

corrected

MINUTES OF THE MEETING, SOCIETY ON SOCIAL IMPLICATIONS OF TECHNOLOGY
ADCOM April 12, 1997

NAME	AFFILIATION	PHONE-W,H,FAX,EM
* indicates not present at this meeting, boldface for changes		
FRED AMINZADEH*	ADCOM	o0423fxa@endeavor1
CLINT ANDREWS	ADCOM, TECH & PUB POL candrews@princeton.edu	609/258-4835 W 609/258-1985 F 609/252-0599 H
NORMAN BALABANIAN*	FORMER ED.T&S nbala@admin.ee.uft.edu	U. of Florida, Gainesville
MAL BENJAMIN	ADCOM, AWARDS CH. jmbenjamin@aol.com	215/438-9729 H 215/438-5089 F
TERRI SCHIESSER BOOKMAN	T&S MG. EDITOR 1 Danby Ct., Princeton, NJ 08540 tasb@pluto.njcc.com	609/279-1317 W, -1314 H, -1323 F
BOB BROOK	MEMBERSHIP, EMC/S, DIV IV rbrook@worldnet.att.net	516/938-6991 H,W 516/938-4363 F
MERRILL BUCKLEY, JR.	DIV. VI REP. 263 Lewis Rd., Springfield, PA 19064	m.buckley@ieee.org
ROBERT A. DENT	DIV. VII REP. r.dent@ieee.org	718/626-8205 W 718/267-5690 F
GERALD L. ENGEL	REP.DIV.V and VIII, CONFERENCES gengel@compmail.com	203/461-6690
JOHN FIELDER	ADCOM jfielder@email.vill.edu	610/519-4713 W 610/519-6102 F
KEN R. FOSTER	SSIT VICE PRES. kfooster@eniac.seas.upenn.edu	215/898-8534 W 215/573-2071 F 610/896-6188 H
VERNON E. GARDNER*	OTHER SOC., PACE 6624 Kirby Court, Falls Church, VA 22043-1726	
CARL HENN	Technology and Pub. Policy ,SOLE, NCOSE Chenn10607@aol.com	908/766-1020 W 908/766-7523F
JOE HERKERT	SSIT PRES., PUBS. j.herkert@ieee.org	919/515-7997 W 919/515-1828 F
JACK L. JATLOW(ret.)*	EMS REP.	212/758-0798
RONALD KLINE*	T&S EDITOR rkline@ee.cornell.edu	607/255-4307 W 607/272-2443 H
MIA LEVY	STUDENT ACTIVITIES mialevy@eniac.seas.upenn.edu	
JIM LIPPKE*	Technology and Pub. Policy , ex PUB. RELATIONS jlippke@hypernet.com	207/326-8081 H, W
ANDREW MEYER	DIV. X. REP. meyer@tesla.njit.edu	201/596-3530 W 201/376-4752 H
DAVID MINDELL*	T&S, BOOK REVS. mindell@mit.edu	617/742-1574 W

6. TREASURER'S REPORT

We ended 1996 with a \$55 k balance. **Motion passed to maintain SSIT dues at their current level, \$22.** See Treasurer's report attached.

7. PUBLICATIONS REPORT

Book Broker procedure has changed, with profits going directly to sponsoring society. However there is a tax to compensate the TAB general fund. We must share expenses. BB incurred a loss in 1996. In the future, we need to carefully monitor the number of books sold to the Book Broker program. Bob Dent explained POP and POP+.

There was further discussion of the role of T & S Magazine. Joe Herkert defended its current scope. Bob Brook suggested more emphasis on professional development as a way to expand SSIT membership.

T & S Editor Ron Kline needs to be replaced by 1998. **A motion was passed to form a Search Committee which is to report to AdCom by June 1.** An E-mail ballot is anticipated.

The SSIT home page was discussed. It needs more links from other sites.

T & S special issues for 1998 comprise an issue on ISTAS '97 guest-edited by Burne, and an issue on Internet in the classroom guest-edited by Ken Foster and Prof. Ginsburg. The latter may be copublished with Computer Society. **A motion was passed to approve the topic of the latter.**

A motion was passed to keep the T & S pages the same as 1997 figure of 176, inc. covers.

A motion was passed to raise the non-member T & S subscription price to the IEEE Marketing recommended level of \$150.

8. CONFERENCES

Gerald Engel has received no proposals for ISTAS '98.

Simon Burne has 65 paper abstracts for ISTAS '97, and ~ 80 attendees as of this date. There will be a special student session. Dr. Fielder indicated that 4 students would receive travel support from NSF for this meeting.

A final report on ISTAS '96 was submitted by Clint Andrews.

9. COMMITTEES

Chapters - Karl Perusich reported that Tokyo is active and Mexico is in start-up mode. The state of other chapters is unclear.

Ethics - Steve Unger reported on the IEEE Ethics Committee. They have considered and passed to MCC two cases, one a plant engineer fired over a public safety issue, and two a test result falsification case. MCC is processing a case involving commercial use of pirated software.

The IEEE Ethics Committee is seeking a TAB resolution to support a fund for engineers in trouble because of ethics. Bob Brook suggested corporations could be involved via ISO 9001.

Awards - The Barus Award for Service in the Public Interest is to be presented to Rebecca Leaf at a PES Meeting on May 13 in Columbus, Ohio. A video on the Linder/Leaf story is being produced.

Membership - Chair Brook reported that SSIT membership is sliding with respect to other Div. VI societies. He feels it is because a direct link to professional well-being is not strong enough. Student membership was discussed; the vast pool of CIS majors has not been tapped. Brook will arrange for flyers for the PES meeting in conjunction with Leaf award. Brook will consider a member gets member program, possibly involving 25th anniversary pins.

Elections - Bob Plonsey, John Fielder, and Joe Wujek were elected to SSIT AdCom for 3-yr. Terms ending 12/99.

Constitution and Bylaws - No report.

Strategic Planning - No report.

Technology and Public Policy - Henn and Andrews held a workshop on systems thinking in primary/secondary education at Princeton University. See Attachment.

Publicity and Public Relations - No report.

PACE - Veg Gardner's report is attached.

Other Society Liaison - Veg Gardner's report is attached.

Old Business - No report.

New Business - A motion passed by 7-4 to send a delegate to a summit commemorating the 20th anniversary of the International Geophysical Year at a cost not to exceed \$300.

Next Meeting - Sep.13, at Univ. of Penna., Philadelphia. Note change.

Respectfully Submitted,

A.D. Robbi, SSIT Secretary

SSIT Treasurer's Report

December, 1997

The Society has been doing fine financially this year. As of our financial statement at the end of October, our income so far this year was \$137.4K, more than 10% more than our budgeted income of \$122.9K. The difference of \$14.5K came mainly from \$19.8K in conference income while the value in the budget was \$0, minus \$5.5K in budgeted book broker income while the amount posted so far is \$0.

The \$19.8K is conference income from ISTAS'96, which hit the books in 1997. Due to the uncertainties in how much conference income to expect and when it will be posted, in recent years I have been setting the value in the budget for conference income to \$0.

On the other hand, our annual budget includes book broker income of \$5.5K, while none has yet been included in our financial statement. It seems that the year's book broker income will not be posted to our account until December. However, in the September 1997 IEEE book broker report we are shown with a year-to-date book broker income of \$1201.14. So we can expect at least this much by the financial statement at the end of the year.

Our expenditures this year as of the end of October were \$102.3K, while our budgeted expenditures for 1997 are \$109.7K.

Even though we are doing fine financially, we did experience a decline in membership which is cause for concern. Our official membership count for 1997 was 1651 regular members, down from 1788 in 1996. In the three years from 1993 to 1996 we lost an average of 105 members per year, while in the past year we lost 137 regular members. This is over 7% of our 1996 membership.

Student membership also declined, from 225 in 1996 to 189 this year. The only increase was in retired members, from 123 to 125.

Finley Shapiro

**Membership Report for the SSIT ADCOM
Dec. 6, 1997. Columbia University, New York City.**

The attached data shows that the small increases in society, Division IV, and IEEE society membership has continued; however SSIT membership is still not up to the level of last year, when it was 2158. Note that it is now 1975.

Other membership news:

On-line Member application has been initiated. The pilot On-line student application has been called a success by the IEEE.

The URL for the Member or Student member applications are as follows:

Member application
<http://sandbox.ieee.org:9200/apply/>

Student member application
<http://sandbox.ieee.org:9100/apply/>

SSIT/CSIT 25 year pins are available to SSIT members who bring in new members. The forms for the implementation of this have been set up by IEEE Membership Development.

I would like to initiate an effort to solicit industry support for the ISTAS by requesting support in the form of papers and the renting of booth space from those companies that are involved in environmental controls/cleanup, measurements, sustainable industries, etc. The purpose of this effort is to bring SSIT into the mainstream of IEEE society financing methods.

Ken Foster has stated that there is IEEE data that would help in this effort. All aid in this work would be greatly appreciated.

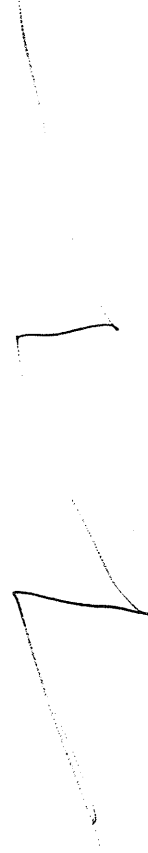
Respectfully Submitted,


Robert H. Brook, Membership Chair

**MEMBERSHIP STATISTICS OF SSIT(SIT-30) AND OTHER SOCIETIES
AS OF DECEMBER 1997**

	1997 - NOV MEMBERS & AFFILIATES	1997 JUNE/SEPT MEMBERS & AFFILIATES	% CHANGE
SSIT	1975	1904	+3.7
DIV. (M)	17,722	17,043	+3.98
SOCIETIES	330,297	316,875	+4.2

Note: These data were obtained from the Nov. 1997 Membership Development Report
from Maria D'Allesio- IEEE Piscataway



**INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS
SOCIETY ON SOCIAL IMPLICATIONS OF TECHNOLOGY
OTHER SOCIETY LIAISON**

6624 Kirby Court,
Falls Church, VA
22043-1726
Dec. 13, 1997

Dr. Kenneth R. Foster, President,
IEEE Society on Social Implications
of Technology,
Department of Engineering,
University of Pennsylvania,
220 South 23rd St.,
Philadelphia, PA
19104-6315

Subject: Other Society Liaison.

1. Association for Practical and Professional Ethics:

The seventh annual meeting of this association will be held in Dallas, TX, from Feb. 26, 1998 to March 1, 1998. A session, "Infrastructure in Science and Engineering Ethics" will be convened by Dr. Rachelle Hollander, Program Director of the National Science Foundation's Societal Dimensions of Engineering, Science and Technology Program. On March 13, 1997 Dr. Hollander addressed the NV/B/W Chapter of SSIT on the subject, "Ethics and Statistical Trends in Graduate Science and Engineering".

2. American Association for the Advancement of Science (AAAS):

The 1998 AAAS ANNUAL Meeting and Science Innovation Exposition will be held at the Convention Center in Philadelphia from Feb. 12 to Feb. 17, 1998. This will be the AAAS 150th ANNIVERSARY Celebration. One item of interest to SSIT appears to be "The Impact of Technology on Student Learning: Are we Making Progress?"

3. Student Pugwash, U.S.A.: This organization, which has its headquarters in Washington, DC, has been very cooperative in providing its publications on request. These publications include the following:

Mind-full: A brainsnack for future leaders with ethical appetites - a monthly publication.
Jobs you can live with: Working at the Crossroads of Science, Technology and Society. It highlights approximately 200 organizations that work to promote the ethical use of science and technology.
Chapter Organizing Guide.

Tough Questions (the newsletter)

Of interest is the great number of foundations, including the National Science Foundation, which are listed as supporters.

(cont.)

4. Committee on Social Aspects of Automation of the International Federation of Automatic Control (IFAC). Satish C. Mohleji, IEEE SM, has provided the name of new Chairman, Dr. Dietrichs Brandt. The 6th IFAC Symposium on Automatic Systems based on Human Skills was held in Slovenia as scheduled.

5. Although contact is maintained with the following organisations we have nothing significant to include in this report:

The Forum on Physics and Society of the American Physical Society.

National Association for Science, Technology and Society.

Computer Professionals for Social Responsibility.

American Society of Mechanical Engineers.

American Engineers for Social Responsibility.

Respectfull Submitted,


Vernon E. Gardner

(703) 533-0999

Copy to:

Anthony D. Robbi
Secretary, SSIT-IEEE
144 Lambertvill Hopewell Road
Hopewell, NJ
08525

Report from SSIT PACE Chair

Having just been appointed SSIT's PACE chair I attended the PACE annual conference 29Aug-1 Sept in St. Petersburg, FL (courtesy of PACE). The program included a four-hour orientation program prior to the main conference which I attended. I also attended all sessions specifically directed to Society PACE chairs (in addition to others). This is a report on my impressions of the conference and on PACE in relation to SSIT.

I might mention that I had not heard of PACE prior to my appointment and I may therefore be reporting information that is actually well known. Several active members of SSIT Adcom also occupy leadership positions in PACE and I'm sure will be glad to clarify or amplify any imperfect reporting. These are Ed Wong who is vice chair, PACE Divisional Activities Committee and Ann Rochester who is member of PACE Leaders Training Subcommittee.

PACE is the organized membership activity within IEEE-USA devoted to the non-technical, professional concerns of the IEEE Sections 1-6. Some specific interests include career development (continuing education, communication skills, pre-college outreach, engineering retraining, etc) public awareness of engineering, portable pensions, ethics, public funding affecting engineering, etc. PACE chairs survey their constituencies to access member professional concerns and, conversely, acquaint members with resources and programs of the IEEE-USA which are designed to respond to these concerns. There are organized workshops (S-PAC, M-PAC) which describe these matters which are available to conferences, sections, and other meetings. The key word heard at this conference was "networking", as a way of addressing specific individual and groups needs. PACE is also interested in assisting PACE chairs themselves in improving communication skills and in their role as described above.

PACE is set up to respond most effectively through sections and chapters which reach directly to the members on a local or regional level. This is emphasized by its position within IEEE-USA. I particularly attended sessions devoted to the functions of Societies/Divisions to clarify our role. Since Societies are transnational there may not be the interest in matters affecting the U.S. engineer alone (eg health care insurance, social security, retirement policies, etc) We wondered whether a Society could properly request IEEE-USA funds to support non-technical projects. On the other hand we also heard that many Societies have large memberships outside the US yet such members had a strong interest in all professional questions under discussion - and even had helpful suggestions by contrasting their own situation with ours. While globalization is a PACE interest little of its potential impact emerged in these discussions.

The large majority of attendees and consequently the main thrust at PACE does center on interaction with the Chapters and Sections (i.e. regional) in contrast to Society/Division. And most of the discussion on the role of Societies concerned the typical society organized around a specific discipline. So SSIT is clearly in a distinct category. SSIT and PACE have many parallel interests and goals. I like to think that SSIT may be further along in considering the social forces that affect engineers (among others in society) and can provide resources and leadership on these within PACE. Communication between PACE and SSIT is also highly desirable since it is an opportunity to obtain their support for our activities. It is also a channel for the dissemination of SSIT literature and could be helpful in obtaining new members. And finally, there is an availability of funding for SSIT projects and conferences when that can be identified as a PACE activity.

My apologies for being unable to attend the Sept 13 Adcom (I will be in Nice for the World congress on Medical Physics and Biomedical Engineering).

Bob Plonsey
September 1997

4/5/97

Panel 1

Morganoff (State)

Standards are for all students
tests will evolve over time to
include all the standards

Herbert (1400, K-12)

community support lacking

Goal 2000 grant to further standards

3 Bergen Districts
1-2% training budget far too low

Corporate lip service - need to
work more closely

Urban districts most in need - short/dgd.

Farley (HC)

standards driven by politics

didact standards of testing does not
fit new evolving information age

self-directed learning

Panel 2

Lemna strong proponent - says it's
not hard

uates be able to
ing an another langu
be required to commu
foreign language starti
grades.
It's still a substantial change.
Klagholz says. Right now not even a
high school students have a foreign lan
guage.

Examples of standards

Here are examples of what stu-
dents leaving the 4th, 8th and 12th
grades should know under the new cur-
riculum standards.

4TH GRADE:

- Use a media center to obtain information.
- Use a computer for word processing.
- Identify the rights and responsibilities of U.S. citizens.
- Define and use basic math concepts.
- Demonstrate how electricity can produce heat, light and sound.
- Use similes, metaphors and analogies.
- Explain the role of money in every day life.
- Initiate and respond to simple statements and commands in a language other than English.
- Describe major periods in U.S. history.

8TH GRADE:

- Use computers for assignments.
- Design and conduct science experiments.
- Prepare oral and written presentations.
- Explain and illustrate life cycles of organisms.
- Use spreadsheets and graphics programs.
- Analyze the functions of the three branches of government.
- Identify the properties of matter and forms of energy.
- Describe people, places and things in a language other than English.

12TH GRADE:

- Use computers to solve problems, collect data, and make decisions.
- Analyze the impact of genetic, behavioral, cultural and environmental factors on the human body and health.
- Use real life situations in written and oral reports.
- Explain the structure and function of molecules controlling cell activities.
- Describe how information is encoded in DNA.
- Interpret important events — international, political and diplomatic — in U.S. history.
- Evaluate the continuing influence of some key principals in the U.S. Constitution.
- Read and speak with fluency in a language other than English.
- Develop an individual career plan.