IEEE Nuclear and Plasma Sciences Society

Annual Meeting of the Administrative Committee

30 October 1999

Minutes

Westin Seattle Hotel
Seattle, Washington
1.0 Introduction and Roll Call: The attendees at this and several previous meetings are noted in Appendix 1.01. Appendix 1.02 provides a full list of AdCom members, their addresses, telephone, fax and e-mail information, and their AdCom position(s).

2.0 Agenda: It was moved by Ed Lampo and seconded by Ron Jaszczak that the agenda, with the addition of item 11.2.3, Elections, be approved. The motion carried unanimously. The final agenda with additions generated during the meeting appears as Appendix 2.0.

3.0 Minutes of 19 June 1999: The minutes of the 19 June 1999 meeting, distributed electronically, were approved by unanimous acceptance of a motion by Bruce Brown, seconded by Ron Jaszczak. It was requested that Word copies of reports be sent to the secretary, without the IEEE or NPSS logos where possible since these increase file size significantly.

4.0 Treasurer’s Report: Ed Lampo’s report appears as Appendix 4.0. The salary package for editors includes a 3% increase. Both the Editor-in-Chief and the Newsletter editor have rejected the 1999 stipend, and the newsletter editor has also rejected the 2000 stipend. The Editor-in-Chief has submitted his resignation after becoming chairman of the RITC.

Conferences are improving both in time to closing and in meeting NPSS’s request for return to the society. The return has increased from 3.7% for 1994-95 to 11% for 1997-98. This return is very important with the future financial uncertainties for the Society with the anticipated IEEE assessments to support the Institute’s central organization (HQ, RAB, TAB, and Board of Directors) which has no regular income stream. There is also uncertainty in future publications earnings which have provided the largest portion of Society income. This defrays the cost to the Society for each member (which is not covered by dues) and the society operating costs.

Ed’s report presents considerable detail on the investment program and portfolio and on earnings.

5.0 President’s Report: Igor Alexeff’s report and several attachments appear as Appendix 5.0. The Society is overall in good financial shape but the impact of the proposed new IEEE Financial Model, if approved, is unclear. Efforts on branding and a new IEEE logo decoupled from the traditional “kite” are underway to make computer and medical people feel welcome. It is unclear how successful these efforts will be. They have, according to Hal Flescher, cost the IEEE a considerable amount of money that may not have been spent wisely
AdCom includes one voting member from overseas representing the new International committee. We now also have an elected AdCom member from Japan representing the Plasma Sciences and Applications Technical Committee, which enhances our transnational commitment.

The Sensors Council formed a year ago will finally meet to try to figure out what it will be doing Bill Moses and Igor Alexeff will attend.

Three thousand millennium medals were authorized by the Board of Directors at a cost to IEEE (per Hal) of $600,000. NPSS was allocated 17 of these, but many societies haven’t replied to the request for nominees so Igor is trying to acquire more for us so that everyone nominated will get one. At the TAB meeting it was recommended that production of these medallions be stopped immediately at the smallest possible cost to the Institute at a time when their financial picture is extremely tenuous. This was voted down in TAB.

Hal commented on the proposed IEEE financial model:

- Reserves will be at zero in a year.
- Societies will have to pay the infrastructure bills. We should accept the medals and cut them up; the majority of Societies have refused to participate in the process.

6.0 Division Director’s Report: Bill Gjertson’s report appears as Appendix 6.0.
The new financial model includes targeting “Phantom” reserves held in the Societies. The Board of Directors will probably disapprove the model. Other alternatives include a “pay by the drink” scheme of charges for services. Many people are unhappy with all the proposed solutions. The Board is SUPPOSED to make the decisions but the Societies are bringing in the money and HAVE the money. The IEEE’s operating money has been spent and there is no other place to turn. Hal noted that this problem goes back 10-12 years. Only in this time did IEEE turn publication monies back to Societies. In the new model expenses would be put back to societies. This model was approved by TAB, but TAB did not know what the bill was going to be.

It doesn’t matter whether the new model is approved or not. Society reserves will be taxed through some scheme perhaps still to be developed. The Board approves expenditures for such things as millennium medals and other items without knowing where the dollars will come from. RAB and IEEE-USA etc also have no idea what they are doing with their money or where it comes from. RAB has only implemented its finance committee recently. It has never looked at income and expenditures. Dues are a very big issue with overseas people. Raising dues has been vetoed. Hal estimates that a tax of about 8% would cover deficits.

Bill Gjertson asked why we are trying to make so much money? Why aren’t we spending money on members or returning it to them? Part of the reason is that we sponsor so many
conferences that we need to have reserves to cover potential losses. Most societies only sponsor a single conference. Branding was discussed. So far it has cost IEEE over a million dollars over a 2-year period. The activity should be killed but it wasn’t so more money will be wasted. This is another example of folks not knowing where money comes from or where it is going. Probably will kill to save money?

A comment was made about whether the IEEE staff should be reduced. Hal noted that staff is not the issue – it is relatively well managed and the Executive is good. (Better than Raytheon.) The problem is that they aren’t heard. The volunteers, who know less, are listened to. RAB, for example, gets an allocation from dues and never looks at where it goes. Historically RAB has same votes as TAB. RAB can kill the new financial model, but their Finance Committee has only met for the first time in 1999 and they aren’t at all up to speed on their own finances, never mind IEEE’s.

Bill G disagrees. RAB does some good work. Hal agrees. Boston section has reserves and gets funding that they don’t need. This will be abolished in the new financial model.

Streamlining: Expects progress at the November TAB meeting.

Sections and Chapters: Rejuvenation is necessary. Many IEEE members do not join societies. There is an IEEE sections and chapters support office - check it out on web. Many good things are happening. There will be a Chapter coordinators retreat in New Orleans, Feb 7-9, 2000. Our NPSS Chapter coordinator (Vern Price) will be invited.

The new Membership Satisfaction Survey is trying to understand why US membership is decreasing.

IEEE products and services are listed on and available through the web.

7.0 Standing Technical Committee Reports

7.1 CANPS: Tom Kozlowski reported that the Real Time conference held in Santa Fe in June had 180 attendees and 129 papers, which was down from the Beaune conference. There are more Europeans than Americans. The Conference editor, Bill Maedchen, won’t be able to continue after this conference so a new editor is being sought. The Conference papers are available on the conference web site by password.

The 2001 RTC will be chaired by Antonio Ferrer and will be held in Spain near Valencia. The University of Valencia is the host organization.

There has been discussion of combining RT with the independent ICALEPCS conference since there is significant content overlap between the conferences.
Patrick LeDu was nominated for the millennium medallion for his work in internationalizing the RT conferences.

**7.2 Fusion:** Dick Foley reported that at SFE in Albuquerque there were about 150 attendees, down from 340 in San Diego in 1997. The US withdrawal from ITER and travel restrictions had a major impact, as did very poor advertising and promotion. At least 50% of attendees were from overseas. Of the 6 exhibits, 4 were from JET. Martha Krebs reviewed Fusion and Global warming. There were no technical awards this year for lack of cash!

The TC met at the conference. Phil Heitzenroeder reported on the 2001 conference. The Organizing Committee is off to a good start. They will finalize site selection shortly. A web site is being developed and publicity and schedules will be up on the web before long. Posters and e-mail notifications will be sent out in a timely way. Exhibitors will be solicited early – in time to get SFE 2001 into their budgets. It is hoped that the 2001 conference will see a return to better attendance and to exhibits of the 1995 and 1993 levels.

Because the conference attendance is heavily international, new TC members from offshore are being sought. Nominees will also be sought for 2000 and 2001 fusion technology awards.

The 2003 SFE will be held in the San Francisco Bay area with LLNL as the host laboratory.

Fusion budgets look better than in the past with the first increase in many years for both magnetic and inertial fusion. However, the disappointing NIF cost and schedule overruns have been noted and commented on by Congress. NIF management is to prepare a new estimate to complete, or cost to terminate.

The Europeans are incensed at US withdrawal from ITER so PCAST has asked for a study of new initiatives.

The next Fusion TC meeting will be held at Park City in a year, in conjunction with the ANS Topical Conference on Fusion Technology.

**7.3 Nuclear Instruments and Detectors:** Bill Bugg reported that there has been a lot of activity this summer due to prodding by Lou Costrell (Kudos to Lou). A new standard on CZT and other wide band gap detectors has been developed and submitted as a draft to the IEEE Standards Board. A new PAR was approved by the IEEE Standards board. Fifty other standards were reaffirmed.

**7.4 Nuclear and Medical Imaging Sciences:** Anna Celler reported that the TC met on October 29. The committee is functioning well and election results will be
available in December. Grant Gullberg is the 1999 MIC program chairman and has done a great job. Art Anger has been elected to Fellow status. Freek Beekman has won the Young Investigator award. Next year’s program chairman for the Lyon conference will be Dr. Larsson from Sweden. Ben Tsui will be 2001 chair, and Paul Kinahan will be the 2002 chair. The European Federation of Medical Physics will cosponsor the Lyon conference. There is a proposal to amend their constitution Bylaw 1 to add the chairman of RITC to the committee membership, ex officio. Joel Karp will be the new TC chair.

7.5 Particle Accelerator Science and Technology: Matt Allen reported that Pac99 held in New York city had over 1200 participants and was successful. There should be a budget surplus of about $50k that will be split between NPSS and APS DPB. The conference proceedings were shipped, with 2/3 requesting CD and 1/3 requesting paper copies.

DOE provides major funding for the conference. With DOE travel restrictions and revised conference guidelines there are major worries about future support of conference attendance. This will also have a major effect on site selection and attendance. The 2001 conference will be in Chicago, with acceptable rates already established, and 2003 may be in Portland, Oregon since it was not possible to obtain acceptable Bay-area rates. There will be a January 2000 Organization Meeting. The Book Broker program is being studied in detail by a committee set up by Igor since this may also impact finances. There will be a Joint Accelerator Conference Working Committee meeting on publishing accelerator conference proceedings at BNL on December 1-4, spearheaded by CERN. They will explore publishing standards, common software, web page information and so on.

The technical committee nominated John Blewitt for a millennium medallion.

7.6 Plasma Science and Applications: Jes Asmussen reported for Virginia Ayres who was unable to attend. ICOPS 99, held in Monterey, was a big success. There were about 500 attendees and they had a surplus of about $50k. Chris Deeney, the chairman, did a great job. There was contiguity with the Pulse Power conference that was held in Monterey the following week.

Next year the ICOPS conference will be held in New Orleans and planning is well under way. The 2001 Las Vegas conference will be thoroughly integrated with Pulsed Power. 2002 ICOPS will be in Banff and there is a proposal to take ICOPS to Korea in 2003, but other sites will also be explored.

7.7 Pulsed Power: Bill Baker’s report appears as Appendix 7.7. He notes that the government travel restrictions are having an effect, even though the 1999 conference was a tremendous success with 692 people attending. They had budgeted $34K surplus, but the projected surplus is $80K. The conference books should close by the end of the calendar year. About 130 people have submitted papers for a special issue of TNS to be edited by Hugh Kirby. Kirby also made an incredible effort with publicity.
The 2001 meeting will be joint with ICOPS, with complete integration. They have been able to reserve 1000 rooms at government rates! Unfortunately the dates are an exact overlap with PAC. The committee has approved the 2001 Budget. Costs of attending meetings are under discussion. There is no money in the committee or conference budget to solve AdCom travel issues. The onus is back on AdCom to resolve travel problems.

**7.8 Radiation Effects**: Klaus Kerris reported that they closed out the 1998 NSREC with a surplus of $32K, representing 8.4% of the income. The 1999 NSREC conference, held in Norfolk, VA in July, had 601 attendees with an income of $428K. They project a return to NPSS of $58K or 15.5%.

The 2000 Conference will be held in Reno at the Silver Legacy, July 17-21. AdCom will meet on July 22 following the conference.

For the 2001 conference, to be held in Vancouver, 500 attendees are predicted. This is the first conference to be held outside the US in many years. Ken Hunt, the chairman for 2002 is looking for a venue.

Ken Galloway is the newly elected member of AdCom to represent Radiation Effects beginning in January 2000. All other NSREC terms expire next July when a new chair, Dale Platteter, will replace Klaus.

Klaus Kerris asked whether we are now making too much money. Hal Flescher replied that if we’re called on to support AdCom travel in the future, then, no, because we will need about $100K per year to support all elected AdCom members.

**7.9 Radiation Instrumentation TC**: Bill Moses reported that the 1998 NSS/MIC closed with $87K surplus. The budget was miscalculated because the Book Broker income was not being allowed at the time the budget was submitted. The difference from expected to actual is the BB income that was finally allowed.

The 1999 conference is doing well. They budgeted for 750 attendees; the actual is 741. They should come in on target.

**7.9.1 Report on NSS/MIC 99**: Alberto del Guerra of the University of Pisa, the 1999 Program Chairman, reported on behalf of Orhan Nalcioglu. Alberto is the first European program chair for a NSS conference in the US! By June 1 the Conference Program was posted on the web. The overall Papers rejection rate was 10-20% for NSS-MIC. For NSS the region from which first authors came was: 120 from Europe, 92 from the US, 30 from Asia. MIC has more authors from the US than from Europe. Fifty percent of attendees were IEEE members.

**7.9.2 2000 NSS/MIC**: Patrick LeDu reported that a Draft MOU between CEA Saclay and IEEE for conference management was submitted to IEEE 2 months ago and
still has not been released. Patrick has a committee of 40 people in place and they have done a lot. The posters are out, they expect to have a large exhibit – perhaps as many as 60 or more exhibitors, contracts for conference support services are being prepared by Saclay, workshops are being planned. The budget will be submitted to Ed shortly and is about $785K total. About 30% of the funds will come from grants from various governments and other sources. They need about 800 attendees to break even. There are tremendous concerns about DoE travel restrictions since DoE-supported attendees are essential. They will appoint session chairs soon. They are also trying to get 100 subsidies from the EC for European attendees, mainly students, and are looking for short course support for the young people as well. There is a question about what the US can do. Craig Woody is working on this. It is hoped that a lot of European medical imaging people will attend. They don’t attend MIC at a very high level when it is in the US.

The target fee for registration will be no higher than this year’s, and may be lower. The fee for exhibitors will probably be slightly higher than here, but the impression that it will be very high is erroneous. Patrick doing a great job and the first offshore NSS/MIC should be a great success.

Contingency expectations: Grants require that that the conference DOES NOT make money. (Moses) However, NSS will receive an administrative fee.

7.9.3 2001 NSS/MIC: Tony Lavietes of LLNL is the chairman. He has a contract signed with the Town and Country Hotel in San Diego. Key appointments have been made. The budget will be submitted to Ed Lampo in about a month.

Joel Karp will chair the 2002 NSS/MIC. No site has been selected yet.

Glenn Knoll will take over as the new chairman of the TC.

8.0 Functional and Appointive Committees

8.1 Meeting Policies and Procedures: The Meetings Policies and Procedures committee met prior to the AdCom meeting. Publicity material on conferences will, in future, be required for the newsletter. A section on Publicity will be added to the Conference policies document with requirements and suggestions outlined. A table of submittal dates will be provided, including calls for papers, preconference article, and postconference summary. The publicity chairman is an essential part of the conference team and the position should be rotated yearly or biennially as appropriate. A section on Overseas Conference policies also needs to be added to the Conference policy document. The plan is to update the document yearly and to bring it into the greatest possible conformity with IEEE’s general policies.

8.2 Awards: Peter Clout thanked the awards committee for its work. The awards are covered in his report, Appendix 8.2. There was competition for all the awards, which is healthy. The committee could give up to four scholarship awards. Has the Paul Phelps continuing education grant ever been presented to anyone besides Paul? This award could
cover travel etc. attend short courses. Is it supposed to be funded from short course revenues? This needs an answer. It is open to students and to unemployed members of NPSS.

The wording in the TAB manual on funding sources for awards is incorrect in some instances. This is also true for the short course awards. Peter and Hal Flescher will work on the wording for the next meeting.

**8.3 Chapters** etc.: Vernon Price unfortunately had to leave the meeting before presenting his report. It appears as Appendix 8.3.

**8.4 Fellow Candidate Evaluation**: John Walter sent a message through Igor that he would like to step down from this position. It is an extremely important assignment. They are looking for a European member of the committee (has to be a Fellow). Osamu Ishihara has joined this committee. Other committee members are listed in the NPSS Yearbook (http://www.lit.net/ieee/npss/annual99.pdf). Peter Winokur is on the national fellow evaluation committee.

**8.5 Finance**: Hal had no additional remarks.

**8.6 Continuing Education**: Gary Alley reported that there were five short courses with 147 participants this year. Patrick LeDu and Fabio Sauli came to discuss 2000 short courses.

**Nominations**: Ron Jaszczak reported that we have nominations for new candidates. Only 439 ballots were cast in the AdCom election, which is a small part of the membership. One election was decided by only four votes! The votes for VP are in but not yet announced.

**8.8 Publications**: Glen Knoll reported that use of camera-ready copy would be discontinued after 2002. Hal asked about RADECS. This is to be decided. There is information in the treasurer’s report on publication finances and page allocations. TMI is doing well and making money. Randy Brill and Ron Jaszczak are members of steering committee. There have been problems expediting publication of TMI. It now takes 10 weeks in the publication queue. Is it the review process or production?

Steve Gitomer reports that after early delays TPS publications are back on schedule. This year there were four special issues out of 6 total issues. He needed a dispensation to exceed his initial page count for 1999 by 5%, but will get a 5% bonus return. Tony Peratt is preparing a TPS web site. Over 90% of manuscripts are received electronically.

Paul Dressendorfer reported that TNS published the 1998 NSS/MIC conferences in three issues this year. Fewer papers have been submitted over the past 4 years, and the rejection rate is somewhat higher. The NSREC issue contained 74 papers. There were 67 contributed papers in 1999. Acceptance rate is 44%. It takes about 8 weeks for paper
reviews and 14.5 weeks for authors to get back responses to the reviewers’ comments. After that IEEE needs about 4.4 months to issue a publication, so time from manuscript receipt to publication is 8-9 months. The US has the lowest rate of NS submission. More reviewers from outside the US are needed. LaTex and Word are the preferred formatting software packages.

Ken Dawson reported that there was a delay in publication of the June newsletter due to Publication problems. In reviewing a list of Newsletter contents for the last four years it appears that NSREC makes best use of the Newsletter for publicity while PAC is worst. Conference reports should be submitted to summarize the conference once it has been held. These have not been submitted regularly. In fact, none were submitted in 1998 and only one was submitted in 1999. Information on New fellows' elections and so on are also being missed. New members deserve to be receiving the information.

Yearbook: Ken needs information in a timely fashion, and this information must be kept up-to-date. It is time to post the yearbook on the web. The cost is $500 per issue. Ken uses Ventura Publisher and reviews proofs in PDF. He can use post-it notes to update.

Format: Is it time to change the Newsletter format? IEEE will work on a redesign for a $1500 fee. How well will a redesign work? Should we try it? Ken favors limited use of color to keep down publishing costs. Hal votes to continue as we are. A proposal was made to post the newsletter and yearbook on the web. The cost is $800 for postings in both PDF and HTML formats. See New Business. Ken would not withdraw paper copy unless member requests it.

Glenn Knoll is retiring as EIC and will take over as chair of the Radiation Instrumentation TC. He thinks a change in title from EIC to chair of Publications Committee would be consistent with other IEEE usage of the term, and with the job function.

8.9 Students & Careers: No report

9.0 Liaison Reports

9.1 SSIT: Most action has focussed on ethics issues and the inactivity and lack of responsiveness to ethics needs of both the Ethics Committee and the Member Conduct Committee. A Helpline has been reestablished independent of IEEE. Caroline Whitbeck is the chairman of the group operating under the Ethics in Engineering umbrella.

9.2 Standards: Jay Forster noted that a reports from IEEE showing lists of standards and NPSS standards that have come out was issued in September 1999. NPSS is a leader in standards development. Lou is member of the standards BOG for 1 year. There has been reaffirmation of 7 standards. Fifty need reaffirmation.

9.3 PACE: Jay Forster reported that NPSS does an excellent job in providing professional activities for engineers. In Ken Dawson’s summary of the last 4 years’
articles in the newsletter 4-6 columns have been related to PACE. NPSS has been outstanding in short course presentations. In 25 years NSS and MIC have held 143 short courses. Jay will continue as Division 4 PACE coordinator.

9.4 Energy: No report. Our liaison, Ned Sauthoff, is running for (and has been elected) president-elect of IEEE-USA.

9.5 R&D Policy: No report

9.6 Aerospace Policy: No report.

9.7 TAB Awards & Recognition: No report.

9.8 Coalition for Plasma Science: Gerry Rogoff noted that the purpose of this organization is to educate the public and public servants about plasma sciences. It is not a lobby but important as an educator group. The CPS-organized panel at the ICOPS meeting went very well. Similar things can be done with/for non-technical people. They may do a program at the 2001 SFE. How about the PAC!

K-12 education materials are in development. CPS has hired teachers to help with curriculum development and then will have the teachers introduce the curricula in their classrooms. They now have a web page and will have a newsletter. They are discussing an NRC Symposium to connect labs, industry and universities engaged in plasma research in all areas. They will hold a retreat in December.

9.9 Sensors Council: Bill Moses reported that he and Igor will go to the meeting in New Jersey. Hal noted that John Vig is pushing this council and we need protection from it. People protecting themselves will be taxed $2-3K and the council will become self-fulfilling. Erik Heijne noted that there are many other meetings on sensors and we need to be sensitive to people's needs. Are we representing them fairly enough? Chuck Britton noted that actuators are big; radiation is small. This is an attempt to get IEEE a quality sensor publication.

10. Unfinished Business

10.1 Book Broker: Hal Flescher stated that Book Broker is NOT changing. They are making money. The issues are hard copy vs. CD-ROM. Book Broker does not pay money to a conference. NPSS pays the conference in advance. It has no money of its own. Each Society decides what is done. The money comes from Society reserves. For PAC, in 2001, we propose to pay PAC for its costs of publishing. IEEE will then make out a check for NPSS and one to APS.

11. New Business

11.1. New Business Arising from Technical Committee Reports: None

11.2 New Business from Functional and Appointive Committee Reports
11.2.1 Updating PIC codes: this has been deferred

11.2.2 Upgrades to Full Member Status: Hal Flescher reported that a letter went out to all 150 associate members to clarify the status of their college degrees. They have worked out a process with the IEEE Membership Committee (RAB). Twenty-six associates have been upgraded to date. Requests for upgrade to senior member also went out. Vernon Price has suggested a number of times that we look at our own AdCom and have members upgraded. One has to be a senior member to be elected to the BOD, per Ken Dawson. It is also necessary to be a senior member to be eligible to be considered for fellow status. Hal is trying to get TAB more involved before applicants are rejected by RAB people who don’t know what foreign degrees mean, or what their US equivalents are.

11.2.3 VP Election: Peter S. Winokur is our new Vice President and President Elect. Congratulations!

11.2.4 Newsletter-related Motions: Klaus Kerris moved that the NPSS Newsletter be posted on the web in both PDF and HTML format. This was seconded by Bruce Brown and carried unanimously.

Hal moved that the NPSS set aside $1500 for IEEE to provide design options for the newsletter. Ron Jaszczak seconded the motion, which carried unanimously. Ken Dawson was asked to publish a Year 2000 yearbook.

11.3 Liaison Reports

11.3.1 Increase in CPS liaison support: Gerry Rogoff requested an increase from $4000 to $5000. for his personal CPS travel and related expenses. Steve Gitomer moved and Jes Asmussen seconded the motion, which passed unanimously.

11.4 Other New Business

11.4.1 Archival records: Jean Deken, the SLAC archivist, discussed what, in the age of computers and the web, is archival material. Paper is clear. It lasts hundreds of years. Electronic records have problems – media are friable, software systems change, files become unreadable and irretrievable. It takes work to make them archival. Structure, format, and context have to be considered. A Standard is being proposed for government agencies for creation, (best practices), preservation (problems), conversion, migration, and encapsulation. There needs to be specialized data centers and aggressive rescue of electronic records.

ICA claims not viable; conversion needed
Initiatives from www games people!
RAND says neither conversion nor preservation works; need encapsulation!
A number of projects in process re encapsulation
NARA looking at maintaining data for 400 years
Need supercomputers
Cost $2M for 1B digital objects
Have to replace every 3-5 years.
Missing: Generic software (XML?)
InterPARES just starting
International effort
5-20 years to implement after design
What to do NOW?
Start preserving the right things in the right way.
Discussion
Difficulties in predicting future value as archival material.
Only later is the value of a particular experiment appreciated.
It has to be a phased pruning process.
Loss of corporate memory due to more hiring of temporary people.

11.4.2/11.4.5 DOE Travel Restrictions/AdCom Travel Costs: Will IEEE cover Bruce Brown’s travel? FNAL (and all other DOE labs) has been asked to cut its budget for travel by 20%. Bruce also wants to discuss possible DOE restrictions on WHERE it will support travel. Hal stated that the new IEEE financial model will cost the Society, but we don’t yet know how great the impact will be. We need to discuss travel support for AdCom members at the next retreat (to be held in March) since it will require more than a few minutes’ time. Several societies already pay for their AdCom members’ travel. Dick Kouzes noted that University budgets are also a problem. Matt Allen noted that AdCom meetings in conjunction with another meeting are easier to justify. Bill Moses stated that the questions and problems are obvious. We should do some work between now and the next meeting. Is there a problem accepting other funding for travel if you work for DoD? Yes. Klaus Kerris has done it but he is under a microscope. He had to get a legal document. Hal said that there are many people coming out of DoD who contribute to IEEE and accept travel reimbursement. Klaus Kerris remarked that it is difficult to get nominees if funding is not covered.
Some companies do not want to give even the TIME! The question was raised of whether we might run as a teleconference. Ken Dawson suggested that we have an email discussion group so we can do groundwork before the next retreat. Hal Flescher and Bruce Brown have volunteered to lead. Erik Heijne asked what the probability was that DoE would organize meaningful meetings for scientists and produce appropriate publications.

11.4.3 EPIC: G. Knoll introduced Gerry Grenier, head of Online Publication Technology. The many issues Gerry discussed included aspects of electronic publishing including article creation and peer review; Publishing Systems Operations including server and network management Electronic delivery including Web development.

IEEE electronic publishing (EPIC) has a web development group of 6 programmers. There are issues of preserving IEEE information through the ages, which was tied closely to Jean Deken’s message.
Future activities for Gerry’s group include:
Table of contents alerting service;
Individual article alerts and “intelligent agent” use;
Publication of supporting materials on the web using multimedia, streaming AV and extraneous figures and tables;
Publication of articles as returned from authors;
Linking to other publishers;
Digital object identifier(DOI-X) project participation;
Long-term archiving of metadata and maintenance of IEEE Intellectual property products.

DOI is a not-for-profit foundation. To develop a central repository of engineering literature and build links to outside a commercial developer will be needed.

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<th>Important Issues:</th>
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<td>Access and authentication: IEEE online will build a gatekeeper member login; individual subscribers who are nonmembers; nested rights to contents; Products will have graded access</td>
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When asked if electronic publishing were applied to a conference, Gerry could not say when the technology would be available, and what the costs would be. Ken Dawson asked what is the net revenue to providers of information. They lose money on new members and make money on subscribers. We are used to getting material from the web for nothing. How do the finances work? Hal reported that the TAB products committee is trying to develop an algorithm. Erik asked about copyrights. Each author will need to remove material from personal web site.

Availability of articles through IEEE implies peer review. Papers published in transactions can be put up on personal web sites with the IEEE copyright disclaimer.

Will single article sales kill the journals? Ken Dawson thinks this is a major problem. Volunteer efforts identified with transactions will disappear.

To reach Gerry: g.grenier@ieee.org

12. Future Meetings
March 11-12,
Sheraton Downtown
Atlanta, GA

July 29, 2000
Silver Legacy
Reno, NV
(with NSREC)

October 21 2000
Lyon, France
(with NSS/MIC)

13. Adjourn: The meeting was adjourned at 4:40 PM.

http://www.li3.met/ieee/npss/
Appendix 1.01

1999 AdCom

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<th>N’Orleans</th>
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<td>Matt Allen</td>
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<td>Virginia Ayres</td>
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<td>Noah Hershkowitz</td>
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**Functional and Appointive Chairpersons**

**Liaison Representatives**

<p>| Julian Forster    | PACE, Standards             | Absent    | Absent        | Present | Absent   | Absent   | Present |
| Ken LaBel         | Aerospace Policy            |           |               |         |          |          |         |
| Raymond Larsen    | SSIT/Ethics                 | Present   | Present       | Present | Present  | Present  | Present |
| Orhan Nalcioglu   | TIP/TMI                      | Absent    | Absent        | Absent  | Absent   | Absent   | Absent  |
| Deb Newberry      | R&amp;D Policy                   | Present   | Present       | Present | Present  | Present  | Present |
| Gerald Rogoff     | C. Plasma Science           |           |               |         |          |          |         |
| Ned Sauthoff      | Energy Policy                | Absent    | Absent        | Absent  | Absent   | Absent   | Absent  |
| Peter Winokur     | Aerospace Policy            | Present   | Present       | Present | Present  | Present  | Present |</p>
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A-14
Appendix 2.0

IEEE Nuclear and Plasma Science Society
Meeting of the Administrative Committee

Saturday, 30 October 1999
Seattle Westin Hotel
Seattle, Washington
8:00 a.m. - 5:00 p.m.

Final Agenda

1.0 Introduction and Roll Call
2.0 Review and Adoption of Agenda
3.0 Approval of the Minutes of the Meeting of 06/19/99

4.0 Treasurer's Report

5.0 President's Report
6.0 Division Director's Report

7.0 Standing Technical Committee Reports
   7.1 Computer Applications in Nuclear and Plasma Science
   7.2 Fusion Technology
   7.3 Nuclear Instruments and Detectors
   7.4 Nuclear and Medical Imaging Sciences
   7.5 Particle Accelerator Science and Technology
   7.6 Plasma Science and Applications
   7.7 Pulsed Power
   7.8 Radiation Effects
   7.9 Radiation Instrumentation
       1999 NSS/MIC
       2000 NSS/MIC
       2001 NSS/MIC

8.0 Functional and Appointive Committee Reports
   8.1 Meetings Policies and Procedures
   8.2 Awards
   8.3 Chapters, Local Activities, Membership,
       Distinguished Lecturers, New Chapter Initiatives
   8.4 Fellow Candidate Evaluation
   8.5 Finance
   8.6 Continuing Education
   8.7 Nominations
   8.8 Publications
   8.9 Students and Careers/EE Course Liaison

Ed Lampo
Igor Alexeff
Bill Gjertson
Thomas Kozlowski
Dick Foley
Bill Bugg
Anna Celler
Matt Allen
Virginia Ayers
William Baker
Klaus Kerris
Bill Moses
Alberto del Guerra
Patrick Le Du
Tony Lavietes

John Walter
Peter Clout
Vernon Price
Ken Connor
9.0 Liaison Representatives' Reports
9.1 Social Implications of Technology Ray Larsen
9.2 Standards Jay Forster
9.3 PACE Jay Forster
9.4 Energy Ned Sauthoff
9.5 R&D Policy Committee Deb Newberry, Peter Winokur
9.6 Aerospace Policy Ken Label
9.7 TAB Awards and Recognition Committee Peter Clout
9.8 Coalition for Plasma Science Gerry Rogoff
9.9 Sensors Council Bill Moses

10.0 Unfinished Business
10.1 Book broker Hal Flescher

11.0 New Business
11.1 Motions arising from Standing Technical Committee Reports

11.2 Motions arising from Functional and Appointive Committee Reports
11.2.1 Updating PIC Codes Vern Price
11.2.2 Upgrades to Full Member status Hal Flescher
11.2.3 Election
11.2.4 newsletter posting & redesign Ken Dawson

11.3 Motions arising from Liaison Representative's Reports
11.3.1 Increase in CPS Liaison support G. Rogoff

11.4 Other New Business
11.4.1 What Constitutes Archival Material Jean Deken, SLAC
11.4.2 DOE Travel Restrictions Bruce Brown et al.
11.4.3 EPIC Gerry Grenier
11.4.5 AdCom Travel Costs Hal Flescher

12.0 Future AdCom Meetings
March 11, 12, 2000
Sheraton Atlanta Downtown
Atlanta, Georgia

July 29, 2000
Silver Legacy
Reno, NV
(with NSREC)

October 21, 2000
Lyon, France
Annual meeting with NSS/MIC

13.0 Adjourn
NPSS Editors’ 2000 Package

The following stipends and expense allowances are proposed for the NPSS Editors in 2000. In addition to these funds, operating costs of mailing/postage, computer software & hardware, telephone, and the like are fully reimbursable. The editors submit annual estimates of operating expenses. These are reviewed and included in the budget. AdCom approval is requested for NPSS Editors in the year 2000:

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*The T-NS Conference Issues Editors share the stipend in proportion to page counts of the conference issues. The conference issues are for the Real Time Conference, Nuclear Science Symposium, and Medical Imaging Conference.

NPSS Conferences

Enclosed is a list of conference budgets for 1994-2001. Also included are various comparisons over two year periods for each conference and overall. Note that for 1994-1995 the overall net return was 3.7%. This steadily increases and for 1997-1998 the return was even slightly better than 10%! Note that a $5 increase in registration fee can make a vast improvement in net return. All conferences are asked to adjust future budgets to ensure an actual return of 10% of expenses.

Technical Committee chairs are reminded that penalties are being levied on conferences that are late in closing. By six months after the conference loans are to be repaid, bank accounts closed and all funds returned. Penalties begin after a year.

- Conference not closed by month 12 - in month 13 the Sponsoring entity will be charged $350.
- Conference not closed by month 18 - in month 19 the Sponsoring entity will be charged $600.
- Conference not closed by month 24 - in month 25 the Sponsoring entity will be charged $750.
- An additional charge of $750 will be charged each quarter that a conference is not closed.

PLEASE ensure that your conferences are closed promptly. Let me know if there are questions.

The following summary reports are included for your review:

- Conference Status Report (IEEE: 12-July-99)
- NPSS 2000 Proposed Budget (submitted: 28-Aug-99)
- NPSS 1999 Budget & Forecast as of September (IEEE: 21-Oct-99)
- IEEE Investment Asset Analysis Report and attachments (17-Sep-99)
- Balance Sheet (through 31-Aug-99)
- T-NS & T-PS Production Reports (OS-Sep-99)

Respectfully Submitted,

Edward J. Lampo
NPSS Treasurer
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T.A. is Transactions Assessment for those conferences publishing selected papers in special issues of T-NS (T.A. is included with Expenses)

- PAC is cosponsored with the American Physical Society (APS); NPSS & APS share equally (shown are total amounts)

Total of Loan Outstanding: $145.0
## Nuclear and Plasma Sciences Society

### CONFERENCES

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- **Expenses**: Conference Expenses
- **Net**: Net Expenses
- **Net/Exp**: Net Expense Percentage
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<td>78.5</td>
<td>0.0</td>
<td>(43.2)</td>
</tr>
<tr>
<td>PERIODICALS</td>
<td>756.1</td>
<td>602.0</td>
<td>154.1</td>
<td>825.7</td>
<td>594.7</td>
<td>231.0</td>
<td>769.8</td>
<td>309.6</td>
</tr>
<tr>
<td>NEWSLETTERS</td>
<td>0.0</td>
<td>20.3</td>
<td>(20.3)</td>
<td>0.0</td>
<td>26.8</td>
<td>(26.8)</td>
<td>0.0</td>
<td>15.3</td>
</tr>
<tr>
<td>NONPERIODICALS SALES</td>
<td>2.4</td>
<td>3.1</td>
<td>(0.7)</td>
<td>0.5</td>
<td>3.0</td>
<td>(2.5)</td>
<td>0.5</td>
<td>2.7</td>
</tr>
<tr>
<td>MEETING/CONFERENCES</td>
<td>666.9</td>
<td>538.9</td>
<td>148.0</td>
<td>945.2</td>
<td>657.2</td>
<td>288.0</td>
<td>2,054.3</td>
<td>1,880.8</td>
</tr>
<tr>
<td>GRANTS</td>
<td>10.0</td>
<td>25.2</td>
<td>(15.2)</td>
<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
<td>117.5</td>
<td>79.6</td>
</tr>
<tr>
<td>ADMINISTRATION</td>
<td>0.0</td>
<td>40.6</td>
<td>(40.6)</td>
<td>0.0</td>
<td>69.4</td>
<td>(69.4)</td>
<td>0.0</td>
<td>53.0</td>
</tr>
<tr>
<td>COMMITTEE/OTHER</td>
<td>0.0</td>
<td>44.9</td>
<td>(44.9)</td>
<td>19.4</td>
<td>89.1</td>
<td>(69.7)</td>
<td>0.0</td>
<td>68.4</td>
</tr>
<tr>
<td>TOTAL</td>
<td>1,455.4</td>
<td>1,155.5</td>
<td>299.9</td>
<td>1,790.8</td>
<td>1,361.7</td>
<td>429.1</td>
<td>2,942.1</td>
<td>2,366.2</td>
</tr>
</tbody>
</table>

Currency: USD
Business Unit: 0050 Nuclear and Plasma Science

October 21, 1999
MEMORANDUM

TO: TAB Finance Committee, Division Directors, Society and Council Treasurers and Presidents

FROM: Chuck Krajcsik, Treasury Manager

DATE: 17 September 1999

SUBJECT: IEEE SOCIETY/COUNCIL INVESTMENT ASSET ANALYSIS REPORT

Enclosed please find the combined Society/Council Investment Asset Analysis Report for the month of August 1999.

We are enclosing the Asset Analysis Report, which has a detailed cash balance and net worth report for each Society and Council’s respective Treasurer and President.

For the month of August 1999 the Long-Term Investment Fund posted a return of .36%, which outperformed the strategic asset allocation index return of -.19%. The U.S. Equity Fund finished ahead of the S&P 500 (-.09% vs. -.50%), as the growth sector outpaced the value sector (1.00% & -1.20% respectively). The Non-U.S. Equity Fund exceeded its blended market index (1.67% vs. .45%), and the U.S. Fixed Income Fund outperformed the Lehman Hybrid blended market index (.27% vs. -.14%).

On a year to date basis through 31 August 1999, the Long-Term Investment Fund remained ahead of its strategic asset allocation index (8.93% vs. 5.96%), as all components of the portfolio continue to outperform their respective market indices.

<table>
<thead>
<tr>
<th>Asset Class</th>
<th>August</th>
<th>August YTD</th>
</tr>
</thead>
<tbody>
<tr>
<td>Long-Term Fund</td>
<td>.36%</td>
<td>8.93%</td>
</tr>
<tr>
<td>Objective*</td>
<td>.64%</td>
<td>4.60%</td>
</tr>
<tr>
<td>Customized Asset Allocation Index**</td>
<td>-.19%</td>
<td>5.96%</td>
</tr>
</tbody>
</table>

* CPI plus 4%
** 50% S&P 500, 15% MSCI EAFE, 5% MSCI Emerging Mkts, 30% Lehman Hybrid

Please be advised the next quarterly window for investment in the Fund is 1 October 1999.

Enclosed is the 2nd Quarter Report to Investment Fund participants and an updated Investment Options Prospectus performance schedule through 30 June 1999.

If you have any questions or comments about the report, please do not hesitate to call me at (732) 562-6837.

cc: R. D. Schwartz D. Hourican P. Dobson A. Goldsmith
D. Conner S. Nadler B. Bailey A. O’Neill
T. M. Elliott M. Ward-Callan S. Oduyela H. Van de Vaart
G. E. Fish J. Howell M. Tickman B. Van Der Vort
E. LaBuda V. Carr M. Olken V. Doan
M. Sosa R. Sparks K. Gilbert

The Institute of Electrical and Electronics Engineers, Inc.
445 Hoes Lane • P.O. Box 1331 • Piscataway NJ 08855-1331, USA • Phone 732.981.0060 • Fax 732.981.0027 • www.ieee.org
IEEE INVESTMENT FUND
2nd Quarter, 1999 REPORT TO PARTICIPANTS

Purpose of This Report
Due to the tremendous growth in the size of the Investment Fund, the number of participant IEEE entities, and the recent commitment to enhanced investment-related communication that goes beyond the current monthly format, a report of this type will be distributed to the Investment Fund Participants on a quarterly basis.

Strategic Asset Allocation
In 1998 the Investment Committee proposed the following as the new strategic asset allocation for the Investment Fund:

- 50% U.S. Equity
- 30% U.S. Fixed Income
- 15% Non-U.S. Equity
- 5% Emerging Markets Equity

The IEEE Executive Committee approved this strategic asset allocation at its 3 May 1998 meeting. The Investment Committee reviews the Fund’s asset allocation, which it sees as the single most important contributing factor to performance, at each of its meetings. The Committee continues to stay the course with respect to the Strategic Asset Allocation, and outlines actions to re-balance the portfolio to the asset allocation targets as required.

Investment Performance vs the Fund’s (1) Strategic Asset Allocation Composite Index, and (2) Low-Term Investment Objective
At 30 June 1999 the market value of the IEEE Investment Fund was $198.5 million. Net new contributions to the Fund (i.e. primarily investments by Societies) amounted to $4.4 million for the 2nd Quarter, and $8.2 million for the first six months of 1999.

The total return (interest, dividends, appreciation/(depreciation)) for the IEEE Investment Fund for the 2nd Quarter, 1999 was 5.22%, which pushed the YTD (through 30 June 1999) return to 9.48%. The Fund’s strategic asset allocation composite index return was 4.75% for the 2nd Quarter of 1999, and 7.49% for the first six months of the year. The Fund’s long-term investment objective (inflation (CPI) plus 4% on an annual basis) return for the quarter was 1.87%, and for the first six months of 1999 was 3.31%.

The Institute has factored into its operating budget an annual investment return of 9.0%, which approximates the historical return of the U.S. Equity market for the last 60 years.
Market Commentary - Second Quarter, 1999

U.S. Equity
The 2nd Quarter was reflective of equity investors setting aside their fascination with the Internet and high-tech stocks that came to the market’s forefront during the 1st Quarter, and returning to growth and value. April was a very unusual month for U.S. Equity markets. Despite generally advancing stock prices in the face of rising interest rates, the month witnessed some of the largest internal divergences between growth and value stocks ever recorded. Business-sensitive value stocks of all cap sizes assumed market leadership in April. U.S. large capitalization (“large cap”) equities corrected modestly during May in response to signs of rising prices, and the Federal Reserve’s shift in monetary policy from neutral to a tightening bias. The divergence in performance between growth and value stocks narrowed considerably in May, and then in June, after two months of lagging value stocks, large cap growth stocks rebounded nicely during the month.

U.S. Fixed Income
The U.S. bond market remained in a slump throughout the 2nd Quarter. Prices on most bonds fell, sending their yields — which move in the opposite direction — up sharply. During the last week of the quarter the Fed raised the federal funds rate by 25 basis points to 5%, and announced that it changed its tightening bias, which it had adopted at the end of May, to a neutral bias. The prospect of inflation sent investors running out of bonds. Consequently, interest rates across the yield curve rose. The 30-year Treasury bond yield reached a 19-month high of 6.19% just two weeks before the quarter-end. The rise in yields contributed to the negative returns across all investment grade sectors, with U.S. Treasuries suffering the most.

Non-U.S. Equity
Non-U.S. Equity markets continued the advance that began in the first quarter. There was however, a considerable divergence of returns regionally within the European – Asian – Far Eastern (EAFE) markets. Europe, which led the charge in 1998, has failed to be a contributor in 1999. The European Central Bank eased interest rates by 50 basis points early in the quarter in an effort to stimulate growth in the euro zone. The euro continued its slide against the dollar and lost approximately 4.5% in value during the quarter.

Emerging Markets Equity
Emerging Markets equities continued their strong performance in the second quarter. The Asian emerging markets posted the strongest gains. Indonesia’s index was up approximately 122% in U.S. dollars, followed by China (84%), Malaysia (72%), Korea (64%), and Thailand (61%). In term of individual countries, the biggest contributor to the good performance of the emerging markets has come from Korea, whose index has risen an astonishing 306% in dollar terms in the last 12 months. Korea has seen a rapid and credible restructuring of its industrial landscape, including the sale of production facilities, and even banks, to foreign firms. Thailand is another Asian country that has seen a great reversal of fortune in 1999. The success in Thailand is mainly attributable to the recapitalization of its banking sector.
Institute of Electrical and Electronics Engineers, Inc. (IEEE)  
Investment Fund Performance  
30-June-1999

### INVESTMENT FUND

<table>
<thead>
<tr>
<th>Category</th>
<th>Last Quarter (2nd Quarter, 1999)</th>
<th>1999 Year to Date</th>
<th>Last 12 Months (1996 - 1999)</th>
<th>Annualized 3 Years to Last Quarter</th>
<th>Annualized 5 Years to Last Quarter (1994 - 1999)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>U.S. Equity</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SIT Investments</td>
<td>7.68%</td>
<td>14.27%</td>
<td>17.48%</td>
<td>26.35%</td>
<td>25.18%</td>
</tr>
<tr>
<td>Dodge &amp; Cox</td>
<td>1.26%</td>
<td>9.13%</td>
<td>17.20%</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td><strong>S&amp;P 500</strong></td>
<td>7.05%</td>
<td>12.38%</td>
<td>22.76%</td>
<td>29.11%</td>
<td>27.87%</td>
</tr>
<tr>
<td><strong>U.S. Fixed Income</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>IEEE (In-House)</td>
<td>-1.96%</td>
<td>-3.35%</td>
<td>0.60%</td>
<td>9.26%</td>
<td>7.29%</td>
</tr>
<tr>
<td>SIT Investments</td>
<td>-2.31%</td>
<td>-4.04%</td>
<td>-0.03%</td>
<td>9.12%</td>
<td>7.21%</td>
</tr>
<tr>
<td>Dodge &amp; Cox</td>
<td>-0.08%</td>
<td>0.09%</td>
<td>3.60%</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td><strong>Lehman Aggregate</strong></td>
<td>-0.99%</td>
<td>-1.32%</td>
<td>2.71%</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td><strong>Blended Index: Lehman Hybrid</strong></td>
<td>-1.26%</td>
<td>-3.56%</td>
<td>1.34%</td>
<td>6.71%</td>
<td>7.47%</td>
</tr>
<tr>
<td>65% Lehman Treasury / 35% T-Bill</td>
<td>-1.35%</td>
<td>-4.11%</td>
<td>0.77%</td>
<td>6.51%</td>
<td>7.35%</td>
</tr>
<tr>
<td><strong>Non-U.S. Equity</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Capital Guardian EAFE</td>
<td>12.20%</td>
<td>23.59%</td>
<td>20.25%</td>
<td>13.83%</td>
<td>N/A</td>
</tr>
<tr>
<td>Capital Guardian Emerging Markets</td>
<td>10.49%</td>
<td>21.03%</td>
<td>20.40%</td>
<td>16.80%</td>
<td>N/A</td>
</tr>
<tr>
<td><strong>Blended Index</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MSCI EAFE Index</td>
<td>5.82%</td>
<td>9.36%</td>
<td>10.78%</td>
<td>6.90%</td>
<td>N/A</td>
</tr>
<tr>
<td>MSCI Emerging Index</td>
<td>2.54%</td>
<td>3.97%</td>
<td>7.62%</td>
<td>8.82%</td>
<td>N/A</td>
</tr>
<tr>
<td><strong>Total Fund</strong></td>
<td>5.22%</td>
<td>9.48%</td>
<td>12.52%</td>
<td>18.54%</td>
<td>17.44%</td>
</tr>
<tr>
<td><strong>50% S&amp;P 500, 15% MSCI EAFE, 5% MSCI Emerging Markets, 30% Lehman Hybrid</strong></td>
<td>4.75%</td>
<td>7.49%</td>
<td>15.66%</td>
<td>19.20%</td>
<td>18.89%</td>
</tr>
</tbody>
</table>

### SHORT-TERM FUND

<table>
<thead>
<tr>
<th>Category</th>
<th>Last Quarter (2nd Quarter, 1999)</th>
<th>1999 Year to Date</th>
<th>Last 12 Months (1996 - 1999)</th>
<th>Annualized 3 Years to Last Quarter</th>
<th>Annualized 5 Years to Last Quarter (1994 - 1999)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>IEEE (In-House)</strong></td>
<td>1.38%</td>
<td>2.72%</td>
<td>5.87%</td>
<td>5.99%</td>
<td>6.01%</td>
</tr>
<tr>
<td><strong>90 Day T-Bill</strong></td>
<td>1.17%</td>
<td><strong>2.24%</strong></td>
<td>4.87%</td>
<td>5.16%</td>
<td>5.25%</td>
</tr>
</tbody>
</table>

1. Benchmark as of 1/1/99 includes 52% Lehman 20+ Yr Treasury, 28% T-Bill, 20% Lehman Aggregate, prior to which the benchmark was 100% Lehman G/C Index.

2. Benchmark as of 1/1/99 includes 65% Lehman 20+ Yr Treasury, 35% T-Bill, prior to which the benchmark was 100% Lehman G/C Index.
### Balance Sheet

**During the Period January 1, 1999 Through August 31, 1999**

<table>
<thead>
<tr>
<th></th>
<th>JAN</th>
<th>FEB</th>
<th>MAR</th>
<th>APR</th>
<th>MAY</th>
<th>JUN</th>
<th>JUL</th>
<th>AUG</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Cash</strong></td>
<td>1,275.00</td>
<td>1,314.83</td>
<td>1,385.57</td>
<td>1,342.60</td>
<td>1,442.63</td>
<td>1,352.32</td>
<td>1,249.44</td>
<td>1,233.71</td>
</tr>
<tr>
<td><strong>Accounts Receivable</strong></td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
</tr>
<tr>
<td><strong>Loans Receivable</strong></td>
<td>170.53</td>
<td>258.53</td>
<td>258.53</td>
<td>223.53</td>
<td>223.53</td>
<td>236.08</td>
<td>209.48</td>
<td>177.40</td>
</tr>
<tr>
<td><strong>Prepaid Expenses</strong></td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
</tr>
<tr>
<td><strong>Fixed Assets</strong></td>
<td>8.31</td>
<td>8.47</td>
<td>8.64</td>
<td>8.81</td>
<td>8.97</td>
<td>9.14</td>
<td>9.31</td>
<td>9.42</td>
</tr>
<tr>
<td><strong>Long Term Investments</strong></td>
<td>957.50</td>
<td>907.58</td>
<td>857.58</td>
<td>807.58</td>
<td>707.58</td>
<td>707.58</td>
<td>707.58</td>
<td>707.58</td>
</tr>
<tr>
<td><strong>Total Assets</strong></td>
<td>2,411.41</td>
<td>2,489.41</td>
<td>2,510.31</td>
<td>2,382.51</td>
<td>2,382.71</td>
<td>2,305.11</td>
<td>2,175.81</td>
<td>2,128.11</td>
</tr>
<tr>
<td><strong>Accounts Payable</strong></td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
</tr>
<tr>
<td><strong>Deferred Income</strong></td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
</tr>
<tr>
<td><strong>Total Liabilities</strong></td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
</tr>
<tr>
<td><strong>Net Worth</strong></td>
<td>1,314.83</td>
<td>1,385.57</td>
<td>1,442.63</td>
<td>1,507.81</td>
<td>1,507.81</td>
<td>1,507.81</td>
<td>1,507.81</td>
<td>1,507.81</td>
</tr>
<tr>
<td><strong>Cumulative Surplus/Deficit</strong></td>
<td>633.40</td>
<td>711.40</td>
<td>732.30</td>
<td>604.50</td>
<td>604.70</td>
<td>527.10</td>
<td>397.80</td>
<td>350.10</td>
</tr>
<tr>
<td><strong>Prior Year Reserve</strong></td>
<td>1,778.01</td>
<td>1,778.01</td>
<td>1,778.01</td>
<td>1,778.01</td>
<td>1,778.01</td>
<td>1,778.01</td>
<td>1,778.01</td>
<td>1,778.01</td>
</tr>
</tbody>
</table>

### Investment Assets Analysis

**Comparative Report**

<table>
<thead>
<tr>
<th>Month</th>
<th>Opening Cash</th>
<th>Closing Cash</th>
<th>Average Cash</th>
<th>T-Bill Rate (%)</th>
<th>Net Asset Value per Share (Actual)</th>
<th>Number of Shares</th>
<th>Long Term Investment Value</th>
<th>Monthly Investment Return</th>
<th>Year to Date Return</th>
<th>Actual Dollars (Gross)</th>
<th>T-Bill Earned (Actual)</th>
</tr>
</thead>
<tbody>
<tr>
<td>January 31</td>
<td>907.75</td>
<td>1,233.71</td>
<td>1,070.73</td>
<td>4.28</td>
<td>22.30</td>
<td>32,757,569</td>
<td>730.52</td>
<td>3.27%</td>
<td>3.27%</td>
<td>$3,818.95</td>
<td>3.27%</td>
</tr>
<tr>
<td>February 28</td>
<td>1,233.71</td>
<td>1,249.44</td>
<td>1,241.58</td>
<td>4.43</td>
<td>21.70</td>
<td>32,757,569</td>
<td>710.81</td>
<td>-2.67%</td>
<td>0.51%</td>
<td>$4,583.49</td>
<td>3.27%</td>
</tr>
<tr>
<td>March 31</td>
<td>1,249.44</td>
<td>1,352.32</td>
<td>1,300.88</td>
<td>4.34</td>
<td>22.32</td>
<td>32,890,474</td>
<td>734.15</td>
<td>3.61%</td>
<td>4.13%</td>
<td>$4,704.85</td>
<td>3.27%</td>
</tr>
<tr>
<td>April 30</td>
<td>1,352.32</td>
<td>1,442.63</td>
<td>1,397.47</td>
<td>4.41</td>
<td>23.02</td>
<td>32,850,474</td>
<td>757.01</td>
<td>3.15%</td>
<td>7.41%</td>
<td>$5,135.72</td>
<td>3.27%</td>
</tr>
<tr>
<td>May 31</td>
<td>1,442.63</td>
<td>1,542.60</td>
<td>1,692.62</td>
<td>4.57</td>
<td>22.68</td>
<td>37,235,256</td>
<td>744.42</td>
<td>-1.43%</td>
<td>5.00%</td>
<td>$5,303.55</td>
<td>3.27%</td>
</tr>
<tr>
<td>June 30</td>
<td>1,542.60</td>
<td>1,385.57</td>
<td>1,385.08</td>
<td>4.96</td>
<td>23.23</td>
<td>39,719,539</td>
<td>922.88</td>
<td>3.47%</td>
<td>9.55%</td>
<td>$5,638.21</td>
<td>3.27%</td>
</tr>
<tr>
<td>July 31</td>
<td>1,385.57</td>
<td>1,314.83</td>
<td>1,350.20</td>
<td>4.52</td>
<td>23.01</td>
<td>41,871,471</td>
<td>963.63</td>
<td>-0.92%</td>
<td>8.54%</td>
<td>$5,085.75</td>
<td>3.27%</td>
</tr>
<tr>
<td>August 31</td>
<td>1,314.83</td>
<td>1,275.00</td>
<td>1,294.92</td>
<td>4.99</td>
<td>23.09</td>
<td>44,044,053</td>
<td>1,017.00</td>
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**Society Did Not Provide Estimates**

*** Page Count Includes Covers

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<td></td>
<td>Jun</td>
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<td>840</td>
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**Society Did Not Provide Estimates**

*** Page Count Includes Covers

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<td>3524</td>
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</table>

CRC material received late from EIC.
The condition of the Nuclear and Plasma Science Society is healthy. Your treasurer, Ed Lampo, has transferred blocks of money to the Long – Term interest bearing account. The membership is stable, although the overseas component is growing, while the United States component is shrinking. To accommodate this trend, we have established an AdCom voting position that must be filled from overseas.

We are undertaking new initiatives- Your Vice-President, Bill Moses, and I will attend the first meeting of the Sensors Council in Newark next month to insure that the NPSS interests are supported. I am also a member of the committee to seek out new and growing technology, so that our society can grow. In addition, I am also chairman of a committee to find what constitutes a "good" paper.

Concerning IEEE matters, the "Branding", and "New Financial Model" studies are proceeding. The Branding is to develop an IEEE logo that disconnects itself from engineering, to incorporate people such as computer experts and physicians under our umbrella. The goal is to make the IEEE the premier source of technical information in the USA. So far (As I understand It.) the decision is to use the letters "IEEE" in unmutilated form in yellow color. (I suggested gold as being more elegant.) The older "Kite" may also be displayed.

The "New Financial Model" is to extract money in a "painless fashion" from the societies to pay for the ever-increasing expenses of IEEE Headquarters. The situation is chaotic, and I have made copies of some recent e-mail for you.

One difficult issue is that of the Millennium Medals. IEEE headquarters proposed these. There was tremendous opposition to these medals (We already have plenty of awards, the selection cannot be fair, etc ad nauseam.). However, the medals had been struck, so we might as well benefit. After all, the medals only come out once every 1000 years, and the IEEE missed the first two occasions! After numerous inquiries over a long period of time, we finally found that the NPSS was allocated 17 of these, and that I was responsible for their distribution. What I did was to appoint a distinguished committee of Past Presidents to determine their distribution. The idea of using Past Presidents was first, they were familiar with the whole society; and second and they were elected by AdCom as a whole, and should represent everybody. The first decision was to base the presentation on service to NPSS - we could not evaluate any other way in the short time window that we had. The second decision was to give each of our 10 Technical Committees one medal to give out as the Committee saw fit. Those Committees that responded have their medal reserved. The third decision was to accept nominations from the membership. The fourth decision was for the Past Presidents to nominate a few people that they decided were really good performers but had been overlooked. The number we received exceeded the allotment, so some people were put on the backup list. None were rejected. The backup list occurs primarily because some NPSS members may receive their medals from another IEEE entity, so their medals should go to other NPSS members and not be lost. In addition, at last count only 6 of the almost 40 Societies had responded. Therefore, I notified IEEE that there might be unassigned medals, and the NPSS wanted them! I hope that everybody on the list gets one.
Date: Fri, 22 Oct 1999 11:41:44 -0400
From: alexeff <alexeff@utk.edu>
Subject: Fwd: Re: Fwd: BRANDING COMMITTEE TELECONFERENCE OF OCTOBER 20,
X-Sender: alexeff@server.ee.utk.edu
To: amlarsen@SLAC.Stanford.EDU
MIME-version: 1.0
Status:

Albe;
This also ought to go to ADCOM as a handout. It and the "New Financial
Model are examples of what your poor president must handle!
Igor Alexeff

To all:

Hal has an excellent point. For the last 2 years the Branding Committee
has
made the same presentation to TAB. In each case the Society Presidents
very
clearly rejected the change in logo. The IEEE response has been to
ignore the
Presidents. Other groups have rejected the change in logo concept and
have
been ignored as well. Rather than listen to the arguments the IEEE has
simply
stated 'you don't understand the issue and if you did understand you
would
support the change'. The IEEE response has been shameful and "they" ought
to
be embarassed. This has been like a Dilbert cartoon strip; we are
working
with the pointy haired manager!

Best Regards, Ed

Harold_L_Flescher@res.raytheon.com wrote:
>
> Well we seem to have made a dent, but have not yet been heard. We
> (almost
> everyone I've talked to) seem to want to leave the logo as is, yet
> there is
> a continued call for change (at least now substantially deminished) to
have
> the logo different from today. Why?! !!! Because Dan Senese thinks that
> potential members want it that way? BOSH! If there is a defined need to
> change, I for one will always go with the logical change. There seems,
> however, no defined need to modify our logo one iota in the current
debate.
> There are real things that can be accomplished with the current study.
If
> people think the positioning statement is important we have done good
work.
> I thing that some systemitizing of publication formats will be useful in
> the future, and we ought to look at that. But Dan and some of the BOD,
> don't you realize the animousity you are continuing to generate with your
> continued calls for logo modification? You have not yet shown any real
need
> to modify the logo beyond the arm waving and consultant white papers. I
work in an engineering organization that is very successful (in spite of
> our stock tanking). I'd get my butt fired if I presented similar
arguments
> for change with as little hard info as you present. Why are TABers so
> against what you have presented to date? A lousy argument and no real
data.
> The NFM and the requirements for fiscal change are, on the other hand, real
> and need addressing. Why not stop wasting your time with this branding
> stuff and put your time where it could accomplish something positive.
>
> "Mario R. Barbacci" <mrb@sei.cmu.edu> on 10/21/99 05:53:36 PM
>
> To: tab-branding@ieee.org, tab-tab99@ieee.org
> cc: "John B. Damonte" <jdamonte@datatamers.com> (bcc: Harold L
> Flescher/RES/Raytheon/US)
> Subject: Fwd: BRANDING COMMITTEE TELECONFERENCE OF OCTOBER 20, 1999
>
> I am forwarding John Damonte's notes to RAB. Unfortunately I had to
miss
> this teleconference because of a schedule conflict so I can not
contribute
> any further information.
>
> Please let me know your comments and suggestions so I can bring the TAB
views to the IEEE Branding Committee.
>
> Thanks,
>
> Mario

> From: "John B. Damonte" <jdamonte@datatamers.com>
> To: <rab-99@ieee.org>
> x: <brandcmte@majoromo.ieee.org>
> Subject: BRANDING COMMITTEE TELECONFERENCE OF OCTOBER 20, 1999
> Date: Thu, 21 Oct 1999 14:38:32 -0700
>
My Colleagues:

I am attaching a summary of my notes from the October 20, 1999 Branding Committee Teleconference for your information.

Remember, I am your representative on this important committee and I need your comments and suggestions so that RAB is truly represented.

Best regards,
John

Name: BRAND

IEEE 10-20 TELECONF JBD SUM 10-20-99.doc

Type: Microsoft Word Document (application/msword)

Encoding: base64

Description: Word 6.0

Windows/Mac
Date: Wed, 20 Oct 1999 12:40:29 -0700
From: alexeff <alexeff@utk.edu>
Subject: Fwd: RE: 2000 S/C Initiatives
To: amlarsen@SLAC.Stanford.EDU

This should be presented in written form to ADCOM, so they can see what
things the President has to handle!
Igor Alexeff

Subject: RE: 2000 S/C Initiatives
Sent: 10/22/1999 4:43 AM
Received: 10/20/99 11:40 AM
From: Lau, Clifford, LAUC@onr.navy.mil
To: ‘Barry W. Johnson’; bwj@virginia.edu
cc: 99treasurers@majordomo.ieee.org
d.conner@ieee.org
executive@majordomo.ieee.org
g.wagner@ieee.org
gilbert@ieee.org
l.thiel@ieee.org
r.bailey@ieee.org
s.nadler@ieee.org
tab-tab99@majordomo.ieee.org
ey.ebanks@ieee.org
Denise Manning; dmanning@staff.ieee.org

Thank you for a sane voice in an insane world. Cliff.

-----Original Message-----
From: Barry W. Johnson [mailto:bwj@virginia.edu]
Sent: Tuesday, October 19, 1999 10:45 PM
To: Denise Manning
Cc: 99treasurers@majordomo.ieee.org; d.conner@ieee.org;
    executive@majordomo.ieee.org; g.wagner@ieee.org; k.gilbert@ieee.org;
    l.thiel@ieee.org; r.bailey@ieee.org; s.nadler@ieee.org;
    tab-tab99@majordomo.ieee.org; y.ebanks@ieee.org
Subject: Re: 2000 S/C Initiatives

Dear Colleagues,

As a member of the IEEE Board of Directors, I have many
concerns about this issue. I will focus on just a couple of
items right now, however.

1. Who made this decision? The budget development process
   is something that should be approved by the Board. Why is
   that process being changed without first being brought to
   the Board for discussion?

2. The IEEE ExCom has responsibilities that are delegated
to it by the IEEE Board. How can the ExCom "act on behalf
of the board" in a process that has not first been
discussed and approved by the Board? The IEEE Board is the
one that should be doing the delegating. The ExCom cannot
simply choose the things that it wants delegated to it.

3. It makes absolutely no sense to me for a central body to
   prioritize the activities of the individual societies.
   Review and oversight is certainly fine, but the societies
   know best how to spend their members’ money. They are
elected by the society members to responsibly manage the affairs of the society. The centralization that is occurring here just doesn’t make sense and is, in my opinion, very bad management.

I sincerely hope that all of these issues are surfaced at our upcoming meetings. These are very serious items, in my opinion.

Regards,
Barry Johnson

On Fri, 15 Oct 1999 10:03:10 -0400 Denise Manning <dmanmng@staff.ieee.org> wrote:

> >
> > <underline>This message is being sent on behalf of Michael Masten, TAB Treasurer:
> >
> > <underline>TO: IEEE Technical Activities Board
> >
> > <COPY: Dave Conner
> >
> > Bob Bailey
> >
> > Linda Theil
> >
> > S/C Executive Officers
> >
> > SIC Treasurers
> >
> > FROM: Mike Masten
> >
> > SUBJECT: New Approval Process for S/C Initiatives
> >
> > BACKGROUND:
> >
> > As you know, during the annual budgeting process, each Society/Council (S/C) submits its budget for the following year. These budgets sometimes contain “initiatives” or investment spending projects for special purposes. (In some cases, initiatives may include new items that eventually become a standard part of a S/C operation . . . however such projects are still identified as new initiatives at the time they initially begin.) As you know, after a S/C Adcom approves its budget, it is then submitted to the TAB Finance Committee (FINCOM) for endorsement (or rejection for revision so that endorsement is finally achieved). The aggregate list of the S/C budgets, after being endorsed by TAB FINCOM, is forwarded to TAB for approval/rejection. (Yes, TAB as a body can reject a given S/C’s budget.) Finally, after TAB approval, the budget is forwarded to the Board of Directors (BOD) for final review and approval.
> >
> > “NEW” PROCEDURE:
> >
> > In view of recent “renewed interest” in IEEE’s budgets, the approval
process for new initiatives is being modified. Beginning in Year **2000**, for the Year 2001 budget, all initiatives (from the major Boards ... TAB, RAB, etc... and the individual S/Cs) will be submitted to the IEEE. Executive Committee (EXCOM). Acting on behalf of the BOD, the EXCOM will review ALL institute initiatives and will then offer instructions to the IEEE FINCOM (not TAB FINCOM) regarding which items should be included in the upcoming budget. Note this procedure does not alter the fact that the BOD is ultimately responsible for all Institute finances, but this procedure gives the BOD a more unified approach to the budget process.

**TRANSITION PLAN: YEAR 2000:**

Unfortunately, the list of S/C initiatives for the Year 2000 was not available for the August, 1999 review by the IEEE EXCOM. As a result, the S/C initiatives were not reviewed by EXCOM ... rather the TAB FINCOM was instructed to conduct these reviews. This review occurred at the October 14 TAB FINCOM meeting. Per instructions from IEEE FINCOM, each of the proposed Year **2000** Initiatives was categorized into one of the following groups,

- Baseline Budget --- items judged not to meet the criteria of a “new” initiative, and therefore these items should become a part of the S/C standard “operating” budget.
- * Must Do --- items for which prior commitments have been made (e.g. a new Transaction approved by TAB) or items that are otherwise essential for continued operation of a SIC.
- * Priorities A, B, and C --- items considered important, but maybe not essential. The categories A, B, and C simply reflect a rank ordering so that the BOD has sufficient information if a decision is made not to fund all institute initiatives.

The attachment with this message lists the initiatives that have been identified by the S/C for Year 2000; it also contains me ranking that was determined by the TAB FINCOM at its October 14 meeting. We must forward this list to the IEEE FINCOM no later than October 25.

When the BOD approves the Year 2000 budget in November, we do not know what priority levels in the overall rankings will be included ... but if decisions are made to “tighten” IEEE finances, then we would expect that some of the lower ranked initiatives will not be approved.

**ACTION REQUIRED:**

We apologize for the late notification of this new process ... I was not notified until October 8, less than one week before TAB FINCOM’s October 14 meeting where we had to complete this evaluation. We are certainly aware that you are likewise surprised by this development; if you wish to appeal a given ranking by TAB FINCOM, please send your justification to Ken Gilbert (k.gilbert@ieee.org) and Bob Bailey (r.bailey@ieee.org) NO LATER THAN October 24. I will be moving my office at work during that week and may not have access to e-mail, therefore be sure to copy Ken and Bob in any feedback you may provide.

Regards,
Michael Masten

Attachment: 2000 Society/Council Initiatives

--------------
Barry W. Johnson
Professor
Department of Electrical Engineering
Thornton Hall
University of Virginia
Charlottesville, VA 22903-2442
Email: bwj@virginia.edu
Phone: 804-924-7623
Fax: 804-924-8818
IEEE NPSS ADCOM Meeting
October 30, 1999

IEEE Division IV Director Report

Bill Gjertson
Division IV Director
Outline

IEEE BoD Nov ‘99 Actions
New Financial Model
Branding
Streamlining

Section/Chapter Rejuvenation

Chapter Coordinators Retreat

Members & Surveys
Expected November 1999 IEEE Board Actions

New Financial Model

Branding

Streamlining
Section & Chapter Issues

Rejuvenation

IEEE S/C Support Office

Chapter Coordinators Retreat-New Orleans- Feb. 7, 8 & 9, 2000
IEEE Members, Benefits & Surveys

Member Benefits

Products & Services

Surveys
Products & Services

New Member Kit
Mail in card offering
Publications and Product Catalog
Educational Products and Services
Conference and Technical Activities Guide
Standards Association
Awards and Recognition
IEEE Membership Grade Pins
US Professional Activities
IEEE Financial Advantage Program
IEEE Merchandise Program
Graduates of the Last Decade (GOLD) Program
Next is Code of Ethics and a Volunteering paragraph
Brochures on:
IEEE Membership Benefits
IEEE-USA Professional Activities
IEEE Awards
VISA Card Application and Financial Advantage
Toll-Free telephone number for all services
Society membership application
IEEE Information Advantage Program

All documents refer to Websites
Also a “How to contact” listing
IEEE Listing of all IEEE Publications, Videos, self-study courses-
For persons with no Internet Access
Call 1-(732) 981-0060 (worldwide)
Spectrum is only product bundled for higher-grade members.

SCOOP is sent monthly to Section Chairs and 4 times a year an expanded version is sent to Section & Chapter Chairs
Products & Services

Products ordered by members are:
- periodicals (print, microfiche, CD-ROM, On-line)
- conference proceedings
- books,
- directories
- educational videos/tapes
- conference attendance
- Standards

Membership subscription for Society Journals:
- 637k member subscriptions to TAB Periodical and additional 706k just in non-TAB Periodicals
- 325k IEEE members currently (8-18-99)
- 209,636 IEEE members belonging to a Society
- In addition 30,124 Society Affiliates-people who join the society without joining the IEEE
- There is an average of 2 society publications subscriptions held by each Society
- 130,000 members participate in Financial Advantage Programs;
- Some duplication as a member who has both a credit card and insurance is counted twice
Member Satisfaction

Table 1: Student Satisfaction with IEEE products

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<th>Graduate 1996</th>
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<td>IEEE Potentials</td>
<td>80.6%</td>
<td>72.0%</td>
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<tr>
<td>The Institute</td>
<td>72.4%</td>
<td>65.1%</td>
<td>66.0%</td>
<td>60.0%</td>
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<tr>
<td>Society Trans/Journals</td>
<td>76.3%</td>
<td>65.8%</td>
<td>84.2%</td>
<td>81.3%</td>
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<tr>
<td>IEEE Conferences</td>
<td>68.0%</td>
<td>61.9%</td>
<td>78.2%</td>
<td>71.7%</td>
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<tr>
<td>Conference Proceedings</td>
<td>69.6%</td>
<td>NA</td>
<td>78.5%</td>
<td>NA</td>
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</tbody>
</table>

* All percentages are satisfaction scores.

Table 2: Student Satisfaction with IEEE services (undergrad & grad students combined)

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<td>74.3%</td>
<td>73.2%</td>
</tr>
<tr>
<td>Membership renewal processing</td>
<td>71.6%</td>
<td>72.1%</td>
</tr>
<tr>
<td>Delivery of periodicals/subscriptions</td>
<td>71.3%</td>
<td>72.0%</td>
</tr>
<tr>
<td>Membership application processing</td>
<td>67.4%</td>
<td>70.8%</td>
</tr>
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</table>

* All percentages are satisfaction scores.
1999 REAL-TIME CONFERENCE

RT99 held in Santa Fe, New Mexico, at the La Fonda Hotel, June 14-18, 1999 was a success. Attendees were impressed by the venue in old Santa Fe and the unique atmosphere of La Fonda. The technical sessions (all plenary plus poster sessions) were generally well received. The attendance (183) was not as high as hoped based on the attendance at RT97 in Beaune (250?). However the RT99 attendance is comparable to that at the RT95 in Vancouver (207) and RT95 at Eas Lansing (135). A European venue seems to result in higher attendance, which is one of the reasons we have an informal policy of alternating the conference between Europe and North America. Some statistics:

- Attendance: 183 (88 Europe, 82 North America, 8 Japan, 5 other)
- Papers: 149 (54 oral, 95 poster)
- Short courses @e-registrations:
  - VME and cPCI: 57
  - Real-Time Linux: 76
  - Network Security: 24
  - CORBA distributed objects: 29
  - Object-oriented-analysis and automatic code generation: 21

The conference will be closed out in the next few weeks. The NPSS loan has been paid off. The only remaining expenses are for publishing and mailing the conference record and TNS page charges. We expect to end up with about a $10K surplus (approximately 10% of the conference income).

As usual getting papers reviewed in a timely manner is a problem. It have become more efficient with electronic means of exchanging papers with reviewers, but the process could benefit from a more fully automated and standardized framework. Future conferences should pursue this goal, in particular standardizing on manuscript formats and editing tools. Don Machen is currently RTC TNS editor. He has indicated that he does not plan to continue this effort for the next conference, So a new RTC TNS editor will need to be identified for RT2001.

Conference papers have been made available via a password protected web-site. The web-site also provides access to posters and talk viewgraphs, and short course viewgraphs that have been provided by authors.

2001 REAL-TIME CONFERENCE

RT2001 will be held in the vicinity of Valencia, Spain, most likely in the spring of 2001. The hosting institution will be the University of Valencia. The conference chair will be Antonio Ferrer of the Institute of Particle Physics at the University of Valencia. He will be assisted by a deputy chair, Enrique Sanchis of the Department of Informatics and Electronics at the University. Organizing
activities are just beginning. A venue, dates, and a local organizing committee will be established in the next few months.

There has been some preliminary interest from some of the persons involved in running the International Conference on Accelerator and Large Experiment Control Systems (ICALEPCS) series of conferences (just completed in Trieste) in combining ICALEPCS with the RTC. This may be a sensible idea, since there is considerable overlap in interest and they and we have to make sure venues and dates do not compete. The conferences are of similar size. This idea and various implementation options will be explored in the next year as to its feasibility, how it fits in to the CANPS TC mission, etc.

IEEE MILLENIUM AWARD

The CANPS TC designee for the IEEE Millenium award is Patrick Le Du, primarily for his efforts in promoting the internationalization of NPSS and CANPS activities. Ed Barsotti of FermiLab was designated as an alternate.
Having just returned from the 18th IEEE/NPSS Symposium on Fusion Engineering which was held in Albuquerque, New Mexico from October 25 – 29, 1999, I can report that the technical presentations at both the oral and poster sessions provided excellent reviews of the progress being made in both magnet and inertial fusion programs in the United States and abroad. The opening plenary session featured presentations by the Director of the DOE Office of Science, Dr. Martha Krebs, who spoke of the “DOE View of Fusion” and Dr. Gerry Mahlman, who gave an enlightening presentation on “Global Warming”. These presentations set the stage for the approximately 150 papers that followed and covered progress on existing experiments and plans for future R&D efforts on the roadmap to fusion.

Now for the financial details of the conference and lessons learned. Preliminary results show that there were approximately 150 registrations at an average of $450 each. The submitted budget was based on an attendance of 150 and the expenses were inline with the plan. Due to the reduced attendance, the planned awards were eliminated for this year. The conference chairman believes that the conference will have a $5000 to $8000 profit after all close out expenses are paid. At the Fusion standing committee meeting, which was held on Wednesday, October 27, 1999, the conference finances and attendance were discussed. It was felt that the low attendance was due to the US pull out from ITER, the DOE travel reductions, conflicts with other similar meetings, such as Fusion Power Associates meeting in Washington, D.C. the week before SOFE, and failure to adequately advertise and promote the conference.

At the Fusion Standing committee meeting, Phil Heitzenroeder, chairman of the 19th IEEE/NPSS Symposium on Fusion Engineering reported that the local committee has been organized and have visited and received proposals from several hotels in Atlantic City, NJ. The committee has selected Resorts International as the preferred facility and will be visiting the facility on November 4, 1999. During this visit, conference plans will be finalized and then submitted for approvals. The dates for this meeting are the first week of October 2001.

The committee also discussed plans for increasing attendance at future conferences. These plans include: adding committee members from Fusion facilities at MIT, University of Wisconsin, JET, ITER, Japan, and the French laser project (LMJ), increase the advertising for the meetings by use of a fusion progress Web page linked to IEEE, additional mailings and e-mail, posters and early contact with industry for exhibits.
Committee members were requested to submit names into nomination for Fusion Awards to be presented at the 2001 meeting. The committee requested that Lawrence Livermore National Laboratory prepare a proposal for the 2003 conference, the proposal to be presented at the next committee meeting at the ANS Fusion Topical Meeting at Park City, UT in October, 2000.

STATUS OF THE FUSION PROGRAMS

FY2000 BUDGETS

Fusion Energy Sciences

House and Senate Conferees agreed on a fusion budget for FY 2000 of $250 million, $27.4 million above the President's request. The conferees stated that they were pleased with the highly supportive recent report on fusion energy science from the Secretary of Energy's Advisory Board and with the comprehensive scientific plan developed by the Fusion Energy Sciences Advisory Committee (FESAC). The FESAC plan should be used by the Department as guidance in the allocation of the resources provided for fusion energy sciences.

Inertial Fusion

The Conference Report also contains a total of $475,000,000 for inertial fusion, of which $248,100,000 is for NIF and $227,600,000 is for base program activities. The Conference Report contains the following language:

"The agreement includes the additional $10,000,000 proposed by the House for the inertial fusion program to further the development of high average power lasers."

"The National Ignition Facility has been described as one of the cornerstones of the Stockpile Stewardship Program. The conferees understand that the most recent internal review of the project has concluded that the projected cost to complete the project has increased and the completion date will be delayed. The conferees are very disappointed by this. Additional reviews will be performed in coming months to establish the appropriate future actions for proceeding with this project.

"The conferees direct that the Secretary of Energy complete and certify a new cost and schedule baseline for the National Ignition Facility and submit that certification to the Committees by June 1, 2000. If the secretary is unable to provide such a certification, the Department should prepare an estimate of the costs necessary to terminate the project."
Technical Progress

The magnetic fusion program has recently been reviewed by several governmental committees which include: the President's Committee of Advisors on Science and Technology (PCAST), the DOE Fusion Energy Sciences Advisory Committee (FESAC), The DOE Secretary of Energy Advisory Board (SEAB) Fusion Task Force, and three hundred fusion researchers gathered in Snowmass, Colorado, for two weeks in July, 1999 for the Fusion Summer Study.

Their findings have been used to provide the DOE with a roadmap for the magnetic fusion program. The PCAST report recommends "pursuit of a new international agreement on fusion R&D that commits the parties to a broad range of collaborations on all aspects of fusion energy development, while selectively enhancing U.S. participation in existing fusion experiments abroad and inviting increased foreign participation in new and continuing smaller fusion experiments in the United States.

With respect to the MFE program, the FESAC urged the acceptance of the following four goals or "thrusts" as a way of implementing the existing higher-level goals of the fusion program:

"(1) Advance fundamental understanding of plasma, the fourth state of matter, and enhance predictive capabilities, through comparison of well-diagnosed experiments, theory and simulation.

"(2) Resolve outstanding scientific issues and establish reduced-cost paths to more attractive fusion energy systems, by investigating a broad range of innovative magnetic confinement configurations

"(3) Advance understanding and innovation in high-performance plasmas, optimizing for projected power-plant requirements; and participate in a burning plasma experiment.

"(4) Develop enabling technologies to advance fusion science; pursue innovative technologies and materials to improve the vision for fusion energy; and apply systems analysis to optimize fusion development."

The FESAC made four MFE recommendations, corresponding to the four goals:

"(1) Strengthen theory and computation as very cost effective means to advance fusion and plasma science, taking advantage of advances in computation science and technology. Strengthen activities in general plasma science and encourage research on near-term applications of plasma science and technology.

"(2) Pursue an aggressive portfolio of confinement concepts through increased effort in the Proof of Principle area, and through strengthening of the Concept Exploration program.
"(3) Focus the moderate-pulse advanced tokamak program, including U.S. collaboration on leading international facilities, and to a lesser degree the spherical torus program, towards a 5-year assessment point; and prepare for participation in a burning plasma experiment.

"(4) Revitalize the technology program to provide for continued innovation in this area because of its overall importance to the success of fusion science and fusion energy and applications. Utilize systems studies to identify attractive fusion energy concepts and affordable development paths."

With respect to the IFE program, the FESAC said that "the two central objectives of inertial fusion energy research are (1) advance the fundamental understanding and predictability of high energy density plasmas, and (2) develop the science and technology of attractive rep-rated IFE power systems leveraging from the single shot work in the (DOE Defense Inertial Confinement Fusion) Program."

The FESAC noted that "at the present time, two approaches are the most advanced and have the greatest potential of meeting near term IFE requirements: One approach utilizes the indirect drive targets, heavy ion drivers, and chambers with first walls protected from neutrons by a thick liquid layer. The other approach utilizes direct drive targets, either a krypton fluoride (KrF) or diode-pumped solid-state laser, and a dry wall chamber." However, they say, "It is important to emphasize that there are other possible combinations of drivers and chambers, as well as other approaches including z-pinches, fast ignition targets, and light ions."
IEEE/NPSS Nuclear Instruments and Detectors Committee
(NIDCom)
Report to NPSS Administrative Committee, NPSS
October 30, 1999

The committee met on Tuesday, June 8, 1999 at the University of Tennessee. Attachment No. 1 contains the minutes of that meeting prepared by the Secretary, Lou Costrell. Membership of the committee is included in these minutes.

Those in attendance at the meeting were:

Igor Alexeff      University of Tennessee, NPSS President
Louis Costrell    NIST, NIDCom Secretary
William Bugg      University of Tennessee
Steve Bertridge   University of Tennessee
Larry Darken      Canberra Instruments
Edward Fairstein  Retired
Ralph James       Sandia, Livermore (part time)
Ronald Keyser     EG&G ORTEC
Carl Reinitz      General Activities, Inc.
John Walter       Intraspec

The major item on the agenda was review of the draft for a new standard for CZT and other wide band gap semiconductor detectors.

The committee reviewed the draft incorporating comments received and appointed a 4 man subcommittee consisting of Fairstein, Keyser, Reinitz and Walter to complete a revised draft. The revised draft was submitted for Project Authorization Review (PAR). The PAR was approved by the IEEE-SA Standards Board on September 16, 1999. See attached Email from Jodi Haasz.

The Standards board also, on NIDCom recommendation at their September 16 meeting approved the reaffirmation of some 15 Standards. A list of reaffirmed Standards is also attached.
Minutes of NIDCom Meeting, University of Tennessee, Knoxville, TN
Nielsen Physics Bldg  Tuesday, June 8, 1999

1. Convene The meeting was convened at 8:30 am, Tuesday, June 8.

2. Attendance The following were in attendance:

Wm M. Bugg, Univ. of Tennessee, NIDCom Chairman
Louis Costrell, NIST, NIDCom Secretary
Igor Alexeff, Univ. of Tennessee, NPSS President
Steve Berridge, Univ. of Tennessee
Larry Darken, Canberra Instruments
Edward Fairstein, retired
Ralph James, Sandia, Liver-more (part time)
Ronald M. Keyser, EG&G ORTEC
Carl Reinitz, General Activities, Inc
John Walter, Intraspec

Regrets were received from - Dave Allard and Chris Cox who had scheduling conflicts, Glenn Knoll who was on his way to Japan, Laurie Miller who had just returned from an around the world trip, and Mike Unterweger who was overseas.

3. Membership

Wm. M. Bugg, Univ. of Tennessee, Chairman
Louis Costrell, NIST, Secretary
Igor Alexeff, Univ. of Tennessee, NPSS President
David Allard, Bureau of Radiation Protection, State of PA
R. Sachidananda Babu, GSFC
Joseph G. Bellian, Bicron
Steve Berridge, Univ. of Tennessee
Christopher Cox, Princeton Gamma Tech
Larry Darken, Canberra Instruments
W. Kenneth Dawson, TRIUMF
Edward Fairstein, retired
Erik H. M. Heijne.CERN
Ronald M. Keyser, EG&G ORTEC
Frederick A. Kirsten, Retired from LBL
Glenn F. Knoll, Univ. of Michigan
Hobart W. Krane, BNL
G. Laurie Miller, Lucent Technologies
Klaus D. Mueller, KFA Juelich
Dennis E. Persyk, Siemens
Paul L. Phelps, retired from LLNL
Carl Reinitz, General Activities, Inc
Carl R. Siebentritt, retired from FEMA
Kenneth L. Swinth, Swinth Associates
Michael Unterweger, NIST
John Walter, Intraspec
4. Personnel Matters

Sanford Wagner has retired from EG&G ORTEC and has resigned from NIDCom. The Committee expressed its appreciation for his many years of dedicated service as a member and a chairman of NIDCom and as a valued colleague and friend. We wish him the very best.

Christopher Cox who had been with Oxford Instruments (now a part of Canberra), is now with PGT in Princeton, NJ. Though he was unable to attend this meeting, he will continue as an active NIDCom member.

New members of the Committee who participated in the meeting were:

Igor Alexeff, Electrical Engineering Dept, University of Tennessee. Igor is President of the NPSS. As he is active in the plasma field, we can anticipate that he will recruit standards projects involving instrumentation for that discipline. He briefly discussed how magnetic containment fusion work is up against the 2nd law of thermodynamics.

Steve Berridge, Physics Dept, University of Tennessee. Though this was the first NIDCom meeting that Steve has attended, he contributed substantially to the discussions.

Carl Reinitz of General Activities, Inc. As project leader for the CZT standard, Carl produced the draft that we reviewed and will prepare an updated version in accordance with the decisions made at this meeting.

Ralph James of Sandia Livermore attended the meeting for a brief period as a guest of the Committee. He is leading the CZT work for the Department of Energy that includes the draft standard that Carl Reinitz produced.

5. Draft Standard P-CdZn-D1, 04 March 1999, 5112-CdZnTe99A.03)

The principal item on the agenda was the review of this draft standard for which Carl Reinitz serves as project leader. Comments received were as listed here (all are attached) -

Comments received re P-CdZnTe-D1
(F) Ed Fairstein ltr 22 March 1999
(K) Glenn Knoll e-mail 17 April 1999
(Mu) Klaus Mueller FAX 20 April 1999
(Mi) Laurie Miller 3/14/99 mark-up of draft
(S) Ken Swinth comments
(W1) John Walter e-mail 02 June 1999
(W2) John Walter ltr 07 June 1999
5a. CZT Review – The Committee reviewed the draft and addressed all of the comments that were received. Project leader Carl Reinitz will modify the document strictly in accordance with the decisions made at this meeting. Items not fully resolved at the meeting concern resolution and efficiency. The "Group of Four" (Go4), consisting of Fairstein, Keyser, Reinitz and Walter) is working on the wording for these items.

Secretary's Note: Post meeting comments by NIDCom Secretary Costrell and by Project Deader Reinitz are attached to these minutes as Attachments PM-C and PM-R, respectively. Items that require further attention by the Group of Four include:

- Precise spelling out of the scope (with title to match)
- Grain and contact matters discussed in Attachment PM-C
- Resolution, efficiency, and single-carrier/two-carrier matters discussed in Attachment PM-R

It is hoped that these items can be resolved expeditiously. The draft should then be ready to roll and will be sent to Costrell by Reinitz.

Costrell will send copies of the revised draft to the Committee members and to such other persons as the Project Deader and others may designate. The recipients who then wish to submit additional comments will thus have an opportunity to do so.

Among the more significant decisions made with regard to the CZT draft were those listed below: (Minor items, editorial rewrites, and typos are, for the most part, not listed here.)

Title – The new title is –

CZT and Other Wide-Band Detector Characterization Measurements for Devices used in Gamma Spectrometry

Secretary's note – This may require some modification depending on the scope that is decided upon.

Section 1. Overview – In an appropriate place (Section 1 or Section 4 or in the Foreword) there should be a brief discussion as to why there is a need and a place for CZT detectors. Also, there should be a tutorial discussion of single carrier as well as two carrier devices and, depending on the scope, modifications and additions may be required in several sections of the document.

Section 3. Definitions, Symbols, Abbreviations, & Acronyms –
Items in this section that do not appear elsewhere in the document are to be deleted with the exception of two definitions that are corrected versions of those listed in earlier document and that thus appear in the IEEE dictionary. These are the definitions for
"bias resistor" and for . (This is a slight-of-hand move to get correct versions into the dictionary.) Also, a term that appears in only one place in the text is to be defined or described in that one place and removed from Section 3. In some instances the comments proposed somewhat improved wording but, where the original wording said the same thing, changes were not made since there is an advantage in limiting proliferation of definitions for the same term. There was discussion regarding the definition of "lifetime: but that term did not elude the executioner and no longer appears in the listing. A number of the definitions for which improvements were proposed will be among those deleted from the listing. Much of the foregoing regarding definitions applies also to symbols, acronyms and abbreviations.

Section 4. General – Tutorial material in this section is consistent with previous NIDCom standards, as for example in IEEE Std 325-1996 (Germanium detectors), and is helpful to readers that are new to the field. However, we are deleting some such where it is not necessary as in Sections 5, 5.5.1, 5.5.2 and 5.5.3.

Section 4.51, Figure 4-1. Basic detector element geometries – This figure is to be replaced by one showing only configurations actually used or contemplated to be used for CZT detectors.

Section 4.5.2 Coaxial Geometry – This section is to be deleted.

Section 4.5.4. Measurement procedures – This section is to refer to IEEE Std 325-1996 on Germanium detectors regarding the "established measurement procedures."

Section 4.6. Preamplifiers – A number of small changes are to be made in this section.

Section 5.3. Electronic system – A substantive change to be made in this section is replacing "can be" by "shall."

Section 5.4. Amplifier pulse shaping – A number of small changes are to be made in this section. In the 2nd par must is replaced by can.

Section 5.5 Electromagnetic interference – The last sentence of the 3rd paragraph is to be replaced by reference to the appropriate sections in the Germanium standard (IEEE Std 325-1996).

Section 5.5.1. Noise pickup from ground loops
Section 5.5.2 Examination for noise pickup from ground-loops and from other sources of external noise
Section 5.5.3 Reduction of noise pickup due to ground loops
These three sections are to be expunged from the document since the reference to IEEE Std 325-1996 in 5.5 is sufficient.
Section 6. Energy resolution
Section 7. Test procedures and computations
As mentioned in Item 5a on page 3 of these minutes, "Items not fully resolved at the meeting concern resolution and efficiency." (See also Attachments PM-C and PM-R). The Group of Four is working on the wording for these items and should complete that task expeditiously." This will have implications for all of Sections 6 and 7, including their subsections.

Section 8. Energy rate limit – This section is to be deleted.

Section 12. Bibliography – the following is to be included –


6. NIDCom Ltr Ballot 09 March 1999 (HD5112-Ba9903A)
All items on the attached copy of this ballot have been unanimously approved by NIDCom (with one ballot not returned) and the results submitted to the IEEE. We now await IEEE action.

This standard was published on June 4.

This standard was on the letter ballot of Item 6 to be reaffirmed. Ed Fairstein is working on a revision.

This standard was administratively withdrawn in 1993 but was none-the-less included on the letter ballot of Item 6 to be reaffirmed. It is identical to IEC 937. Ron Keyser looked into the matter of a revision but discussion at the meeting dealt with the relationship between Marinelli (reentrant) beaker dimensions and the end-cap dimensions. No conclusions regarding revision were arrived at though it is recognized that beakers with larger reentrant wells are being used and are necessary and that larger diameter probes are required for both current and future detectors. We will have to address this further.

This standard was on the letter ballot of Item 6 to be reaffirmed.
This standard was on the letter ballot of Item 6 to be reaffirmed.

This standard, issued in 1996, is in good shape and can provide useful items for insertion or replacement in some of our earlier standards. It provided valuable input for the CZT draft.

This standard was on the letter ballot of Item 6 to be reaffirmed.

This standard was on the letter ballot of Item 6 to be reaffirmed.

This standard was on the letter ballot of Item 6 to be reaffirmed.

16. CAMAC and FASTBUS standards.
These standards were on the letter ballot of Item 6 to be reaffirmed.

17. Regarding Reaffirmed Standards –
Though standards that are reaffirmed do not require formal action for 5 years, Items 8-11 and 14-16 should be continued on the agenda to be monitored since developments may dictate earlier action on our part.

18. Spectrum Stripping and Analysis –
John Walter's letter W2 discussed this matter and the inadequacy of the AIEA guide that used artificial peaks. Ron Keyser will look into utilizing the AIEA guide as the basis for a more suitable document to be developed by NIDCom as an IEEE standard.

19. MCA Standard –
John Walter's letter W2 seconded by Ed Fairstein, pointed out that the development of an IEEE standard on this subject has floundered because of the lack of an adequate way to measure the ADC differential linearity. No immediate action is indicated.

20. Detector Microphonics –
A considerable amount of work has been done on this subject but measurements have not been encouraging and there remains fundamental disagreement as to the feasibility of developing a detector microphonics standard.

Costrell ltr 22 March 1999 (5112-PET9903A) solicited views of several NIDCom members but has received no response. Ron Keyser has a number of questions regarding the proposal and the Secretary will advise Jones to contact him.

22 Test Procedures for $^3$He Proportional Counters

Still on the "future work" list is a standard on $^3$He Proportional Counters, item 11 of the August 12-13 minutes, with the initial draft to be prepared by Dave Allard.

23. Administrative Matters

As stated in the minutes of the previous NIDCom meeting: The IEEE Standards Board has established the IEEE Standards Association (SA) and has mandated that committee members belong to the SA. The annual SA fee for IEEE society members and for Affiliate Society members is $10. For non-IEEE or Affiliate Society members, the fees are considerably higher.

At the previous meeting, it was concluded that we should go along with the fee and each of us would pay up so that we could continue to be members in good standing and participate in the Committee activities, including the formal voting. The $10 fee, while irritating, is minuscule compared to the fees ($250 to $750) that the U.S. National Committee has now instituted for participating in the IEC and in the associated Technical Advisory Groups (TAGs).

24. Adjournment –

As evening approached
   and the clock read six-forty
   and hunger set in,
   t’was time to adjourn
   and that’s just what we did.

Respectfully submitted,

Louis Costrell
Secretary, IEEE/NPSS/NIDCom

Attachments:
MP-C = Secretary's Post Meeting comments (Costrell)
MP-R = Project Leader's Post Meeting Comments (Carl Reinitz)
On June 11 I received a phone call from Sachidananda (Sachi) Babu of the Goddard Space Flight Center to whom I had sent a copy of the CZT draft as suggested by John Walter because of concern about grain boundaries. Sachi says that the grain orientation can greatly affect the test measurements and can give very misleading measurement results. As John has pointed out, there is nothing in the draft on this subject. The matter needs to be addressed tutorially and, depending on the scope, possibly as well as in other parts of the text. Sachi also expressed concern about the contacts; those currently used are ohmic but blocking contacts are also being explored for possible use. There is also the matter of contact behavior at elevated temperatures. This is all very serious business and is being pursued further by the Group of Four. See also the June 8, 1999 minutes, Sections 6 and 7 on page 5 and Item 5a on page 3.
June 21, 1999

Louis

The following are my comments to Your DRAFT MINUTES of 14 June, 1999.

I would write out Cadmium-Zinc-Telluride in the title of the standard instead of CZT.

In Section 1 it is mentioned that the standard will include single carrier devices. I would like to suggest that we mention single carrier devices in the tutorial and exclude these devices in the rest of the standard. The title would than mention that the standard describes resolution measurements only for two carrier devices.

Concerning efficiency, if we could apply a similar approach to it in the tutorial we could come back to this topic later and possibly treat it in an amendment to this standard.

Concerning Sachi's comments about grain boundaries and impacts of contact stability especially at elevated temperatures I would like to mention that the standard will specify resolution measurements. Resolution degradation can be due to a variety of causes. The resolution measurements will provide a number for the resolution, will provide a meaningful comparison between various materials and devices, will highlight degradation if any, but it will not imply causes for the degradation.

Finally, concerning the resolution I am sending You several papers showing that measuring the resolution with the centroidal approach does give acceptable results. The papers will follow in the mail in hard copy form.

Thank You for Your time and effort concerning this matter

Sincerely Yours

Karl Reinitz
Date: Tue, 28 Sep 1999 11:03:24 -0400
From: Jocii Haasz <j.haasz@ieee.org>
To: louis.costrell@nist.gov
cc: karegai2@aol.com, bugg@SLAC.Stanford.EDU
Subject: P1557 Standard Test Procedures for Cadmium-Zinc-Telluride (CZT) and Other Wide Bandgap Semiconductor Radiation Detectors

27 September 1999

Mr. Louis Costrell
NIST
100 Bureau Drive, Stop 8460
Gaithersburg, MD 20899-8460

Re: P1557 Standard Test Procedures for Cadmium-Zinc-Telluride (CZT) and Other Wide Bandgap Semiconductor Radiation Detectors

Dear Mr. Costrell:

I am pleased to inform you that on 16 September 1999 the IEEE-SA Standards Board approved the above referenced project, changing the answer to #10 on the PAR form to ?? . A copy of the file is attached in .pdf format.

At the bottom of this e-mail, please find URLs which you may find useful in the development of your proposed standard and in submitting your final draft for approval. Written responses from all committees/organizations listed on the PAR as proposed coordination must be included with the final draft when it is submitted.

If coordination is effected by common membership, i.e., a person on the standard’s developing committee who is also a member of the committee/organization specified on the PAR for coordination, there must be a document included with the final draft from that coordinating body which states that person is authorized to represent it. We strongly recommend that a copy of your draft be sent to this office for review prior to the final voting by the working group to allow for a quick review by the editorial staff before sponsor balloting.

If you should have any further questions or would like to receive this information in paper, please contact me at 732-562-6367 or by email at j.haasz@ieee.org

Sincerely,

Jodi Haasz
Administrator, Standards Process Support
NesCom Administrator

cc: K. Reinitz
    W. Bugg

PS - The information in the .pdf file is viewable in Adobe Reader, version 3.0 or higher. If you do not have this software, please go to http://www.adobe.com/prodindex/acrobat/readstep.html#reader to download the free version.

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Standards Process-at-a-Glance

IEEE Standards Style Manual

IEEE Standards Companion
Dear Louis:

I am pleased to inform you that the reaffirmation of the standards listed above was approved by the IEEE-SA Standards Board on 16 September 1999.

All IEEE standards shall be updated within five years of the date of publication. If the standard is not revised, reaffirmed, or
withdrawn within five years, the sponsor will be notified that it will be submitted to the Standards Board for administrative withdrawal. Maintenance of the document includes compliance with the IEEE metric policy. The schedule for implementation is attached.

Please contact me if you have any questions. I may be reached by phone at 732-562-3806, fax 732-562-1571 or e-mail d.ringle@ieee.org.

Sincerely,

Dave Ringle
Administrator
IEEE Standards Board Support

enclosure:

Standards Board Implementation Plan for Policy 9.21

The IEEE Standards Board supports IEEE Policy 9.21, which calls for measured and calculated values of quantities to be expressed in metric units in IEEE publications, following the detailed guidance for SI-based metric practice given in IEEE/ASTM SI-10. Many IEEE standards already conform to this policy. For the remainder, the Standards Board has adopted the following transition schedule:

Stage I -- After January 1, 1996: Proposed new standards and revised standards submitted for approval shall include metric units.

Stage II -- After January 1, 1998: Proposed new standards and revised standards submitted for approval may include inch-pound data if that is thought to be necessary, but shall give the metric units in preferred place. [As a general rule, "dual dimensioning", the practice of following the metric unit with the inch-pound-based unit in parentheses, should be avoided because it makes text difficult to read. Alternative means of presenting the inch-pound information, such as tables or footnotes, are preferred.]

Stage III -- After January 1, 2000: Proposed new standards and revised standards submitted for approval shall use metric units exclusively in the normative portions of the standard. Inch-pound data may be included, if necessary, in footnotes or appendixes that are informative only.

Standards Coordinating Committee 14 shall work with the committees responsible for generating IEEE standards to help them carry out this implementation plan. Policy 9.21 recognizes the need for some exceptions and contains the following statement: "Necessary exceptions to this policy, such as where a conflicting world industry practice exists, must be evaluated on an individual basis and approved by the responsible major board of the Institute for a specific period of time." SCC14, as part of the coordination process, shall review requests for individual exceptions and shall report its recommendations to the Board.

Exceptions: (1) IEEE/ASTM SI-10 gives a specific exception for trade sizes, such as the AWG wire series and inch-based standards for fasteners. Such data need not be translated into metric terms. (2) Also excepted are those cases, such as plugs and sockets, where a mechanical fit to an inch-based product is required. (3) This Implementation Plan does not require metric products to be substituted for inch-based products.

Approved by IEEE Standards Board
March 16, 1995

**********************************************************************

David L. Ringle
Administrator (RevCom)
Standards Department

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NPSS/PAST COMMITTEE annual report Oct 30 1999

The main event of the year was PAC 99 held in New York City Mar 29-Apr 2. The closing report will be issued by the end of the year. The bound volumes of the proceedings have been shipped and the CD’s are going out soon. It is of interest to note that $\frac{2}{3}$ requested CD and $\frac{1}{3}$ hard copy.

A major funder of Particle Accelerator research, the Department of Energy, has changed many of its travel reimbursement guidelines, which could affect the choice of conference sites and the number of registrants at a conference. Some new regulations are being developed. Now the DOE requires travelers from contractor laboratories to follow US government travel guidelines. On top of this they are also capping the total amount spent on travel by a Laboratory. This is influencing the selection of the site of PAC 03 and the Chairman of that conference is now considering Portland, OR which has more affordable hotel rates.

The Book Broker program and its payments to the PAC conferences are presently a topic of discussion and is being studied in detail by a committee set up by the Adcom President.

The PAC 01 is to be held in Chicago and the first meeting of the organizing committee will be held on January 11 2000 at the conference hotel.

The publication of PAC99 was electronic. There is an international collaboration on electronic publication of accelerator conference proceedings called Joint Accelerator Conference Website Committee (JACoW). They are organizing a workshop at BNL Dec 1 to Dec 4. Standards will be defined and software will be shared. They have a Webpage: [http://www.cern.ch/accelconf/workshop99/Welcome.html](http://www.cern.ch/accelconf/workshop99/Welcome.html). Other NPSS conferences might find this helpful.

Respectfully submitted,

Matthew A. Allen, Chair
1. The 1999 ICOPS held in Monterey, CA netted about $50K in profit. The loan from IEEE has been repaid by the 1999 Conference Chair Dr. Christopher Deeney (Attachment #1).

2. The 2000 ICOPS to be held in New Orleans, LA, is on track. Based on grant monies received, the 2000 ICOPS budget has been submitted to IEEE with conference registration fees held at the same levels as in 1999 (Attachment #2). All Technical area coordinators and Session Chairs are in place. The Call for Abstracts is in printing and will be released shortly.

3. Two special sessions are under discussion/planning for ICOPS2000. One is a special session honoring the 75th birthday and research contributions of Emil Fender to plasma science (Attachment #3). It is hoped that this session will make ICOPS conferences an attractive venue for more presentations from the Plasma Chemistry community. The other special session is an outgrowth of the “Ionized Gasses” working group chaired by IEEE NPSS president Igor Alexeff at the 1999 ElectroMed conference held in Norfolk VA (Attachment #4). It would focus on plasmas for decontamination purposes, primarily military. It would be sponsored by ARO. This would be an invitation only session, running in parallel with ICOPS2000.

4. A final vote on whether to hold the 2003ICOPS in Korea will be taken at the November 14, 1999 PSAC ExCom meeting to be held in Seattle, WA. A website for the collection of community opinion on this issue was established at V. Ayres’ Michigan State University URL.
Follows is copy of text of my cover letter for repayment by 99ICOPS of their $25K loan. My signed original and a $15K check are being mailed to Mary Ann DeWald, IEEE Conference Services.

Dear Mary Ann:

Enclosed is a check in the amount of $15,000.00 from the IEEE 1999 International Conference on Plasma Science (99ICOPS). This, combined with their grant of $10,000.00 from the Air Force Office of Scientific Research, is in repayment of $25K loan from NPSS. Please arrange for suitable posting of these funds; i.e., to NPS-05 and identifying as "99ICO".

<!doctype html public "-//w3c//dtd html 4.0 transitional//en">
<html>

Follows is copy of text of my cover letter for repayment by 99ICOPS of their $25K loan. My signed original and a $15K check are being mailed to Mary Ann DeWald, IEEE Conference Services.
<br>&lt;\text of my cover letter&gt;
<br><font size=-1>Subject: 99ICOPS, Loan repayment</font>
<br>Dear Mary Ann:

Enclosed is a check in the amount of $15,000.00 from the IEEE 1999 International Conference on Plasma Science (99ICOPS). This, combined with their grant of $10,000.00 from the Air Force Office of Scientific Research, is in repayment of $25K loan from NPSS. Please arrange for suitable posting of these funds; i.e., to NPS-05 and identifying as "99ICO".

&lt;/font&gt;
<br>&lt;/\text of my cover letter&gt;
<br>&lt;/html&gt;
Deeney, Chris, 03:17 PM 8/13/99, RE: B. Griffith request

Return-Path: <cdeene@sandia.gov>
X-Server-Uuid: 7ed6bf79a-fd89-11d2-9a77-0090273cd58c
From: "Deeney, Chris" <cdeene@sandia.gov>
To: "'Virginia Ayres" <ayresv@egr.msu.edu>
Subject: RE: B. Griffith request
Date: Fri, 13 Aug 1999 15:17:14 -0600
X-WSS-ID: 1BAA54D712228-01-01

Virginia,

Good news.  ICOPS99 made $750,000 dollars - three quarters of a Million!  I believe the IEEE will be erecting a statue to me in the HQ building......

Now that you have gotten back up of the floor I can tell you that we received a check from USC by mistake for $680,000.  Unfortunately, I felt obliged to return their money - shucks!

I suspect you have done the math but that does leave $70,000.  I will tell Gilgenbach to give out some more student awards, and their are some more incidental expenses, including the APS expenses for EXCOM and Mazzola, but I am guessing that a $50,000 surplus is likely.  We have mailed the repayment check for the loan back to the IEEE.  This is just a FYI email, I will have a more accurate number soon.

Regards,

Chris

----------
From: Virginia Ayres
Sent: Tuesday, July 6, 1999 12:33 PM
To: cdeene@sandia.gov
Subject: B. Griffith request

Hi, Chris,

What is your opinion of the request for travel expenses and an honorarium from Barbara Griffith?  My inclination is not to pay it.  None the rest of us who serve on ExCom receive any reimbursement.  Unless she has a salaried arrangement that I don't know about?

Regards, Virginia

PS GREAT conference.  Hope your trip up to the wine country with Melissa was terrific after all that.  Please say Hi to Melissa from me.

Virginia M. Ayres
Associate Professor
Department of Electrical & Computer Engineering
Michigan State University
East Lansing, MI 48824-1226
Tel: 517-355-5236
FAX: 517-353-1980
email: ayresv@egr.msu.edu

; Printed for Virginia Ayres <ayresv@egr.msu.edu>
To: Lampo@lbl.gov
From: Virginia Ayres <ayresv@egr.msu.edu>
Subject: Re: ICOPS 2000
Cc: Bcc:
X-Attachments:

I have reviewed it and approve it. The voting membership of PSAC has also reviewed and approved it: 15/18 yes votes out of 15 votes received.

Best Regards, Virginia Ayres

At 02:27 PM 10/13/99 -0700, you wrote:
> Igor and Virginia,
> Have you reviewed the proposed budget for ICOPS-2000? -- it has estimated expenses of $135,728 and income of $163,085. I just received a copy by mail. In order to be accepted by IEEE the budget must first be approved NPSS, which in this case means by you two and me.
> If you have reviewed it do you approve?
> If you have not seen it let me know and I'll fax it and the 1998 actual budget.
> Thanks for your attention.
> Ed
> ************
> Edward J. Lampo
> Lawrence Berkeley National Lab
> University of California
> Mail Stop: 80-101
> 1 Cyclotron Road
> Berkeley, CA 94720 USA
> e.lampo@ieee.org
> Tel: 510.486.6779
> Fax: 510.486.5800
> ************

<html>
<br>Igor and Virginia,
<br>Have you reviewed the proposed budget for ICOPS-2000? -- it has estimated expenses of $135,728 and income of $163,085. I just received a copy by mail. In order to be accepted by IEEE the budget must first be approved NPSS, which in this case means by you two and me.
<br>If you have reviewed it do you approve?
<br>If you have not seen it let me know and I'll fax it and the 1998 actual budget.
<br>Thanks for your attention.
<br>Ed
<br>
</html>
Thanks a bunch for the vote of confidence. I will proceed immediately.

Mike Mazzola

Virginia Ayres wrote:

> To: Mike Mazzola, Chair, ICOPS2000
> and: PSAC ExCom
> > A majority of "yes" votes, 14/18, have been received for Mike's budget. No
> > negative votes have been received, or issues raised. Therefore: Mike has
> > PSAC authorization to go ahead and get the ICOPS2000 budget in to IEEE HQ/Ed
> > Lampo and to go get our loan.
> > Go get ’em, Mike, we’re right behind you!
> > Many thanks to all of you.
> > Best regards, Virginia Ayres
> Chair, PSAC ExCom
> 
> At 07:47 AM 10/1/99 -0400, you wrote:
> > Dear Virginia,
> > > Here is the tally for the ICOPS Budget vote as of Oct. 1.
> > > Total 14 yes votes out of 14 votes submitted.
> > > The individuals voting include:
> > > Hussey, Faehl, Hargreaves, Godyak, Chan, Schoenbach,
> > > Vahala, Antonsen, Commisso, Gold, Ayres, Barker, Godfrey, Agee
> > > Tim Grotjohn
> > Secretary, PSAC ExCom
> > Virginia M. Ayres
> > Associate Professor
> > Department of Electrical & Computer Engineering
> > Michigan State University
> > East Lansing, MI 48824-1226
> > Tel: 517-355-5236

Printed for Virginia Ayres <ayresv@egr.msu.edu>
Return-Path: <mazzola@ECE.MsState.Edu>
Date: Wed, 15 Sep 1999 11:26:20 -0500
From: "Michael S. Mazzola" <mazzola@ECE.MsState.Edu>
Reply-To: mazzola@ECE.MsState.EDU
Organization: Department of Electrical & Computer Engineering, Mississippi State University
X-Accept-Language: en
To: Virginia Ayres <ayresv@egr.msu.edu>
CC: mazzola@ECE.MsState.EDU, Teresa Stewart <TStewart@CE.MsState.Edu>,
    Chris Deeney <cdeeney@sandia.gov>
Subject: ICOPS 2000 budget

Virginia,

Attached is the most current version of the ICOPS 2000 budget.

Some changes from last June include:

1. A revised (increased) estimate of grant income to $14,500, which is probably still conservative based on discussions with various sources.

2. Revised (decreased) conference fees to those of 1999 (i.e., no increase in 2000).

3) Estimated contingency of 20.1% over expenses.

We need swift PSAC action on this budget, so Ed Lampo and IEEE can tear into it.

I am pleased to pass on my appreciation to Chris Deeney and his 1999 committee for the fantastic support they have been providing to ICOPS2000. He's probably the best Chair yet. Maybe he can do another one?

Mike

Attachment Converted: c:\network\eudora\attach\Prelimil.xls
## Final Preliminary Budget

(Based on registration fees for 99)
( & % of total registrations for 98)

<table>
<thead>
<tr>
<th>Expected #</th>
<th>Amount</th>
<th>Total $</th>
<th>% of total of expenses</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>600</strong> TOTAL CONFERENCE INCOME</td>
<td>450</td>
<td>$163,013</td>
<td>20.10%</td>
</tr>
<tr>
<td><strong>610</strong> In Advance - Members</td>
<td>112</td>
<td>$35,840</td>
<td>25% of total registration</td>
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<tr>
<td><strong>611</strong> Full</td>
<td>112</td>
<td>320</td>
<td>35840</td>
</tr>
<tr>
<td><strong>612</strong> Limited</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td><strong>620</strong> In Advance - Nonmembers</td>
<td>95</td>
<td>$39,900</td>
<td>28% of total registration</td>
</tr>
<tr>
<td><strong>621</strong> Full</td>
<td>95</td>
<td>420</td>
<td>39900</td>
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<tr>
<td><strong>622</strong> Limited</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td><strong>630</strong> In Advance - Reduced Rate</td>
<td>81</td>
<td>$5,040</td>
<td>1% of total registration</td>
</tr>
<tr>
<td><strong>631</strong> 1-Day Members</td>
<td>0</td>
<td>0</td>
<td>0</td>
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<tr>
<td><strong>632</strong> 1-Day Nonmembers</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td><strong>633</strong> Retired, unemployed</td>
<td>18</td>
<td>70</td>
<td>1260</td>
</tr>
<tr>
<td><strong>634</strong> Students</td>
<td>54</td>
<td>70</td>
<td>3780</td>
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<tr>
<td><strong>635</strong> Exhibits Only</td>
<td>0</td>
<td>0</td>
<td>0</td>
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<tr>
<td><strong>636</strong> Group Discounts</td>
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<td>0</td>
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<tr>
<td><strong>639</strong> Other</td>
<td>9</td>
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<tr>
<td><strong>660</strong> At Conference - Members</td>
<td>77</td>
<td>$30,030</td>
<td>21% of total registration</td>
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<td><strong>661</strong> Full</td>
<td>77</td>
<td>390</td>
<td>30030</td>
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<tr>
<td><strong>662</strong> Limited</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td><strong>670</strong> At Conference - Nonmembers</td>
<td>54</td>
<td>$27,000</td>
<td>19% of total registration</td>
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<tr>
<td><strong>671</strong> Full</td>
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<td>27000</td>
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<tr>
<td><strong>672</strong> Limited</td>
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<td>0</td>
<td>0</td>
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<tr>
<td><strong>680</strong> At Conf. - Reduced Rate</td>
<td>31</td>
<td>$2,790</td>
<td>1% of total registration</td>
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<td><strong>681</strong> 1-Day Members</td>
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<tr>
<td><strong>682</strong> 1- Day Nonmembers</td>
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<td>0</td>
<td>0</td>
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<tr>
<td><strong>683</strong> Retired, unemployed</td>
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<td>90</td>
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<td><strong>684</strong> Students</td>
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<td>1170</td>
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<tr>
<td><strong>685</strong> Exhibits only</td>
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<td>0</td>
<td>0</td>
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<tr>
<td><strong>689</strong> Other</td>
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<td>0</td>
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<tr>
<td><strong>600</strong> SOCIAL FUNCTIONS - FEES</td>
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<td>$2,388</td>
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<tr>
<td><strong>910</strong> Reception, Sun.</td>
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<td>783</td>
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</tr>
<tr>
<td>Code</td>
<td>Description</td>
<td>Quantity</td>
<td>Cost</td>
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<td>------</td>
<td>-------------------------------------------</td>
<td>----------</td>
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<td>Banquet, Mon.</td>
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<td>780</td>
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<tr>
<td>930</td>
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<td>940</td>
<td>Tours</td>
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<td>Tour#2</td>
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<td>950</td>
<td>Special Social Event</td>
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<tr>
<td>990</td>
<td>Other Social</td>
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<tr>
<td>1000</td>
<td>ALL OTHER - FEES</td>
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<tr>
<td>1060</td>
<td>Miniconference Fees</td>
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<td>13</td>
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<tr>
<td>1099</td>
<td>Grants, etc.</td>
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</table>

**2000 TOTAL CONFERENCE EXPENSE**

- **1400 PROMOTION**
  - 1410 Printing/Flyer Announcement
  - 1411 Printing/Poster Announcement
  - 1420 Printing/Call for Papers
  - 1430 Printing/Advance Program
  - 1440 Printing/Final Program
  - 1450 Mailing Lists/Labels
  - 1460 Postage
  - 1490 Other Promotion

- **1500 CONFERENCE PUBLICATION**
  - 1510 Conference Proceedings
  - 1520 Author Kits Printing
  - 1530 Shipping

- **1600 EXHIBITS**
  - 1610 Exhibit expense - room for posters
  - 1620 Exhibit expense - equipment

- **1700 SOCIAL FUNCTIONS**
  - 1710 Welcome Reception, Sun

**TOTAL** $135,728

- **1400 PROMOTION**
  - 1410 Printing/Flyer Announcement: $560 (From Bid)
  - 1411 Printing/Poster Announcement: $5400 (From Bid)
  - 1430 Printing/Advance Program: 3357 (From Bid)
  - 1450 Mailing Lists/Labels: 800 ($767 last year)
  - 1460 Postage: 4500 ($4392 last year)

- **1500 CONFERENCE PUBLICATION**
  - 1510 Conference Proceedings: 20000 (1998 - $13,000)

- **1600 EXHIBITS**
  - 1610 Exhibit expense - room for posters: 3500 (from contract with hotel)
  - 1620 Exhibit expense - equipment: 2800 (Poster Board rental-est.)

- **1700 SOCIAL FUNCTIONS**
  - 1710 Welcome Reception, Sun: 6750

- **ALL OTHER - FEES**
  - 1000: $20,025
  - 1060: 13 425 5525
  - 1099: 14500
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<th>Part 1</th>
<th>Part 2</th>
<th>Part 3</th>
<th>Notes</th>
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</thead>
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<tr>
<td>Food</td>
<td>270</td>
<td>25</td>
<td>6750</td>
<td>(60% of total parti. - from last year)</td>
</tr>
<tr>
<td>Luncheon</td>
<td>293</td>
<td>45</td>
<td>13185</td>
<td>(65% of total partic. - from last year)</td>
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<td>Continental Breakfast + Mon., Tue., &amp; Wed</td>
<td>900</td>
<td>12</td>
<td>10800</td>
<td>(300 x 3 mornings)</td>
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<tr>
<td>Continental Breakfast + Mon., Tue., &amp; Wed</td>
<td>1800</td>
<td>6</td>
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<td>Conference</td>
<td>26</td>
<td>6</td>
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<td>Other</td>
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<td>Tour 2</td>
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<td>30</td>
<td>450</td>
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</tr>
<tr>
<td>Hospitality</td>
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<td></td>
</tr>
<tr>
<td>Other</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Travel</td>
<td>381</td>
<td></td>
<td></td>
<td>(assume 2 courtesy rooms)</td>
</tr>
<tr>
<td>Food (2 people x 3/morning)</td>
<td>184</td>
<td></td>
<td></td>
<td>(3431 in 98)</td>
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<tr>
<td>Other Transportation</td>
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<tr>
<td>IEEE Membership Prg</td>
<td>381</td>
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<td>(24646 in 98)</td>
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<tr>
<td>Meetings/Dinner at November</td>
<td>40</td>
<td>35</td>
<td>1400</td>
<td>(6563 in 98)</td>
</tr>
<tr>
<td>Meetings/Dinner at June meeting</td>
<td>40</td>
<td>35</td>
<td>1400</td>
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</tr>
<tr>
<td>Excom breakfast</td>
<td>30</td>
<td>16</td>
<td>480</td>
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**Total:** $30,865

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<td>Transportation</td>
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<td>All Other Expenses</td>
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<td>Executive Committee Expenses</td>
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<td>(6563 in 98)</td>
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<td>1400</td>
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<tr>
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<td>Amount</td>
</tr>
<tr>
<td>------</td>
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<td>--------</td>
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<td>1914</td>
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<td>1920</td>
<td>Student Travel Grants</td>
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<td>1931</td>
<td>Chairman's VIP Luncheon</td>
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<td>1933</td>
<td>Wrap-up, Next APS</td>
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<td>1960</td>
<td>Miniconference Expenses</td>
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<tr>
<td>1961</td>
<td>Printing</td>
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<td>Postage &amp; Shipping</td>
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<tr>
<td>1963</td>
<td>Publicity</td>
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<td>1969</td>
<td>Instruction</td>
<td>3000</td>
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<tr>
<td>1970</td>
<td>Miscellaneous</td>
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<tr>
<td>1980</td>
<td>Other</td>
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<tr>
<td>1981</td>
<td>Bank Charges, audit</td>
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<tr>
<td>1982</td>
<td>Credit Card Fees</td>
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<tr>
<td>1990</td>
<td>Other Misc., future ICOP</td>
<td>1000</td>
</tr>
</tbody>
</table>
Don's summary is consistent with our phone conversation. I have already checked the draft session schedule, and no conflicts with the mentioned topics are currently anticipated.

I think this is an excellent opportunity to enhance interest in ICOPS 2000, and I'm fully supportive.

Mike Mazzola

Don Rej wrote:

> Mike, Gerry, and Virginia,
> 
> It was great speaking with you all over the past week regarding the thermal plasma chemistry and processing sessions at ICOPS2000. Based on those conversations, I would like to summarize the conversations and get a group consensus on issues and the path forward.
> 
> In general there was an enthusiastic reaction in dedicating a session on thermal plasma chemistry in honor of the 75th birthday of Professor Emil Pfender. Professor Heberlein (U. Minn) will help attract the plasma chemistry community to attend and contribute to the session. Mike Mazzola will contact the leaders of the DIAL facility at MSU. Plasma physics and chemistry should be a focus of the session integrated with the applications. It is important that the traditional ICOPS crowd attend the session so some internal marketing is desirable. For example, the attendees need to know that this is a rare opportunity for them to hear directly from the best in the world who have elected to come to ICOPS for this event.
> 
> It's also important not to schedule parallel sessions in conflicting topical areas such as high-pressure arcs, environmental applications, and propulsion. Mike will look into minimizing conflicts. While the final call for papers is out to press now, Mike will update the ISCOPS website to note this special event. Furthermore, Mike has kindly offered a plenary lecture slot for Professor Pfender. Don Rej will extend the invitation after we reached our consensus.
> 
> Please review and let me know if I have summarized things correctly.
> 
> Thanks,
> Don
> 
> Don Rej, Acting Division Director
> Physics Division
> Los Alamos National Laboratory, MS-D434
> Los Alamos, NM 87545, USA
ph/fax (505) 665-1883/3644
http://www.lanl.gov/physics/
Dr. Mazzola (ICOPS2000 Conference Chairman),

I am writing to inform you of a desire to hold a "Plasma-Based Chem/Bio Decontamination" workshop at the New Orleans Fairmont Hotel on the day following ICOPS.

Plasma decon has become a hot topic which is beginning to receive a lot of attention from the DoD. This workshop will be sponsored by the Army Research Office (ARO). Dr. Stephen Lee, ARO program manager, has asked me to organize it. We would like to keep it a small, "by invitation only" meeting, so it does not need to be an official ICOPS event, however, I thought you should be aware of our plans. This would essentially be a follow-on to the "Ionized Gases" working group chaired by IEEE NPSS president, Igor Alexeff, at ElectroMed99.

I would appreciate the contact info of your conference coordinator so I can discuss meeting space logistics. Also, are the correct dates really June 4-7, 2000 (that's Sun-Wed, not the usual Mon-Thurs)?

sincerely,
Hans W. Herrmann

Hans W. Herrmann, Ph.D., LCDR (USNR, ONR S&T 304, Norfolk, VA)
P-24 Plasma Physics, M/S E526
packages -> TA-35, Bldg 86, Drop point 01U
Los Alamos National Laboratory
Los Alamos, NM 87545
ph/fax (505) 665-6157/3552
herrmann@lanl.gov
The Pulsed Power Science and Technology Technical Committee met in Albuquerque, New Mexico on October 27, 1999. The committee accepted the requested resignation of two of its members. These were the immediate resignation of Karl Schoenbach, who was unable to get travel funds to participate in committee activities and the resignation of Magne Kristiansen, effective December 31, 1999. The panel voted to add the following new members: Hulya Kirkici, Auburn University; Jane Lehr, Air Force Research Laboratory, James Dickins, Texas Tech University, and Dillon McDaniel, Sandia National Laboratories. The technical committee is still exploring potential candidates for appointment to the position of PPS&T Chairman, effective January 1, 2000. A recommendation for appointment to this position will be made to the NPSS President in November 1999.

Charles Stallings and Hugh Kirbie reported on the 1999 Pulsed Power Conference. The conference was a tremendous success both technically and financially. The actual conference attendance was 692, compared to a projected attendance of 500. The budget was $344,162 with a projected surplus of $34,000. The actual income was $435,379 with a currently projected surplus of $80,000. The conference proceedings are at the printers and final costs are being negotiated. There are 340 papers in the proceedings, which total approximately 1800 pages. We should have no trouble closing the conference out by the end of the calendar year.

Bob Reinovsky and Tom Hussey reported on plans for the combined pulsed power and plasma sciences conference in 2001. The conference date has been slipped two weeks to June 18 - 22, 2001 at the Rio Hotel in Las Vegas, Nevada. This change allowed the conference to reserve 1000 rooms at the government rate with no penalty if they are not all used. Based on recent individual conferences, very high attendance is expected. The conference will be fully integrated technically. The PPS&T Committee approved the proposed conference budget with minor changes. PPC and ICOPS personnel will meet on October 29, 1999 to share information from the 1999 conferences and integrate it into plans for the 2001 conference. The proposed budget will be forwarded to Ed Lambo as soon as it has also been approved by PSAC.

Edl Schamiloglu discussed plans for continuity and archiving of information on our conference and committee Web sites. Follow-up meetings are planned. Edl is managing our Web site and is also our newly elected NPSS AdCom member.
Hugh Kirbie, guest editor, reported on the next Special Pulsed Power Issue of the Transactions on Plasma Science. Past issues have contained 15 to 20 papers. As a result of very strong advertising for this next issue, 130 researchers have indicated plans to submit papers. We will not know the number of actual papers until after the close out date of November 30, 1999. Hugh has worked with Steve Gitomer on dealing with a larger issue that originally anticipated.

The committee discussed costs of attending PPS&T meetings and NPSS AdCom meetings and the decreasing organizational support available for such travel. We have planned in our conference budget to provide partial support and considered ways to minimize the cost of attending PPS&T meetings through location, timing and use of teleconferences. We hope that NPSS AdCom meetings will likewise be scheduled with cost as an important factor.
Radiation Effects Committee Report to IEEE/NPSS AdCom

Seattle, WA, 30 Oct 99

1. Financial close-out report from the 1998 NSREC

The conference books have been turned over to IEEE Operations Audit Department for final audit.

<table>
<thead>
<tr>
<th>Attendance</th>
<th>599</th>
</tr>
</thead>
<tbody>
<tr>
<td>Receipts</td>
<td>$410,514.</td>
</tr>
<tr>
<td>Expenses</td>
<td>$378,606.</td>
</tr>
<tr>
<td>Includes</td>
<td>TNS $19,860.</td>
</tr>
<tr>
<td></td>
<td>Audit Fee $1,807.</td>
</tr>
<tr>
<td>Net Projected Surplus</td>
<td>$3,1907.</td>
</tr>
<tr>
<td>Percentage of total expenses</td>
<td>8.4%</td>
</tr>
</tbody>
</table>

2. Summary report from the 1999 NSREC

The 1999 NSREC was held from July 12 to 16, 1999, at the Marriott Waterside Hotel in Norfolk, VA.

<table>
<thead>
<tr>
<th>Attendance: Total</th>
<th>601</th>
</tr>
</thead>
<tbody>
<tr>
<td>Paid Technical Session</td>
<td>449</td>
</tr>
<tr>
<td>Paid Short Course</td>
<td>384</td>
</tr>
<tr>
<td>International</td>
<td>88</td>
</tr>
</tbody>
</table>

Preliminary financial report:

<table>
<thead>
<tr>
<th>Projected Income</th>
<th>$428,413.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Actual Income</td>
<td>$427,763.</td>
</tr>
<tr>
<td>Yet to be received</td>
<td>$650.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Projected Expenses</th>
<th>$370,482.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Actual expenses</td>
<td>$337,982.</td>
</tr>
<tr>
<td>Conference record</td>
<td>$7,500.</td>
</tr>
<tr>
<td>TNS page charges</td>
<td>$25,000.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Projected Surplus</th>
<th>$57,931.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Percentage of expenses</td>
<td>15.6%</td>
</tr>
</tbody>
</table>
3. Plans for the 2000 NSREC

The 2000 NSREC will be held from July 24 to 28 at the Silver Legacy Resort in Reno, NV.

The Fall 1999 meeting of the Radiation Effects Steering Group was held on October 21 and 22 at the Reno site.

Conference activities are on schedule.

4. Report from the 2001 NSREC

The 2001 Conference General Chairman is Marty Shaneyfelt of Sandia National Labs. The venue for the 2001 NSREC will be the Westin Bayshore, Vancouver, British Columbia, Canada. The projected paid technical session attendance for 2001 is 500 at this time.

5. Report from the 2002 NSREC

The 2002 NSREC Conference General Chairman is Ken Hunt of the Air Force Research Laboratory. The 2000 conference will be held in mid-July 2002 at an as yet undetermined site.

6. Other notable events

The Radiation Effects Committee is happy to welcome Dr. Ken Galloway, Dean of Engineering at Vanderbilt University as the newest elected member of AdCom from the Radiation Effects community. Dean Galloway will begin his term in January 2000.

The terms of office of most of the current members of the Radiation Effects Steering Group (the ExCom of the Radiation Effects Technical Committee) will be expire on July 27, 2000. New members will be elected at a special election to be held in the early Spring of 2000. The current Executive Vice-Chairman of the RESG, Dale Platteter of the Naval Surface Warfare Center, Crane, Indiana, will automatically become Chairman of the NPSS Radiation Effects Technical Committee at that time.

Respectfully submitted,

Klaus G. Kerris
Chairman
IEEE NPSS Radiation Effects Committee
Committee Report to the AdCom
October 30, 1999

As reported at the last AdCom meeting, the 1998 NSS/MIC was closed with a net income of $87k, which is approximately $45k above the contingency. The reason for the large surplus was that at the time the conference was budgeted, we were not allowed to budget for income from Book Broker sales, which ended up being $47k. The General Chairman, Craig Woody, deserves congratulations on organizing a fantastic conference, managing the budget well, and closing out the conference in a very timely manner. The General Chairperson for the 1999 NSS/MIC, Orhan Nalcioglu, will be reporting separately on the status of that conference, but all signs indicate a successful conference. Patrick LeDu will be General Chairperson for 2000, which will be the first NSS/MIC to be held in Europe. While Patrick will report separately on this conference, I will state that he is doing an outstanding job organizing the support of the European community, which seems absolutely determined to outdo themselves for this conference. There are two items that are moving a little more slowly than I would like — I have not yet received a budget for approval (but am expecting one soon) and do not yet have a memorandum of understanding with CEA Saclay (who will be handling the finances). This delay for the MOU is largely due to IEEE Headquarters, who has yet to approve (or really even comment on) a draft version that we submitted to them over two months ago. Tony Lavietes of LLNL is General Chairperson for 2001, which will be held at the Town & Country in San Diego. As reported at the last AdCom meeting, a contract has been signed and that conference is on track. Joel Karp of University of Pennsylvania has been selected as General Chairman for the 2002 NSS/MIC. The sites have been narrowed down to Atlanta, Orlando, or Norfolk, and site visits are scheduled for next week.

The dates, locations, and General Chairpersons of upcoming NSS/MIC meetings are:

<table>
<thead>
<tr>
<th>Date</th>
<th>Location</th>
<th>General Chairperson</th>
<th>Email Address</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oct. 22-31, 1999</td>
<td>Westin Seattle Hotel, Seattle, WA</td>
<td>Orhan Nalcioglu, UC Irvine</td>
<td><a href="mailto:nalci@uci.edu">nalci@uci.edu</a></td>
</tr>
<tr>
<td>October, 2000</td>
<td>Lyon, France</td>
<td>Patrick LeDu, CEA Saclay</td>
<td><a href="mailto:ledu@hep.saclay.cea.fr">ledu@hep.saclay.cea.fr</a></td>
</tr>
<tr>
<td>November, 2-1, 2001</td>
<td>San Diego, CA</td>
<td>Tony Lavietes, LLNL</td>
<td><a href="mailto:lavietesl@llnl.gov">lavietesl@llnl.gov</a></td>
</tr>
<tr>
<td>October-November, 2002</td>
<td>Atlanta, Orlando, or Norfolk</td>
<td>Joel Karp, U. Penn</td>
<td><a href="mailto:karp@oasis.rad.upenn.edu">karp@oasis.rad.upenn.edu</a></td>
</tr>
</tbody>
</table>

The RISC Annual Meeting was held last Wednesday. A motion was passed to amend the RITC Constitution slightly. The most substantive change was to provide a two year (instead of one year) term for the Vice-Chairperson, who is Chairperson-elect. Presently there is one (who is Chairperson-elect) every other year and no Vice-Chairperson on the alternate year. We also took the opportunity to do a little clean-up and deleted a limit on the number of RISC members from a single institution, fixed a typo regarding TNS, made a few more nouns gender-neutral, and reduced the number of required functional sub-committees. We plan to submit this revised Constitution to AdCom next meeting for approval, and wish to consider this the “formal” notification necessary for such a submission.

I have approached two “independent” small conferences (-200 people each) to see if they would be interested in having NPSS co-sponsor their conference. One was discussed at the last AdCom meeting, and is a meeting on 3-D reconstruction techniques for medical imaging. The other is the “SCINT” conference series, which is on inorganic scintillator development. Both were receptive, and basically left the decision to the appropriate Conference Chairperson.

This will be my last report as Chairperson of the RISC — Glenn Knoll will assume the Chair on January 1. This is also the end of my term as an elected member of AdCom. I would like to take this
opportunity to thank the AdCom members for a very educational (and usually pleasant) experience, and especially thank Hal Flescher and Peter Clout for their patient tuition.

William W. Moses, Chairman
RITC Constitution: Amendments
October 30, 1999

Last year Article IV, Section 7 (appointed committee) was amended (removed as required) from the constitution. No other changes were done. Amendments were discussed and approved at the October 27, 1999 RITC meeting and are presented at this time for AdCom acceptance.

1) Bylaw 3. (Functional Sub-Committees):
   >3. Functional Sub-Committees: The Chairperson of the Committee, in concurrence with the RISC, shall appoint the Chairpersons for the following Functional Sub-Committees:
   - The Nuclear Science Symposium and Medical Imaging Conference (NSS/MIC) Oversight Committee.
   - A Fellows and Awards committee.
   - Other Sub-Committees as shall be required for the operation of the Committee.

2) Bylaw 6. (Institutional Affiliation)
   > 6. Institutional Affiliation: The RISC, representatives of the RISC on the Nuclear Science Symposium and Medical Imaging Conference Oversight Committee, and all other functional committees shall each contain no more than two individuals employed by the same institution. National corporations, U.S. Government agencies, and statewide universities are not institutions for purposes of this paragraph.

3) Article IV, Section 4a (term of the Vice-Chairperson):
   >(a) On alternate years a Vice-Chairperson (who shall be the Chairperson elect) is elected by the voting members of the RISC from the eligible members-at-large of the RISC. The term of office for the Vice-Chairperson shall be one-two years as Vice-Chairperson, followed by two years as Chairperson, and two years as the Most Recent Chairperson. No Vice-Chairperson will be elected the year following the election of a Vice-Chairperson.

4) Bylaw 1. (RISC)
   Reference is made to “NPSS Transaction on Nuclear Science” -- propose that “NPSS” be deleted.

5) An effort has been made to have the document be “gender less”; e.g., ChairPERSON etc. have been used. To follow up on this practice, the following changes are proposed.

   Article IV, Section 3a:
   The affairs of the Committee shall be managed by a Chairperson, as directed by the RISC and in accordance with his-the powers and duties as defined hereunder and in the Bylaws. In the event of the Chairperson’s absence or incapacity, his-the duties of the Chairperson shall be performed by a the Vice-Chairperson.

   Article IV, Section 4c:
   In the event that neither the Chairperson or the Vice-Chairperson is able to take office as prescribed in the Bylaws, or if both are incapacitated or if both offices become vacant, the RISC shall promptly elect an Acting Chairperson from among the members-at-large to assume the duties of Chairperson until either a Chairperson or Vice-Chairperson takes office or resumes office his duties.

   Article IV, Section 6:
   The Chairperson, as soon as expedient after their election, shall appoint the Chairmen of the sub-committees provided for in the Bylaws.
An American Visits Lyon

by Bill Moses

In May of 1999, I traveled from San Francisco to Lyon in order to participate in an organizing meeting for the 2000 NSS/MIC meeting, which will be held in the Palais des Congrès in Lyon. In many ways that trip was a “beta test” for conference attendees travelling to the NSS/MIC, and so I thought I would share my experiences with you.

First, I speak virtually no French — just what is left over from a two week “exposure” in junior high school some thirty years ago and what I have gleaned from menus since then. Although I travel a moderate amount domestically, I rarely travel out of the country. Thus, my general level of competence is fairly low. Finally, I work at LBNL and so followed DOE travel rules.

I planned to meet up with Patrick Le Du, the General Chairman in Paris and ride with him on the TGV (the high speed electric train) to Lyon. Therefore, I booked flights (on United) that departed San Francisco to Paris, then returned from Lyon to San Francisco via Paris. I priced this flight on a Friday afternoon at about $600, which was also the cost for the true round trip alternatives (i.e. SFO to Paris or Lyon round trip). All the itineraries that I explored had a Saturday night stay-over. I confirmed my travel plans with Patrick, then went to buy the tickets on the next Monday. Unfortunately, this delay meant that I bought the tickets less than 28 days before the flight rather than more than 28 days before the flight, and that caused the price to go up to $1000. Next time I’ll make plans a little sooner! When I received my tickets, I was surprised to find that the Lyon to Paris leg was actually on the TGV, not on an airplane. It would appear that you can 1) effectively book TGV trips through United and 2) not pay virtually nothing for them (remember that adding the Lyon leg didn’t affect the ticket price).

Although my ticket was from United, I somehow ended up on an airplane that said “Air France” on it. My flight into Charles De Gaulle airport was long but uneventful. Customs was a breeze, as was exchanging money using an ATM in the airport (or anywhere, for that matter) and my normal ATM card. All the ATM machines that I used had an English menu option, which was helpful. The Air France flights arrive at Terminal 2, which is the same terminal that the TGV station is in. The station was easy to find and all of the airport / train station personnel spoke English quite well (as did all the people in the hotels, restaurants, etc.). The plane for my return flight said “United” on it and departed from Terminal 1, which most of the US carriers seem to use. The route from Terminal 1 to the TGV station is much less obvious than it is from Terminal 2 (and includes a free shuttle bus ride that departs from the arrivals level of gate 26 and 28), but isn’t bad.

Due to a foul-up with my travel agent, I didn’t purchase my Paris to Lyon TGV ticket before leaving the US and so had to buy one after arriving in France. Not having a TGV reservation is no problem at all as tickets virtually never sell out. I could either buy the ticket from a ticket agent or with my credit card in one of the many ATM-like machines at the station (these also had an English menu option). Tickets were approximately $75 for second class and $100 for first class, and both are good options. I went second class from Lyon to Paris, and it was cleaner, quieter, and significantly more roomy than a standard airline flight. I went first class from Paris to Lyon, and it was a lot like getting an upgrade to first class on an airplane for only $25. That sure felt great, especially as I had just gotten off a long, overnight flight from the US.

I can’t say enough good things about the TGV in general. Although the raw speed lies between that of a car and an airplane, it tends to be significantly faster than air travel because 1) you start and end in the middle of the town instead of at an airport 30 minutes outside of the town and 2) boarding (and disembarking) is so fast that you can arrive at the station without a ticket 5 minutes before the departure time and still have the train depart (on time) with you on it. I don’t necessarily recommend this, but from personal experience I can vouch that it can be done! I did, however, have two snags with the TGV. First, there are two TGV stations in Lyon (three if you
count the one at the Lyon / Satofas airport) and I didn’t know which one to buy a ticket for. It turns out that the “Part-Dieu” station is closest to the conference hotels (an embarrassingly short cab ride), although the “Perrache” station is only about a mile farther away. The bottom fine on the stations is that you should go to whichever fits your schedule best, but if everything else is equal, use Part-Dieu. The second snag was that the TGV “ticket” that United included with the rest of my plane tickets wasn’t actually a ticket, but a voucher that needed to be exchanged at a TGV station for an actual TGV ticket. Unfortunately, this is something that I determined by a series of poorly controlled experiments (but still managed to make my train)!

Lyon does not have a hotel that is anywhere near large enough to house all of the NSS/MIC attendees. Therefore, the meeting will be held in the Lyon Palais des Congrès (ie. conference center), and we will arrange special fares at a number of hotels that range in price (and quality) from one to four stars. All of the hotels are in downtown Lyon and are within about a half mile of each other. The hotel that I stayed in was excellent. It was a 3 star hotel and the cost (approximately $80 per night) included a very nice continental breakfast. Although the room (and bed) was small by American standards, the quality and general ambience were equivalent to that of an American hotel costing two to three times as much.

The Palais des Congrès is about a mile away from the hotel area and is sandwiched between the Rhône River and the Parc de la Tête d’Or (the Lyon equivalent of Central Park). I took a bus from my hotel to the Palais des Congrès (the #4 bus fine, which ends at the Palais des Congrès) and that took about 20 minutes — half of the that time was waiting for the bus and half the time was actually spent on the bus. There are lots of public transit maps and ticket dispensers throughout Lyon and the public transit system is very easy to use. A single trip ticket is 8 Fr. (about $1.30), and can be used on the Metro, on the bus, or any combination (i.e. it allows unlimited transfers) as long as your trip lasts less than an hour and you don’t do a round trip with a “single” ticket. There are various other options, such as multi-trip or unlimited travel day passes. I walked back from the Palais des Congrès to my hotel along a jogging / bicycle path that borders the Rhône, and that took me 40 minutes.

All in all, getting there and back (and getting around) was pretty easy. My lack of French slowed me down a bit, but everybody that I talked to was quite willing to help out and often spoke enough English that we could work things out. The few pitfalls that I encountered I have described here, so hopefully you can avoid them. The real bottom line is that Lyon is a wonderful city and that you shouldn’t let potential travel difficulties or a language barrier prevent you from coming to enjoy the city and the conference!

**An estimate of travel costs by Patrick Le Dû:**

(Prices include local and VAT taxes)

- **Hotels:**
  - **** 4 and 5 stars (type Hilton Westin) $120
  - *** 3 stars (type Holiday Inn) $80 - $100
  - ** 2 stars (type Travelodge) $40 - $60
  - * 1 star (type Motel 6) $25 - $40
  - Student residence $15

- **Meals:**
  - Breakfast (continental) $6
  - Lunch (regular) $10-$15
  - Dinner (standard) $20-$25
  - Dinner (high level) $40-$60

**Conclusion:** a trip to Lyon will not be more expensive than to a US IEEE conference.
The organization is now progressing very rapidly. Our first milestone: the «first call for abstract» and its associated poster were distributed at Seattle.

**Logistic**: The final contract with the «Palais des Congrès» is under the control of the CEA administration after a review, it will be signed soon. Six «service companies» for the registration and local arrangement (hotel booking, local logistic, social program...) have been contacted: the selection will be done on November 9th. The company in charge to organize the exhibition is selected and start to work under the responsibility of the exhibition chairman (C. Parkman).

**Budget**: a preliminary survey including everything and based on 800 paying participants is under optimization. The present total budget is 5.1 MFF (around 785K$) where 25% are coming from various European grants (France, CERN, EEC, Italy, Germany, UK for the moment). More effort is needed to refine this budget.

**Organization**: The final organization is in place. It is logically divided into 3 committees (technical, scientific and «supportive/political/patronage»).

- the Executive committee chaired by P.G. Rancoita (INFN) is in charge of the logistic (communication, WEB, data management, finances, exhibition, technical support, local logistic...).
- the scientific coordination committee chaired by J.P. Dufey (CERN) that take care of the organization of the full program week. This committee is made of the short course chair (F. Sauli), the MIC chair (S. Larsson), the NSS chair (C. Damerell), the workshop chairpersons and the technical coordinators (S. Tavernier and P. Lecoq).
- the steering committee contains all the liaisons persons to the various institutes and countries.

**Next steps.**(November to December)

- The selection of the «convenors» for each one of the 35 scientific topics has already started and should be finalized by the end of the year.
- An updated version of the poster and the «call for abstracts» leaflet will be issued and mailed in December as well as a general email to the various communities.
- The WEB site will be reshuffled.

**Miscellaneous**

There is a concern about the new DOE travel rules that might affect the American NSS participation (?). In particular, some effort should be made by the IEEE organization to support students, postdoc and young physicists.

A 4th workshop is envisaged about “Advanced imaging in radiation therapy” under the chairmanship of...
Second Announcement

Nuclear Science Symposium and Medical Imaging Conference

LYON CONVENTION CENTRE FRANCE

OCTOBER 15-20, 2000

Radiation Detectors: Applications in Physics, Industry, Space and Medicine

Physics, Engineering and Mathematical Aspects of Medical Imaging

- Short-courses, educational courses and tutorials
- Oral presentations in plenary and parallel sessions
- Poster sessions
- Workshops
- An industry exhibition
- Visits to nearby laboratories (CERN, ESRF/LETI)

For more information visit our website at: http://NSS2000.mi.infn.it/

Second Announcement

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For more information visit our website at: http://NSS2000.mi.infn.it/
The scope of the two congresses together will cover a wide range of applications – from radiation detection and new detector materials, electronics and image reconstruction algorithms to complex radiation detector systems for physical science and advanced imaging systems for biological and medical research.

- Short courses, educational courses and tutorials
- Oral presentations in plenary and parallel sessions
- Poster sessions
- Workshops
- An industry exhibition
- Visits to nearby laboratories (CERN-Geneva and ESRF/LETI-Grenoble)

Emphasis will be put on interdisciplinary issues of the topics and on the transfer of technology between fundamental physics research, medical and biological imaging science and industrial applications. Scientists and engineers from a broad variety of application areas having common interests are invited to attend, in particular those from:

- Particle and Nuclear Physics
- Neutron Physics
- Aerospace and Astrophysics
- Structure of Matter
- Space Science
- Nuclear Power, Nuclear Waste Disposal
- Fusion and Plasma Sciences
- Industrial Environmental Applications

The NSS programme will start on Monday while the MIC sessions will begin on Wednesday with joint NSS-MIC sessions in parallel with MIC sessions. However, we recommend participation in the complete NSS-MIC programme to gain the interdisciplinary information and in educational courses and plenary sessions that will continue for the full week.

Scientific contributions are solicited describing original, previously unpublished work for the following topics:

**Radiation Detectors and Read-out Electronics**

- Semiconductors
- Gaseous Detectors
- Scintillators
- Photodetectors
- Calorimeters, dE/dx
- Time of Flight
- Cherenkov and Transition Radiation Detectors
- New Detectors
- Radiation Damage
General Electronics

- Generic analog and digital circuits
- Radiation hardness

System Aspects: Instrumentation, Data Analysis, Control Monitoring and Simulation for

- High Energy Physics and Nuclear Physics
- Astrophysics and Astroparticle Physics
- Synchrotron Radiation and Neutron Scattering
- Structure of Matter Studies
- Plasma Physics
- Nuclear Power
- Fusion Control
- Molecular Biology
- Radiotherapy
- Neutron Therapy
- Applications of Synchrotron Radiation

Trigger and Data Acquisition Systems

MIC-topics

- Emission Tomography, PET- and SPECT Instrumentation
- Multi-modality imaging devices
- Imaging Geometry and Collimator Design
- Attenuation and Scatter Correction Techniques
- Image Reconstruction Algorithms and Sequence Processing
- Simulation Tools and Instrumentation Modelling
- Quantitative and Parametric Imaging Techniques
- Intra-operative Probes and Small Imaging Devices
- Pixel Detector Devices
- X-ray CT and Digital Radiography
- Radiation Therapy Imaging
- Micro-tomography Imaging

Educational and Tutorials

Topical courses on subjects in nuclear science and medical imaging will be offered in conjunction with the two congresses. A preliminary list of covered subjects includes:

- Techniques for Particle Identification in High Energy Physics
- Position-sensitive Silicon Detectors, including Radiation Damage
- Instrumentation for Astrophysics, at ground and in flight
- Tomographic Methods in Medical Imaging

Further information on courses and registration will be provided in due time on the conference website.

Workshops

In addition to the usual "MIC workshops", presentations and discussions on specific topics will be organized as "one day workshops". The following subjects have already been announced:

- Science and Industry Technology Transfer
- Technologies for Gravitational Wave Detectors
- Event Building Technologies for Data Acquisition and Control (DAQ2000)

Exhibition

The industrial exhibition, traditionally held in parallel with NSS-MIC congresses, is scheduled to take a new dimension in Lyon. The magnificent facilities of the Lyon Convention Centre have allowed the NSS-MIC 2000 organizers to envisage a major expansion in the scope and ambition. The two-and-a-half day event (October 18-20) is designed primarily to complement the conference, with the presence of major suppliers in the fields of nuclear science and medical imaging, as well as related domains such as real-time computing, controls and design automation. It will be the focus of interaction between representatives of industry and the
Call for Papers

Authors are invited to submit papers describing original, previously unpublished work in the topic areas listed above. To that purpose, they shall provide the following documents (in English):

CI An abstract including the title of the presentation, the author(s) and a short presentation of the subject (limited to approximately 100 words).

☐ A summary with a maximum length of 2 pages, including figures, tables, references. This summary will be the basis for paper selection and, as such, should properly describe the relevance and important conclusions of the work.

☐ A cover letter stating the title of the paper, its main author and the co-authors, together with the contact information for the main author (institute, address, telephone and fax numbers, e-mail address). The letter must indicate preference for oral, workshop or poster presentation and identify the topic under which the paper falls.

These documents shall be submitted electronically according to the instructions that will be posted in due time on the conference website. Paper acceptance will be subject to a review process.

The deadline for paper submission is April 30, 2000.

The programme committee will notify authors of acceptance or refusal during the month of June 2000.

Publications

The title and authors of accepted papers will appear in the Conference Programme Booklet. The abstracts will be published in a volume that is handed out to participants on arrival at the conference. Full paper texts will be published in the Conference Records, a non-refereed journal of the conference proceedings, on compact disc only.

In addition, authors may submit their papers to the Conference issue of the IEEE Transactions on Nuclear Science (TNS) or IEEE Transactions on Medical Imaging (TMI). Both are peer reviewed journals with significant distribution within the nuclear science and medical imaging communities.

Please take note that full text papers for publication in the Conference Records and in TNS or TMI must strictly adhere to the IEEE formatting instructions that can be found on http://www-ese.fnal.gov/ieee_tns/confedit/authtbl.htm.
First Announcement and Call for Papers

2000 IEEE
Nuclear Science Symposium
and
Medical Imaging Conference

Lyon Convention Centre (Palais des Congres), Lyon, France

October 15-20, 2000

The Nuclear Science Symposium and Medical Imaging Conference (NSS-MIC) is an annual international event that brings together the scientific communities designing and utilizing new radiation detector systems for fundamental physics research and advanced medical imaging. Ever since its founding in 1948 this congress has been held in North America under the patronage of IEEE (the Institute of Electrical and Electronics Engineers), the world’s largest professional engineering association, consisting of some 300,000 members. For the first time the IEEE society responsible for this congress (the Nuclear and Plasma Sciences Society) has entrusted the organization of the year 2000 edition to Europe.

The two congresses will take place in France, at Lyon Convention Centre, October 15-20, 2000. For this occasion the various European scientific communities that are active in the disciplines covered by the conference will contribute to its organization. At present they are: CEA, CNRS / IN2P3 for France, INFN, INFM for Italy, CLRC, Daresbury and Rutherford for the United Kingdom, FZJ-Juelich for Germany and CERN for Europe.
Lyon, a prestigious site for NSS-M/C 2000!

Lyon is situated one-and-a-half hours by car from Geneva (CERN) and two hours from Paris by high-speed train (TGV). Capital of the Gauls under the Romans, a great cultural and merchant city during the Renaissance, a powerful industrial breeding ground in the 19th century, Lyon has become the European metropolis it is today by happily combining the best aspects of its historical influence. From the Gallo-Roman splendours to the splendour of silk, Lyon has a remarkable intellectual and architectural heritage. The city itself is an invitation to stroll and wander. With its squares and "traboules", and the banks of the Rhone and Saône, with its shops, its art galleries, its craftsmen and markets, Lyon was and remains an essential destination for discerning gourmets from around the world. For the capital of gastronomy draws deliciously on the produce of the generous, sun-drenched countryside outside its door, restaurants great and small rub shoulders, united in their love of good food. The wines include delicious vintages from the prestigious vineyards of neighbouring Burgundy, the Côtes du Rhone and the Beaujolais. Taste buds at the ready!

This call for papers acts as a first announcement. Details of registration as well as other practical information (local logistics, accommodation) will be available in due time on the web site of the Conference:

http://NSS2000.mi.infn.it/

NSS-MIC Conference Chairman:
Patrick Le DO
DAPNIA/SPP
CEA Saclay
F-91 191 Gif/Yvette, CEDEX
ledu@hep.saclay.cea.fr

MIC Conference Chairman:
Stig Larsson
Karolinska Hospital
Department of Hospital Physics
SE-1 71 76 Stockholm, Sweden
stiq@nucmed.ks.se

NSS Conference Chairman:
Chris Damerell
Particle Physics Department
Rutherford Appleton Laboratory
Chilton Didcot, Oxon, UK, OX11 0QX
C.J.S.Damerell@rl.ac.uk
Meetings Committee Report to AdCom
October 30, 1999

The Meetings Committee held its annual meeting on October 28, 1999. Attendees were the two Co-Chairs, R. Larsen and L. Costrell, plus K. Dawson, E. Heijne, and A. Larsen. It was pointed out that there was a schedule conflict with an RITC meeting that prevented some people from coming. We prefer to believe that the low attendance is an indication that the Committee has its major tasks under good control. These include promulgation of the Meetings Policy Procedure document via the World Wide Web, the listing of future meetings and key personnel, and the distribution of information to new conference chairs and program chairs.

The Policy Document is now on the web and can be accessed through the IEEE-NPSS home page. The direct URL was listed in the invitation to our meeting and can be obtained from Lou Costrell.

The NPSS document is complementary to the IEEE Meetings Organization Manual (MOM) which was released about two years ago. The NPSS document is controlling in that certain required procedures are different from the generic instructions of the MOM. The MOM on the other hand contains a more or less compete recipe for organizing an IEEE conference, which the NPSS document does not do. Knitting these two documents into a readable and consistent whole is a problem for an inexperienced conference chair. Currently this is attempted through forward references from the NPSS document, but the Committee is considering that a more integrated approach is necessary. This would involve a better overall organization of the NPSS-MOM combination document, possibly integrating into a single document (e.g. putting the NPSS section as the first section in the MOM itself), as well as offering a formal workshop for new chairs and program chairs. Since both documents are available in electronic format this should be feasible.

The following suggestions were made for improvement of the guideline document:

1. Publicity: We need to call out more strongly that conferences need a Publicity person who will work to meet important deadlines throughout the phase of the Conference, from Call for Papers to final reporting on the overall achievements of the conference. One important initiative will be to schedule Newsletter submittal deadlines for each of our scheduled conferences along with a brief description of materials required for each deadline. The task goes beyond this, however, into publicity in other IEEE and external publicity organs. It would be good if each conference or TC would appoint a publicity person who could serve over a three or four year period, because this is an increasingly vital task that should not be done haphazardly (as it is now for a some conferences).

2. “European” Procedures: Conference held in Europe and other offshore countries operate by a set of rules tailored to the situation of each conference. We need to describe a typical process and how basic IEEE requirements are met with regard to MOUs,
cost/results sharing and liabilities, publications etc. We will approach this by getting together the people who have operated these conferences in our recent history and capture their experience in a short set of guidelines.

3. Overall Organization and Tasks: In connecting to the MOM, the overall structure of the conference team needs to be highlighted early in our document. (An afterthought: In addition, it would be ideal if the incoming chair could be involved in the previous meeting in a significant way so that hand-off would be without a major discontinuity.)

4. Updating the Policy: Our intention is to update the document annually, and post it on the Web as the major method of dissemination, along with notification to the Conference mailing list.

Respectfully,

Ray Larsen & Louis Costrell
11 September 1999

To: Distribution 5156-Mtg9907A.09 (back of this notice)

From: Ray Larsen and Louis Costrell

Subjects: (A) NPSS Conference Policy Committee Meeting October 1999
          (B) Policy Procedures for NPSS Conferences

You are invited to the annual meeting of the NPSS Conference Policy Committee (CPC) that will be held in conjunction with the October 26-30, 1999 NPSS Nuclear Science Symposium/Medical Imaging Conference in Seattle, Washington. The meeting will be on Thursday, October 28, 1999 from 5:00 pm to 6:00 pm in the WHIDBEY ROOM of the Westin Hotel, Seattle.

The latest version of the policy document, dated 12/1998, has been posted on the web by Ken Conner at RPI. It is linked to the IEEE NPSS web page. If you do not already have this latest version, please copy it from the web. If you cannot access the web, contact Louis Costrell at NIST (Louis.costrell@nist.gov Tel:301-975-5608, FAX: 301-869-7682) who will mail you a hard copy.

The web page is URL http://www.ieee.org
You can find the document by pushing the buttons:
Societies/Nuclear & Plasma Sciences/NPSS
Meetings/Meetings Documents/NPSS Conference Policy Procedure.

At the same meetings address you will find the IEEE Meetings Organization Manual, Financial, Insurance, Publications and Information Schedule forms.

Alternatively, you can type in the direct URL for the Policy Procedure as follows:

IMPORTANT: Please consider the NPSS Conference Policy Procedures the controlling document since it contains instructions for the handling of various forms that do NOT always agree with the what you will read in the more generic IEEE Meetings Organization Manual. For example, certain forms need to be approved by NPSS officers BEFORE they go to IEEE Headquarters, and the NPSS Policy Procedures document contains additional forms not found in the IEEE generic manual.

You may find it helpful to bring your copy of the Policy Procedures to the meeting. Please let Ray know if you plan to attend. Ray's FAX and e-mail numbers are:

FAX: 650-926-5124
E Mail: larsen@slac.stanford.edu

(over)
July 1999 Distribution List for NPSS Conference Policy Procedures and invitation to CPC meeting in October in Seattle, WA

<table>
<thead>
<tr>
<th>Name</th>
<th>Position/Role</th>
</tr>
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<tbody>
<tr>
<td>Igor Alexeff</td>
<td>President</td>
</tr>
<tr>
<td>Ronald Jaszczak</td>
<td>Past President</td>
</tr>
<tr>
<td>Albe Dawson Larsen</td>
<td>Secretary NPSS</td>
</tr>
<tr>
<td>Edward J. Lampo</td>
<td>Treasurer</td>
</tr>
<tr>
<td>Raymond S. Larsen</td>
<td>Ch CPC</td>
</tr>
<tr>
<td>Louis Costrell</td>
<td>CoCh CPC</td>
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<tr>
<td>Glenn Knoll</td>
<td>EdChf</td>
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<tr>
<td>W. Kenneth Dawson</td>
<td>Ed NwsLtr</td>
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<td>Chuck L. Britton</td>
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<td>Ed Trans Plasma Sci</td>
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<td>Paul V. Dressendorfer</td>
<td>Ed TNS</td>
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<td>Edward J. Hoffman</td>
<td>Ed MIC Conf</td>
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<tr>
<td>A. Bertrand Brill</td>
<td>TMI Steering</td>
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<tr>
<td>Lee J. Wagner</td>
<td>Keeper of the Procedures</td>
</tr>
<tr>
<td>Thomas Koslowski</td>
<td>Ch CANPS Comm</td>
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<tr>
<td>Gary T. Alley</td>
<td>Ch Education Comm</td>
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<tr>
<td>Paul Phelps</td>
<td>Past Ch Education Comm</td>
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<tr>
<td>William M. Bugg</td>
<td>Ch Nuclear Instrments &amp; Detectors</td>
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<tr>
<td>Richard J. Foley</td>
<td>Ch Fusion Technology</td>
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<td>Anna M. Celler</td>
<td>Ch NuMed Comm</td>
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<td>Mathew Allen</td>
<td>Ch ParAcc Comm</td>
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<td>Virginia M. Ayres</td>
<td>Ch Particle Sci &amp; Applications</td>
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<td>William. L. Baker</td>
<td>Ch Pulsed Power Com</td>
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<td>Klaus G. Kerris</td>
<td>Ch Rad Effects</td>
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<td>William M. Moses</td>
<td>Ch Rad Instr Comm</td>
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<td>Clinton L. Lingren</td>
<td>Ch Reactor Instr &amp; Control</td>
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<td>Robert Siemann</td>
<td>Ch 2003 PAC</td>
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<td>Robert Fedosejevs</td>
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<td>Roland L. Pease</td>
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<td>Michael Ulrickson</td>
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<td>Orhan Nalicoglu</td>
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<td>Michael Craddock</td>
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<tr>
<td>Erik Heijne</td>
<td>CERN</td>
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</table>

CERN Address Labels: 5129A-NP99D1,2,3,4
NPSS AdCom Awards Committee Report

Peter Clout

10/30/99

Nominations for the Early Achievement Award, the Shea Award, the Merit Award and the Graduate Scholarship Award have been received and the committee has made the selections. They are:

Graduate Scholarship Awards

$500 and a certificate and one year of NPSS membership (2000)

Chiara Guaioni, Politecnico di Milano

Patrick La Riviere, University of Chicago

Early Achievement Award

$7,800 and a Plaque and Certificate

Dr. Melissa Douglas, Sandia National Laboratory, Albuquerque

“For significant contributions to the understanding and mitigation of Rayleigh-Taylor instabilities in Z-pinch implosions which have led to higher power x-ray sources for ICF and other applications."

To be presented at the /COPS meeting in June

Merit Award

$2,000 and a Plaque and Certificate

Erik Heijne, CERN

“For vision and leadership in applying silicon technologies to the development of new and important detector systems for High Energy Physics."

To be presented at the Nuclear Science Symposium in Seattle, 26th October 1999.

Shea Award

$2,000 and a Plaque and Certificate

Ray Larsen, SLAC
“For many innovative and long-lasting contributions to the success of the IEEE Nuclear and Plasma Sciences Society and for sustained concern and action regarding the ethical issues facing the electrical engineering profession.”

To be presented at the Nuclear Science Symposium in Seattle, 26th October 1999.

Some time ago we voted the Paul Phelps Continuing Education Grant of up to $4,000 for all recipients mostly for tuition in NPSS Sponsored Short Courses but in selected cases also for partial travel expenses to NPSS Short Courses. I am not aware that any grants have been made. Is this the case and if so, should we encourage such grants in the future?

I have nothing to report on the TAB Awards Committee.

Respectfully submitted,

Peter Clout
AdCom Report  
Continuing Education Committee  
10/30/99  
submitted by Gary T. Alley (chair)  

Report on 1999 NSS/MIC Short Course Program  

The 1999 Nuclear Science Symposium short course program is shown in the table below. The program offerings included three courses targeted toward the nuclear science community and two courses for the medical imaging community.  

Attached are the summary evaluations for the courses and the overall NSS short course history. Evaluations for the Dynamic Functional Imaging course were not done in class and will be done by mail.  

<table>
<thead>
<tr>
<th>Title</th>
<th>Organizer</th>
<th># registered</th>
</tr>
</thead>
<tbody>
<tr>
<td>Radiation Detection &amp; Measurement</td>
<td>Glenn Knoll</td>
<td>27</td>
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<tr>
<td>Integrated Circuit Front-Ends for Nuclear Pulse Processing</td>
<td>Chuck Britton</td>
<td>30</td>
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<tr>
<td>Pixel Detectors for Nuclear and Particle Physics</td>
<td>Jeff Appel</td>
<td>34</td>
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<tr>
<td>Topics in the Mathematics of Computed Tomography</td>
<td>Harrison Barrett</td>
<td>42</td>
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<tr>
<td>Dynamic Functional Imaging</td>
<td>Anna Celler</td>
<td>14</td>
</tr>
<tr>
<td><strong>Total Attendees</strong></td>
<td></td>
<td><strong>147</strong></td>
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</table>

Report of NPSS Education Committee Meeting  

The NPSS Education Committee met Thursday, October 28, 1999 from 11:30am to 1:00pm. A summary of the minutes is listed below.  

- Summary evaluations from the 1999 NSS short course program were distributed and discussed.  
- Patrick Le Du (general chair of the 2000 NSS/MIC) Fabio Sauli (short course program chair) attended the meeting to get information about potential courses for the meeting in Lyon, France. Sauli presented ideas for courses already being considered. Many suggestions were given by those attending about additional courses, especially in the medical imaging arena. Bill Moses and Anna Celler will serve as resource persons to Sauli about specific medical imaging topics that may be of interest and possible organizers of those courses. Gary Alley will serve as a resource person as well.
<table>
<thead>
<tr>
<th>NSS Year/Location</th>
<th>COURSE TITLE</th>
<th>LOCATION</th>
<th>ORGANIZER/COORDINATOR</th>
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<tbody>
<tr>
<td>1 1974 Wash DC</td>
<td>Instrumental Methods for Water Measurements and Monitoring</td>
<td>NBS/Md</td>
<td>D. Mack</td>
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<tr>
<td>2 1975 SF</td>
<td>Nuclear Cardiology</td>
<td>UCSF</td>
<td>L. Kaufman D. Shames</td>
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<tr>
<td>3 1975 SF</td>
<td>Radionuclides in the Environment: Measurements and Monitoring</td>
<td>SLAC</td>
<td>P. Phelps J. McLaughlin</td>
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<tr>
<td>4 1976 New Orleans</td>
<td>3-D Image Reconstruction</td>
<td>Braniff-Palace</td>
<td>A. Brill</td>
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<td>5 1977 SF</td>
<td>Semiconductor Detectors</td>
<td>LBL</td>
<td>F. Goulding</td>
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<tr>
<td>6 1977 SF</td>
<td>Microcomputer Application</td>
<td>Sheraton-Palace</td>
<td>A. S tripeika</td>
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<tr>
<td>7 1977 SF</td>
<td>Cardiovascular Nuclear Medicine</td>
<td>UCSF</td>
<td>L. Kaufman</td>
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<td>8 1977 SF</td>
<td>Acquisition, Processing, and Display of Medical Images</td>
<td>UCSF</td>
<td>G. Knoll</td>
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<td>9 1979 SF</td>
<td>Semiconductor Detectors</td>
<td>Sheraton-Palace</td>
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<td>10 1979 SF</td>
<td>Nuclear Magnetic Resonance Imaging for Physicians and Engineers</td>
<td>Sheraton-Palace</td>
<td>L. Crooks L. Kaufman</td>
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<tr>
<td>11 1979 SF</td>
<td>An Introduction to Nuclear Waste Management and Storage</td>
<td>Sheraton-Palace</td>
<td>P. Phelps</td>
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<tr>
<td>12 1980 Orlando</td>
<td>An Introduction to Fiber Optics</td>
<td>Sheraton-Twin Towers</td>
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<td>15 1981 SF</td>
<td>Semiconductor Detectors</td>
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<tr>
<td>16 1981 SF</td>
<td>Imaging Technologies for the Detection and Quantification of Arteriosclerosis</td>
<td>Sheraton-Palace</td>
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<td>Environmental Radiation Measurement and Monitoring for Nuclear Facilities</td>
<td>Sheraton-Palace</td>
<td>J. McLaughlin N. Wogman</td>
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<td>19 1982 Wash DC</td>
<td>FASTBUS</td>
<td>Shoreham</td>
<td>L. Costrell</td>
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<td>NSS Year/Location</td>
<td>COURSE TITLE</td>
<td>LOCATION</td>
<td>ORGANIZER/COORDINATOR</td>
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<td>20 1983 SF</td>
<td>Radiation Detection and Measurement</td>
<td>Sheraton-Palace</td>
<td>G. Knoll</td>
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<td>21 1983 SF</td>
<td>FASTBUS</td>
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<td>L. Costrell</td>
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<td>22 1983 SF</td>
<td>Human Factors Engineering</td>
<td>Sheraton-Palace</td>
<td>R. Rousseau</td>
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<td>23 1983 SF</td>
<td>NMR Imaging</td>
<td>Sheraton-Palace</td>
<td>A. H. Cho</td>
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<td>24 1984 Orlando</td>
<td>Digital Signal Processing</td>
<td>Sheraton-Twin</td>
<td>J. Candy</td>
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<td>26 1984 Orlando</td>
<td>Timing Spectroscopy</td>
<td>Sheraton-Twin</td>
<td>B. Leskovar</td>
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<td>27 1984 Orlando</td>
<td>Personal Computers in Nuclear Instrumentation</td>
<td>Sheraton-Twin</td>
<td>F. Kirsten</td>
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<td>29 1985 SF</td>
<td>NMR Imaging</td>
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<td>30 1985 SF</td>
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<td>31 1985 SF</td>
<td>Signal Processing for Radiation Detectors</td>
<td>Sheraton-Palace</td>
<td>V. Radeka</td>
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<td>32 1985 SF</td>
<td>Air Monitoring and Sampling</td>
<td>Sheraton-Palace</td>
<td>K. Swinth</td>
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<td>33 1986 Wash DC</td>
<td>Radiation Damage in Semiconductor Device</td>
<td>Shoreham</td>
<td>E. Heijne</td>
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<td>34 1986 Wash DC</td>
<td>Human Factors Concepts for Nuclear Facilities</td>
<td>Shoreham</td>
<td>N. Saks</td>
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<td>35 1986 Wash DC</td>
<td>Photomultipliers Avalanche Photodiodes and Multi-channel Plates</td>
<td>Shoreham</td>
<td>D. Persyk</td>
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<tr>
<td>36 1986 Wash DC</td>
<td>Emission Tomography: Theory, Instrumentation, and Application</td>
<td>Shoreham</td>
<td>E. Hoffman</td>
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<td>37 1986 Wash DC</td>
<td>Fabrication of Microstructures for Physics Experiments</td>
<td>Shoreham</td>
<td>C. Lim</td>
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<td>38 1986 Wash DC</td>
<td>Radiation Detection and Measurement</td>
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<td>G. Knoll</td>
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<td>39 1987 SF</td>
<td>Programming Techniques for Applications in Artificial Intelligence</td>
<td>Sheraton-Palace</td>
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<td>Imaging Devices &amp; Applications</td>
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<td>41 1987 SF</td>
<td>Fiber and Integrated Optics</td>
<td>Sheraton-Palace</td>
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<td>How to Grab Your Technical Audience From Overhead</td>
<td>Sheraton-Palace</td>
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<td>Radiation Detection &amp; Meas.</td>
<td>Sheraton-Palace</td>
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<td>45 1988 Orlando</td>
<td>Accurate Analog Measurement On a Slim Budget</td>
<td>Hyatt Orlando</td>
<td>E. Fairstein</td>
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<td>46 1988 Orlando</td>
<td>Nuclear Medical Imaging- Single Photon Techniques</td>
<td>Hyatt Orlando</td>
<td>R. Jaszczak</td>
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<td>47 1988 Orlando</td>
<td>Nuclear Medical Imaging - PET Imaging Techniques</td>
<td>Hyatt Orlando</td>
<td>R. Nutt</td>
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<td>48 1988 Orlando</td>
<td>Counting Statistics and Error Prediction</td>
<td>Hyatt Orlando</td>
<td>G. Knoll</td>
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<td>49 1988 Orlando</td>
<td>FASTBUS - Modular High Speed Data Acquisition System</td>
<td>Hyatt Orlando</td>
<td>L. Costrell</td>
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<td>50 1989(90) SF</td>
<td>Radiation Effects and Hardening</td>
<td>Hilton</td>
<td>S. Kerns</td>
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<td>Optoelectronic Devices</td>
<td>Hilton</td>
<td>G. McWright D. Persyk</td>
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<td>Hilton</td>
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<td>Advanced Electronic Packaging</td>
<td>Hilton</td>
<td>R. Hersey B. Turko R. Downing</td>
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<td>Data Acquisition Design Tools</td>
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<td>D. Gustavson</td>
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<td>The Scalable Coherent Interface</td>
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<td>Analog-to-Digital Conversion Techniques</td>
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<td>63 1991 Santa Fe</td>
<td>Analog-to-Digital Conversion Techniques</td>
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<td>B. Turko</td>
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<td>64 1991 Santa Fe</td>
<td>Photomultipliers: Fundamentals and Practice</td>
<td>Eldorado</td>
<td>D. Persyk</td>
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<td>65 1991 Santa Fe</td>
<td>Radiation Effects on Accelerator Electronics and Detectors</td>
<td>Hilton</td>
<td>P. Winokur</td>
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<td>66 1991 Santa Fe</td>
<td>Designing Application-Specific Integrated Circuits</td>
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<td>In-Situ Gamma-Ray Spectroscopy for Site Characterization</td>
<td>Eldorado</td>
<td>J. Selby</td>
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<td>70 1992 Orlando</td>
<td>Imaging Technologies, Algorithms, and Applications</td>
<td>Hyatt-Orlando</td>
<td>J. Brase</td>
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<td>71 1992 Orlando</td>
<td>Advanced CAE Tools &amp; Design Implementations</td>
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<td>Laser Technology in Nuclear Science</td>
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<td>A. Throop</td>
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<td>Photomultipliers</td>
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<td>Fundamentals of Medical Imaging</td>
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<td>W. Moses</td>
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<td>76 1993 SF</td>
<td>Interaction of Radiation w/Matter</td>
<td>Sheraton-Palace</td>
<td>D. Camp</td>
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<td>77 1993 SF</td>
<td>Radiation Detection &amp; Meas.</td>
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<td>78 1993 SF</td>
<td>Introduction to Design of Application-Specific Integrated Circuits</td>
<td>Sheraton-Palace</td>
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<td>Photomultipliers</td>
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<td>80 1993 SF</td>
<td>Extraction of Functional Information Using PET and NMR</td>
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### NSS Short Course History 1974-1999 - Continued

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<th>NSS Year/Location</th>
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<td><em>In-Situ</em> Gamma-Ray Spectroscopy for Site Characterization</td>
<td>Sheraton-Palace</td>
<td>K. Miller</td>
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<tr>
<td>83 1994 Norfolk</td>
<td>Introduction to Semiconductor Detectors and Systems: Lecture &amp; Lab</td>
<td>Marriott Waterside</td>
<td>M. Bauer</td>
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<tr>
<td>84 1994 Norfolk</td>
<td>Photonics for Nuclear Science</td>
<td>Marriott Waterside</td>
<td>B. Bernacki</td>
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<tr>
<td>85 1994 Norfolk</td>
<td>Photomultipliers</td>
<td>Marriott Waterside</td>
<td>D. Persyk</td>
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<tr>
<td>86 1994 Norfolk</td>
<td>Theoretical and Practical Aspects of Image Reconstruction for Volume PET Scanners</td>
<td>Marriott Waterside</td>
<td>D. Townsend</td>
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<td><em>In-Situ</em> Gamma-Ray Spectroscopy for Site Characterization</td>
<td>Marriott Waterside</td>
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<tr>
<td>88 1995 SF</td>
<td>Interaction of Radiation with Matter (19)</td>
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<td>Advanced Photodetectors (34)</td>
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<td>93 1995 SF</td>
<td><em>In-Situ</em> Gamma-Ray Spectroscopy for Site Characterization (11)</td>
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<td>K. Miller</td>
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<td>94 1995 SF</td>
<td>Fundamentals of Medical Imaging (37)</td>
<td>Hyatt Regency</td>
<td>W. Moses</td>
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<td>95 1995 SF</td>
<td>Silicon Detectors for Particle Physics (24)</td>
<td>Hyatt Regency</td>
<td>W. Bugg</td>
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<td>97 1996 Anaheim</td>
<td>Semiconductor Detectors in Particle Physics Experiments (26)</td>
<td>Marriott</td>
<td>E. Heijne</td>
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<td>Course Number</td>
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<td>Title</td>
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<td>100</td>
<td>1996</td>
<td>Anaheim</td>
<td>The new VME64 Extensions Standard, Related VSO &amp; IEEE Standards &amp; VME International Physics Association (VIPA) Activities (10)</td>
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<td>101</td>
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<td>Anaheim</td>
<td>Photomultipliers (12)</td>
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<td>102</td>
<td>1996</td>
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<td>Functional Brain Imaging (21)</td>
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<td>103</td>
<td>1997</td>
<td>Albuquerque</td>
<td>Detectors for High-Energy Physics (10)</td>
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<td>104</td>
<td>1997</td>
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<td>Radiation Detection &amp; Measurement (42)</td>
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<td>107</td>
<td>1997</td>
<td>Albuquerque</td>
<td>Photomultipliers (6)</td>
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<td>110</td>
<td>1998</td>
<td>Toronto</td>
<td>Integrated Circuit Front Ends for Nuclear Pulse Processing (70)</td>
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<td>111</td>
<td>1998</td>
<td>Toronto</td>
<td>VME64 Extensions and VME International Physics Association (5)</td>
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<td>112</td>
<td>1998</td>
<td>Toronto</td>
<td>Statistical Methods for Image Reconstruction and Medical Imaging System Design (71)</td>
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<td>113</td>
<td>1998</td>
<td>Toronto</td>
<td>Dynamic Functional Imaging (38)</td>
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<td>115</td>
<td>1999</td>
<td>Seattle</td>
<td>Pixel Detectors for Nuclear and Particle Physics (34)</td>
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<tr>
<td>117</td>
<td>1999</td>
<td>Seattle</td>
<td>Topics in the Mathematics of Computed Tomography (42)</td>
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<tr>
<td>118</td>
<td>1999</td>
<td>Seattle</td>
<td>Dynamic Functional Imaging (14)</td>
</tr>
</tbody>
</table>

Updated 10/27/99
Course Title: **Pixel Detectors for Nuclear and Particle Physics**

Number of students: 34  
Number of respondents: 29

**YES**

4. Did the course meet your expectations?  
   90%

5. Was this course worth your time and money?  
   90%

6. Relative to the course description, was the level of instruction correct?  
   93%  
   Too Low? 3%  
   Too High? 3%

7. Should the class be taught again:  
   - at the same level? 62%  
   - at a higher level? 31%  
   - at a lower level? 3%

8. Would you like to see courses given in the following areas:  
   - Interaction of Radiation with Matter 31%  
   - Radiation Measurement Techniques 48%  
   - Environmental Remediation 14%  
   - Detectors for Nuclear and/or High Energy Physics 52%  
   - Photonics for Nuclear Science 62%  
   - Medical Imaging Techniques 66%  
   - Analog/Digital Electronics for Nuclear Science 76%  
   - Nuclear Reactor Technologies and Issues 14%

**Other short courses desired:**

- A course on CdZnTe detector theory and applications.  
- System design for large detectors/HEP projects (cooling, layout, interconnect, etc.).  
- HPDs, etc.  
- Grounding and shielding techniques in detector systems for low noise applications. For example, large detector systems.  
- Overview of detectors used in Medical Imaging.  
- Medical Imaging Electronics.  
- Electronics “Infrastructure” in HEP: Power Supplies, Power Distribution, Fieldbus, timing, cooling, grounding & shielding, etc.  
- Advanced signal processing.  
  - “Review of” or “Introduction to” electronics design for solid state detectors.

**Comments welcomed:**

Overhead transparencies available via IEEE web page, for members perhaps?  
Is possible to make the slides available approximately a week before the class?  
I enjoyed the class. The instructors knew their material very well.  
Colors are nice but… if you are color blind (or just “partially” color blind) some of the information will be invisible. Please try not to use colors like red or green.  
The “detector” side was not treated. I mean: the interaction of the detector and the particle and radiation to detect the performance of the various realizations existing in the research field (efficiency, spatial and energy resolution, number of pixels, surface, range of energy).  
Finally, a brief comparison with other types of detector (non pixel) and their performance.  
This course should cover non-HEP applications of Si detectors too, e.g., imaging, spectroscopy.  
Good Job!  
About the cost of registrations, short courses, hotels, etc., I notice that NSS is getting more
and more expensive over the years - maybe we should choose locations that offer lower costs.
The pixel sensor development portion should have included the signal formation and the normal operation electrical response issues mentioned in the course description. I liked Sergio Zimmermann's realistic approach.
Course Title: Radiation Detection and Measurement

Number of students: 27
Number of respondents: 27

4. Did the course meet your expectations? 89%
5. Was this course worth your time and money? 93%
6. Relative to the course description, was the level of instruction correct? 89%
   Too Low? 7%
   Too High? 11%
7. Should the class be taught again:
   at the same level? 74%
   at a higher level? 22%
   at a lower level? 0%
8. Would you like to see courses given in the following areas:
   Interaction of Radiation with Matter 37%
   Radiation Measurement Techniques 56%
   Environmental Redemption 15%
   Detectors for Nuclear and/or High Energy Physics 48%
   Photonics for Nuclear Science 30%
   Medical Imaging Techniques 52%
   Analog/Digital Electronics for Nuclear Science 48%
   Nuclear Reactor Technologies and Issues 7%

Other short courses desired:
   Physics of emission CT
   Detection systems
   A slightly more introductory course in noise analysis
   Application of radiation measurements
   Semi conductors
   Physics of emission CT
   Physics of transmission CT

Comments welcomed:
   Pulse processing was too rushed and too detailed.
   Pulse processing was too high.
   Dr. Spieler spent too much time on the math and not enough on applicable results.
   The level of instruction was correct for the first three speakers.
   Dr. Spieler has too many visuals and too many details (non differential equations)
   Spieler’s lecture was too fast, the material was for a day lecture and should have been taught
   Haller had too low level, to much basics and nothing more.
   Excellent course. Perhaps section on pulse processing a little long, although all information
   Noise theory in analogue circuits and systems. See F. Goulding.
1999 Nuclear Science Symposium

Short Course Evaluation

Course Title: Integrated Circuit Front Ends for Nuclear Pulse Processing
Number of students: 30
Number of respondents: 23

YES

Did the course meet your expectations? 91%
Was this course worth your time and money? 83%
Relative to the course description, was the level of instruction correct? 78%
  Too Low? 0%
  Too High? 17%

Should the class be taught again:
  at the same level? 74%
  at a higher level? 9%
  at a lower level? 13%

Would you like to see courses given in the following areas:
  Interaction of Radiation with Matter 39%
  Radiation Measurement Techniques 57%
  Environmental Remediation 9%
  Detectors for Nuclear and/or High Energy Physics 57%
  Photonics for Nuclear Science 39%
  Medical Imaging Techniques 48%
  Analog/Digital Electronics for Nuclear Science 70%
  Nuclear Reactor Technologies and Issues 17%

Other short courses desired:

  Reactor Instrumentation/Detectors (Ex-Core and In-Core).
  DAD basic techniques like National Instruments.
  A fully digital signal processing path in spectroscopy (single DSP, Multiprocessing DSP)
  Digital readout (e.g. FPGA's and design readout system); embedded microprocessing info systems.

Comments welcomed:

  For some people Integrated Circuits overview might have been more pertinent.
  Expected more direct solutions to systems. For example preamplifiers design including schematics and example parts/components.
  Try to get to a more consistent level for all topics.
  Adjust timing, too much.
  Semiconductor detectors need to be covered more; PMTs less.
  I am a physicist, not an engineer. The course would be better for me if it assumed less knowledge of electronics design. However, the course description was clear, so I can not say there was any false advertising.
  V. Radeka gave a Ph.D. seminar.
  Very well organized class.
Lower costs (skip lunch/coffee)

Do demos (with computer tutorial aids).

Good course, slower on the theory to allow more absorption of material. More design methodology on the analog chip design.

Paul O'Connor color coded so many slides that lots of info was lost in our copies. Color printer? Color copier? Why not? I would have marked Paul and 8 if my notes could have included ALL the info presented. Everyone has access to color printers/copiers these days! I liked the binder format - especially if contents were color!

A lot of preparation but not well expressed probably due to broad range of topic and poor time control.

Little bit expensive, you guys should write a a textbook. Seem to be missing in this field.

Paul’s viewgraphs depended on color coding. It would have been nice to have the handouts in color also. Overall this class did a good job covering much in a short period of time.

Listing of CAD tools not useful. Either discussion in-depth or omit. CAD info as handout useful as oral presentation a waste of time. Radeka’s overview excellent but took too much time from IC design lectures. Don’t rush!

Very good; organized well, instructors worked well together. Overall conference very high;
Effectiveness of Handouts

Overall Instruction

Bill Bryan

A. L. Wintenberg

Paul O'Connor

Veljko Radeka

C. L. Britton

0.00 1.00 2.00 3.00 4.00 5.00 6.00 7.00 8.00 9.00 10.00
Course a bit too theoretical, no examples in handouts.
May be day long course might be better time length.
Maybe more illustrative figures for increasing the understanding of theoretical parts.
Emphasis specific examples might be worth while (time could be expanded). Maybe making it a 1 day course might be worthwhile.
More examples needed!
Some references (bibliography) needed.
Maybe too much, a little more compressed content, with more examples to real problems.
I think the place of the formalisms was too large compared to the place devoted to the reconstruction and the practical solutions of the reconstruction. In other words too much emphasis of the definition of the problem and not enough description of the solution.
May be the subject of another course.
Connections with real cases desired.
Very professional course, require certain level of participant.
Very important for IEEE to continue such training courses.
IEEE NPSS NOMINATING COMMITTEE
Report to AdCom
October 30, 1999

The AdCom elections were organized and held. The following NPSS members were elected for the period 01/01/2000 through 12/31/2003:

Fusion Technology:
Richard Callis

Plasma Science and Applications:
Osamu Ishihara

Pulsed Power Science & Technology
Edl Schamiloglu

Radiation Effects:
Kenneth Galloway

I extend my welcome to the newly elected AdCom members, and I would like to thank all of the candidates for allowing their names to be placed on the ballot.

The following three candidates were nominated for Vice President:

Edward J. Hoffman
Anthony L. Peratt
Peter W. Winokur

On 1 October a ballot was mailed to each voting AdCom member. They were requested to return their ballot to the NPSS Secretary prior to the 30 October AdCom meeting, or to return the ballot in person at the meeting.

At the end of this AdCom meeting, we should know the results of this VP election. Again, I would like to thank each of the three candidates for their willingness to serve as Vice President, if elected.
Based my records and on the motion that was passed unanimously at the June 1999 AdCom meeting, the elected AdCom distribution for the Years 1999, 2000 and 2001 will be as follows:

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<th>CANPS</th>
<th>FT</th>
<th>NID</th>
<th>NMIS</th>
<th>PAST</th>
<th>PSAC</th>
<th>PP</th>
<th>RE</th>
<th>RITC</th>
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<td>2</td>
<td>3</td>
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<td>1</td>
<td>2</td>
<td>2</td>
<td>1(appointed)</td>
</tr>
<tr>
<td>2000</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>3</td>
<td>3</td>
<td>1</td>
<td>2</td>
<td>2</td>
<td>1(appointed)</td>
</tr>
<tr>
<td>2001</td>
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<td>1</td>
<td>2</td>
<td>1</td>
<td>3</td>
<td>1</td>
<td>3</td>
<td>2</td>
<td>1(elected)</td>
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Terms expiring on 31 December 2000 include:
- Gary Alley Nuclear Instruments and Detectors
- Bruce Brown Particle Accelerator Science and Technology
- Roy Cutler Particle Accelerator Science and Technology
- Jes Asmussen Plasma Science and Applications
- Erik Heijne Transnational Committee (currently appointed by the President of NPSS)

My records indicate that the following elections should be held in 2000 for terms that would expire on 31 December 2004:
- Nuclear Instruments and Detectors
- Nuclear Medical and Imaging Sciences
- Plasma Science and Applications
- Transnational Committee

If anyone disagrees with this scheduling of elections, please let us know as soon as possible.

Respectfully submitted,

Ronald Jaszczak
Chair, Nominating Committee
Report of the NPSS Editor-in-Chief  
Glenn F. Knoll  
October 30, 1999

The rapid evolution in publication technology continues, and will certainly have a strong impact on NPSS and other entities within IEEE. I have invited Gerry Grenier, Director of Publishing Technology for the IEEE Publications Office to make a presentation at this Adcom meeting on the new EPIC web delivery system now under development. This system has the potential to radically change the options available to our membership to access information, not only in NPSS publications but also extending to other IEEE publications as well. Questions will arise along the way concerning subscription policies, archiving technology, cost allocations, copyright administration, establishment of priority submission dates, review procedures, and many other new or recast issues. Our editors will need to adapt to these changes at an accelerating pace.

One immediate issue is the phaseout of camera-ready copy (CRC) that has been a hallmark of some of our conference issues for many years. There are cost implications of a change to all-electronic composition, and Fran Zappulla of IEEE Publications has been working with us in effecting a transition. This will involve 2 conference issues of Transactions on Nuclear Science in 2000 that will not be delivered in electronic form, about 700 pages of the total 2910 budget pages for the year. The EPC (Electronic Products Committee) of IEEE has suggested a transition plan for the 700 remaining CRC pages. The plan offers a compromise that will provide most of the key features of EPIC without overturning the existing arrangements or creating a large financial burden for the conferences. The plan consists of “tagging” a portion of the article, including the abstract and all the references. This will ensure that users can search abstracts electronically, and IEEE will provide reference links to IEEE cited material from these papers. This service will entail a new cost of $5 per page and 50 cents per reference (in addition to the $20 per page charge in 2000 for CRC copy). Also, all 1996 through 1999 NPSS conference material will be fully tagged at no additional expense. This arrangement is considered as temporary, with the expectation that all material beyond the year 2000 will be submitted in electronic format.

This will be my last report as EIC. I have submitted my resignation to the NPSS President effective the end of this year, when I will be assuming the Chairmanship of the Radiation Instrumentation Technical Committee of NPSS. I have also made a recommendation that several changes be made in this office:

1) I recommend that the title be changed from “Editor in Chief” to “Chair, Publications Committee”. I have found that the EIC title is used in all other IEEE Societies I have encountered to designate the person in charge of a specific publication, to distinguish him/her from Associate or other Editors. Since the EIC historically in NPSS has been only an advisory function, I think that the new title suggested would be more descriptive and less likely to be misinterpreted (but sadly, less grand!)

2) I suggest that the stipend designated to the EIC be eliminated from the budget. Neither I nor my immediate predecessor (Ken Dawson) have accepted payment of the stipend, both of us feeling that the duties were not out of line with the volunteer efforts characteristic of many members of Adcom.

3) I recommend that the travel expense budgeted for the office be re-examined in light of the discussion to be held at this Adcom meeting regarding more general issues of travel expenses of volunteers. I have appreciated the opportunity to have travel costs reimbursed for some Adcom meetings that are held on occasions when I would not normally attend an associated conference, but also feel that the policy here should be consistent with that in place for all other members of Adcom.

I look forward to continuing service to IEEE/NPSS as RITC Chairman, and have enjoyed the opportunity to be a witness to the start of some changes in our publications that will have long-lasting impact.
Transactions on Nuclear Science  
Editor’s Report  
October 30, 1999

Special Issues in 1999:

For 1999 there are seven special issues of the Transactions on Nuclear Science. Six of these were devoted to papers submitted in conjunction with the 1998 Nuclear Science Symposium (NSS) and the 1998 Medical Imaging Conference (MIC).

Part I of the June issue was composed of selected papers from the 1998 NSS. Chuck Britton, Conference Editor, handled the review process for this issue. Out of the 206 papers submitted to TNS from this conference, 61 were published in this issue. Part I of the August issue contained an additional 33 papers, and Part II of the December issue will have 36 more papers. A total of 130 papers from the 1998 NSS will be published in TNS in 1999.

Part II of the June issue contained selected papers from the 1998 MIC. Ed Hoffman, Editor for the MIC Conference issue, oversaw the review process. Of the 152 papers submitted for publication, 48 were published in this issue. Part II of the August contained another 35 papers, and Part III of the December issue will contain 31 papers. Thus a total of 114 papers from the 1998 MIC will be published in TNS in 1999.

Part I of the December issue will consist of papers from the 36th Annual International Nuclear and Space Radiation Effects Conference. The review process was coordinated by Tim Oldham, the NSREC Guest Editor, Janet Barth, NSREC Associate Guest Editor, and Mike Xapsos, NSREC Assistant Guest Editor. Of the 89 papers presented at the conference, 74 will be published in this issue.

Statistics on Contributed Papers:

From November 1, 1998, through October 30, 1998, a total of 67 contributed manuscripts were submitted.

There were 66 papers which completed the review process between November 1, 1998, and October 30, 1999. Of these, 27 (44%) were accepted. The average time for the first review of these papers was 7.7 weeks. The average time between receipt of the manuscript and final disposition of the paper (either accept or reject) was 4.4 months; this includes the time for authors to make revisions, time for additional reviews if required, etc. If six papers in which the authors took >6 months to return their first revision are eliminated from this average, the average time from receipt to final disposition was 3.4 months.

The international character of the journal dominated this year. Of the 66 papers completing the review process during this period, only 11 (17%) were from the US. Asia had the most...
submissions, with 24 (36%); Europe was close behind at 22 papers (33%). North America outside the US accounted for 2 papers, India/Pakistan had 3, South America had 1, Africa had 1, the Middle East had 1, and Australia had 1.

The average number of reviewers reporting on each manuscript has been 2.7. The proportion of international reviewers (those outside the US) was approximately 44% of the reviews returned.

We continue to track the “timeliness”, i.e., the time from submission to print, of the Transactions on Nuclear Science. For contributed papers, the majority of this time is taken by the time for authors to make revisions in response to reviewers’ comments (all papers typically require revision before publication) and time for IEEE to prepare, print, and mail the issue. For example, over the last year, the average time for first review was 7.7 weeks, for the author to respond to the comments from the first review and submit a revised version was 14.5 weeks, and for IEEE to prepare and print for the issue is 14 weeks (including an average of 4 weeks waiting for the next issue since we are a bimonthly publication). Overall the Transactions on Nuclear Science continues to be one of the more timely IEEE publications.

The statistics for the last several years in the above areas is shown in the charts on the next pages.

**Move of TNS to Electronic Publishing:**

The Transactions on Nuclear Science began encouraging the submission of final manuscripts of contributed papers in electronic form in January, 1995. Of the 29 papers accepted during this last reporting period, 28 were supplied in electronic format.

The intention is to try to have all issues (including conference-related issues) submitted as electronic files to IEEE in the future. However, for 2000, it is likely that the Real Time Conference and RADECS will be submitted in camera-ready format.

**Special Issues Planned for 2000:**

Planned for 2000 are the following special issues of the Transactions on Nuclear Science:

- **February, 2000** – Conference on Real-Time Computer Applications in Nuclear, Particle, and Plasma Physics (Real Time Conference)
- **June, 2000** – Nuclear Science Symposium and Medical Imaging Conference
- **June, 2000** – European Conference on Radiation and Its Effects on Components and Systems (RADECS)
- **August, 2000** – Nuclear Science Symposium and Medical Imaging Conference
- **December, 2000** – Nuclear and Space Radiation Effects Conference
The second issues of papers from the NSS and MIC in August is subject to how the review process proceeds next year; the preference will be for a single issue in June.

Respectfully submitted,

Paul V. Dressendorfer
Editor, TNS
In 1999 the usual three issues of the NPSS Newsletter were produced with a total of 100 pages. Jack Osborn continues to be of great help. The most recent financial statement (September, 7 1999) shows that Newsletter costs are running nicely below budget. Details concerning the timing of each issue since the start of my term as editor are given in the attachment. The printing of the June issue was less than satisfactory in that the wrong color of banner (gold instead of maroon) was used and several of the pictures were very poorly reproduced. Both these problems did not show up in the proof I was sent. I’ve been told that the problem with the printer has been resolved and that more care will be taken in the future with the banner color.

The Newsletter still does not give a well-rounded view of all the activities of NPSS and its committees. As the listing of articles of the last four years shows there are three Functional committees that haven’t reported in ages; Member Education, Students and Careers, and Transnational. As for the Technical Committees there are only two that report at all regularly. They are Radiation Instrumentation and Radiation Effects. Others have been completely absent. For example the Particle Accelerator Science and Technology has submitted nothing since the 1997 PAC. There was even nothing about the 1999 PAC. Should our Conference Manual indicate that NPSS sponsored conferences announce their meetings in the Newsletter?

Hence the usual plea for those who have accepted positions as chairs of NPSS committees to fulfil their implied obligation to report to the membership on a regular basis. Elected Ad Corn members, all of whom had words to say about their election, have been remarkably silent since.

The 1999 Yearbook and Directory was sent out in May and was available in PDF form as well as the usual paper one. I had asked IEEE to make two-sided copies but they ignored the request, hence it is twice as thick as it needs to be. Does Ad Corn wish that one be prepared for next year?

There are, I believe, two things that should be done with the Newsletter next year. One is to put it up on the web. IEEE charges for this, including placing the issue on their servers, are $500 per issue for either PDF or HTML and $800 for both. Next, it’s time we look at redesigning the Newsletter. IEEE’s charge for assisting in this is $1,500. I’d like Ad Corn’s opinion on both these proposals.

Respectfully submitted,

W. Kenneth Dawson
NEWSLETTER EDITOR
<table>
<thead>
<tr>
<th>Surname</th>
<th>Issue</th>
<th>Topic</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wilkinson</td>
<td>1996/02/01</td>
<td>Article</td>
<td>Analogue to Digital Conversion</td>
</tr>
<tr>
<td>Spratt</td>
<td>1996/02/01</td>
<td>Article</td>
<td>Employment issues of Interest to Members of NPSS</td>
</tr>
<tr>
<td>IEEE-USA</td>
<td>1996/02/01</td>
<td>Article</td>
<td>IEEE-USA Announces University Intellectual Property Guidelines</td>
</tr>
<tr>
<td>IEEE-USA</td>
<td>1996/02/01</td>
<td>Article</td>
<td>IEEE PEs Invited to Help Write Engineering Exams</td>
</tr>
<tr>
<td>IEEE-USA</td>
<td>1996/02/01</td>
<td>Article</td>
<td>IEEE-USA Announces Support of Simpson Immigration Bill</td>
</tr>
<tr>
<td>Osborn</td>
<td>1996/02/01</td>
<td>Article</td>
<td>Risks and Public Policy</td>
</tr>
<tr>
<td>Kostek</td>
<td>1996/02/01</td>
<td>Article</td>
<td>Who Benefits?</td>
</tr>
<tr>
<td>Costrell</td>
<td>1996/05/01</td>
<td>Article</td>
<td>Fusion Research Falls Victim to Budget Cuts</td>
</tr>
<tr>
<td>IEEE-USA</td>
<td>1996/05/01</td>
<td>Article</td>
<td>Harry Bisby 1915-1996</td>
</tr>
<tr>
<td>IEEE-USA</td>
<td>1996/05/01</td>
<td>Article</td>
<td>Immigration Reform - Or Is It?</td>
</tr>
<tr>
<td>Brill</td>
<td>1996/05/01</td>
<td>Article</td>
<td>Radiation Effects from the Chernobyl Accident</td>
</tr>
<tr>
<td>Wiesner</td>
<td>1996/05/01</td>
<td>Article</td>
<td>Sloan Foundation Grants IEEE $464,000 for Interactive Career Guidance Program</td>
</tr>
<tr>
<td>IEEE-USA</td>
<td>1996/05/01</td>
<td>Article</td>
<td>U.S. Members Respond to NAS Report on Comprehensive Annual Federal Science and Technology Report</td>
</tr>
<tr>
<td>IEEE</td>
<td>1996/09/01</td>
<td>Article</td>
<td>Faraday Lecture</td>
</tr>
<tr>
<td>IEEE-USA</td>
<td>1996/09/01</td>
<td>Article</td>
<td>House Passes Omnibus Science Bill</td>
</tr>
<tr>
<td>IEEE-USA</td>
<td>1996/09/01</td>
<td>Article</td>
<td>IEEE-USA Symposium Considers “Roadmap’ for Future Federal Tech Policy</td>
</tr>
<tr>
<td>Sauthoff</td>
<td>1996/09/01</td>
<td>Article</td>
<td>The U.S. Fusion Program</td>
</tr>
<tr>
<td>Sumner</td>
<td>1997/02/01</td>
<td>Article</td>
<td>FastCamac</td>
</tr>
<tr>
<td>IEEE-USA</td>
<td>1997/02/01</td>
<td>Article</td>
<td>Federally Funded Technology Transfer</td>
</tr>
<tr>
<td>Sweeney</td>
<td>1997/02/01</td>
<td>Article</td>
<td>Intense Radiation Source Now Operational on Pulsed Power Generator at Sandia</td>
</tr>
<tr>
<td>Connor</td>
<td>1997/02/01</td>
<td>Article</td>
<td>NPSS Web Site</td>
</tr>
<tr>
<td>IEEE-USA</td>
<td>1997/02/01</td>
<td>Article</td>
<td>President Approves Controversial Immigration Bill</td>
</tr>
<tr>
<td>Barsotti</td>
<td>1997/02/01</td>
<td>Article</td>
<td>VMEbus for Physics Applications</td>
</tr>
<tr>
<td>Alexeff</td>
<td>1997/05/01</td>
<td>Article</td>
<td>Plasmas in Air</td>
</tr>
<tr>
<td>IEEE-USA</td>
<td>1997/05/01</td>
<td>Article</td>
<td>Science &amp; Engineering Coalition Argues for Larger R&amp;D Budgets</td>
</tr>
<tr>
<td>IEEE-USA</td>
<td>1997/05/01</td>
<td>Article</td>
<td>Technology Policy Council Symposium</td>
</tr>
<tr>
<td>McClure</td>
<td>1997/09/01</td>
<td>Article</td>
<td>Employment Benefits: A Peek at Future Possibilities</td>
</tr>
<tr>
<td>Shea</td>
<td>1997/09/01</td>
<td>Article</td>
<td>On Being Important</td>
</tr>
<tr>
<td>Costrell</td>
<td>1997/09/01</td>
<td>Article</td>
<td>Richard F. Shea 1903-1997</td>
</tr>
<tr>
<td>Knoll</td>
<td>1997/09/01</td>
<td>Article</td>
<td>University of Michigan, Tenure-Track Junior Faculty Position</td>
</tr>
<tr>
<td>IEEE-USA</td>
<td>1998/03/01</td>
<td>Article</td>
<td>Engineering Community Urges Clinton to Emphasize Engineering in His State-Of-The-Union Address</td>
</tr>
<tr>
<td>IEEE-USA</td>
<td>1998/03/01</td>
<td>Article</td>
<td>Engineering Licensure</td>
</tr>
<tr>
<td>IEEE-USA</td>
<td>1998/03/01</td>
<td>Article</td>
<td>IEEE-USA Launches Initiative to Assist Older Professionals</td>
</tr>
<tr>
<td>IEEE-USA</td>
<td>1998/03/01</td>
<td>Article</td>
<td>New Salary Estimator Tells Engineers What They Are Worth</td>
</tr>
<tr>
<td>IEEE-USA</td>
<td>1998/06/01</td>
<td>Article</td>
<td>Congress to Consider Pension Portability</td>
</tr>
<tr>
<td>IEEE-USA</td>
<td>1998/06/01</td>
<td>Article</td>
<td>Energy Secretary Releases National Energy Strategy</td>
</tr>
<tr>
<td>IEEE-USA</td>
<td>1998/06/01</td>
<td>Article</td>
<td>Science Agencies Get New Leaders</td>
</tr>
<tr>
<td>Martin</td>
<td>1998/06/01</td>
<td>Article</td>
<td>Tritium, Tritium, A Kingdom For Some Tritium</td>
</tr>
<tr>
<td>IEEE-USA</td>
<td>1998/09/01</td>
<td>Article</td>
<td>Congress Questions Fusion Program Extension</td>
</tr>
<tr>
<td>IEEE-USA</td>
<td>1998/09/01</td>
<td>Article</td>
<td>IEEE and ABET Seek Program Evaluations to Ensure Quality of Engineering Programs</td>
</tr>
<tr>
<td>IEEE-USA</td>
<td>1998/09/01</td>
<td>Article</td>
<td>IEEE-USA Will Hold National Consultants’ Conference This Fall in Chicago</td>
</tr>
<tr>
<td>Costrell &amp; Dawson</td>
<td>1998/09/01</td>
<td>Article</td>
<td>In Memorium - Donald E. Stilwell 1936 - 1998</td>
</tr>
<tr>
<td>IEEE-USA</td>
<td>1998/09/01</td>
<td>Article</td>
<td>NSF, Tech Transfer Bills Sail Through House</td>
</tr>
<tr>
<td>IEEE-USA</td>
<td>1998/09/01</td>
<td>Article</td>
<td>Science and Engineering Indicators Highlights Information Technology’s Impact on Economy</td>
</tr>
<tr>
<td>Hallman</td>
<td>1998/09/01</td>
<td>Article</td>
<td>The Sudbury Neutrino A New Eye On The Universe</td>
</tr>
<tr>
<td>Feuerstein</td>
<td>1999/03/01</td>
<td>Article</td>
<td>Final Report to the IEEE-USA Congressional Fellowship Committee</td>
</tr>
<tr>
<td></td>
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<td></td>
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</tr>
<tr>
<td>Surname</td>
<td>Issue</td>
<td>Topic</td>
<td>Title</td>
</tr>
<tr>
<td>-------------</td>
<td>-------------</td>
<td>------------------------</td>
<td>---------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>U of Michigan</td>
<td>1999/06/01</td>
<td>Article</td>
<td>Glenn Knoll Elected to National Academy of Engineering</td>
</tr>
<tr>
<td>Anon.</td>
<td>1999/09/01</td>
<td>Article</td>
<td>Accelerator Physics Videoconference Courses</td>
</tr>
<tr>
<td>Kemp</td>
<td>1999/09/01</td>
<td>Article</td>
<td>Branding and the IEEE: A Concept Whose Time Is Here</td>
</tr>
<tr>
<td>IEEE-USA</td>
<td>1999/09/01</td>
<td>Article</td>
<td>Energy Department Reorganizes Security Functions</td>
</tr>
<tr>
<td>IEEE-USA</td>
<td>1999/09/01</td>
<td>Article</td>
<td>New Legislation Proposes Creation of New Tech Visa Category</td>
</tr>
<tr>
<td>IEEE-USA</td>
<td>1999/09/01</td>
<td>Article</td>
<td>Policy Statement Fusion Energy Research and Development</td>
</tr>
<tr>
<td>Nalcioglu</td>
<td>1996/02/01</td>
<td>Awards</td>
<td>Call for Nominations for NPSS Awards</td>
</tr>
<tr>
<td>Gilgenbach</td>
<td>1996/02/01</td>
<td>Awards</td>
<td>Graduate Student Travel Grants for ICOPS'96</td>
</tr>
<tr>
<td>Hershkowitz</td>
<td>1996/02/01</td>
<td>Awards</td>
<td>Request for Nominations for the 1997 Plasma Science and Applications Award</td>
</tr>
<tr>
<td>Gold</td>
<td>1996/02/01</td>
<td>Awards</td>
<td>Wallace M. Manheimer to Receive 1996 Plasma Science and Applications Award</td>
</tr>
<tr>
<td>Individuals</td>
<td>1996/05/01</td>
<td>Awards</td>
<td>New IEEE Fellows</td>
</tr>
<tr>
<td>Laroussi</td>
<td>1996/09/01</td>
<td>Awards</td>
<td>Advanced Technology Award</td>
</tr>
<tr>
<td>Alexeff</td>
<td>1996/09/01</td>
<td>Awards</td>
<td>Fellows Nominations Hints</td>
</tr>
<tr>
<td>Frank</td>
<td>1997/02/01</td>
<td>Awards</td>
<td>Radiation Effects Award</td>
</tr>
<tr>
<td>Nalcioglu</td>
<td>1997/02/01</td>
<td>Awards</td>
<td>Report from the NPSS Awards Committee</td>
</tr>
<tr>
<td>Tang</td>
<td>1997/02/01</td>
<td>Awards</td>
<td>Request for Nominations for 1998 Plasma Science and Applications Award</td>
</tr>
<tr>
<td>Hershkowitz</td>
<td>1997/02/01</td>
<td>Awards</td>
<td>Ronald M. Gilgenbach Selected for 1997 Plasma Science and Applications Award</td>
</tr>
<tr>
<td>Individuals</td>
<td>1997/05/01</td>
<td>Awards</td>
<td>New IEEE Fellows</td>
</tr>
<tr>
<td>Nalcioglu</td>
<td>1998/03/01</td>
<td>Awards</td>
<td>1997 Awards</td>
</tr>
<tr>
<td>Hirose</td>
<td>1998/06/01</td>
<td>Awards</td>
<td>Akira Hirose Receives the 1998 Plasma Science and Applications Award</td>
</tr>
<tr>
<td>Individuals</td>
<td>1998/06/01</td>
<td>Awards</td>
<td>New IEEE Fellows</td>
</tr>
<tr>
<td>Kouzes</td>
<td>1998/09/01</td>
<td>Awards</td>
<td>1999 CANPS Award Nominations Request</td>
</tr>
<tr>
<td>Cherry</td>
<td>1999/03/01</td>
<td>Awards</td>
<td>1998 NPSS Early Achievement Award</td>
</tr>
<tr>
<td>Yoshii</td>
<td>1999/03/01</td>
<td>Awards</td>
<td>1998 NPSS Graduate Scholarship Award</td>
</tr>
<tr>
<td>Conrad</td>
<td>1999/03/01</td>
<td>Awards</td>
<td>1998 NPSS Merit Award</td>
</tr>
<tr>
<td>Brill</td>
<td>1999/03/01</td>
<td>Awards</td>
<td>1998 NPSS Shea Award</td>
</tr>
<tr>
<td>Individuals</td>
<td>1999/06/01</td>
<td>Awards</td>
<td>New IEEE Fellows</td>
</tr>
<tr>
<td>Gilgenbach</td>
<td>1999/06/01</td>
<td>Awards</td>
<td>Y.Y. Lau Receives the 1999 Plasma Science and Applications Award</td>
</tr>
<tr>
<td>Tang</td>
<td>1999/06/01</td>
<td>Awards</td>
<td>Y.Y. Lau Receives the 1999 Plasma Science and Applications Award</td>
</tr>
<tr>
<td>Jansen</td>
<td>1996/02/01</td>
<td>Business</td>
<td>Division IV Directors Report</td>
</tr>
<tr>
<td>Clout</td>
<td>1996/02/01</td>
<td>Business</td>
<td>President's Report</td>
</tr>
<tr>
<td>Dawson</td>
<td>1996/02/01</td>
<td>Business</td>
<td>Secretary's Report</td>
</tr>
<tr>
<td>Clout</td>
<td>1996/05/01</td>
<td>Business</td>
<td>President's Report</td>
</tr>
<tr>
<td>Dawson Larsen</td>
<td>1996/05/01</td>
<td>Business</td>
<td>Secretary's Report</td>
</tr>
<tr>
<td>Jansen</td>
<td>1996/09/01</td>
<td>Business</td>
<td>Division IV Director's Report</td>
</tr>
<tr>
<td>Lamp00</td>
<td>1996/09/01</td>
<td>Business</td>
<td>NPSS Treasury: A Fiduciary Perspective</td>
</tr>
<tr>
<td>Clout</td>
<td>1996/09/01</td>
<td>Business</td>
<td>President's Report</td>
</tr>
<tr>
<td>Dawson Larsen</td>
<td>1996/09/01</td>
<td>Business</td>
<td>Secretary's Report</td>
</tr>
<tr>
<td>Jansen</td>
<td>1997/02/01</td>
<td>Business</td>
<td>Division IV Director's Report</td>
</tr>
<tr>
<td>Jaszczak</td>
<td>1997/02/01</td>
<td>Business</td>
<td>President's Report</td>
</tr>
<tr>
<td>Dawson Larsen</td>
<td>1997/02/01</td>
<td>Business</td>
<td>Secretary's Report</td>
</tr>
<tr>
<td>Jaszczak</td>
<td>1997/05/01</td>
<td>Business</td>
<td>President's Report</td>
</tr>
<tr>
<td>Dawson Larsen</td>
<td>1997/05/01</td>
<td>Business</td>
<td>Secretary's Report</td>
</tr>
<tr>
<td>Duff</td>
<td>1997/09/01</td>
<td>Business</td>
<td>Division IV Director's Report</td>
</tr>
<tr>
<td>Jaszczak</td>
<td>1997/09/01</td>
<td>Business</td>
<td>President's Report</td>
</tr>
<tr>
<td>Dawson Larsen</td>
<td>1997/09/01</td>
<td>Business</td>
<td>Secretary's Report</td>
</tr>
<tr>
<td>Alexeff</td>
<td>1998/03/01</td>
<td>Business</td>
<td>Ad Corn Elects 1998 NPSS President</td>
</tr>
<tr>
<td>Jaszczak</td>
<td>1998/03/01</td>
<td>Business</td>
<td>President's Report</td>
</tr>
<tr>
<td>Dawson Larsen</td>
<td>1998/03/01</td>
<td>Business</td>
<td>Secretary's Report</td>
</tr>
<tr>
<td>Surname</td>
<td>Issue</td>
<td>Topic</td>
<td>Title</td>
</tr>
<tr>
<td>-------------</td>
<td>-------------</td>
<td>-------</td>
<td>----------------------------------------------------------------------</td>
</tr>
<tr>
<td>Adler</td>
<td>1998/03/01</td>
<td>Business</td>
<td>Summary of the 1997 IEEE Divisions I &amp; IV Chapters Meeting</td>
</tr>
<tr>
<td>Jaszczyk</td>
<td>1998/06/01</td>
<td>Business</td>
<td>President’s Report</td>
</tr>
<tr>
<td>Dawson Larsen</td>
<td>1998/06/01</td>
<td>Business</td>
<td>Secretary’s Report</td>
</tr>
<tr>
<td>Flescher</td>
<td>1998/09/01</td>
<td>Business</td>
<td>Nuclear And Plasma Science Society Administrative Committee (AD COM) Votes Bylaw Changes</td>
</tr>
<tr>
<td>Jaszczyk</td>
<td>1998/09/01</td>
<td>Business</td>
<td>President’s Report</td>
</tr>
<tr>
<td>Dawson Larsen</td>
<td>1998/09/01</td>
<td>Business</td>
<td>Secretary’s Report</td>
</tr>
<tr>
<td>Jaszczyk</td>
<td>1999/03/01</td>
<td>Business</td>
<td>Call for Nominations for Elected Members of the NPSS Ad</td>
</tr>
<tr>
<td>Alexeff</td>
<td>1999/03/01</td>
<td>Business</td>
<td>President’s Report</td>
</tr>
<tr>
<td>Dawson Larsen</td>
<td>1999/03/01</td>
<td>Business</td>
<td>Secretary’s Report</td>
</tr>
<tr>
<td>Alexeff</td>
<td>1999/06/01</td>
<td>Business</td>
<td>President’s Report</td>
</tr>
<tr>
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<td>1999/06/01</td>
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<td>1997/02/01</td>
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<td>Free Introductory Membership at the International Conference on Plasma Science</td>
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**Note:** The table above lists contents of NPSS Newsletter issues from 1996 to 1999, including the names of contributors, the topics, and the title of the contents.
<table>
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<th>Surname</th>
<th>Issue</th>
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<td>Nominations for Elected Members of Ad Corn</td>
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<td>Report from the NPSS Editor-in-Chief</td>
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<td>Where Your NPSS Dues Go</td>
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SSIT Liaison activities have centered exclusively around Ethics concerns.

A small group has attempted to continue to develop a dialogue within IEEE over ethics support and other concerns. This has met with little success so far. John Vig, a candidate for Director, has taken the Ethics Committee to task for what he considers a lack of response and communication over some specific matters of IEEE editors’ conflicts of interest he raised to the EC. When pressed, A. Schwab, chair of the EC, claimed that action had been taken by his committee, and the matter had been sent off to another responsible IEEE body for response. There had not bee a follow-up and therefore not a response.

At a recent Sections Congress, John Wright, active in the Circuits(?) Society and a former associate of Joe Wujek of Berkeley who was tragically killed in July, engineered a resolution from that congress requesting that the EC either perform to its mandate to provide ethics support, or be disbanded by IEEE. This apparently passed with near unanimity. It remains to be seen whether it has any effect. At this meeting, A. Schwab clearly stated that the EC was under orders not to provide any advice to anyone that could be construed as Ethics Support, and the MCC chair reported that the MCC was well equipped to punish IEEE members for Ethics transgressions.

A recent request by Walter Elden, deposed from the Member Conduct Committee, to have the MCC web page restore a link to an article he wrote for The Institute called, “The MCC - 20 years of History”, was rejected. The MCC does not want anything on the web page that was not invented by the current committee, he was told.

A recent suggestion has been made that we attempt to work with IEEE-USA, since we are getting no response from anyone else, and also that we become proactive in qualifying and supporting future candidates who are willing to stick their necks out on ethics issues. These are ideas that will be discussed.

Steve Unger has been asked to be a candidate for director at large for IEEE-USA. I have urged our own Ned Sauthoff to lend his support. Ned himself is up for President of IEEE-USA and if you haven’t already voted, please give Ned your vote and urge your colleagues to do likewise.

It is clear that the EC and MCC together have reverted to their historical stance of lip-service, do-nothing organizations under the thumb of an administration that is completely in the thrall of business interests and out of touch with members needs. This will not be easy to change, but we will keep working at it.

Respectfully,

Ray Larsen
October 15, 1999

Igor Alexoff
President – Nuclear and Plasma Sciences Society

The following is the 1999 year end report of the IEEE Standards Association Board Liaison Representative of the NPSS:

1. There are 37 societies in the IEEE and as of this date, the NPSS continues with about the eleventh largest number of active Standards in the Institute and the most in Div. IV’s seven societies.

2. Attachment 1 is the current list of appointments to American National Standards Institute nuclear committees (ANSI-N-). Also a list of members of the N-42 Nuclear Instruments Committee is attached (1A).

3. There continues to be considerable activity in the international standards field. There are several members of NPSS/ADCOM who are members of the International Electro-Technical Committee (IEC) TC45 Nuclear Instrumentation (see Attachment 2). If you need further information on any IECTC-45 standards, please contact L. Costrell or G. Johnson.

4. In 1999 J. Forster continued as a member-emeritus and NPSS representative to the IEEE Standards Board. The current status of all our NPSS Standards in the IEEE are delineated in Attachment 3. See the current markup as of Oct. 1998. Also, listed in Attachment 4 is the current ANSI-N-42 Nuclear Instrumentation Standards. Both Attachments 3 and 4 are dated October 1998 and since the SA no longer updates these collated categories, I have added Attachment 5 which updates the Standards Report as of September 9, 1999 in numerical sequence.

5. The most current Nuclear Science Collection of both IEEE and ANSI standards was issued in 1991 as SH13813.

6. In order to keep this annual report on standards to a reasonable length, the current status of Nuclear Power Engineering (NPEC) and the Computer Society standards have not been listed. Nevertheless, if anyone has an interest in this or needs any information, please request these from me since I am standards balloting member of both of these Societies.

7. Awards are open for STANDARDS MEDALLIONS for exceptional contributions. Please see me for more information and submittal form. Also when an IEEE standard is issued, the Chairman/Vice Chairman (or equal) of the Working Group are automatically awarded a plaque. If there is another major contributor, please inform the IEEE Standards Association Office as soon as feasible.

[Signature]
Forster
Standards Liaison Representative – NPSS
NPSS REPRESENTATION ON ANSI STANDARDS COMMITTEES

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<td>Lou Costrell, NIST (301) 975-5608</td>
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Environmental Health & Safety
46 Oxford Street
Cambridge, MA 02138

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<td>Louis Costrell Phone: (301) 975.5608 <a href="mailto:costrell@enh.nist.gov">costrell@enh.nist.gov</a></td>
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<td>675.1982 NPS (Reaff. 1994)</td>
<td>IEEE Standard Multiple Controllers in a CAMAC Crate (Computer Automated Measurement and Control)</td>
<td>Louis Costrell Phone: (301) 975-5608 <a href="mailto:costrell@enh.nist.gov">costrell@enh.nist.gov</a></td>
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<td>683-1976 NPS (Reaff. 1994)</td>
<td>IEEE Recommended Practice for Block Transfers in CAMAC Systems (Computer Automated Measurement and Control)</td>
<td>Louis Costrell Phone: (301) 975-5608 <a href="mailto:costrell@enh.nist.gov">costrell@enh.nist.gov</a></td>
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<td>IEEE Standard Subroutines for CAMAC (Computer Automated Measurements and Control)</td>
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<td>960-1986 NPS/NI&amp;D</td>
<td>Standard for FASTBUS Modular High-Speed Data Acquisition and Control System</td>
<td>Louis Costrell Phone: (301) 975-5608 <a href="mailto:costrell@enh.nist.gov">costrell@enh.nist.gov</a></td>
<td>PAR: 17 June 1993</td>
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<td>PW 1065 NPS</td>
<td>Digital Bus for NIM Instruments</td>
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<td>NIM Modular Bus</td>
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<td>American National Standard for the Specification of Portable X- or Gamma-Radiation Survey Instruments</td>
<td>Louis Costrell&lt;br&gt;Phone: (301) 975-5608&lt;br&gt;<a href="mailto:costrell@enh.nist.gov">costrell@enh.nist.gov</a></td>
<td>ANSI: 9 Dec 1971</td>
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<tr>
<td>N42.4-1971 N42</td>
<td>American National Standard for High Voltage Connectors for Nuclear Instruments</td>
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<td>ANSI: 9 Dec 1971</td>
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<td>N42.5-1965 N42</td>
<td>American National Standard for Bases for GM Counter Tubes</td>
<td></td>
<td>ANSI: 9 Nov 1977</td>
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<tr>
<td>N42.6.1980 N42</td>
<td>Interrelationship of Quartz-Fiber Electrometer Type Dosimeters and Companion Dosimeter Chargers</td>
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<td>ANSI: 15 Feb 1978</td>
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<td>N42.12-1995 N42</td>
<td>American National Standard Calibration and Usage of Thallium-Activated Sodium Iodide Detector Systems for Assay of Radionuclides</td>
<td>Louis Costrell&lt;br&gt;Phone: (301) 975-5608&lt;br&gt;<a href="mailto:costrell@enh.nist.gov">costrell@enh.nist.gov</a></td>
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<td>N42.15-1997 N42</td>
<td>American National Standard Check Sources for and Verification of Liquid-Scintillation Counting Systems</td>
<td>Louis Costrell&lt;br&gt;Phone: (301) 975-5608&lt;br&gt;<a href="mailto:costrell@enh.nist.gov">costrell@enh.nist.gov</a></td>
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<td>Louis Costrell&lt;br&gt;Phone: (301) 975-5608&lt;br&gt;<a href="mailto:costrell@enh.nist.gov">costrell@enh.nist.gov</a></td>
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<tr>
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</table>

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PubType: CN: Collection; IP: Int'l Publication; SL: Special Publication; SP: Standards Press; EP: Electronic publication
<table>
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<td>Performance Specifications for Health Physics Instrumentation - Occupational Airborne Radioactivity Monitoring Instrumentation, American National Standard</td>
<td>Louis Costrell Phone: (301) 975-5608 <a href="mailto:costrell@enh.nist.gov">costrell@enh.nist.gov</a></td>
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<td>ANSI: 10 Mar 1995</td>
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<tr>
<td>N42.22-1995</td>
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<td>Instrumentation for measurement of activity of radon and radon daughters in air</td>
<td>Louis Costrell Phone: (301) 975-5608 <a href="mailto:costrell@enh.nist.gov">costrell@enh.nist.gov</a></td>
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<td>N42.23-1996</td>
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<td>American National Standard Traceability of Radioactive Sources to NIST and Associated Instrument Quality Control</td>
<td>Louis Costrell Phone: (301) 975-5608 <a href="mailto:costrell@enh.nist.gov">costrell@enh.nist.gov</a></td>
<td>ANSI: 16 July 1996</td>
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<td>N42.24</td>
<td>N42</td>
<td>Radiation Instrumentation - Specification and Performance Characteristics of Personal Dosimeters for Dose Equivalent and Dose Equivalent for X, Gamma, &amp; Beta Radiations for Standard Tissue Depths</td>
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<td>N42.25-1997</td>
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<td>American National Standard Calibration and Usage of Alpha/Beta Proportional Counters</td>
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<td>ANSI: 3 June 1997</td>
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<td>Determination of Uniformity of Solid Gamma-Emitting Flood Sources</td>
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<td>ANSI: 6 Feb 1997</td>
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<td>KB/HG</td>
<td>08/15/1999</td>
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<td>4</td>
<td>EPRI/UCA Introduction to UCA Version 2.0</td>
<td>KB/HG</td>
<td>08/15/1999</td>
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<td>5</td>
<td>EPRI/UCA Generic Objea Models for Substation and Feeder Equipment (GOMSFE)</td>
<td>KB/HG</td>
<td>08/15/1999</td>
<td></td>
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<tr>
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<td>EPRI/UCA Common Application Service Models (CASM) and Mapping to MMS</td>
<td>KB/HG</td>
<td>08/15/1999</td>
<td></td>
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<td>11</td>
<td>IEEE Standard Test Procedure for Evaluation of Systems of Insulation for Dry-type Specialty and General-Purpose</td>
<td>GK/KG</td>
<td>09/08/1999</td>
<td>SHY4793:5412</td>
</tr>
<tr>
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<td>IEEE Standard for Ferroresonant Voltage Regulators</td>
<td>Kohn</td>
<td>06/04/1999</td>
<td>SHY4793:5412</td>
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<tr>
<td>14</td>
<td>IEEE Guide for the Operation and Maintenance of Hydro Generators</td>
<td>Zelenr</td>
<td>01/28/1999</td>
<td>SHY4793:5412</td>
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<tr>
<td>16</td>
<td>IEEE Standards for Local and Metropolitan Area Networks: Local Area Networks</td>
<td>Zelenr</td>
<td>03/12/1998</td>
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<td>17</td>
<td>IEEE Standard for Information Technology-Telecommunications and information exchange between</td>
<td>Berger</td>
<td>07/26/1999</td>
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<td>18</td>
<td>IEEE Standard for Interoperable LAN MAN Security (SILS): The Model (Clause 1)</td>
<td>Rutigliano</td>
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<td>19</td>
<td>IEEE Standard for Information Technology-Standardized Application Environment Profile—POSIX® Realtime</td>
<td>Ho sang</td>
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<tr>
<td>22</td>
<td>IEEE Standard for VHDL Waveform and Vector Exchange (Waves) to Support Design and Test Verification</td>
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<tr>
<td>24 1220 (C/SE)</td>
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<td>Ho Sang</td>
<td>07/21/1999</td>
<td>SH94720</td>
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<tr>
<td>25 2.26 (SCE20)</td>
<td>IEEE Standard for a Broad-Based Environment for Test (ABBE T), Overview and Architecture</td>
<td>KB/LC</td>
<td>07/21/1999</td>
<td>SH94721</td>
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<tr>
<td>26 3232. 2 (SCC20)</td>
<td>IEEE Standard for Artificial Intelligence Exchange and Service Tie to All Test Environments (AI-ESTATE), Service</td>
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<td>07/21/1999</td>
<td>SH94678</td>
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<tr>
<td>27 1242 (IA/P&amp;I)</td>
<td>IEEE Guide for Specifying and Selecting Power, Control and Purpose Cable for Petroleum and Chemical Plants</td>
<td>YH/GW</td>
<td>07/21/1999</td>
<td>SH94762</td>
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<tr>
<td>29 1320. 2 (U-SE)</td>
<td>IEEE Standard for Conceptual Modeling Language - Syntax and Semantics for IDEP/X97 (IDEPObject)</td>
<td>Zelency</td>
<td>07/21/1999</td>
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<tr>
<td>30 1336 (PE/T&amp;D)</td>
<td>IEEE Standard Trial Usd Guide for Power Distribution Reliability Indices</td>
<td>Zelency</td>
<td>07/21/1999</td>
<td>SH94712</td>
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<tr>
<td>31 1390. 2 (SCC1)</td>
<td>IEEE Standard for Utility Telemetry Service - Telemetry Interface Unit (TIU) to Telephone Network</td>
<td>Kohn</td>
<td>07/21/1999</td>
<td>SH94676</td>
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<tr>
<td>32 1394. 3 (SCC1)</td>
<td>IEEE Standard for Automatic Meter Reading via Telephone - Network to Utility Controller</td>
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<td>07/21/1999</td>
<td>SH94731</td>
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<td>Ho Sang</td>
<td>07/21/1999</td>
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<td>35 1413 (R)</td>
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<td>YH/SDD</td>
<td>07/21/1999</td>
<td>SH94682</td>
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<td>07/21/1999</td>
<td>SH94761</td>
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<tr>
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<td>Zelency</td>
<td>07/21/1999</td>
<td>SH94715</td>
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<td>07/21/1999</td>
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<tr>
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<td>Breitfelder</td>
<td>07/21/1999</td>
<td>SH94735</td>
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<tr>
<td>42 1490 (C/SE)</td>
<td>IEEE Guide - Adoption of PMI Standard, A Guide to the Project Management Body of Knowledge</td>
<td>Ho Sang</td>
<td>07/21/1999</td>
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<td>46 8802-11</td>
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<td>47 14519</td>
<td>ISO/IEC 14519: 1999 (IEEE Std 1003.3b), Information technology - POSIX and Ada Language Interfaces - Binding for</td>
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<tr>
<td>49 C37.110</td>
<td>IEEE Recommended Practice for Establishing Transformer Capability When Supplying Nonsinusoidal Load Currents</td>
<td>NHE/M</td>
<td>07/02/1998</td>
<td>SH94670</td>
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<td>50 C62.11</td>
<td>IEEE Standard for Metal-Oxide Surge Arresters for Alternating Current Power Circuits (&gt; 1 kV)</td>
<td>Rotigliano</td>
<td>03/22/1999</td>
<td>SH94744</td>
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<tr>
<td>51 C95.1a</td>
<td>IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 3 GHz</td>
<td>Ho Sang</td>
<td>12/08/1998</td>
<td>SH94717</td>
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<td>53 C136.18</td>
<td>ANSI Standard for Roadway Lighting - High-Mast Side-Mounted Luminaires for Horizontal- or Vertical-Burning High-Mast Luminaires</td>
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<td>00/00/00</td>
<td>SH94703</td>
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<td>Ho Sang</td>
<td>05/12/1999</td>
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<td>Berger</td>
<td>05/12/1999</td>
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</tbody>
</table>

Total Pages: 7.109
October 15, 1999

Igor Alexeff  
President, Nuclear Science and Plasma Society

The following is the 1999 report of the liaison representative of the NPSS to the IEEE Professional Activities Committee for Engineers (PACE).

1. I represented the NPSS at the 1999 PACE Workshop on September 3, 4, 5, & 6 in Dallas, TX. The overall program including three Division meetings was very well presented and attendance was a near record. For 1999, I was reappointed as PACE Chairman for the NPSS.

2. The PACE Committee meeting was held again at the annual November Symposium following the Member Education Committee meeting in Toronto. The NPSS Adcom has three PACE related functional Committee Chairmen whose continued activities enhance the PACE goals and is the basis for the PACE Committee of the NPSS and includes:
   A. Students and Careers (Kenneth A. Connor)
   B. Chapter and Local Activities (Veron G. Price)
   C. Member Education (Gary T. Alley)

3. All NPSS Symposia have tutorial short courses, i.e., NSS-98 had five courses on Nov. 8-11 to enhance the education and careers of engineers and scientists of the NPSS. At the 1999 NSS there are 5 courses on October 24-29.

4. NPSS continues to be active in the education area with the Continuing Education Committee. The next meeting is scheduled at the 1999 NS Symposium and will be reported on by Chairman G. T. Alley.

5. There were three NPSS Newsletters issued in 1999 to date and these included numerous articles covering the many activities of the NPSS as a profession. This is a major PACE accomplishment in our Society. A survey shows the NPSS leads other societies in publishing pertinent USAB/PACE articles in a Society Newsletter!

6. For 1999, I was appointed the Division IV PACE Coordinator by the Division Director, William G. Gjertson, and represented the Division Societies (7 of) at the PACE Workshop.

PACE Chairman - NPSS
Report to the AdCom
October 30, 1999

After a long period of inactivity, there appears to be some activity brewing on the Sensors Council. A Sensors Council AdCom meeting will be held in Newark next week, and Igor and I will attend. The main purpose of the meeting appears to be to elect officers, approve a budget, and (hopefully) define goals. There was a call for volunteers for officers for the Council — I polled the RISC for volunteers and found one person (Ralph James of Sandia, RbJames@Sandia.gov) who would be interested in volunteering as an NPSS representative to the Sensors Council, but not necessarily as an officer. I suggest that we accept his offer and replace either Igor or I as one of the two NPSS representatives on the Sensors Council, but after the upcoming meeting.

William W. Moses
ELECTRONIC RECORDS ISSUES: 1999

Jean Marie Deken

IEEE Nuclear Science Symposium and Medical Imaging Conference
10/30/99
Seattle, WA
Electronic Records Issues: 1999

- Overview
- The Paper Era
- The Electronic Era
- Current Best Practices
- What you can do now...
Overview

Records (1965)

A generic term, used synonymously with the term *material*, that includes both *archives*, a term customarily used to refer to material of public origin, and *historical records*, customarily used to refer to material of private origin.
Overview

- Life-cycle management (1940)
  - Creation
  - Storage
  - Use
  - Disposition
    - Appraisal (temporary or permanent)
    - Scheduling (timing of transfer/disposal)
The Paper Era

Form:
- Paper-type
- Human-eye-readable

Appraisal
- Should be at creation
- Usually at disposition
The Paper Era

- Physical transfer
  - When inactive
  - To certified repository
  - Repository disposes or transfers to archives
The Electronic Era

- Is life-cycle still valid?

What is
- An electronic record?
- An electronic archive?
44 USC Sec. 3301

“includes all books, papers, maps, photographs, machine readable materials, or other documentary materials, regardless of physical form or characteristics, made or received by an agency of the United States Government under Federal law or in connection with the transaction of public business and preserved or appropriate for preservation by that agency or its legitimate successor as evidence of the organization, functions, policies, decisions, procedures, operations, or other activities of the Government or because of the informational value of data in them…”
ICA (1997)

“...a specific piece of recorded information generated, collected or received in the initiation, conduct or completion of an activity, and that comprises sufficient content, context and structure to provide proof or evidence of that activity.”
“Archive”

- **RM**
  - the non-current records of an organization preserved because of their continuing value

- **IRM**
  - to transfer files from a computer into off-line storage.
“Archive”

- RM
  - Time-frame: decades/centuries

- IRM
  - Time-frame: months/years
Electronic records are not

- Paper-type
- Human-eye-readable
- Permanent
Electronic Life-Cycle?

- **UBC:**
  - Creation
  - Preservation

- **ICA:**
  - Design
  - Creation
  - Maintenance
Stability of Paper-Based Technology

US Declaration

Creation 1776
Use 1776-1789
Stability of Paper-Based Technology

- **US Declaration**
  - Creation 1776
  - Use 1776-1789
  - Storage 1790-1952
  - Disposition 1953
Paper-Based Vs. Electronic 1

- **US Declaration**
- **US 1960 Census**

- Creation 1960
- Use 1960-1979
- Stored 1960-1979
- Disposition 1979-1999
Paper-Based Vs. Electronic 2

- US Declaration
- US 1960 Census
- 1st e-mail
- WWW pages
- Amazon data
Electronic Records’ Life Expectancy….

“Forever -- or five years, whichever comes first...”

Jeff Rothenberg, 1995
Electronic life-cycle?

- Creation -- Preservation
  or
- Design -- Creation -- Maintenance

Where is the “record?”
Information Vs. Records

A record must possess

- CONTENT
  - Text or image

- CONTEXT
  - What is it? Who received it? How does it fit?

- STRUCTURE
  - format
Paper Records
Electronic pseudo-records
Current Best Practices

- Creation
- Preservation
  - Migration
  - Conversion
  - Encapsulation
Current Best Practices: Creation

- Electronic recordkeeping systems
  - Compliant, Accountable, Functional
  - Records are “born” appraised & scheduled

- DoD5015.2 Records Management Application Design Criteria Standard
Current Best Practices: Creation

- Names must be
  - Consistent, persistent

- Meta-data
  - Dublin Core
  - Int’l DOI Foundation
  - W3C RDF
Current Best Practices: Preservation

Problems are

- not trivial …
- not solved …
Current Best Practices: Preservation

Migration
Conversion
Encapsulation
Current Best Practices: Preservation

Migration:
a set of organized tasks designed to achieve the periodic transfer of digital materials from one hardware/software configuration to another, or from one generation of computer technology to a subsequent generation
Current Best Practices: Preservation

Migration

- Specialized data centers / certified digital archives
- Aggressive rescue of e-records
  - Neglected
  - Abandoned
  - In danger of destruction
Current Best Practices: Preservation

Conversion

- International Council on Archives
  Fermo Study (1998)

  - Migration not viable
  - Conversion is better alternative
Current Best Practices: Preservation Conversion

NEW HARDWARE

VIEW A BE INFORMATION

CURRENT SOFTWARE

CONVERSION UTILITIES

ORIGINE A SOFTWARE

ORIGINE A OPERATING SYSTEM

ORIGINE A STORAGE

ORIGINE A STORAGE
Current Best Practices: Preservation Encapsulation

Conversion won’t work!!

“As yet, no common application is ready to be standardized. We do not have an accepted, formal understanding of the ways that humans manipulate information. It is therefore premature to attempt to enumerate the most important kinds of digital applications, let alone to circumscribe their capabilities through standards.”
Current Best Practices: Preservation Encapsulation

NEW HARDWARE

NEW SOFTWARE

NEW STORAGE

VIRTUAL ENVELOPE: CONTEXTUAL / BOOTSTRAP INFORMATION

BIT STREAM: 0001110111100101011111100

VIEWABLE INFORMATION

NEW OS

INFO R M TIO N

VIE WAB IE

INFO R M TIO N

NEW HARDWARE
Current Best Practices: Preservation

- NARA-UCSD study (encapsulation)
  - http://www.sdsc.edu/NARA/Publications.html

- INTERPares project
  - http://www.interpares.org
Current Best Practices: Preservation
NARA-UCSD study

Collection-Based Long-Term Preservation

- Studied maintaining data for 400 years
- E-docs studied:
  - e-mail
  - maps
  - databases
  - web-pages
  - images
  - office automation files
Current Best Practices: Preservation
NARA-UCSD study

- Findings: It can be done! with
  - supercomputer or high-end workstation
  - commercial storage and database software
  - WWW server
- Cost: 1 billion digital objects for $2 million
  (building only: operating costs unknown….)
- Replace: every 3-5 years
Current Best Practices: Preservation
NARA-UCSD study

- Missing?

  Generic software

  - will make system easier to use
  - needs ability to handle many formats
  - XML may be the answer...
Current Best Practices: Preservation
InterPARES project

Goals:
- develop theoretical & methodological knowledge essential to the permanent preservation of authentic records
- formulate model policies, strategies and standards
Current Best Practices: Preservation InterPARES project

Participants:
- collaboration
- wide range of disciplines
- private, public and academic organizations
- from US, Canada, Australia, Ireland, UK, Netherlands, Sweden, Italy, China, Hong Kong
Current Best Practices: Preservation

ETA of Solution?

5 - 10 years
What you can do now...

- Be aware of the issues
- Be informed of the options
- Start preserving
  - the right things
  - in the right ways (for now!)
What you can do now… BE AWARE

- Create records with persistent
  - content
  - context
  - structure
- Give electronic objects persistent names
- Create adequate meta-data
What you can do now.. BE INFORMED

- Stay aware of current developments in preservation
- Be prepared to comply with developing standards
- make the right decisions ($$$) for your organization and your records
What you can do now… SAVE THE RIGHT THINGS

- Decide what to preserve:
  - Schedule your records !!
  - Make sure all records creators know the schedule
- Follow up on a regular basis:
  - review schedule
  - review records
  - review retirements
What you can do now: SAVE THE RIGHT WAY

- make formal arrangements to store permanent records with an archival repository
  - usable format
  - persistent medium
  - affordable format and medium
  - as soon as possible
Electronic Records Issues: 1999

- Live by centuries

- We will be tested first, and learn our lessons afterward…..