

IEEE/IAS PULP & PAPER INDUSTRY COMMITTEE

INTERIM MEETING

MINUTES OF THE FULL COMMITTEE

HOLIDAY INN - AIRPORT NORTH
ATLANTA, GEORGIA
THURSDAY, OCTOBER 17, 1996

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**FULL COMMITTEE MEETING
IEEE PULP & PAPER INDUSTRY COMMITTEE
INTERIM MEETING, ATLANTA, GA
HOLIDAY INN NORTH
OCTOBER 17, 1996
1:30 PM**

WELCOME & INTRODUCTIONS

Committee Chair Dave Rollay called the meeting to order at 1:15 PM. The agenda is attached as **Appendix A**. After welcoming comments, all those present stood and introduced themselves.

Dave thanked Russ Thrift for arranging the meeting accommodations and the Hospitality room. He also thanked Alan Lowe for arranging the tour on Wednesday to the Georgia Department of Transportation Control Center.

SECRETARY'S REPORT

Committee Secretary Roger Jones reported that the minutes for the last meeting were distributed since the meeting and solicited corrections or adjustments. It was moved and seconded that the minutes be accepted as distributed. Extra copies of the minutes were made available.

The minutes for the next meeting will be distributed via e-Mail or on disk in a Microsoft Word format. Members are requested to provide their e-Mail addresses. This is intended to reduce the costs of distributing the minutes. An attendance sign up sheet was circulated and is attached as **Appendix B**.

EXECUTIVE COMMITTEE REPORT

Roger reported that the Executive Committee met last night in this hotel. The meeting began at 6:00 PM and was presided over by Dave Rollay. Much of the material covered in that meeting will be covered here today. One item of business is that there will be a committee headed up by Russ Thrift that will be evaluating the location of future Interim Meetings. Russ, Alan Lowe, Rick Watkins, and Ron Mehofer will accept input. Alan Lowe will be reporting later in this meeting on the subject of continuing professional competencies for professional engineers.

BIRMINGHAM CONFERENCE REPORT

Local Conference Chair Preston Jackson recognized and thanked the people who served on the local committee as well as the people who attended the conference for making it a successful conference. He submitted his report which is attached as **Appendix C**. There were 333 attendees registered and 95 guests. Of these, 70 were first time attendees, there were nearly 100 mill attendees, and 136 registered for tutorials. Remaining conference records will be used to promote the next conference. With a few outstanding expenses yet to come in, receipts were in the neighborhood of \$122,000, and expenses just over \$80,000. Overall it was a very successful conference.

STANDING COMMITTEE REPORTS

- a) **Membership:** Dave Rollay announced that, since Ron Simpson had accepted the position as treasurer, Alan Lowe has accepted the position of Membership Chair. Ron reported that the membership of the PPIC is currently 166. However, there are 25 of those members who are not presently listed in the IAS membership listing. It is a requirement of the Operating Guide of this committee that one must be a member of the IAS to be a member of this committee. Ron has sent letters out to 32 people, seven replied and cleared the issue for them. Alan has taken the charge to try once more to contact these and failing that, to terminate their membership on the PPIC.

There are 19 people in the application process. Also, 1 person has been dropped for missing too many meetings. Latest spreadsheet of the attendance at these meetings is attached as **Appendix D**, and the latest Roster of the committee is attached as **Appendix E**

- b) **Mailing List:** Chair Bob Morse reported that the list is being updated from the data gathered at the last conference. We are also updating the Mill Managers mailing list.
- c) **Publicity:** Ron Meihofner reported that the Birmingham conference publicity report has not made it into the IAS Magazine yet because he has not received the photographs from the conference. He hopes to submit the report within the next two weeks. It has come to his attention that there is some information on our conference schedule on the IEEE web page (www.ieee.org).
- d) **Awards:** Russ Thrift reported that that the best paper award was a tie between Austin Bonnett's "Quality, Reliability, and Performance Levels of Energy Efficient Motors" and John Bentley & Pat Link's "Evaluation of Motor Power Cables for PWM AC Drives." The first and second place prize money was added and split between the two papers. The best mill paper was Doug Cruthirds & Steve Pittman's "Behavioral Based Safety Process, An Effective Compliment to OSHA Compliance." Russ recognized the efforts of the paper judges for the conference: Elton Parker, Alan Lowe, Sid Ticker, Kirk Armintor, and Jack Dwyer. The Meritorious Engineering and Meritorious Service Awards were presented to Dick Morrison and Ken Riddle respectively at the Birmingham conference. Russ solicited that anyone who had thoughts about nominations for these awards should contact him or Clayt Reid. We recommended 12 papers from the 1996 Conference to be published in the IEEE Industry Applications Magazine. Four have been selected for the Jan/Feb issue. We recommended 8 papers for publication in IEEE Transactions. Paper reviewers' names will be published with the papers as they are published.
- e) **Conference Sites:** Philip Fransen has agreed to be the Chairman of this committee. Philip reported that the conferences will be in Cincinnati - 1997, Portland, ME - 1998, Seattle - 1999, and Atlanta - 2000. Presently looking for a conference site for 2001 - 2004. The conference in 2004 will be our fiftieth annual conference. Presently Portland, OR, Victoria, BC, and Toronto, ON are interested in possibly hosting future conferences. Philip then reviewed the sites of previous conferences attached as **Appendix F**. He then solicited suggestions for the 2004 Conference. A discussion ensued regarding the lack of a person responsible for keeping the archives of the committee.
- f) **Fellows Nominations:** Chair Clayt Reid reported that we have three submittals into the IEEE. They are John Holmquist, John Bentley, and Mike Glenn. We will not know until December what the status of those are. He is planning to rework the nominations in the event they do not go through.

TREASURER'S REPORTS

Past Treasurer Roger Jones reported that the paper work is in for completing the Nashville audit. This is expected to be finalized and included in the minutes of this meeting. The summary is attached as **Appendix G**.

Past Treasurer Roger Jones reported that the Vancouver audit is reported by the IEEE to be complete. However, he has been unable to obtain a copy of the final audit nor has he seen a copy of the letter from the IEEE certifying the audit.

LIAISON REPORTS

- a) **TAPPI:** Burt Judson reported that TAPPI's PCE&I will meet in Birmingham at the Sheraton Hotel and an equipment show will accompany the conference. The dates are 3/10 - 13.
- b) **CPPA:** Clayt Reid reported that the meeting and equipment show will be in Montreal at the end of January.
- c) **IAS:** Clayt Reid reported that, at the IAS Conference, Austin Bonnett received the IAS Achievement award. Rich Carle won the first IAS Magazine award for an article of his. IAS will have a membership booth at the next PPIC conference. Note that IAS is 12,000 of approximately 200,000 total IEEE members.

OPERATING SUBCOMMITTEE REPORTS

- a) **EMMC:** Russ Thrift reported that there were 16 present in the meeting with a lot of input from mill people. Four papers and a panel are proposed for the conference and Rhonda Banks and Jack Dwyer will be paper graders. **Appendix H**.
- b) **PDS:** Alex Wu reported that attendance was 18 members and 3 guests. They are proposing 19 papers total with 9 of these solid papers and 1 panel. Paper reviewer is Tung Chao. **Appendix I**.

- c) **TSSC:** Robert Cotton proposed 3 papers and one 15- minute code update. Steve Pittman will be paper reviewer. **Appendix J.**
- d) **DCS:** Burt Judson reported for Mark Weaver. Twenty four attended and proposed 13 papers and one tutorial. Paper grader will be Duncan Rhodes. The tutorial will be on the topic on the Motor Master Program and will require a PowerPoint projection capability. Participants will be asked to bring their laptops for hands on software instruction. **Appendix K.**
- e) **CBS:** Reno Tonsi reported that 9 members and 2 guests were present. Kirk Armintor will be the paper reviewer. Four papers, one panel, and one tutorial are proposed. Blake Lloyd will work on a Home Page for the PPIC and submit it to the Executive Committee for their approval. **Appendix L.**
- f) **Power Quality (Ad-Hoc):** Ed Reid reported that 6 members and 2 guests attended. Approximately 5 of the proposed papers are power quality issues. **Appendix M.**
- g) **Motor Specifications/Recommended Practices (Ad-Hoc):** Austin Bonnett reported that the group looking at IEEE 841 motor standards. Approximately 50 attended in June and they will meet after the meeting. **Appendix N.**

1997 CINCINNATI CONFERENCE REPORT

Bruce Clayton reported that the tours planned for Tuesday will be 1) Wright Patterson AFB and their Museum of Aviation, and 2) the King’s Island amusement park - a tour of the inner workings of the park continuing on to the Aviation Museum. The social event for Thursday will be at Coney Island and will be a State Fair Motif. The local committee is working to encourage first time attendees and local (200 mile radius) attendees.

1997 CINCINNATI TECHNICAL PROGRAM

Larry Thomas visited each subcommittee this morning and gave each chair a form to better list the papers proposed by the respective subcommittees. The chairs got together at lunch to review the proposed papers and the new paper readiness/rating report. This report was reviewed for the full committee. Below is the tally of the papers proposed for the 1997 Annual Conference.

| IEEE IAS PPIC PAPER TALLY FOR 1997 | | | | | | | |
|--|---|----------|-----------|----------|----------|----------------|------------|
| | | | | | | | |
| | <i>Class A paper has a sponsor, a committed author, an abstract, and a rough draft in hand ready for review</i> | | | | | | |
| | <i>Class B paper has a sponsor, a committed author, and an abstract in hand</i> | | | | | | |
| | <i>Class C paper has a sponsor, and a committed author</i> | | | | | | |
| | <i>Class D paper has a sponsor, and an identified author</i> | | | | | | |
| | <i>Class E paper has a sponsor and we would like to find an author but no one has been contacted.</i> | | | | | | |
| | | | | | | | |
| | CLASSIFICATION | | | | | | |
| | A | B | C | D | E | Tutorials | Panels |
| DCS | 4 | 5 | 4 | | | 1 | |
| CBS | 1 | 1 | 1 | | 1 | 1 | 1 |
| TSSC | 1 | 1 | | | 1 | | NEC UPDATE |
| EMMC | 2 | 1 | 1 | | | | 1 |
| PDS | 9 | 2 | 4 | | 4 | 1 | |
| TOTAL | 17 | 10 | 10 | 0 | 6 | 3 | 2 |
| Potential Grand Total | | | 37 | | | as of 10/21/96 | |
| <i>Notice to all sub committee chairman and sponsors:</i> | | | | | | | |
| <i>We need to get as many B and C classified papers moved into the A classification by November 4th as possible.</i> | | | | | | | |

The tutorial listed for PDS is actually going to be a panel presentation.

Larry admonished the sponsors of the papers to ensure that the papers get finished and submitted.

Larry will be writing a letter to encourage new attendees to attend the subcommittee meetings and participate in the business of the committee. The letter will explain the organization of the committee.

FUTURE CONFERENCE SITES

- 1998 Portland, ME Tom Osborne is putting together a committee. The hotels are the Sonesta and the Holiday Inn and are 5 minutes walk apart.
- 1990 Seattle, WA John Holmquist reported that Mark Weaver is making the arrangements for the trip to a Salmon Feast on an island that is an Indian village.
- 2000 Atlanta, GA Charlie Canty reported that conference date will probably be changed to the 3rd week in June (19-23). The hotel selection is not yet firmed up.

OLD BUSINESS

Alan Lowe reported on the subject of continuing professional competency units for Registered Professional Engineers to maintain their licenses. This report is attached as **Appendix O**. PDHs can be acquired by presenting or attending qualified seminars which means that one who attends the technical sessions can pick up hours. Authoring papers earns 10 hours and active participation on the PPIC will also qualify for hours. The individual will be responsible for ensuring that their state will accept the PDHs resulting from the IEEE participation. A voucher will be made available at the sessions.

Burt Judson reported on the conference critique and has put together a summary of suggested titles and topics and distributed these to the subcommittee chairs for consideration in their meetings. There are many good ideas and encouragements for the subcommittees.

Burt also reported on the results of the Executive Committee teleconference. This is attached as **Appendix P**. The Executive Committee has initiated action on most of these topics.

John Bentley reported on the passing of a former member and Meritorious Service Award recipient: Marty Fisher. Marty usually insisted that the people who worked for him join at least one professional organization and present at least one technical paper per year -- an excellent example for those of us who are in management.

NEW BUSINESS

Clayt Reid brought up the subject of encouraging young engineers to attend our conferences and identify ways for them to become more active on our committee. He will continue to pursue this and report at the next conference.

The meeting was adjourned.

**FULL COMMITTEE AGENDA
IEEE PULP & PAPER INDUSTRY COMMITTEE
INTERIM MEETING, ATLANTA, GA
HOLIDAY INN NORTH
OCTOBER 17, 1996
1:30 PM**

- | | | | |
|--|----------------------|----------------------|------------|
| 1 - Welcome & Introductions | | Dave Rollay | |
| 2 - Review/Approval of Minutes of last Meeting | | Roger Jones | |
| 3 - Executive Committee Report | | Roger Jones | |
| 4 - Birmingham Conference Report | | Preston Jackson | |
| 5 - Standing Subcommittee Reports: | | | |
| a - Membership | | Ron Simpson | |
| b - Mailing List | | Bob Morse | |
| c - Publicity | | Ron Meihofer | |
| d - Awards | | Russ Thrift | |
| e - Conference Sites | | Dave Rollay (acting) | |
| f - Fellows Nominations | | Clayton Reid | |
| 6 - Treasurers Report | | Ron Simpson | |
| a - Vancouver Audit Report | | | |
| b - Birmingham Audit Report | | | |
| 7 - Liaison Reports: | | | |
| a - TAPPI | | Burt Judson | |
| b - CPPA | | Clayton Reid | |
| c - IEEE-IAS | | Clayton Reid | |
| d - IEEE-Safety & Energy | | Alex Dean | |
| e - IEEE - Standards Coordinating | | Jim Daly | |
| 8 - Operating Subcommittee Reports: | | | |
| a - EMMC | | Rick Watkins | |
| b - PDS | | Alex Wu | |
| c - TSSC | | Robert Cotton | |
| d - DCS | | Mark Weaver | |
| e - CBS | | Reno Tonsi | |
| f - Power Quality/AD-HOC | | Ed Reid | |
| g - Motor Spec./Recommended Practices/AD-HOC | | Austin Bonnett | |
| 9 - 1997 Cincinnati Conference Report (June 16-20, 1997) | | Bruce Campbell | |
| 10 - 1997 Cincinnati Technical Program | | Larry Thomas | |
| 11 - Future Conferences: | | | |
| 1998 - Portland, ME | Sonesta, H.I. | Tom Osborne | June 20-26 |
| 1999 - Seattle, WA | Four Seasons/Olympia | Mark Weaver | June 21-25 |
| 2000 - Atlanta, GA | | Charlie Canty | June 12-16 |
| 12 - Old Business | | | |
| 13 - New Business | | | |

IEEE PULP & PAPER INDUSTRY COMMITTEE

FULL COMMITTEE MEETING

THURSDAY OCTOBER 17, 1996

| NAME | COMPANY | CITY |
|--|----------------------------------|------------------------------|
| P. J. Rouillier | GE Company | Birmingham, AL |
| Ken Adams | Square D Co. | Smyrna, TN |
| STEVE PITMAN | POTLATCH PULP & PAPER | LEWISTON, ID |
| J. R. (ROSS) THRIFT | GEORGIA POWER | ATLANTA, GA |
| S. P. REDDY | BE&K ENG CO | BIRMINGHAM, AL |
| Ed Reid | Qual-Tech Engineers | Pittsburgh, PA |
| RALPH SHEAD | ROCKWELL COMPANY | ATLANTA, GA |
| Tung Chao | Jacobs-Sirrine Engineers | Raleigh, NC |
| Bud Palmer | Qual-Tech Eng's | Sanford, NC |
| FRANK W. LIGGETT | ROCKWELL AUTOMATION | ATLANTA, GA (GUEST) |
| DUNLAN RHODES | ROCKWELL AUTOMATION | DULUTH, MN |
| Bill Vitcheck | Westinghouse Electric | Pittsburgh, PA |
| Jack Dwyer | Appleton Elec. Co. | Chicago, IL |
| LUC SEEVER | GE | Appleton, WI |
| Dave Mintzloff | Rockwell Automation | Megun, WI |
| BRUCE CAMPBELL | SIEMENS | CINCINNATI, OHIO |
| BOB MORSE E-MAIL - 103476.1712@COMPUSERVE.COM | BOB MORSE INC @COMPUSERVE.COM | ROANOKE VA |
| DICK MORRISON | BOISE CASCADE | JACKSON, AL |
| MIKE GLENN | Longview FIBRE Co. | Longview WA 98652 |
| CHAYN REID | Rockwell Auto | Cambridge ON |
| Gene DAVIS | GEMIS-ES | HOUSTON, TX |
| WALT JAMES | GE | SALEM, VA |
| Dinah King | Gulf Power | Pensacola, FL |
| Janet Flores | Rockwell Automation | Houston, TX |
| BRUCE PARKMAN | SIEMENS | BIRMINGHAM, AL |
| PREM TAGRA | SANDWELL INC | ATLANTA, GA |
| SURESH SHARMA | DMI | PEACE RIVER, ALBERTA, CANADA |
| PATRICK LINK | ABB INDUSTRIAL SYSTEMS | DULUTH, GA |

IEEE PULP & PAPER INDUSTRY COMMITTEE

FULL COMMITTEE MEETING

THURSDAY OCTOBER 17, 1996

| NAME | COMPANY | CITY |
|-------------------|-----------------------------|--|
| RON MEINHOFFER | Eurotherm Drives | Marietta, GA |
| PHILIP FRANSEN | FRANSEN ENGINEERING | RICHMOND, B.C. |
| ALEX Y. WU | GLOBAL ENL Co | ATLANTA, GA |
| John R. Holmquist | Weyerhaeuser | Tacoma, WA |
| Stan Merritt | Merritt & Assoc. | FRANKLIN VA |
| AUSTIN H. BONNETT | US ELECTRICAL MOTORS | ST LOUIS MO. |
| Tom Shearer | Rockwell Automation | Seattle, WA |
| Richard Palmer | Harris Group Inc | Portland, Ore. |
| PREM TAGRA | SANDWELL INC | ATLANTA, GA |
| SURESH SHARMA | DJI | PEACE RIVER, ALBERTA, CANADA |
| Frank Newman | SE PAPER, DUBLIN, GA | frank.newman@sepaper.com |
| Robert Cotton | Southwire Company | robert_cotton@southwire.com |
| Phung Le | Champion Int'l Corp | HAMILTON, OH Email: Phung.Le@Champ-Int.com |
| MICHEL RIVERIN | ROY. MARCHAND | 10581 LOUIS H. LAFONTAINE VILLE ANJOU P. QUE. CANADA HIS-ARB |
| Elton L. Parker | Cutler-Hammer | Charlotte, NC EMAIL: PARKEREL@aol.com |
| CHAND TAILOR | Cutler-Hammer | Greenwood, SC |
| Bob Bengston | Green Bay Pkg-AKD | Morrilton, Ark. |
| Vestal Tutterow | Lawrence Berkeley Nat. Lab. | Washington, DC vtutterow@lbl.gov |
| FARIDA KHAN | PIRELLI CABLE | Atlanta, GA |
| Rhonda Banks | Westvaco Corp. | N. Charleston, SC |
| Laurie Kirek | Westvaco Corp | N. Charleston, SC lkirek@awac.com |
| BURT JUDSON | Rockwell Automation | Cleveland, OH |
| PRESTON JACKSON | BE&K ENGINEERING | BIRMINGHAM, AL Pjackson5A@aol.com |
| STEVE GREGORY | BUSSMANN | ATLANTA, GA |
| JOHN BENTLEY | RETIRED | CEDARBURG, WI hbprk162@prodigy.com |
| CHARLIE CANTY | SANDWELL, INC | ATLANTA, GA |
| | | |
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**IEEE PULP & PAPER INDUSTRY COMMITTEE
FULL COMMITTEE MEETING
THURSDAY OCTOBER 17, 1996**

| NAME | COMPANY | CITY |
|--|--|------------------|
| Alan Lowe ^{ALOWE@HASIMONS.COM} | Simons Engineering, Inc | Atlanta, GA * |
| TIM O'BORNE ^{TMO@BORNE@HASIMONS.COM} THOMAS OSKULSKI | SIMONS ENGINEERING | PORTLAND, ME |
| Bruce Graves | World Wide Technologies | GREENVILLE, SC |
| Patrick Dooley | VIRGINIA TRANSFORMER | ROANOKE, VA. |
| KARMINATOR @ AOL.COM KIRK ARMINTOR | ROCKWELL AUTOMATION RELIANCE ELECTRIC | BEAUMONT, TX |
| JOHN THOMPSON VINSON WOOD ^{VINSONWOOD@BOWINC.COM} | THE BELLIT CORPORATION | BIRMINGHAM, AL |
| WAYNE VINSON | BOWATER INC. | CATAWBA, S.C. |
| Del Ventruella | GE ^{Del.Ventruella@GEMES.COM} | Birmingham, AL |
| CHARLES WOOD | RAYTHEON ENGRS & CONSTR | BIRMINGHAM, AL |
| Rayburn Smith | Consulting Engineer | Birmingham, AL |
| PHILIP L. POOLE ^{PHILIP.L.POOLE@CONSIST.PC.CW.AL.WM} | TENNECO PACKAGING | VALDOSTA, GA |
| RENO TONSI | ROCKWELL AUTOMATION | MAXFIELD HGT, OH |
| BLAKE LLOYD (^{BLLOYD@IRISPOWER.COM}) | IRIS POWER | TORONTO, CANADA |
| JIM SIMPSON ^{Jim_Simpson@uacil.com} | RAYTHEON ENGINEERS & CONSTR | BIRMINGHAM, AL |
| MIKE JHAVERI (^{Jhaveri@Juno.com}) | CHAMPION INTERNATIONAL CORP. | HAMILTON, OH |
| JOE MOELINO ^{MOELINO@JUNO.COM} | CHAMPION | HAMILTON, OH |
| YUEXIN YIN | Global Engineering Co. | Atlanta, GA |
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| | | |
| | | |
| DAVE ROLLAY | | |
| LARRY THOMAS | | |
| RON SIMPSON | | |
| ROGER JONES | | |

IEEE PULP & PAPER CONFERENCE 1996
BIRMINGHAM, ALABAMA
INTERIM REPORT

OCTOBER 16, 1996

| | | |
|-----|---|-----|
| 1. | DETAILED SUMMARY ATTACHED | |
| 2. | REGISTERED ATTENDEES | 333 |
| 3. | REGISTERED GUEST | 95 |
| 4. | TOTAL ATTENDEES + GUEST | 428 |
| 5. | BANQUET | 467 |
| 6. | SOCIAL EVENING | 284 |
| 7. | THURSDAY LUNCHEON | 305 |
| 8. | HOSPITALITY SUITES | 8 |
| 9. | FIRST TIME ATTENDEES | 70 |
| 10. | TUTORIALS | 136 |
| 11. | MILL TOUR | 55 |
| 12. | CONFERENCE RECORDS LOCAL COMMITTEE/SURPLUS DECISION (FUTURE CONFERENCE PROMOTION) | 73 |
| 13. | AUDIT REPORT AFTER OUTSTANDING BILLS AUTHOR'S GIFTS INTERIM MEETING LOCAL COMMITTEE DINNER | |

| Data | IEEE Member | | Grand Total | Notes | free | |
|--------------------------------------|-------------|----------|-------------|-------|------|---|
| | 0 | 1 | | | 0 | 1 |
| Sum of Advanced Full Registration | 74 | 173 | 247 | | | |
| Sum of Advanced Full Reg amount | \$19,240 | \$39,790 | \$59,030 | | | |
| Sum of Full Registration | 20 | 20 | 40 | | | |
| Sum of Full Registration amount | \$6,200 | \$5,600 | \$11,800 | | | |
| Sum of Single Day Wed | 15 | 6 | 21 | | 1 | 1 |
| Sum of Wed only amount | \$2,320 | \$675 | \$2,995 | | | |
| Sum of Single Day Thurs | 6 | 5 | 11 | | | |
| Sum of Thurs only amount | \$840 | \$575 | \$1,415 | | | |
| Sum of Retired members of Gen Com | 0 | 6 | 6 | | | |
| Sum of Retired member's amount | \$0 | \$600 | \$600 | | | |
| Sum of Life member (no fee) | 0 | 8 | 8 | | | |
| Sum of Advanced Wive's program | 15 | 72 | 87 | | | |
| Sum of Advanced Wive's program cost | \$1,500 | \$7,200 | \$8,700 | | | |
| Sum of At Conf Wives Program | 1 | 7 | 8 | | | |
| Sum of At Conf Wives Program cost | \$125 | \$875 | \$1,000 | | | |
| Sum of Guest Banquet | 13 | 45 | 58 | | 2 | 1 |
| Sum of Guest Banquet amount | \$495 | \$1,980 | \$2,475 | | | |
| Sum of Social Evening | 86 | 198 | 284 | | 5 | 1 |
| Sum of Social amount | \$3,645 | \$8,865 | \$12,510 | | | |
| Sum of Luncheon | 2 | 5 | 7 | | 2 | 1 |
| Sum of Luncheon amount | \$0 | \$80 | \$80 | | | |
| Sum of Tutorial 1 | 23 | 53 | 76 | | | |
| Sum of Tutorial 1 amount | \$1,135 | \$1,855 | \$2,990 | 1 | | |
| Sum of Tutorial 2 | 11 | 30 | 41 | | | |
| Sum of Tutorial 2 amount | \$660 | \$1,350 | \$2,010 | | | |
| Sum of Tutorial 3 | 2 | 3 | 5 | | | |
| Sum of Tutorial 3 amount | \$70 | \$105 | \$175 | | | |
| Sum of Tutorial 4 | 3 | 16 | 19 | | | |
| Sum of Tutorial 4 amount | \$210 | \$895 | \$1,105 | 2 | | |
| Sum of Tutorial 5 | 24 | 31 | 55 | | | |
| Sum of Tutorial 5 amount | \$1,200 | \$1,085 | \$2,285 | | | |
| Sum of Additional Conference Records | 7 | 66 | 73 | 3 | | |
| Sum of Records amount | \$305 | \$2,640 | \$2,945 | | | |
| Sum of MISC (3 bus tickets@3(\$27)) | \$0 | \$81 | \$81 | | | |

SUBTOTAL CONFERENCE \$ \$112,196

company sponsors @ 35(\$250 each)+1(\$300) \$9,050

TOTAL CONFERENCE \$ \$121,246

TOTAL TUTORIAL \$ \$8,565

TOTAL REGISTERED ATTENDEES (full week to one day) 333

Total Registered Guests 95

Total Registered Attendees+Guests 428

Total Wed Banquet Attendees 467

Total Social Evening Attendees 284

Total Thursday Luncheon Attendees 305

NOTES:

1) Bob Brophy, a non-member, paid member price (\$35.00)

2) James White, a member, paid non-member price (\$70.00)

3) Stephen Hilder and Suresh Sharma, non-members, paid member price (\$40.00) each

ATTENDANCE

APPENDIX D

| | 77 | 78 | 79 | 80 | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 95 | 96 |
|-------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | A/I | A/I | A/I | A/I | A/I | A/I | A/I | A/I | A/I | A/I | A/I | A/I | A/I | A/I | A/I | A/I | A/I | A/I | A/I | A/I |
| Ken Adams | | | | | | | X/X | X/X | X/X | X/X | X/X | X/X | X/X | X/X | X/X | X/X | X/X | X/X | X/X | X/X |
| Raj Anand | | | | | | | | | | | | | | E/X | X/X | O/X | E/X | E/O | O/E | O/O |
| Jack Anderson | X/X | X/X | X/X | X/X | X/E | X/X | E/X | X/X | X/E | X/E | X/X | X/E | X/E | X/O | X/E | X/O | X/E | X/O | X/O | O/O |
| Jerry Archer | | | | | | | | | | | | | | /O | O/O | E/O | O/E | O/E | X/O | O/R |
| Kirk Armintor | | | | | | | | | | | | | | | X/O | E/X | O/O | X/X | X/E | X/X |
| Joe Armstrong | | | | | | | | | | | | | | | | | O/E | O/E | X/X | X/O |
| William Baker | | | | | | | | | | | | | | | | | | | | O/O |
| Ronda Banks | | | | | | | | | | | | | | | | | | | X/E | O/X |
| Jay Bannerjee | | | | | | | | | | | | X/X | X/X | X/X | X/X | X/X | E/E | E/E | X/O | E/O |
| Robert Bengston | | | | | | | | | | | | | | | | | | | X/X | X/X |
| John Bentley | | | | | | | X/E | X/X | X/E | X/X | X/E | X/X | X/X | X/X | X/X | X/X | X/X | X/E | X/X | X/X |
| Mel Bernard | | | | | | | | | | | | | | | | | | O/O | O/O | O/O |
| Austin Bonnett | | | | | | | | | | | | | | X/X | X/X | X/X | X/X | X/X | X/X | X/X |
| Ken Box | | | | | | | | | | | | | | | | | E/X | X/X | E/O | O/O |
| Terry Branch | | | | | | | | | | | | /E | X/X | X/O | X/E | X/X | X/O | X/O | O/E | E/O |
| Darrell Broussard | | | | | | | | | | | | | | | | | | O/O | O/R | O/O |
| Ken Bruni | | | | | | | | | E/X | X/X | X/E | X/X | X/X | X/E | X/E | X/O | X/E | X/O | X/O | X/O |
| Rich Butler | | | | | | | | | | | | | /X | X/X | X/X | X/X | X/X | X/X | X/X | O/O |
| Lloyd Cain | | | | | | | X/X | X/X | X/X | X/X | X/E | X/E | X/E | X/E | X/E | X/E | X/O | X/X | X/X | X/O |
| Bruce Campbell | | | | | | | | | | | | | /X | X/E | X/O | X/X | X/X | X/O | X/X | X/X |
| Charlie Canty | | | | | | | | X/X | E/E | E/X | E/O | X/X | E/E | X/X | O/X | X/O | E/O | E/X | E/X | |
| Richard Carle | | | | | | | | | | | | | | | | | | E/E | O/O | |
| Roger Case | | | | | | | | | | | | | | | | | X/O | X/X | X/X | O/O |
| TC Chao | | | | | | | | | | | | X/X | X/X | X/X | X/X | O/O | X/X | X/O | X/E | E/X |
| Stephen Cheek | | | | | | | | | | | | | | | | | | O/O | O/O | O/O |
| Mike Cipicchio | | | | | | | | | | | | | | X/E | O/E | E/X | E/X | O/O | O/O | E/O |
| Bruce Clayton | | | | | | | | | | | | | /X | O/E | X/E | E/E | O/X | X/X | X/O | O/O |
| L. W. Cleveland | | | | | | | | | | | | | | | | | | E/E | E/O | O/O |
| Richard Cook | | | | | | | | X/E | X/O | X/X | X/X | X/E | O/O | X/X | O/X | X/X | O/O | O/O | O/O | O/O |
| Robert Cotton | | | | | | | | | | | | | | | | | X/X | X/X | X/X | X/X |
| Ray Crane | | X/O | X/E | X/E | X/E | E/O | X/E | X/E | X/E | X/X | X/X | X/X | X/E | X/E | X/X | X/E | X/E | X/E | X/O | X/O |
| Pete Crawford | X/X | E/X | E/E | E/X | X/X | X/E | X/E | X/X | X/E | E/E | X/E | X/E | X/X | X/X | X/X | X/O | E/E | E/E | O/O | E/O |
| Jim Daly | X/X | X/X | E/X | X/E | E/X | X/E | E/E | X/E | X/X | X/E | X/O | X/E | E/X | X/X | X/X | X/E | X/E | X/O | E/X | E/E |
| Gene Davis, Jr. | | | | | | | | | | | | | | | | | | | /E | X/X |
| Del Decker | | | | | | | | | | | | | | | | | X/O | X/E | O/O | O/O |
| Fred Dellie | | | | | | | | | | | | | /X | X/O | O/X | X/E | E/E | E/E | E/E | O/O |
| Don Deyo | | | | | | | | | | | | | /E | X/X | X/X | X/X | X/O | E/X | X/X | E/O |
| Pat Dooley | | | | | | | | | | | | | | | | | | X/X | X/X | X/X |
| Jack Dwyer | | | | | | | | | | | | | | | | | | | /X | X/X |
| Stephen Dymes | | | | | | | /E | X/E | X/E | E/X | E/O | E/E | X/E | O/E | X/X | X/E | X/O | O/E | E/E | |
| Eddie Edwards | | | | | | | | | | | | | | | /X | X/X | X/X | E/E | E/O | O/O |
| Pete Famighetti | | | | | | | | | | | | X/O | X/O | X/E | X/X | X/E | X/E | E/E | E/E | E/O |
| Dave Fancher | | | | | | | | | | | | | | | | | O/X | O/O | O/O | O/O |
| Bob Finke | | | | | | | | | | | | | | X/E | X/X | X/X | X/E | E/X | X/O | X/O |
| Janet Flores | | | | | | | | | | | | | | | | | | | X/X | X/X |
| Jerome Frank | | | | | | | | | | | | | | | | | | /E | O/O | |
| Phil Fransen | | | | | | /E | X/E | X/E | X/X | X/X | E/E | E/E | X/E | E/O | X/X | O/O | X/E | X/E | X/X | |
| Bob Fritz | X/X | X/X | X/E | X/X | X/X | X/X | X/X | X/X | X/X | X/X | X/X | X/X | X/X | X/X | X/X | E/X | X/O | E/E | X/O | O/E |
| Allen Fugler | | | | | | | | | | | | | | | | | | | O/O | O/O |
| Bob Giese | | | | | | | | /E | X/O | E/E | O/O | X/E | E/E | X/O | E/O | E/E | X/E | X/O | | |

ATTENDANCE

APPENDIX D

| | 77 | 78 | 79 | 80 | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 95 | 96 |
|-----------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | A/I | A/I | A/I | A/I | A/I | A/I | A/I | A/I | A/I | A/I | A/I | A/I | A/I | A/I | A/I | A/I | A/I | A/I | A/I | A/I |
| Mike Glenn | | | X/X | X/X | X/X | X/X | X/X | X/X | X/X | X/X | X/E | X/E | X/X | X/X | X/X | X/X | E/X | X/O | E/X | X/X |
| Roger Goan | | | X/X | X/E | X/O | E/X | X/X | X/X | X/X | X/E | X/E | E/X | X/E | X/E | E/X | X/E | E/O | E/X | X/X | O/O |
| Dwight Goggans | | | | | | | | | | | | | | | | | E/E | E/O | O/O | O/O |
| Bruce Graves | | | | | | | | X/X | E/X | X/X | X/X | X/X | X/X | E/E | X/X | E/X | E/O | E/E | X/O | O/X |
| John Green | | | | | | | | | | | | | | O/O | O/O | X/O | X/X | E/O | E/E | O/O |
| Chuck Grucella | | | | | | | | | | | | | /E | X/E | E/X | X/E | X/E | X/E | X/E | E/E |
| Bucky Hammonds | | | | | | | | | | | | | | | | | | | O/X | X/O |
| Grady Hart | | | | | | | | | O/X | E/X | X/X | X/X | E/X | X/O | O/O | O/X | X/X | O/O | O/O | O/D |
| Ron Haskins | | | | | | | | | | | | | | X/X | E/X | X/X | X/X | E/E | O/O | O/O |
| John Holmquist | | | | | | | | | /E | X/E | X/X | X/X | X/E | X/X | X/E | X/X | X/X | X/X | X/X | X/X |
| Claude Hudson | X/O | X/E | X/O | X/O | X/E | X/X | X/E | X/X | X/E | X/E | X/O | E/O | X/O | X/O | X/O | X/X | X/O | X/E | X/O | X/O |
| Curt Ivey | X/X | X/X | X/X | X/X | X/X | X/X | X/X | X/X | X/X | X/X | X/X | X/X | X/X | X/X | X/X | E/E | X/E | E/E | E/E | E/E |
| Preston Jackson | | | | | | | | | O/X | E/X | X/E | X/E | X/E | X/X | X/E | X/X | X/E | X/E | X/X | X/X |
| Barbara Jensen | | | | | | | | | | | | | | | | | | | X/X | O/O |
| Mike Jhaveri | | | | | | | | | | | | | | /O | X/X | O/X | O/E | X/E | X/X | |
| Rory Johnson | | | | | | /O | X/X | X/X | X/E | E/O | E/E | X/X | X/O | X/O | X/X | X/O | X/E | X/X | X/O | |
| Bob Jones | | | | | | | | | | /X | X/E | X/E | X/X | X/X | X/E | E/X | X/O | E/O | O/O | |
| Roger Jones | | | | | | | | | | X/X | X/X | X/X | X/X | X/X | X/X | X/X | X/X | X/X | X/X | |
| Walt Jones | | | /X | X/X | X/X | X/X | X/X | X/X | X/E | E/E | X/X | X/X | X/X | X/X | X/X | X/X | X/X | X/X | O/X | X/X |
| Robert Jordan | | | | | | | | | | | | | | | | | | | | E/O |
| Chris Jouppi | | | | | | | | | | | | | | | | | | X/X | E/O | E/O |
| Burt Judson | X/X | X/X | X/E | X/X | X/X | X/E | X/X | X/E | X/X | X/X | X/X | X/X | X/X | X/X | X/X | X/X | X/X | X/X | X/X | X/X |
| Dick Kane | | | | | | | | | | | | | /X | X/E | X/E | O/O | O/X | X/E | X/E | X/E |
| John Kay | | | | | | | | | | | | | | | /O | X/X | X/X | X/X | X/X | X/E |
| Farida Khan | | | | | | | | | | | | | | X/X | X/E | X/X | X/X | X/O | O/O | O/X |
| Shoaib Khan | | | | | | | | | | | | | | /E | X/O | X/O | X/O | X/O | X/O | X/O |
| Laurie Kirek | | | | | | | | | | | | | | | | | /X | X/X | X/X | O/X |
| Brian Kochan | | | | | | | | | | | | | | | | | | | | O/R |
| Mike Kozlowski | | | | | | | | | | | | | | | | | | O/O | O/O | O/O |
| Richard Kramer | | | | | | | | | | | | | | | /O | X/E | X/E | X/O | X/E | E/E |
| Jim Kushner | | | | | | | | | | | | | | | | | O/O | X/O | O/O | O/O |
| Neville Laing | | | | | | | | | | | | | | /E | E/E | X/E | E/E | X/O | O/E | X/E |
| Larry Layman | | /X | X/X | X/E | X/O | X/E | X/E | X/X | X/E | X/E | E/E | X/E | X/X | X/E | E/X | X/E | X/X | X/E | X/X | X/O |
| Phung Le | | | | | | | | | | | | | | | | | | | | O/O |
| John Levine | | | | | | | | | | | | | | | | /X | E/X | X/X | E/X | X/O |
| Pat Link | | | | | | | | | | | | | | | | | /X | X/E | E/E | X/X |
| Blake Lloyd | | | | | | | | | | | | | | | | | | X/E | X/X | X/X |
| Alan Lowe | | | | | | | | | | | O/E | X/E | X/X | X/X | X/X | X/X | X/X | X/E | X/X | X/X |
| Tom Lowery | | | | | | | | | | | | | | /X | X/X | X/X | X/X | X/E | X/X | O/O |
| Indra Madan | | | | | | | | | | | | | | X/X | X/E | E/O | O/O | E/O | E/O | O/O |
| George Matto | | | | | X/E | E/O | X/E | E/E | X/E | E/E | X/E | X/E | X/O | E/E | X/O | O/O | X/O | X/O | E/O | X/E |
| Ron Meihofner | X/X | X/X | X/E | X/X | X/X | X/X | X/X | X/X | X/X | X/X | X/X | X/X | X/X | X/X | E/X | X/X | X/X | X/X | X/X | X/X |
| Larry Menche | | | | | | | | | | | | | | | | | | X/E | X/X | X/O |
| Stan Merritt | | X/E | X/E | X/E | X/X | X/X | X/X | X/X | X/X | X/X | X/X | X/X | X/X | X/X | X/X | X/X | X/X | X/X | X/X | X/X |
| Joe Miller | | /E | O/E | X/E | X/E | X/O | X/E | X/E | X/E | X/E | X/X | X/X | X/X | X/O | X/E | X/X | X/E | X/E | X/E | O/O |
| David Mintzloff | | | | | | | | | | | | | | | | | | | | O/X |
| Zafer Mohiuddin | | | | | | | | | | | | | X/O | E/O | E/E | O/O | O/O | E/O | O/O | O/O |
| Jim Moore | | | | | | | | | | | | | O/X | O/O | X/X | X/X | O/O | O/E | E/O | O/O |
| Bob Moore | | | | | | /X | X/O | X/X | E/X | X/O | X/O | X/O | X/O | X/O | X/O | X/O | X/O | X/O | X/X | X/O |
| Joe Morlino | X/E | X/E | X/E | X/E | O/X | X/X | X/X | E/E | X/X | X/O | E/X | X/X | X/X | X/X | X/E | E/E | E/E | E/E | E/O | X/X |
| Dick Morrison | | | | | | /X | X/X | X/X | X/X | E/X | X/X | X/X | E/X | X/X | X/X | E/X | X/X | R | X/X | X/X |

ATTENDANCE

APPENDIX D

| | 77 | 78 | 79 | 80 | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 95 | 96 | |
|------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | A/I | A/I | A/I | A/I | A/I | A/I | A/I | A/I | A/I | A/I | A/I | A/I | A/I | A/I | A/I | A/I | A/I | A/I | A/I | A/I | |
| Bob Morse | X/E | X/X | X/E | X/X | X/X | X/X | E/E | X/E | X/E | X/X | X/X | X/E | X/X | X/X | X/E | X/X | X/X | X/X | X/X | E/X | |
| Frank Newman | X/X | X/X | E/X | X/X | X/X | X/X | X/X | X/X | X/X | X/X | X/X | X/E | E/E | X/E | X/E | E/X | E/X | X/X | E/E | X/X | |
| John O'Kroneg | | | | | | | | | | | | X/E | X/E | X/E | X/E | X/E | E/O | O/O | E/O | O/O | |
| Don Oliver | | | | | | | | | | | | | | O/E | E/E | E/E | E/E | O/O | E/O | O/O | |
| Tom Osborne | | | | | | | | | | | | | | | | | | O/E | X/E | X/X | |
| Bud Palmer | | | | | | | | | | | | X/X | O/X | X/X | X/X | X/X | X/X | X/O | E/X | E/X | |
| Richard Palmer | | | | | | | | | | | | | | | | | | | X/X | X/X | |
| Elton Parker | /X | X/X | X/X | X/X | X/X | X/X | X/X | X/X | X/X | X/X | X/X | X/X | X/X | X/X | X/X | X/X | X/X | X/X | X/X | X/X | X/X |
| James Parker | | | | | | | | | | | | | | | | | | | O/O | O/O | |
| Randy Paulson | | | | | | | | | | | | | | /E | X/E | X/O | E/O | E/O | E/O | O/O | |
| Stephen Pittman | | | | | | | | | | | | | | | | | | | X/X | E/X | |
| Bill Polley | | | | X/X | X/X | X/X | E/E | E/E | E/E | O/X | X/O | X/O | E/E | E/E | X/O | E/E | X/E | X/E | E/E | X/O | |
| Jim Poole | | | | | | | | | | | | X/E | X/X | E/E | X/X | X/O | E/E | X/X | X/E | E/O | |
| Phil Poole | | | | | | | /E | X/X | X/E | E/X | X/X | X/X | X/E | X/X | E/E | O/E | O/E | X/E | X/X | E/X | |
| Mike Poynter | | | | | | | | | | | | | | | | | X/E | X/O | X/E | E/O | |
| Bobby Prater | X/X | E/X | X/X | X/X | X/X | X/X | X/X | X/E | X/E | E/X | X/E | X/E | E/E | X/E | E/E | E/E | E/E | O/O | E/O | O/O | |
| SP Reddy | | | | | | X/X | X/E | X/O | X/X | X/E | X/X | X/X | E/X | X/X | X/X | X/O | X/X | X/X | X/X | X/X | |
| Gary Reed | | | | | | | | | /X | X/X | X/O | X/O | X/X | E/O | E/E | E/O | O/O | O/O | O/O | O/D | |
| Clayt Reid | X/X | X/X | X/X | X/X | X/X | X/X | X/X | X/X | X/X | X/X | X/X | X/X | X/X | X/X | X/X | X/X | X/X | X/X | X/X | X/X | X/X |
| Ed Reid | | | | | | | | | | | | | | /X | X/X | X/X | X/X | X/E | E/X | E/X | |
| Ken Riddle | | | | | | /X | X/X | X/E | X/X | X/X | E/X | X/X | E/E | E/X | E/X | X/X | O/X | X/X | O/O | O/O | |
| Mike Riverin | | | | | | | | | | | | E/X | X/X | X/X | X/X | X/X | X/X | X/X | X/E | X/X | |
| Dwayne Robbins | | | | | | | | | | | | | | | | | | O/O | O/O | O/O | |
| Dave Rollay | | | | | | X/X | X/X | X/X | X/X | X/X | X/X | X/X | X/X | X/X | X/X | X/X | X/X | X/X | X/X | X/X | X/X |
| Paul Roullier | | | | | | | | | | | | | | /X | X/X | X/E | X/X | X/X | X/X | X/X | |
| Rene Santiago | | | | | | | | | | | | | | | | | | | /E | O/O | |
| John Schaffer | | | | | | | | | | | | | | | | | | X/O | X/O | O/O | |
| Larry Schindler | | | | | | | | | X/E | X/E | X/X | X/X | X/X | X/X | X/E | X/X | X/E | X/E | E/O | O/R | |
| Duane Schnitzler | | | X/X | O/E | O/O | O/E | O/O | E/X | X/X | X/X | X/E | E/X | X/E | X/E | X/O | X/E | O/O | X/O | X/O | X/O | |
| Bob Schoolcraft | | | | | | | | | | | | | | | | | E/O | O/X | X/E | O/O | |
| Del Seaver | | | | | | | | | | | | | | | | | | | /O | X/X | |
| Ted Sexton | | | | | | | | | | | | | | /E | X/E | X/X | X/O | O/O | O/E | X/O | |
| Ralph Shead | | | | | | | | | | | | | | | | | | /O | X/X | X/X | |
| Jim Simpson | | | | | | | | | | | | | | | | | | | | X/X | |
| Ron Simpson | | | | | | | | | E/X | X/X | X/X | X/X | X/X | X/X | X/X | X/O | X/X | X/X | X/X | X/X | |
| Ron Sinclair | | | | | | | | | /X | X/X | X/X | E/E | X/X | X/X | X/E | X/X | E/O | X/O | O/O | | |
| Ray Smith | | | | | | | | | | /X | X/X | X/X | E/E | X/X | X/X | E/X | X/X | X/X | X/X | | |
| Malcolm Steeves | | | | | | | | | | | | E/O | O/X | X/E | O/E | X/E | E/O | X/O | X/E | O/E | |
| Jeff Swoope | | | | | | | | | | | O/O | E/O | X/E | O/O | E/X | E/O | O/O | O/E | O/O | O/O | |
| Chand Tailor | | | | | | | | | | | | | | | | | | X/E | X/E | X/X | |
| Larry Thomas | | | | | | | | | | | | E/E | X/X | X/X | X/X | X/X | X/X | X/X | X/X | X/X | |
| John Thompson | | O/X | X/X | X/X | E/E | E/E | E/O | X/O | X/X | E/X | X/E | X/O | X/E | X/E | X/X | X/E | X/E | X/E | X/X | X/E | |
| Russ Thrift | | | | | | | | | | | | X/X | X/X | X/X | X/X | X/X | X/X | X/X | X/X | X/X | |
| Sid Ticker | | | | | | | | | | | | | | | | X/E | X/X | O/X | X/X | X/O | |
| Reno Tonsi | | | | | | | | | | | /X | X/E | X/E | X/X | X/X | X/E | X/E | X/X | X/X | X/X | |
| Don Tremaglio | | | | | | | | | | | | | | | | | X/O | X/O | E/O | O/O | |
| Tim Trumbo | | | | | | | | | /X | X/O | X/X | E/X | X/X | X/O | X/O | X/E | X/O | X/O | X/O | O/O | |
| Paul Tsou | | | | | | | | | | | | | /X | X/X | X/X | X/E | X/O | X/O | X/X | E/O | |
| Del Ventruella | | | | | | | | | | | | | | | | | | X/E | X/E | O/X | |
| Wayne Vinson | | | | | | | | | | | | | | | | | | | | O/X | |

ATTENDANCE

APPENDIX D

Al Vraspir X/E X/X X/E X/O X/X E/X X/E X/E X/X E/E E/E O/O

| | 77 | 78 | 79 | 80 | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 95 | 96 |
|-----------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | A/I | A/I | A/I | A/I | A/I | A/I | A/I | A/I | A/I | A/I | A/I | A/I | A/I | A/I | A/I | A/I | A/I | A/I | A/I | A/I |
| Hank Wachler | | | | | | | | | | | | | | | X/O | X/E | X/X | X/X | X/E | X/E |
| Barclay Wallace | | | | | | | | | | | | | | | | | | | | O/O |
| Rhett Ward | | | | | | X/X | X/X | X/X | X/X | X/X | X/X | X/X | X/X | E/X | E/O | E/E | E/O | E/E | E/O | O/O |
| Rick Watkins | | | | | | | | | | | | | /X | X/X | X/X | X/O | X/X | E/X | X/X | X/E |
| Mark Weaver | | | | | | | | | X/X | X/E | E/X | E/X | X/X | X/E | X/E | X/X | X/E | X/X | X/X | E/E |
| Pete Werner | | | | | | | | | | | | | | | | | | X/O | X/X | X/O |
| Mike Wilcox | | | | | | | | | | | | | | /X | E/O | X/O | O/E | O/O | O/O | |
| Jim Williams | | | X/X | O/E | E/E | O/O | X/X | X/E | X/X | X/X | X/X | X/X | E/O | X/E | E/E | X/E | E/O | E/O | X/O | E/O |
| Charles Wood | | | | | | | | | | | | E/X | E/X | E/X | E/O | O/X | E/X | E/X | O/O | XX |
| Alex Wu | | | | | | | E/X | X/X | X/X | E/X | E/X | X/X | X/E | X/O | X/E | X/X | X/X | X/O | X/X | XX |

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| J C WILLIAMS [Jim] IEEE Member #6930036 PPIC Member Since 5/80 | Office: 503-624-3033 Fax: 503-624-3001 Home 503-266-3991 Subcommittee TSSC | JACOBS-SIRRINE PO BOX 5210 E Mail: PORTLAND, OR 97208 |
| CHARLES N WOOD JR [Charles] IEEE Member #5024526 PPIC Member Since 6/88 35023 2424 | Office: 205-995-7226 Fax: 205-995-7199 Home 205-491-7536 Subcommittee PDS | RAYTHEON ENGRS & CONSTRUCTORS 105 PIERSON CIRCLE E Mail: wreck65@aol.com HUEYTOWN, AL |
| ALEX Y WU [Alex] IEEE Member #4158077 PPIC Member Since 3/83 | Office: 770-475-3838 Fax: 770-475-3232 Home 770-399-6081 Subcommittee PDS | GLOBAL ENGINEERING COMPANY P O BOX 88444 E Mail: ATLANTA, GA 30356 |

Review of Previous Conference Sites 1956 to 1996

| | |
|---|------------------------------------|
| University of Florida - Gainesville, Florida | 1956, 1960 |
| Georgia Institute of Technology, Atlanta, Georgia | 1957 |
| North Carolina State College, Raleigh, North Carolina | 1958 |
| University of Maine, Orono, Maine | 1959 |
| Western Michigan University, Kalamazoo, Michigan | 1961 |
| Atlanta, Georgia | 1962, 1969, 1978, 1989 |
| Boston, Massachusetts | 1963, 1976 |
| Cincinnati, Ohio | 1964 |
| Mobile, Alabama | 1965, 1981 |
| Niagara Falls, Ontario, Canada | 1966, 1982 |
| Houston, Texas | 1967, 1974, 1985 |
| Milwaukee, Wisconsin | 1968, 1988 |
| Vancouver, British Columbia, Canada | 1970, 1975, 1987, 1995 |
| Savannah, Georgia | 1971 |
| Montreal, Quebec, Canada | 1972, 1991 |
| Jacksonville, Florida | 1973 |
| San Francisco, California | 1977 |
| Pittsburgh, Pennsylvania | 1979 (Silver Anniversary 25 Years) |
| Portland, Oregon | 1980, 1992 |
| New Orleans, Louisiana | 1983 |
| Toronto, Ontario, Canada | 1984 |
| Cape Cod, Hyannis, Massachusetts | 1986, 1993 |
| Seattle, Washington | 1990 |
| Nashville, Tennessee | 1994 |
| Birmingham, Alabama | 1996 |

Future Conference Sites

| | |
|---------------------|------------------------------------|
| Cincinnati, Ohio | 1997 |
| Portland, Maine | 1998 |
| Seattle, Washington | 1999 |
| Atlanta, Georgia | 2000 |
| | 2001 |
| | 2002 |
| | 2003 |
| | 2004 (Golden Anniversary 50 Years) |

Potential Cities

Portland, Oregon

Toronto, Ontario, Canada

Victoria, British Columbia, Canada

For the 25th Annual Conference a silver anniversary booklet was produced with the contents:

- Foreword
- Introduction and Brief History
- Programs
- Keynote Address - 25th Conference

What Will We Do For The 50th Annual Conference In 2004!

Philip Fransen

\\ntserver\admin\winword\ieee\conf-sit.doc

January 28, 1997

Ms Mary Ann DeWald
IEEE Conference Services
445 Hoes Lane
P.O. Box 1331
Piscataway, New Jersey 08855-1331

Subject: 1994 IEEE/IAS Pulp & Paper Industry Conference
June, 1994
Nashville, Tennessee

Dear Ms. DeWald:

On October 17, 1996, Paul Rouillier, IEEE Member #6520928; Bud Palmer, IEEE Member #8421265; Larry Thomas, IEEE Member #2341568; and I Roger Jones, IEEE member #8315327 audited the records and reports on income and expenses for the 1994 Nashville Conference. We found the detailed records of receipts and expenditures to be accurate and in adequate order.

The final reports were prepared by the Local Conference Chair.

Sincerely,

Roger W. Jones, Treasurer
IEEE/IAS Pulp & Paper Industry Committee

Phone: 912 472-5221
FAX: 912 472-5508
E-Mail: jonesr2@wdni.com

cc: Mr. K.H. Adams
Square D Company
330 Weakley Lane
Smyrna, TN 37167



IEEE TECHNICAL ACTIVITIES

SUMMARY FINANCIAL REPORT FOR IEEE SPONSORED OR COSPONSORED CONFERENCES

CONFERENCE

1. Full title of Conference **1994 IEEE IAS ANNUAL PULP AND PAPER INDUSTRY TECHNICAL CONFERENCE**
 2. Conf. Dates **June 20 - 24, 1994**

3. Location of Conference (full name and address) **Opryland Hotel, Nashville, Tennessee**

TYPE OF REPORT/CURRENCY USED

4. Indicate type of report by checking one box:

Budget Interim Final

5. All income & expense figures below must be in U.S. Dollars . For Conferences held outside the U.S.A., indicate the local currency (e.g., Swiss Francs), the conversion rate/US Dollar & date.

Local Currency: **U.S** Conversion Rate: _____ Date: _____

| INCOME | Budget | Interim Report | Final Report |
|-----------------------------------|------------------|-----------------------|---------------------|
| 6. Registration Fees | \$102,725.00 | | \$94,230.00 |
| 7. Conference Publication Sales | 4,000.00 | | 6,267.21 |
| 8. Exhibits | 0.00 | | 0.00 |
| 9. Social Functions | 40,000.00 | | 23,485.00 |
| 10. All Other Conference Receipts | <u>13,975.00</u> | | <u>1,112.00</u> |
| 11. Total Conference Income | \$160,700.00 | | \$125,094.21 |
| 12. Conference Loans | <u>9,000.00</u> | | <u>9,000.00</u> |
| 13. Total Receipts | \$164,700.00 | | \$134,094.21 |

| EXPENSE | Budget | Interim Report | Final Report |
|-----------------------------------|------------------|-----------------------|---------------------|
| 14. Promotion | \$6,900.00 | | \$7,778.61 |
| 15. Conference Publications | 4,870.00 | | 6,296.39 |
| 16. Exhibits | 0.00 | | 0.00 |
| 17. Social Functions | 111,450.00 | | 81,201.89 |
| 18. Administration | 6,050.00 | | 3,138.39 |
| 19. All Other Conference Expenses | <u>11,362.00</u> | | <u>16,968.11</u> |
| 20. Total Conference Expense | \$140,632.00 | | \$115,383.39 |
| 21 Loan Repayments | <u>4,000.00</u> | | <u>9,000.00</u> |
| 22. Total Outlays | \$144,632.00 | | \$124,383.39 |

SURPLUS / (LOSS)

23. Total Receipts (13) **\$134,094.21** 24. Total Outlays (22) **\$124,383.39**
 25. Surplus (Loss) - (Item 23 less Item 24) **\$9,710.82**

POST CONFERENCE DISTRIBUTION

| | | |
|--------------------|------------|-------------------|
| Cosponsor Entity | % Share | \$ Distributed |
| a. IEEE-IAS | 100 | \$9,710.82 |

b.
c.
d.

Surplus (Loss) **\$9,710.82**

CONFERENCE FINANCIAL INSTITUTION

Name of Bank **Nations Bank**
 Address **One NationsBank Plaza, Nashville, Tennessee 37219**
 Conference Account Title **IEEE 94 PULP & PAPER CONFERENCE** Acct. No. **011261-394-8**
 Have you requested IEEE Conference Insurance? Yes No

SUBMITTED BY:

Name **Kenneth H. Adams** Tel. No. **615 459-1328**
 Address **Square D Company, 330 Weakley Lane, Smyrna, Tennessee 37167**
 Conference Position **Local Arrangements Chairman**

CONFERENCE SIGNATURE _____ SOCIETY SIGNATURE _____ Date: _____

RETURN TO: IEEE CONFERENCE SERVICES
 445 HOES LANE PO. BOX 1331, PISCATAWAY, NJ 08855-1331, USA

KEEP A COPY FOR YOUR RECORDS



IEEE TECHNICAL ACTIVITIES

IEEE CONFERENCE DETAILED FINANCIAL REPORT - PART I: INCOME

This form should be completed only for IEEE sponsored or cosponsored Conferences. The care taken in filling out this report will lead to a more accurate projection of your Conference's net surplus or loss.

NOTE: All income items must be expressed in U.S. Dollars.

Full title of Conference 1994 IEEE IAS ANNUAL PULP AND PAPER INDUSTRY TECHNICAL CONFERENCE
 Conf. Dates June 20-24,

1994

| REGISTRATION FEES | Quantity | X | Fee | Budget | Interim | Final |
|--|----------|---|-------|--------|---------------------|-------------------|
| In Advance - Member | 176 | | \$210 | | \$40,950.00 | \$36,960. |
| In Advance - Nonmember | 80 | | 250 | | 17,625.00 | 20,000. |
| In Advance - Red. Rate | 8 | | 95 | | 0.00 | 760. |
| At Conference - Member | 22 | | 240 | | 16,875.00 | 5,280. |
| At Conference - Nonmember | 10 | | 290 | | 6,250.00 | 2,900. |
| At Conference - Red. Rate | 0 | | 95 | | 0.00 | 0. |
| Tutorial/Workshop Fees | | | | | 13,975.00 | 10,475. |
| Other Registration Fees | | | | | <u>21,025.00</u> | <u>17,855.</u> |
| | | | | Total | \$116,700.00 | \$94,230. |
| CONFERENCE PUBLICATION SALES | | | | | | |
| IEEE Headquarters | | | 389 | \$11 | \$3,500.00 | \$4,107. |
| Members | | | 64 | 30 | 300.00 | 1,920. |
| Nonmembers | | | 6 | 40 | 200.00 | 240. |
| Videotapes & CD-ROM | | | | | | |
| Other Publication Sales | | | | | | |
| | | | | Total | <u>\$4,000.00</u> | <u>\$6,267.</u> |
| EXHIBITS | | | | | | |
| Tables | | | | | | |
| Booths | | | | | | |
| Booths | | | | | | |
| | | | | Total | | |
| SOCIAL FUNCTIONS (Events itemized on Social Functions Revenues worksheet) | | | | | | |
| | | | | Total | \$40,000.00 | \$23,485. |
| ALL OTHER (List here or attach details) | | | | | | |
| Other Income | | | | | 0.00 | \$1,112. |
| IEEE Loans | | | | | <u>\$4,000.00</u> | <u>9,000.</u> |
| | | | | Total | \$4,000.00 | \$10,112. |
| TOTAL INCOME | | | | | \$164,700.00 | \$134,094. |

NOTE: BE SURE TO COMPLETE AND RETURN ALL FINANCIAL FORMS TOGETHER ("SUMMARY REPORT", "PART I: INCOME", "PART II: EXPENSES" AND "SOCIAL FUNCTIONS")

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IEEE TECHNICAL ACTIVITIES

IEEE CONFERENCE DETAILED FINANCIAL REPORT - PART II: EXPENSES

This form should be completed only for IEEE sponsored or cosponsored Conferences. The care taken in filling out this report will lead to a more accurate projection of your Conference's net surplus or loss.

NOTE: All income items must be expressed in U.S. Dollars.

Full title of Conference 1994 IEEE IAS ANNUAL PULP AND PAPER INDUSTRY TECHNICAL CONFERENCE
Conf. Dates June 20-24,

1994

| PROMOTION | Budget | Interim Report | Final Report |
|--|--------------|----------------|--------------|
| Printing/Call for Papers | | | |
| Printing/Advance Program | \$3,000.00 | | \$3,654.99 |
| Printing/Final Program | 900.00 | | 0.00 |
| Mailing Lists/Labels | 500.00 | | 1,480.00 |
| Postage | 2,000.00 | | 2,621.97 |
| Other | 500.00 | | 21.69 |
| Total | \$6,900.00 | | \$7,778.61 |
| CONFERENCE PUBLICATION | | | |
| Conference Record/Digest Printing | \$4,000.00 | | \$6,151.11 |
| Author Kits Printing | 120.00 | | 145.28 |
| Shipping to Site and IEEE HQ. | 750.00 | | 0.00 |
| Total | \$4,870.00 | | \$6,296.39 |
| EXHIBITS (Attach detailed statement of all expenses necessary to mount and display exhibits). | | | |
| Total | | | |
| SOCIAL FUNCTIONS (Itemize events on next page.) | | | |
| Total | \$111,450.00 | | \$81,201.89 |
| ADMINISTRATION | | | |
| Conference Audit Fees | | | |
| Conf Mgt & Consulting | | | |
| Insurance & Bonding | \$ 250.00 | | |
| Security & Guard Service | | | |
| A/V Equipment Rental | 4,000.00 | | \$2,338.22 |
| Credit Card Fees | | | |
| Secretarial Services | 750.00 | | |
| Office Equipment Rental | 100.00 | | 54.00 |
| Misc. Materials & Supplies | 400.00 | | 610.99 |
| Registration Materials | 250.00 | | 135.18 |
| Telephone | 200.00 | | |
| Transportation | | | |
| Gratuities, Etc. (Attach Details) | 100.00 | | |
| Total | \$6,050.00 | | \$3,138.39 |
| ALL OTHER | | | |
| Committee Expenses | \$3,500.00 | | \$2,615.99 |
| Other (Attach Details) | 11,862.00 | | 23,352.18 |
| Total | \$15,362.00 | | \$25,968.11 |
| TOTAL EXPENSES | \$144,632.00 | | \$124,383.39 |

NOTE: BE SURE TO COMPLETE AND RETURN ALL FINANCIAL FORMS TOGETHER
("SUMMARY REPORT", "PART I: INCOME", "PART II: EXPENSES" AND "SOCIAL FUNCTIONS")

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SOCIAL FUNCTIONS

IEEE SPONSORED OR CO-SPONSORED CONFERENCES

| Report | Budget | Final |
|---|---------------------|--------------------|
| (1) Coffee, pastries, etc., between sessions No. Breaks ____ X No. People <u>320</u> X \$/Person ____ | \$6,200.00 | \$5,567.64 |
| (2) Luncheons No. Luncheons <u>1</u> X No. People ____ X \$/Person ____ | 6,250.00 | 4,611.23 |
| (3) Receptions No. Receptions <u>2</u> X No. People ____ X \$/Person ____ | 22,750.00 | 17,245.67 |
| (4) Banquets No. Banquets <u>1</u> X No. People ____ X \$/Person ____ | 22,500.00 | 18,879.00 |
| (5) Speaker Hospitality (included in Other) No. People ____ X \$/Person ____ | | |
| (6) Transportation (courtesy bus, etc.) (included in Social Event and Tour) | | |
| <p>Companies providing chartered bus services must submit proof of a current and valid certificate of insurance during the dates of the event with coverage of at least 1 million dollars. A copy of this certificate should be submitted with the IEEE Conference Insurance form. IEEE Insurance coverage does not cover boat or air transportation.</p> | | |
| (7) Social Event No. People ____ X \$/Person ____ | 21,000.00 | 11,747.69 |
| (8) Spouse / Guest Functions No. People <u>121</u> X \$/Person <u>126.40</u> | 21,700.00 | 15,294.55 |
| (9) Tours and Tutorials | 11,050.00 | 7,856.11 |
| TOTAL SOCIAL FUNCTION EXPENSES | \$111,450.00 | \$81,201.89 |
| SOCIAL COST PER ATTENDEE | \$ 247.67 | \$ 253.76 |

NOTE: BE SURE TO COMPLETE AND RETURN ALL FINANCIAL FORMS TOGETHER ("SUMMARY REPORT", "PART I: INCOME", "PART II: EXPENSES" AND "SOCIAL FUNCTIONS")

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TO: IEEE Pulp and Paper Committee Executive Officers
EMMC Subcommittee Members

Subject: October 17, 1996 EMMC Subcommittee Interim Meeting
Atlanta, GA

I. Introduction

- A. The meeting started at 8:30 a.m.
- B. All attendees introduced themselves
- C. An attendance roster was circulated
- D. 23 attendees were present
- E. 15 EMMC members were present:
 - 1. Bruce Campbell Larry Layman Rick Watkins Lloyd Cain Burt Judson
Larry Menche
 - 2. Tom Osborne Jack Dwyer Frank Newman Russ Thrift Bob Roy
Laurie Kirek
 - 3. Bob Schoolcraft Rhonda Banks Roger Goan
- F. 2 New EMMC members were present:
 - 1. Phil Poole John Thompson
- G. 6 Visitors were present:
 - 1. Wayne Vinson Steve Gregory Hugh Gaston J. Sutton Dinah
King Hayes Carter
- H. 8 Excused Absences:
 - 1. Rory Johnson John Green Roger Goan Del Decker Ken Bruni
Bill Polley
 - 2. Ken Riddle Rich Carle

II. Announcements and General Business

- A. Rory Johnson is EMMC's vice chairman
- B. John Dwyer was EMMC's paper reviewer for the 96 conference
- C. Tom Osborne was EMMC's session lighting operator
- D. Executive committee business was reviewed
 - 1. Paper reviewer for 1997 conference will be Rhonda Banks
 - 2. Back-up reviewer will be Jack Dwyer

III. Future Papers

- A. The minutes from the June meeting was used as an agenda. The attached list reflects those discussions.
- B. Four possible 1997 papers & one panel were identified

| # | Title | Sponsor | Author | Status | Class |
|-------|--|----------------|---------------------------|--------------------------|-------|
| 93.9 | New OSHA Process Safety Regulations | Del Decker | Ron Silvers | 1997 | C |
| 94.9 | Uncovering the Hidden Capacity in your Medium Voltage AC Motors | Burt Judson | Frank Newman & Steve Evon | 1997 | A |
| 95.5 | Cathodic Protection | Del Decker | | 1997 | |
| 96.1 | Potential Problems arising from the use of High Efficiency Motors | Del Decker | | Possible 1998 | |
| 96.5 | Harmonic Affects on Motors | Bruce Campbell | Paul Findlayson | 1997 | A |
| 96.6 | Pressure Protection For Batch Digesters | Roger Goan | | Possible 1998 | |
| 96.7 | Safety Equipment | Steve Gregory | John Thompson | Possible 1998 | |
| 96.8 | Reorganization/personnel changes | John Thompson | Michael Tate | Possible 1998 | A |
| 96.10 | Advance in Lighting Technology | Jack Dwyer | | Possible 1998 | |
| 97.01 | Proper Selection and Application of Belt Drive Systems | Bruce Campbell | Mark Hodowanic | Possible 1997 | C |
| 97.02 | Issues Relating to Poor Electrical Drawing Quality | Jack Dwyer | John Dedad | Possible 1997 (Panel) | |
| 97.03 | Team Based Management in the Paper Mill | Burt Judson | John Thompson | Possible 1997 | C |
| 97.04 | Construction Contract Alternatives | Frank Newman | Panel | Possible 1998 | |
| 97.05 | Current Practices in the Installation of Control Systems | Jerald Kearney | | | |
| 97.06 | Process Graphic Design Optimization | Bill Polley | | | |
| 97.07 | Contractor Safety Improvement: A case study | | | | |
| 97.08 | Maintenance of Computerized systems of Computerized management systems | Rhonda Banks | | | |
| 97.09 | Outsourcing Engineering Work | Rhonda Banks | | | |

**IEEE/IAS PULP AND PAPER INDUSTRY
PDS SUBCOMMITTEE - INTERIM MEETING**

OCTOBER 17, 1996

**HOLIDAY INN AIRPORT NORTH
ATLANTA, GEORGIA**

MINUTES OF MEETING

- 1.) Present: 18
Excused: 10
Guest: 4
Unexcused: 18

- 2.) The following papers were discussed for the 1996 and the 1997 Conference.
 - A.) "Utilize Fault Recording Equipment As A Tool To Improve The Performance Of Paper Mill Electric Power Systems."
Sponsor: Paul Tsou
Author: Bob Moore
Reviewers: John Levine, Bud Palmer, Don Deyo, Jim Simpson
Status: Class C

 - B.) "Impact Of A 32,000 H.P. Refiner Motor On Daishowa's Existing System and Equipment."
Sponsor: Terry Branch
Author: Shoaib Khan
Reviewers: Steve Dyrnes, Ron Simpson, Gursharan Grewal, Suresh Sharma
Status: Class A

 - C.) Case Study: "Aspects And Problems With Wheeling Power For Co-Generation Application."
Sponsor: Don Deyo
Authors: Norm Schmidt, Rory Johnson
Reviewers: Ray Smith, Roger Case, Chand Tailor, John Holmquist, George Matto
Status: Class C

 - D.) "Study Of The Consequences Of A Paper Mill Atmosphere On Electrical Connections."
Sponsor: Bud Palmer
Author: Mark Huza
Reviewers: Don Deyo, Pete Crawford, Bob Moore, Shoaib Khan, S.P. Reddy, Chand Tailor
Status: Class B

 - E.) "Wet Or Dry Transformer Comparison."
Sponsor: John Levine
Author: Pat Dooley
Reviewers: Charles Wood, Bucky Hammonds, Gursharan Grewal, Ted Sexton
Status: Class A

- F.) "Transient Motor Re-Acceleration Study In A Process Facility."
 Sponsor: Shoaib Khan
 Authors: Gursharan Grewal, Mark Hokim
 Reviewers: Jim Simpson, Ron Simpson, George Matto, Chand Tailor,
 S.P. Reddy, Suresh Sharma
 Status: Class A
- G.) "Plant Load Shedding Scheme Optimization Due To Ever-Changing Process Requirements."
 Sponsor: Shoaib Khan
 Authors: Gursharan Grewal, Mark Hokim
 Reviewers: Charles Wood, Ron Simpson, Bob Moore, Alex Wu, Suresh Sharma
 Status: Class A
- H.) "A State-Of-The-Art Medium Voltage SF6 Breaker For Today's Distribution Requirement."
 Sponsor: Ken Adams
 Authors: M. Basu, S.K. Oketani, Alex Rose
 Reviewers: Shoaib Khan, Larry Pryor, Vernon Newbill, T.C. Chao
 Status: Class A
- I.) "A Low Harmonic Electric Drive System Based On Current-Source-Inverter."
 Sponsor: Duane Schnitzler
 Authors: Yuexin Yin, Alex Wu
 Reviewers: Ron Simpson, Jim Rooks, Shoaib Khan, Suresh Sharma, John Holmquist, Pete Warner, John Bentley, Mark Weaver, Austin Bonnet
 Status: Class A
- J.) "An Alternative To Pilot Wire Relays For Industrial Power Systems."
 Sponsor: S.P. Reddy
 Authors: Del Ventruella, David J. Beck
 Reviewers: Vernon Newbill, John Levine, Larry Pryor, Jim Simpson
 Status: Class A
- K.) Shoaib Khan of Sandwell, Inc. proposed a full day (8-hour) tutorial on medium and large motor protection. The proposal was received and approved by the Committee. However, the Committee requested that the tutorial shall touch on technical theory as well as practical application.
 Sponsor: PDC
 Author: Shoaib Khan
 Status: Class A
- L.) "Instrumentation, Measurement Techniques And Analytical Tools In Power Quality Studies."
 Sponsor: Del Ventruella
 Author: Ron Simpson
 Reviewers: Alex Wu, Bud Palmer, Ed Reid, Ken Adams, Suresh Sharma
 Status: Class A
- M.) "Fault Current Limiter Applications On Medium And High Voltage Power Distribution."
 Sponsor: Del Ventruella
 Authors: Alex Wu, Yuexin Yin
 Reviewers: Ken Adams, T.C. Chao, Charlie Canty, Suresh Sharma, Bill Vilcheck, Prem Tagra
 Status: Class A
- N.) "Harmonic Current GT -T-GET On Low Voltage Switchgear Electronic Trip Devices

TRUI-RMS.”
Sponsor: Ron Simpson - Technical
Author: Bill Vilcheck
Status: Class D

3). The following were deferred from the 1997 Conference to the 1998 Conference.

- A.) “Blackouts In The Pulp And Paper Industry With In-Plant Generation: Causes And Remedies By Applications Of Dynamic Simulation Of Power Systems.”
Sponsor: Shoaib Khan
Author: S.P. Reddy
Reviewers: Alex Wu, Dick Kramer, Terry Branch, Suresh Sharma
Status: Class C
- B.) “Applying Power Factor Correction And Drives In A Mill Environment.”
Sponsor: Bud Palmer
Author: Ed Reid
Reviewers: S.P. Reddy, T. Chao, Randy Paulson, Dick Kramer, Terry Branch
Status: Class C
- C.) “Generator Core Failure And System Improvements.”
Sponsor: Jim Simpson
Author: Suresh Sharma
Reviewers: Gursharan Grewal, Shoaib Khan, Chand Tailor, Vernon Newbill
Status: Class B

Respectfully submitted,

Alex Y. Wu, P.E.
PDS Subcommittee Chairman

AYW/fm

cc: Larry Thomas

**IEEE/IAS PULP AND PAPER INDUSTRY
PDS SUBCOMMITTEE - INTERIM MEETING**

OCTOBER 17, 1996

**HOLIDAY INN AIRPORT NORTH
ATLANTA, GEORGIA**

PRESENT

Ken Adams
Charlie Canty
T.C. Chao
Pat Dooley
Joe Morlino
Bud Palmer
Elton Parker
S. P. Reddy
Ed Reid
Duane Schnitzler
Jim Simpson
Ron Simpson
Ray Smith
Chand Tailor
Del Ventruella
Charles Wood, Jr.
Alex Y. Wu
Suresh Sharma

EXCUSED

Terry Branch
Don Deyo
Stephen Dyrnes
Bucky Hammonds
Shoiab Khan
John Levine
Indra Madan
George Matto
Jim Poole
Paul Tsou

UNEXCUSED

Raji Anand
Jay Bannerjee
Mel Bernard
Darrell Broussard
Roger Case
Stephen Cheek
Pete Crawford
Jerome Frank
Dwight Goggans
Claude Hudson
Bob Jones
Richard Kramer
Jim Kushner
Zafer Mohiuddin
Bob Moore
Randy Paulson
John Schaffer
Ted Sexton

GUESTS

| <u>NAME</u> | <u>COMPANY</u> | <u>TELEPHONE</u> | <u>FAX NUMBER</u> |
|--------------------|-----------------------|-------------------------|--------------------------|
| Prem Tagra | Sandwell Inc. | (770) 433-9336 | (770) 433-9518 |
| Bill Vilcheck | Westinghouse Electric | (412) 778-5546 | (412) 778-5541 |
| Duane Perry | A.I.C.S. | (770) 513-0773 | (770) 513-0477 |
| Dinah King | Gulf Power | (904) 444-6415 | (904) 444-6237 |

| IEEE IAS PPIC PAPER TALLY FOR 1998 | | | | | | |
|--|----|---|---|---|---|---|
| DCS <u> </u> CBS <u> </u> TSSC <u> </u> EMMC <u> </u> PDS <u>X</u> Subcommittee Standardized Report Form | | | | | | |
| <i>Class A paper has a sponsor, a committed author, an abstract, and a rough draft in hand ready for review</i> | | | | | | |
| <i>Class B paper has a sponsor, a committed author, and an abstract in hand</i> | | | | | | |
| <i>Class C paper has a sponsor, and a committed author</i> | | | | | | |
| <i>Class D paper has a sponsor, and an identified author</i> | | | | | | |
| <i>Class E paper has a sponsor and we would like to find an author but no one has been contacted</i> | | | | | | |
| CLASSIFICATION | | | | | | TITLE |
| 1998 | A | B | C | D | E | |
| 1 | | | X | | | Utilize Fault Record. Equip. as a Tool to Improve the Perform. of Paper Mill Elec. Power Systems. |
| 2 | X | | | | | Impact of a 32,000H.P. Refiner Motor on Daishowa's Existing System & Equipment |
| 3 | | | X | | | Aspects & Problems with Wheeling Power for Co-Generation Application |
| 4 | | X | | | | Study of the Consequences of a Paper Mill Atmosphere on Electrical Connections |
| 5 | | | X | | | Blackouts in the Pulp & Paper Ind. with In-Plant Generation: Causes & Remedies by applications of Dynamic Simulation of Power Systems |
| 6 | | | X | | | Applying Power Factor Correction & Drives in a Mill Environment |
| 7 | X | | | | | Wet or Dry Transformer Comparison |
| 8 | X | | | | | Transient Motor Re-Acceleration Study in a Process Facility |
| 9 | X | | | | | Plant Load Shedding Scheme Optimization Due to Ever-Changing Process Requirements |
| 10 | X | | | | | A State-of-the-Art Medium Voltage SF6 Breaker for Today's Distribution Requirement |
| 11 | X | | | | | A low Harmonic Electric Drive System Based on Current-Source-Inverter |
| 12 | X | | | | | An Alternative to Pilot Wire Relays for Industrial Power Systems |
| 13 | | X | | | | Generator Core Failure and System Improvements |
| 14 | X | | | | | Tutorial - Medium & Large Motor Protection |
| 15 | X | | | | | Instrumentation, Measurement Techniques & Analytical Tools in Power Quality Studies |
| 16 | X | | | | | Fault Current Limiter Applications on Medium & High Voltage Power Distribution |
| 17 | | | | X | | Harmonic Current G-T-T-GET on Low Voltage Switchgear Electronic Trip Devices |
| 18 | | | | | | |
| 19 | | | | | | |
| 20 | | | | | | |
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| 24 | | | | | | |
| 25 | | | | | | |
| TOTAL | 10 | 2 | 4 | 1 | | |

Date: 10/21/1996 10:30 am (Monday)
 From: ROBERT COTTON
 To: TSSC
 Subject: Pulp and Paper Interim Meeting Minutes

Following are the minutes for the meeting held last week on 10-17-96.

Current Membership -21 members.

| <u>In attendance:</u> | <u>Excused</u> | <u>Un-excused</u> |
|-----------------------|-----------------|-------------------|
| Robert Cotton | Jim Williams | Rene P.Santiago |
| Clayton Reid | Mike Poynter | B. B. Prater |
| Roger Jones | Jim Daly | Barbara Jensen |
| Bob Finke | Bob Jordan | ames Oliver |
| Paul Rouillier | Sid Ticker | Don Tremaglio |
| Ralph Shead | Malcolm Steeves | Neville Lang |
| Mike Glenn | | |
| Steve Pittman | | |
| Fareda Kahn | | |

9 members present, 6 excused, 6 unexcused absences, 1 guest.

A total of 3 (1997) papers and 1 (15-20minute) update on 1999 upcoming code changes effecting pulp and paper industry. Five papers were proposed for 1998 meeting. Steve Pittman agreed to be our representative as a paper reviewer for 1997 and 1998. Ralph Shead agreed to be backup paper reviewer.

Paper 97-1 Professional Job Search-90'S
 Author: Roger Jones
 Sponsor: Mike Glenn
 Reviewers: Mike Glenn, Clayton Reid, and Ralph Shead
 Author's kitwas given to Roger.

Paper 97-2 NFPA 70 E
 Author: Ralph Shead to try and identify

Paper 97-3 Impact of the Hazard Communication on Wire and Cable.
 Author: Jim Daly and Michael Sharkey
 Reviewers: Fareda Kahn, Michael Glenn, Ralph Shead

A 15-20 minute review presented by Michael Glenn on NEC 1999 code proposed changes is proposed for 1997 conference.

Proposed for 1998 papers are as follows:

98-1 MV-90 Cable Replacement Program
 Author: Bob Finke
 Sponsor: Mike Glenn

98-2 Computer Assisted Training
 Sponsor: Mike Poynter/Joe Miller

98-3 Boise I. Falls Apprenticeship Program
 Sponsor: Duncan Rhodes

98-4 DCS Training- From Pneumatics to Digital
 Sponsor: Duncan Rhodes

98-5 Process Safety Management Implementation
Sponsor: Duncan Rhodes

Bob Finke served as liaison for Power Quality committee. His purpose was to report back to TSSC in regards to what papers were being presented thru this committee to make sure we did not overlap in areas of paper topic proposals.

IEEE Pulp & Paper Committee

DRIVES & CONTROL SUB-COMMITTEE

Interim Meeting --- Oct. 17, 1996
 Holiday Inn - Airport North
 Atlanta GA

| Attendance: | Excused: | Guest: | Company |
|------------------|---------------------|-----------------|-----------------------------|
| J.M. Bentley | Peter Famighetti | Frank Liggett | Rockwell Automation |
| Austin Bonnett | Charles D. Grucella | Duncan Rhodes | Rockwell Automation |
| John Holmquist | Mark Weaver | Bob Bergston | GreenBay Pkg. |
| Preston Jackson | Dick Kane | Bruce Graves | World Wide Technologies |
| Walt Jones | Richard Kramer | Vestal Tutterow | Lawrence Berkeley Nat. Lab. |
| Patrick Link | Bob Fritz | Tom Shearer | Rockwell Automation |
| J. Alan Lowe | Hank Wachter | Yuxin Yin | Global Engineering Co. |
| Ronaald Meihofer | | Burt Judson | Rockwell Automation |
| David Mintzloff | | | |
| R.C. Morse | | | |
| Richard Palmer | | | |
| Michel Riverin | | | |
| David T. Rollay | | | |
| Phil Fransen | | | |
| Gene Davis | | | |
| Delbert Seaver | | | |

Minutes:

- 1 - The Sub-committee meeting was called to order at 8:35 am by Burt Judson (substitute chair), for Mark Weaver.
- 2 - Copies of the Agenda were handed out.
- 3 - Everyone introduced themselves and the above "excused absences" were announced.
- 4 - Ron Meihofer "volunteered" to represent the Sub-comm. at the Power Quality Ad Hoc meeting.
- 5 - Alan Lowe was "drafted" to help the acting chair keep track of the status of each proposed paper.
- 6 - The REVIEW OF THE STATUS FOR ALL PAPERS AS LISTED IN THE JUNE MINUTES BEGAN:

| NO. | TITLE / AUTHOR | SPONSOR | STATUS |
|-------|---|----------------|-----------|
| 94-15 | Input Power Measurement / non-sinusoidal Waves -by Bradford Forth | Phil Fransen | B for '97 |
| 95-02 | Impact of Motor Starting on Controls & System - by George Soukup David Rollay Erich Heberlein | Hank Wachter | B for '97 |
| 95-03 | PRESENTED AT '96 CONF | | |
| 95-07 | PRESENTED AT '96 CONF | | |
| 95-09 | DC Bus Supplies for PWM Inverters - by Steve Bane | Chuck Grucella | C for '97 |
| 96-01 | DROP | | |
| 96'02 | Added Opportunities / Switched Reluctance Motor -by Austin Bonnett | John Holmquist | C for '98 |
| 96-03 | Switched Bus for Feeding Inverters - by Dallas Marcx (?) | Mark Weaver | E for '98 |
| 96-04 | DROP | | |

| NO. | TITLE / AUTHOR | SPONSOR | STATUS |
|------------------------|----------------|---------|--------|
| Minutes Issued 1/31/97 | | | |

| | | | |
|-------|---|--|--------------------|
| 96-05 | Implement PC Based Operator Interface for PM-by Kevin Borthwick Pardip Thind | Ronald Meihofner | A for '97 |
| 96-09 | Select/Size/Analyzing AC Drive Regeneration - by Norm Lindner | Ron Meihofner | B for '97 |
| 96-10 | Paper Machine E-Stop Case History - by Walter Jones | Alan Lowe | B for '97 |
| 96-11 | Partial Sectional of a L/S P.M.-Case History - by Ronald Daigle | Michel Riverin | A for '97 |
| 96-13 | Press Section Regulation Schemes - by Roger Jones Walt Jones | Alan Lowe | C+ for '97 |
| 96-14 | How PWM Wave Forms effect Motors - "LITERATURE SEARCH" NOT A PAPER! -by Austin Bonnett Duncan Rhodes | John Holmquest | C+ for '97 |
| 96-15 | Ele. Welder Practices in Paper Mills - by Mark Chen | John Bentley | D for '98 |
| 97-01 | Insul. Sys. Available for PWM (low volt) Motors -by Austin Bonnett | John Holmquest | A for '97 |
| 97-02 | Design/Appl. Considerations - AC Braking Gen. - by Les Manz | Walt Jones | C for '98 |
| 97-03 | Impact- Magnitude & Balance of Power Applied to AC Motors - by ? | Austin Bonnett | E for '98 |
| 97-04 | Motor Master +: Energy Eff Selection & Tools - by Jim Rooks | John Holmquest Gilbert McCoy Vestal Tutterow | A for '97 |
| 97-05 | Multiple Restrike Phenomenon - Vac. C/B - by Harvey Hennenfent | Duncan Rhodes | B+ for '97 |
| 97-06 | Winder Software - Review Basic Building Blocks - by Rob Karpinski | Phil Framsen | C for '97 |
| 97-07 | Drive Response Benchmarks / Tork Anal. for PM -by Pete Warner | Hank Wachter Phil Fransen Walt Jones | B for '98 |
| 97-08 | Motor/Gen. Stator Winding Design-Failure & Testing -by Dr. G.Stone TUTORIAL --- concluded --- too narrow an audience Request Paper on Howe Sound "Case History" instead | Blake Lloyd | Should be a NPP |
| 98-01 | Case History - Resolution of Motor Shaft Currents- from Willamette ? | Roger Jones | E+ for '98 |
| 97-09 | Motor Master + Software Workshop (bring Computers) - V. Tutterow | John Holmquest | TUTORIAL '97 -4hrs |
| 98-02 | Grd of AC & DC Low Voltage / Med. Volt Drive Sys -by J.C. Das Being Presented TAPPI - March '97 | Alan Lowe Richard Osman | A for '98 |

FOOT NOTE ---- STATUS "RATING" SYSTEM

A = Paper has Sponsor, committed Author, abstract, & draft

B = Paper has Sponsor, committed Author & abstract

C = Paper has Sponsor & committed Author

D = Paper has Sponsor & identified Author

E = Paper has Sponsor & is looking for an author

“Analysis of Load Sharing Control between Press Section Drives”
and
“Evaluation of Intersectional Control in Paper Machines Drives”

Bruce had forwarded both to the Drives and Controls Sub-comm. for review and action.

These very same papers have also been offered to the Ele. Eng. Comm. of TAPPI for possible presentation at the PCE&I TAPPI Conf this next March in Birmingham. Burt Judson and several others on the TAPPI committee had read the completed “drafts” (not just the abstracts) for TAPPI and were in the process of rejecting one and suggesting the other needs significant work to be presentable at the TAPPI Conf.

Based on that input any action on these abstracts was delayed, pending the outcome and status with TAPPI. Judson will reply to Professor M. Anibal Valenzuela.

8 - Ron Meihof reported from Power Quality:

POSSIBLE FUTURE TOPICS:

Vibration Effects on Motors Associated with Harmonics
Voltage Unbalance Relates to Energy Eff. Motors
Identify Problems & Solutions with IGBT Technology
Paper on How Power System Harmonics Affect Motors and Drives

PRESENT TOPICS (listed above) WHICH MAY APPLY:

94-15 Input Power Measurement of Non-Sinusoidal Wave Forms

98-02 Grd of AC & DC Low Voltage / Med. Volt Drive Sys

9 - Paper Graders / Judges from the Drives and Controls Sub-committee for the '97 Conf. will be:

Duncan Rhodes -- lead
Richard Palmer -- back-up

10 - The Sub-committee meeting was adjourned at noon; just in time for the Full Comm. lunch!

Respectfully submitted
Burt Judson (with the help of Alan Lowe)

Nov. 6, 1996

Computer Based Systems Subcommittee

Minutes of Meeting

Meeting Date: October 17, 1996

Recorded by: Blake Lloyd

Members Present:

| | | |
|---------------|------------------------|-------------------------------|
| Reno Tonsi | Rockwell Automation | reno.tonsi@po.cle.ab.com |
| Blake Lloyd | Iris Power Engineering | BLloyd@irispower.com |
| Kirk Armintor | Rockwell Automation | KArmintor@aol.com |
| Larry Thomas | Weyerhaeuser | 102252.2223@compuserve.com |
| Janet Flores | Allen-Bradley | JFFlores@abpost.remnet.ab.com |
| Dick Morrison | Boise Cascade | |
| Stan Merritt | Merritt & Associates | |
| Mike Jhaveri | Champion International | Jhaveri@Juno.com |

Guests:

| | | |
|---------------|------------------------|-----------------------|
| Bruce Parkman | Siemens | |
| Phung Le | Champion International | Phung_Le@ChampInt.com |
| Duane Perry | AICS | aics@america.net |

Excused Absence:

| | | |
|---------------|--------------------|---------------|
| John Kay | Process Automation | jkay@pasi.com |
| Joe Armstrong | Boise Cascade | |

Unexcused Absence:

| | | |
|-----------------|-----------------|------------|
| Barclay Wallace | Jerry Archer | Union Camp |
| Grady Hart | Electric System | |
| Brian Kochan | Stone Container | |
| Phillip Poole | Packaging Corp. | |

Distribution: Subcommittee members, Guests,
Burt Judson, Dave Rollay, Ron Simpson

General:

1. The minutes of the last meeting were accepted.
2. Grady Hart has been removed from the Subcommittee.
3. Both Jerry Archer and Brian Kochan have asked to be removed from the subcommittee as both are unable to get management support to attend meetings.
4. Phil Poole has asked to be removed from this subcommittee as he has a new position in his company and feels that belonging to TSSC will be more important to him.
5. The subcommittee reviewed the "tele-conference notes" of the '96 POST CONFERENCE CRITIQUE.
6. The subcommittee reviewed the '96 Conference attendees and their comments.
7. Mike Jhaveri attended the Power Quality Ad Hoc Subcommittee meeting
8. The Subcommittee reviewed the need for communication through email. It was decided that all minutes will include email addresses. Minutes and other correspondence will be sent via E-Mail to those members who have provided their addresses.

1997/1998 Conference and Papers

1. See the attached spreadsheet for sponsor and reviewer assignments as well as paper details. For the 1997 conference, the committee has a potential of 4 papers, 1 panel, and 1 tutorial.
2. Kirk Armintor will be the Subcommittee Paper Review contact for the 1997 Cincinnati conference with Stan Merritt acting as back up.

Other Business

1. A discussion was held on the need to establish a world wide web home page for the Pulp and Paper group. It was decided that the best approach would be to have the conference committee for the next conference maintain and update such a home page. Blake Lloyd is soliciting input on what the contents of such a home page should be and will produce the first one for review. Using that as a base, detailed procedures can then be established for modifying this page for each conference. Blake Lloyd will also contact the IEEE with regard to establishing this page on an IEEE based server.
2. The Subcommittee reviewed the need to cover the air expenses of the tutorial presenter for 1997. As most tutorials need funding for duplicating papers etc, it was decided that this would not be an unreasonable request.
3. The meeting was adjourned at about 11:40am.

Thank you all for your efforts in attending and participating in this subcommittee.

CBS SUBCOMMITTEE

APPENDIX L

| Computer Based Systems Subcommittee | | | | | | | | | | | | | |
|---|--|--|--|---------------|--|------------|----------|---|---------|--|--------|--------|-------|
| Paper Status Report for 1997 from '96 Winter Meeting in Atlanta, GA | | | | | | | | | | | | | |
| No. | Paper | Author | Company | Sponsor | Reviewers | L. Thomas | Abstract | Rough | Authors | First | Second | Second | Final |
| * | Means possible Tutorial | | | | | Grading | | Draft | Kil | Review | Draft | Review | Paper |
| ** | Means possible as a panel | | | Date Required | | A, B,C,D,E | | 17-Oct | | 5-Nov | 31-Dec | 28-Jan | 4-Mar |
| 1997 Conference | | | | | | | | | | | | | |
| 97-1 | Predict Prev. Main. of Motors | Greg Stone | Iris Power | Blake Lloyd | K Armitor L. Thomas M. Jharevi S. Merritt | C | | Due 12/1 | | | | | |
| 97-3** | Panel - DCS vs. PLC | (DCS) C. Zollar (DCS) J. Armstrong - Boise (PLC) Bruce Parkman to advise | Champion | J. Kay | N/A | | | | | | | | |
| 97-4 | Moved to 98-2 | | | | | | | | | | | | |
| 97-5 | Moved to 98-3 | | | | | | | | | | | | |
| 97-6 | Moved to 99-1 | | | | | | | | | | | | |
| 97-7 | PLC/MMI | | | J. Flores | B. Parkman S. Merritt D. Morrison | E | | Janet Flores to advise by 11/15 if she has this paper or not. | | | | | |
| 97-10 | Moved to 98-1 | | | | | | | | | | | | |
| 97-11 | Moved to 99-2 | | | | | | | | | | | | |
| 97-12* | Data Communications in Industrial Environments | Eric Byres | Artemis Systems | | | | | Tutorial | | | | | |
| 97-13 | Design of High Speed Fiber Optics Backbones for Pulp & Paper Mills | Eric Byres Ed Hanschke | Artemis Systems Fletcher Challenge Canada | John Kay | Blake Lloyd Kurt Armitor Janet Flores | A | | Yes | | | | | |
| 97-14 | pH Control using a Predictive-Adaptive control system on a Pulp Mill Wastewater System | Jake Vandermeer Bill Gough | Pepap B.C Process Automation Systems, Inc | John Kay | M. Jharevi B. Parkman R. Tonsi | B | | Yes | | | | | |
| 1998 Conference | | | | | | | | | | | | | |
| 98-1 | Sim vs Diag Logic | ????? | | M Jharevi | K Armitor J Flores B Kochan | | | | | Was 97-10. Move to 1998 | | | |
| 98-2 | Enviro Protection | S. Sharp | Westvaco | J Armstrong | K Armitor J Flores | | | | | Was 97-4 | | | |
| 98-3 | One Mills Experience with Power Monitoring | Terry Goodman | Brown & Root Mobile, AL | J Armstrong | B Lloyd M. Jharevi S. Merritt | | | | | Was 97-5 | | | |
| 1999 Conference | | | | | | | | | | | | | |
| 99-1 | Prot. System/Power Plot | L. Thomas | Weverhauser | ????? | ????? | | | | | Was 97-6. Wait until Larry is no longer National Program Chairperson | | | |
| 99-2 | Networks at Weyerhaeuser | Anderson | Weverhauser | L. Thomas | | | | | | Was 97-11 | | | |
| Papers requested by other IEEE sub-committees | | | | | | | | | | | | | |
| | Explanation of Grounding | | | | | | | | | Requested by Power Quality in fall 1996 | | | |
| | Methods on Electronic Equipment | | | | | | | | | | | | |
| Cancelled Papers | | | | | | | | | | | | | |
| 97-2 | Mill Level User Gen Appl. | | | ????? | | | | | | Cancel | | | |

Ad-Hoc Subcommittee on Power Quality**Minutes of October 17, 1996 Meeting****Attendees Include:**

| | | |
|------------------------------|---------------------|--------------------|
| W. Edward Reid | Chairman | (Qual-Tech) |
| Bob Finker (for Roger Jones) | TSSC Representative | (Okonite) |
| Mike Jhaveri | CBS Representative | (Champion) |
| Ron Meihoffer | DCS Representative | (Eurotherm Drives) |
| Ron Simpson | PDS Representative | (GE) |
| J. Sutton | EMMC Representative | (AL Power) |
| Del Ventruella | | (GE) |
| Bill Vilcheck | | (Westinghouse) |

Minutes:

The Subcommittee met from 11:00 PM to Noon.

Subcommittee Representatives discussed the planned power quality papers for 1997 and 1998 and revised the list for potential future papers. These papers are summarized in Attachment #1.

Since the meeting, a historical list of power quality tutorials and papers (since 1990) was compiled. This is included in Attachment #2.

Respectfully submitted,

W. Edward Reid, Chairman
Ad Hoc Committee of Power Quality - PPIC

Attachment #1

**Pulp & Paper Industry Committee
Proposed Power Quality Related Tutorials and Papers**

| Tutorials: | | Subcommittee |
|--------------------|---|---------------------|
| 1997 | | |
| 1998 | Refresher Courses on Harmonics & Power Quality | |
| 1999 | | |
| Papers: | | |
| 1997 | “A Low Harmonic Electric Drive System Based on Current-Source-Inverter”, by Yuexin Yin and Alex Wu | PDS |
| | “Instrumentation, Measurement Techniques, and Analytical Tools in Power Quality Studies”, by Ron Simpson | PDS |
| | “Output Filter Considerations for PWM Drives With Induction Motors” Bruce Campbell (Sponsor) [Already written and presented at Textile Meeting] | EMMC |
| | “Input Power Measurements of Non-Sinusoidal Waveforms”, by Brad Forth | DCS |
| | “How PWM Waveforms Affect Motors”, by Austin Bonnett [Bibliography - 10 minute presentation] | DCS |
| 1998 | “Impact of Magnitude and Balance of Power Applied to AC Motors”, Austin Bonnet (Sponsor) [Ron Simpson will send a copy of an existing paper to Austin.] | DCS |
| | “Effects of Harmonics on Trip Units for Low Voltage Circuit Breakers” by Ron Simpson and Bill Vilcheck | PDS |
| | “Grounding Methods on Electronic Equipment-- A Technical Explanation - Not a Code Review”, (No Sponsor Assigned) | CBS |
| | “Electric Welder Practices in Pulp and Paper Mills”, John Bentley (Sponsor) [Trying to find an author] | DCS |
| Future | “Vibration Effects on Motors Associated With Harmonics” | DCS |
| | “Grounding Methods For Motors With Harmonic Distortion” (Roger Jones will be addressing this subject.) | |
| | “Drive Ride Through Capabilities -- An Industry Survey Of The Current Technology, And Status Of Industry Standards” | |
| | “Power Quality Limits In European Common Market”, [Bill Vilcheck will check with Reg Mendis, Ron Meihoffer has a collection of European standards.] | PDS |
| | “Voltage Unbalance Relates To Energy Efficient Motors” | DCS |
| | “Identify Problems And Solutions With IGBT Technology” | |
| | “Paper On How Power System Harmonics Affect Motors And Drives” | |

Attachment #2

**Pulp & Paper Industry Committee
History Since 1990 of
Power Quality Related Tutorials and Papers**

Tutorials:

| | |
|------|--|
| 1990 | |
| 1991 | Power System Harmonics, Principles, and Applications |
| 1992 | |
| 1993 | Power Compatibility |
| 1994 | |
| 1995 | Grounding Practices |
| 1996 | |

Papers:

| | | |
|------|--|--|
| 1990 | Application, Design, and Rating of Transformers Containing Harmonic Currents | Sheldon P. Kennedy C.L. Ivey |
| | Effect of Waveform Distortion on Protective Relays | W.A. Elmore C.A. Kramer S.E. Zocholl |
| 1991 | Capacitor Application Considerations - Utility/User Interface | W. Edward Reid |
| | Shunt Capacitor Filters for Motor Starting Load Voltage and Harmonic Distortion Control | J.C. Das |
| | Rating Considerations for Squirrel Cage Induction Motors Operated with Variable Frequency Drives | Patrick J. Link |
| | Transient Effects in Application of PWM Inverters to Induction Motors | Erik Persson |
| | Correcting Mill Power Factor with a Synchronous Condenser | Kevin Becker |
| 1992 | Harmonic Analysis for Industrial Power Systems Computation Techniques and Filtering | Ali Moshref Shoaib Khan |
| | Considerations in Derating Induction Motors for Applications on Variable Frequency Drives | Steven L. Mecker |
| 1993 | Power Quality and Symmetrical Component Analysis | Ronald H. Simpson, PE |
| | Expert System for Analysis of Electric Power System Harmonics | D.D. Shipp M.E. Swartz W. Vilcheck N.H. Woodley |
| | UPS Applications: A Mill Perspective | Richard H. Carle |
| | More Application Considerations for PWM Inverter-Fed Low-Voltage Induction Motors | Thomas F. Lowery David W. Petro |
| | Specifying a Motor for Use on an Adjustable Speed Drive from the Motor Designer's Point of View | Lester B. Manz |

| | | |
|------|--|--|
| 1993 | Variable Frequency Drive and Motor System Selection | Eddie W. Edwards, PE |
| 1994 | Specification of variable Frequency Drive Systems to Meet the New IEEE 519 Standard | P.Y. Keskar, PhD, PE |
| | Analysis of the Impact of Pulse-Width Modulated Inverter Voltage Waveforms on AC Induction Motors | Austin H. Bonnett |
| | Power Quality Issues - Standards and Guidelines | W. Edward Reid |
| | Harmonic Analysis of Industrial Power Systems | Robert Ellis, PE |
| | Harmonic Current Flow Using the Admittance Matrix Method | Ronald H. Simpson, PE |
| | Power Quality and Line Considerations for Variable Speed AC Drives | D.D. Shipp W.S. Vilcheck |
| | Installation and Operating Experience of a 350 HP AC Drive for Harmonic Reduction | William J. Frey Joseph G. Graf Bob Moore |
| 1995 | Motor Lead Length for IGBT PWM Drives | Toshio Takahashi Mike Tetmeyer Hong Tsai Tom Lowery |
| | Power Quality and Generator Subsynchronous Oscillations | Ronald H. Simpson |
| | Improving System Operations with the Installation of Capacitor Filter Banks in a Paper Facility with Multiple Generating Units | S.R. Mendis M.T. Bishop T.M. Blooming R.T. Moore |
| | System and Equipment Problems Associated with Variable Frequency Drives in the Pulp & Paper Industry | Shoaib Khan, PE Nazem El-Dehaibi, PE |
| 1996 | Motor Insulation System Quality in the Presence of IGBT Drives | Les Manz |
| | Transient Response of Electric Drives Under Utility Upset Conditions | Alex Y. Wu Yuxin Yin |
| | Lightning Protection for the Pulp & Paper Industry | Roy B. Carpenter, Jr. George Yeh |
| | Harmonics: How They Affect the Development and Design of "K" Factor Transformers | Jerome M. Frank, PE |

AD HOC IEEE 841 MOTOR SPEC GROUP

Meeting Date: October 17, 1996

Location: Atlanta, GA

Purpose: Consideration of Application of IEEE 841 Motor Standard to the Pulp & Paper Industry

Attendees: (unknown - list was lost)

-
1. The meeting was co-chaired by Austin Bonnett/US Electrical Motors and John Holmquist/Weyerhaeuser.
 2. Mr. Bonnett reviewed the courses of action open to the committee.
 - Adopt IEEE 841 as is.
 - Develop a separate version of IEEE 841 suitable for the forest products industry.
 - Abandon the committee effort.
 - Provide constructive input, along with the PCIC, for the next revision of IEEE 841. To this end, Mr. Bonnett distributed a list of possible changes to IEEE 841-1994, along with comments received from Pulp & Paper Committee Members to date. Member of the Ad Hoc committee were asked to review the suggested changes and send comments to Mr. Bonnett.
 3. Since Mr. Bonnett needed to leave early, Mr. Holmquist led a discussion of Weyerhaeuser's IEEE 841 Specifications for Severe Duty TEFC NEMA Frame T Motors, Rev. 5. The resulting comments are listed by WPC spec. section numbers.
 5. ELECTRICAL DESIGN

Use of insulated ODE bearings and shaft grounding is not addressed in this spec.

 - 5.3 Many mills have trouble maintaining voltage unbalance of 1%, so the WPC spec. was changed to 1.5%. However, since voltage unbalance has a marked impact on motor vibration, this tolerance was returned to 1%, consistent with IEEE 841 5.3.b.
 - 5.9 The stator winding insulation requirement of 1600 volts is only good for inverter outputs with rise times ≥ 0.1 microsecond, as listed NEMA MG1-1993, Section 31.40.4.2. Since some smaller hp drives with high modulation frequencies may have rise times much shorter than this, there is concern that the voltage rating should be increased to 2000 volts or more. Perhaps IEEE 841 Section 5.3.c should be revised to cover these cases.
 6. MECHANICAL DESIGN
 - 6.1 It was clarified that specifying "Ball bearings shall have AFBMA C3 clearances" refers to the internal fit between the bearing race and balls. Reliance Electric reps. were asked to recommend a tolerance for fit between the outer race to frame and from inner race to shaft.
 - 6.2 Lithium based grease is not required. Retain the specification of polyurea thickened grease.
 - 6.5 There was discussion about how to specify the L-10 life of belted applications that have roller bearings. This may need to be treated as an exception to account for bearing skidding.
 - 6.6 The requirement to be able to modify all horizontal motors to accommodate oil mist lubrication was questioned. Should this be listed as an option? Some have recommended that this section be left out.

- 6.12 The drilled and tapped grounding hole should have a corrosion resistant bolt installed. It should be noted that this requirement is in addition to the practice of running a grounding conductor with the phase conductors within the power conduit.
- 6.13 Although some would like to see the flatness tolerance tightened from 0.005” to 0.003”, this may drive up the cost while giving only marginal improvement in motor performance.
- 6.15 Although half glued gaskets are very important for ensuring good sealing of the conduit box, special care needs to be taken to ensure that the frame and motor grounding conductor are connected to the same ground point. This is especially important for inverter applications.
- 6.19 Nameplate data
 - a) Delete “and C3 clearance”.
 - b) Manufacture date should be given in “mo/yr” format, not some manufacturers code.
 - g) In place of warranty life, the winding resistance at 25 deg. C should be added. This is needed for some of the newer computerized motor status programs. This is also why WPC asks for items k & l, No. of bars & no. of slots.
- 6.21 It would be nice if all motors could be specified with VPI treatment for windings, especially for inverter duty. But most manufacturers aren’t set up for this. When motors above 50 hp are rewound, VPI is required.

Minutes prepared by:

Richard Palmer
HARRIS GROUP INC.

REPORT TO EXECUTIVE COMMITTEE

**CONTINUING PROFESSIONAL COMPETENCY REQUIREMENTS
FOR PROFESSIONAL ENGINEERING REGISTRATION WHICH MAY BE SATISFIED
BY ATTENDANCE AT IEEE PULP & PAPER CONFERENCES**

Many states now have continuing professional competency (CPC) requirements for relicensing of professional engineers. Others plan to implement this policy in the near future. Attachment 1 to this report is a copy of the survey results from the National Council of Examiners for Engineering and Surveying (NCEES). The summary table shows which states now have CPC requirements and which plan to implement them in the next one to five years.

Attachment 2 is a copy of “Continuing Professional Competency Guidelines” published by the NCEES. The guidelines are recommended to the various jurisdictions in order to provide as much consistency as practical. However, each state is free to determine its own set of requirements.

The NCEES Model Rules require 15 professional development hours (PDH) per year for relicensing. After reviewing the Model Rules and discussing them with members of the NCEES, I believe that there are several ways in which participation in the IEEE Pulp & Paper Committee can qualify for PDH credit.

Presenting or attending qualifying seminars, in-house courses, workshops, or professional or technical presentations made at meetings, conventions, or conferences. (1 hour of presentation = 1 PDH)

Teaching or instructing above. (Multiple by 2)

Authoring published papers, articles or books. (10 PDH per paper)

Active participation in professional or technical societies. (2 PDH per year per society) Active participation requires licensee to serve as an officer and / or actively participate in a committee of the organization.

Because our technical sessions generally run three to four hours each, attendance at our annual conference would provide enough PDH's for an entire year's requirement.

The licensee is responsible for maintaining records to support PDH credits. Records required include, but are not limited to: (1) a log showing the type of activity claimed, sponsoring organization, location, duration, instructor's or speaker's name, and PDH credits earned; (2) attendance verification records in the form of completion certificates, or other documents supporting evidence of attendance.

CONTINUING PROFESSIONAL COMPETENCIES APPENDIX O

In my opinion item (1) above could be satisfied by modifying the conference program to include the number of PDH's for each tutorial and each technical session. For example:

SESSION 1 (3.5 PDH*)

The * would refer to a statement similar to the following printed on the program: "It is the opinion of the executive committee of the IEEE Pulp and Paper Committee that attendance at these tutorials and technical sessions qualifies as Professional Development Hours (PDH) for most state licensing boards. However, final approval is within the authority of the individual boards."

Satisfying item (2) may involve more of an effort on the part of the committee. The attendee will have a receipt to show that he paid for a tutorial or for the conference. This of course does not prove that he attended. Simple certificates could be given out for the tutorials. Some method to verify attendance at the technical sessions may be required. Perhaps a small attendance voucher made available for each session. Whatever method we select, the committee should have a plan in place before the June conference.

I believe that PDH credit for conference attendance can be an asset for promoting our conferences. I also believe that the committee can provide a valuable service to our members and guest by making the documentation process as convenient as possible.

I will be happy to work with the committee to help formulate a procedure for handling PDH's. Because every state can have different requirements and these requirements can change from time to time, I believe that the committee should try to work within the Model Rules of the NCEES and that each licensee should keep up with the requirements for the states in which he is registered.

Submitted by Alan Lowe
10/16/96

IEEE PULP AND PAPER
EXECUTIVE COMMITTEE

TELE-CONFERENCE NOTES
WEDNESDAY JULY 10th
3PM - EDT

SUBJECT --- '96 POST CONFERENCE CRITIQUE

Conf call coordinator - MIA Dialed 1-800-473-7794 to start!

Participants:

Bruce Campbell - X Burt Judson - X Ron Simpson - X
Roger Jones - X Dave Rollay - X Larry Thomas - X

Note: Preston Jackson is out of the country for two weeks, and unable to participate!

- 1 - Welcome and introductions. - about 3:05PM! Burt
- 2 - Review minutes of June 9th Executive Comm. Larry
 Ad-Hoc POWER QUALITY ---
 Schedule differently in Atlanta - Dave
 Subsidize Membership fees in Conference Registration
 Bruce to follow and report Oct. 17th
- 3 - 1996 Technical Papers recommended for publication; Dave
 Transactions --- 8
 IAS Journal --- 12
- 4 - "Roundtable Discussion": (Build a list --- any concurrence?) Everyone
 First ---
 What TWO things would YOU SUGGEST we repeat for next year's conference?
 Video "Power-Point" presentation
 Personal Push for LOCAL FIRST TIME attendance
 A more formal organization for "Unusual Failures"
 Repeat the HISTORY in preface to the book
 Continue to encourage "Spouse" attendance and program

 Next ---
 What ONE thing would YOU SUGGEST we add, delete, or modify for next year's conference?
 Need to work out the arrangements for CEU's and Publicize it!
 BMJ to ask Alan Lowe to follow-up and report at interim meeting.
 (Ohio - Michigan - Wisc.)
 Involve local Miami student chapter at conference - Bruce to follow
 Move up the time of Exec Mtg at annual conf
 Better "selling effort" of committee involvement for "first time members"
- 5 - Review of Conference QUESTIONNAIRE Results Burt
 Topics for future conferences ---
 General Comments ---
- 6 - Specific issues on the Technical Program (Dave's memo of 6/26) Dave
 Scheduling ---
 Seemed good - better than Vancouver

EXEC. COMMITTEE TELE CONFERENCE NOTES APPENDIX P

Start before 8:30 in the morning (8AM would be better)
Audio / Visual ---
Blake Lloyd made it successful
Had a dedicated projectionist
Conference Record ---
Historical preface was well received
Intro letter etc was also good
Paper grade ? --- Need better photo reproductions
Author's Kits ---
IEEE Standard publication is "too complicated"
Commercial Problems with presentations ---
Powerpoint will help - needs continuing effort
Another reminder - a memo two/three weeks before the conference
Author's Gifts ---
Coasters again. Will be sent within 4-6 weeks.

7 - 1997 Conference in Cincinnati Bruce

Budget has been submitted to New York
Need list of who to approach at each vendor for donations for the reception
Bruce should get this from Preston!
Not happy with the IEEE mailing list (Debbie to update for \$600 ?).
Bruce for now is starting with Preston's list ---
not the same as supported by Bob Morse.
Dave to discuss with Bob Morse (& Preston ?) and report at interim.
Going to use the Miller-Freeman list to write to mill managers

8 - Other issues: Anyone

Roger points out that we need to follow on Site selection
Operating Guide requires "five years out" --- who/where for 2001?
Dave and Burt to follow!

9 - Action Items: SHOWN IN BOLD ABOVE! Burt

10 - Adjourn - 4:55 PM EDT

THANKS

Notes by BM Judson
July 10, 1996 --- 5:30PM

cc Total Executive Comm.

hand-out at 10/16 mtg.
"Highlights" in italics!