic that developed, science's only form of social responsibility was to science itself: to observe its canons of proof, to preserve its integrity and autonomy, and to constantly expand its domain. Three centuries would pass before a society to 'promote social responsibility in science' was even conceived; and though growing numbers of scientists today have become aware of their moral obligations, awakened from their somnolence or self-absorption by the first nuclear blast, it is doubtful that a majority as yet subscribes to this conception."

Mumford calls for a science and technology which seeks "plenitude" for man, not naked power alone. Necessary is "A sound and viable technology, firmly related to human needs", not "one that has a maximum productivity as its supreme goal: it must, rather, seek in an organic system, to provide the right quantity of the right quality at the right time and the right place in the right order for the right purpose".

The myth of the machine as described by Mumford must be understood not only by scientists, but by all citizens.

Pentagon Capitalism: The Political Economy of War, by Seymour Melman. McGraw-Hill Book Co., New York, 1970. \$8.50.

Melman describes how the "military-industrial complex", as referred to by former President Eisenhower, has grown into a more sophisticated and powerful "state-industrial management" for military production, its organization and control.

As such, this self-perpetuating corporate entity has far greater influence on American life than its longer established industrial corporate structures. With an annual budget of over 80 billion dollars, half of which is used in the purchase of hardware from corporations in the military business, the immense purchasing power of the Pentagon gives it almost unlimited decision-making power over the American economy and culture. This control by the state-military-industrial management is made possible by its promise to perform the service of defending the United States - a promise which it cannot fulfill.

One chapter of the book reviews how this state management has extended its control over the universities

Ed Melusky
Sammy Eckerly
Mel Brewer USC?
Mike Harrison
Dan Mc Crocker
Randy Rusten
Walt Brannard
Larry Josephson
Bill Vivant
Murray Eden
Joe Weizenbaum
Ralph Brewold
Loffi Zadeh
Jack Hahn
Marvin Minsky
Peter Wegner - Brown Univ.

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Prospective People for CSRE

✓ Parker

Dan McCracken (author)

Richard Pryor - RCA

✓ Sam Mason
Joseph Weizenbaum
Fred Herminie

Prof. Richard Orzass - Rutgers Computer Science

Dr. Ralph Griswold - BTL, Holmdel

✓ Donald C. Eisele
Kushner

Prof. Arthur Bernstein - Stony Brook Computer Sci.

✓ Ed Fuchs
C-33
Dave Bantz
Don Rosenkrantz
9 Hartmanns

Prof. Robert McNaughton - Pennsylvania math.

Prof. Lotfi Zadeh - EECS Berkeley

will talk
Larry Welsh - RCA

JOHN WEBB BTL

Robert Podell - ITT (Virginia) I can probably get his address

Dr. Bernard Friedland ?

✓ EUGENE LEONARD
SYST. RESOURCES
CORP.

Prof. William Siebert - MIT, EE

Prof. Chitoor Brinivasan - Rutgers Computer Sci.

✓ Aud

✓ Mr. Jack Hahn - Mt. Sinai - College of Medicine
Computer Sci. Dept.

Moses Wolf - Riverside Research Institute

✓ Michael Axelrod - ex RRI 160 E. 97th St. NYC 10029

✓ Edward Giovine 147-25 No. Blvd. Flushing
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Prof. Saul Amarel - Rutgers CS

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February 11, 1971

Dr. Steven Unger
229 Cambridge Ave.
Englewood, NJ 07631

Dear Steve:

I would be glad to be part of the panel involving Bill Davidon and Victor Paschkis at your IEEE parallel sessions. Thank you for inviting me; see you then.

Sincerely,

J. Malvern Benjamin, Jr.

JMB:gbr

MYRON PLEASURE

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