



INDUSTRY APPLICATIONS SOCIETY

**PULP & PAPER INDUSTRY
COMMITTEE**

MINUTES
of the

FULL COMMITTEE

MEETING

**2002 CONFERENCE COMMITTEE MEETING
TORONTO, ONTARIO
June 17, 2002**

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**IEEE/IAS PULP & PAPER INDUSTRY COMMITTEE
ANNUAL CONFERENCE MEETING
MINUTES OF THE FULL COMMITTEE
SHERATON CENTRE HOTEL
TORONTO, ONTARIO**

JUNE 17, 2002

WELCOME AND INTRODUCTIONS

Roger Jones called the meeting to order at 1:05 PM. He welcomed everyone to Toronto and the Full committee meeting. He then asked everyone in turn to introduce him or herself. Allan Lowe circulated a meeting sign in sheet and asked all attendees to sign, as it is the official attendance list. He also circulated the committee roster for people to make corrections. 75 committee members attended.

SECRETARY'S REPORT

Rory Johnson announced that the minutes from the last Main Committee meeting had been sent out. A motion was made and passed to accept the minutes. Rory reported the following:

| | |
|----------------------|-----|
| Total Active Members | 123 |
| Total Email | 120 |
| No Email | 3 |
| Undeliverable Emails | 12 |

Rory reviewed the status of the method for issuing the minutes. The use of zip files to issue the 2001 conference committee meeting minutes had numerous problems. A suggestion was made at the interim meeting to setup an FTP site and post the notes there. Problems with finding someone to host the site prevented that from being accomplished (See Old Business). With deletion of the membership list from the report the file appeared to be small enough to email without zipping. Executive minutes were sent first and worked so followed with the main committee minutes. 12 emails were returned but only 2 because the file was too large. Will continue to use this method until a better alternative is found. 10 emails were returned due to incorrect or nonexistent addresses. Points up the importance of keeping email addresses current.

A suggestion had been made to post the committee membership on the web site where the committee minutes would be posted. Rory had agreed to add the list to the web site but as that failed to materialize he indicated he would attempt to send it as a separate email when the conference committee minutes are sent.

EXECUTIVE COMMITTEE REPORT

Rory Johnson reported that 19 members were in attendance at the Executive Committee meeting. The meeting started at 5:02PM Sunday evening and adjourned at 6:37PM. Full agenda with very good discussions.

2001 PORTLAND CONFERENCE REPORT

George Matto reported the conference attendance was 186 full, 26 one day and 8 life members for a total of 220. 167 people attended the social event and there were 63 guests registered. 60 people attended the tutorials and 27 the tour. The conference had a profit of \$21,000. \$7,000 was given to the Local Committee and the remaining \$14,000 was sent to the National Committee. Of the \$7,000 returned to the local committee all may be granted to the Local IAS chapter. Audit was completed and included in the final report sent to the IEEE National Office. To date they have received no response approving the report.

2000 ATLANTA CONFERENCE CLOSE OUT REPORT

Charlie Canty related that the IEEE still were not acknowledging receipt of the final report and as such had not issued an approval either.

TREASURER REPORT/CONFERENCE AUDITS

Blake Lloyd reported that the IEEE, PPIC bank balance is still \$0. The Atlanta and Portland Conference audits are both now awaiting final approvals from the IEEE audit board. Committee suggested Blake send a letter to IEEE headquarters stating that the IEEE, IAS, PPIC assumes the audits to be approved. Blake will do.

STANDING SUBCOMMITTEE REPORTS

MEMBERSHIP

Alan Lowe reported that membership had dropped to 115 members. Since the October Interim Meeting, there have been no new members, 2 resignations and 6 dropped for nonattendance, retirement or have transferred out of the industry. There are 2 pending applications for membership from Tim Hoy and Gary Wetzel. Members are dropped if they have not participated in the committee for 2 years. At the interim meeting in October 49 members were present, 43 requested excused absences and 32 were unexcused. See appendix for full report.

Membership roster is available but some of the email addresses may be incorrect as the Access report truncated some of the longest ones. Alan had copies of the subcommittee rosters and asked the chairman to pass them out at their meetings so folks could update them. Return changes to him.

Jim Rooks updated the initiative to increase the Senior Member population in the PPIC. 23 PPIC Members were listed in the interim meeting as being considered for advancement to Senior Member. Out of that list 15 are now Senior Members. 72 members (57%) of the PPIC committee are now Senior Members compared to 7% for all of IEEE. Claude Hudson has been advanced to Senior Member and Jim suggested presenting Claude with his certificate at the Wednesday banquet. Jim asked the memberships cooperation in encouraging other members to provide him the information to submit on their behalf for approval to Senior Member.

MAILING LIST

Roger Jones reported for Bob Morse that the mailing list disk was updated with the corrections from the 2001 Portland Conference mailing list books, the 2001 conference registration disk and added names sent to him during the year. Bob sent the revised mailing list disk to John Kay for the Toronto Conference Committee to use in generating mailing labels. Email address has been added to the mailing list for those who listed it on their conference registration form. He asked that an announcement be made at the conference that the mailing list books would be available near the registration desk and asked that all attendees check the books to update their information and anyone else from their company. Bob also indicated that he was retiring from active participation in the committee and as mailing list coordinator.

PUBLICITY

Ron Mehofer reported that the publicity release on the 2001 Technical Conference held in Portland, Oregon was published in the IEEE Industry Applications Magazine January/February 2002 issue. Announcements for the 2002 conference in Toronto, Ontario to be held June 17-21 were sent to various trade magazines including IEEE Spectrum, IAS, Pulp & Paper and Paper Age. The report from the Toronto Conference will probably be published in the November/December issue of the IAS magazine.

PAPER AWARDS AND PUBLICATIONS

Laurie Chilar reported 8 papers were submitted to the IAS Magazine and 17 papers were recommended for publication in the IAS Transactions Register. 9 have been published in the most recent transactions and 1 in the magazine. About 70% of the conference papers wind up in IEEE publications. She acknowledged the work of the paper reviewers for the 2002 conference. Certificates (New this year) will be presented to the prize paper award winners at the conference this Friday.

FELLOWS NOMINATIONS

Clayton Reid reported that John Holmquist was elected as an IEEE Fellow in November. He has already received his certificate from the IEEE but Clayton would like to make a special presentation at the PPIC Conference Banquet. Another committee has nominated Shoab Kahn to the IEEE Fellow board. PPIC may nominate in the future if this nomination is not successful. Clayton Reid has also been nominated by the PPIC to the Fellow Board.

Clayton distributed the form to nominate PPIC members for IAS awards. He indicated Lanny Floyd was going to be presented the Harold Kaufman Award.

PPIC AWARDS

Russ Thrift indicated the 2002 Conference Meritorious Service Award will be presented to Dave Rollay and the Meritorious Engineering Award to Mark Weaver this Wednesday at the banquet. Russ encouraged every individual on the committee to recognize them and also read the write-ups on each award winner. Nominations for next year's awards need to be made by the interim meeting.

Liaison Reports

PAPTEC (CPPA)

PAPTECH (CPPA) annual meeting is in Montreal the end of January 2003.

IEEE/IAS

Clayton reported the IAS Conference would be held in September. Clayton is the new awards chairman for IAS.

TAPPI

Burt Judson reported that the next TAPPI PCE&I Conference is to be held in the fall of 2003 with the pulp division. Conference attendance was a main topic of discussion at their last conference also. Electrical portion of PCE&I meets this afternoon. He also announced that the next TAPPI Paper Machines Drives Short Course is scheduled for October 2002 in Camas, WA.

IEEE - STANDARDS COORDINATING

Dan Daly reported that SCC 18 has not met since our last meeting. We are in between Code cycles. They will be meeting next January to provide voting instructions to the IEEE representatives on proposals for the 2005 NEC.

One IEEE standard of interest to this Committee came out for ballot this past year, *IEEE C95.6, Standard for Safety Levels With Respect to Human Exposure to Electromagnetic Fields, 0 to 3 kHz*. Information on the ballot was sent to the officers. Several members of PPIC joined the balloting committee. The standard will be published later this year.

IEEE - IAS SAFETY COMMITTEE

Larry Thomas attended the IAS Safety Committee "Electrical Safety Workshop" in Mobile, AL as the liaison from the PPIC. The workshop is going on 10 years and had over 250 attendees. No technical papers are presented at the workshop, just various presentations. The next workshop will be held in Houston, TX February 3, 2003.

OPERATING SUBCOMMITTEE REPORTS

EMMC

Rhonda Banks reported that her committee had 10 persons present this morning out of a membership of 20. EMMC had 6 excused absences and 4 unexcused absences with 1 guest. Rick Watkins and George Matto volunteered to operate the lights for the first session. Paper reviewer for the 2003 conference is Larry Menche and the alternate Dave Durocher. Subcommittee has 1 nomination for the meritorious award to submit. (See full report in Appendix).

Potential papers for next year:

| Number | Type |
|--------|------|
| 4 | A |
| 4 | B |
| 2 | C |
| 3 | D |
| 4 | E |

PDS

Bruce Graves reports 19 members in attendance this morning out of a membership of 35. 7 absences were excused and 8 unexcused. 2 members have resigned and 2 transferred to another committee. One guest was present. Paper reviewer for 2003 is Jim Closson with Rick Schaffer as the alternate. Doug Moody and Dave Borrow volunteered to operate the lights in the second session. (See full report in Appendix).

Potential papers for next year:

| Number | Type |
|--------|------|
| 4 | A |
| 1 | B |
| 9 | C |
| 3 | D |
| 2 | E |

In addition they have one tutorial “Generator Protection Upgrade” and one panel on “Utility Deregulation”.

TSSC

Jim Williams reported 14 members with 9 present. There were 2 excused absences, 4 unexcused absences and 2 guests. Mike Poynter and Clayton Reid volunteered to operate the lights for the third session. Paper reviewer is Paul Rollier with Roger Jones as alternate.

Potential papers for next year:

| Number | Type |
|--------|------|
| 1 | A |
| 4 | B |
| 2 | C |
| 0 | D |
| 0 | E |

In addition they are proposing one “Safety” panel.

DCS

Bob Olsson reported 28 present out of 40 total members with 0 excused absences, 12 unexcused absences and 4 guests. Allan Lowe and Ken Butler volunteered to operate the lights at the fourth session. Paper reviewer for 2003 is Del Seaver with the alternate Duncan Rhodes. (See full report in Appendix).

Potential papers for next year:

| Number | Type |
|--------|------|
| 7 | A |
| 1 | B |
| 2 | C |
| 3 | D |
| 2 | E |

In addition they are proposing one tutorial.

CBS

John Thompson reported 5 of 8 members present with 3 excused absences and 0 unexcused absences. CBS had 1 guest this morning. Kirk Armintor volunteered to operate the lights for the fourth session. Paper reviewer for 2003 is John Thompson with Steve Trussell as the alternate. (See full report in Appendix).

Potential papers for next year:

| Number | Type |
|--------|------|
| 1 | A |
| 2 | B |
| 3 | C |
| 0 | D |
| 5 | E |

In addition they are proposing no panel or tutorial for 2003.

2002 TORONTO CONFERENCE REPORT

John Kay reported 155 people had pre-registered for the full conference and 22 for a single day. 24 people attended the Motors and Drives Tutorial and 30 people the Motor Protection. The tour of the Niagara Falls Hydro Plant may allow for a view of a generator torn down for maintenance. Should be interesting to see turn of the century engineering.

John said he has a strong committee supporting the conference and feels everyone should enjoy the activities.

2002 TORONTO TECHNICAL PROGRAM

Ron Simpson reviewed the 2003 program potential. Ron reported that the total potential papers from the subcommittee meetings compared to the last two years at the conference were:

| | A | B | C | D | E | Tutorial | Panel |
|------|----|----|----|----|----|----------|-------|
| 2002 | 15 | 8 | 18 | 8 | 11 | 3 | 2 |
| 2001 | 6 | 13 | 21 | 17 | 13 | 2 | 1 |
| 2000 | 2 | 9 | 25 | 16 | 30 | | |

Ron Simpson indicated the 2002 Technical Conference Program had 25 technical papers and 1 panel. Only 17 papers were complete and submitted by the March deadline. Roger Jones then sent out a request for help to find any additional papers. 8 more papers were submitted (6 came from the PDS subcommittee).

FUTURE CONFERENCES

2003 – CHARLESTON, SC

Rhonda Banks reports that the hotel has changed from the Charleston Place to the Westin Francis Marion downtown. It is a new resort on the national registry. Signed tentative contract with the hotel subject to IEEE approval. Conference dates are June 15 to 20. The hotel rate is \$139. Soliciting for committee members.

2004 – VANCOUVER, BC

Phil Fransen has stepped down as conference chairman. Mark Weaver is now the new chairman. He reported that they are still on schedule for the 2004 conference in Vancouver. He is presently looking at alternative venues for the conference.

2005 – JACKSONVILLE, FL

Rich Butler reports that in 2005 the PPIC conference is on for Jacksonville, FL June 20 to the 24. The IEEE cement conference was held at the Adams Mark Hotel on the waterfront last year. Working on a contract with the Adams Mark for a room rate of \$135 per night with an assumed attendance of 200 people. Working on ideas for technical and spouse tours.

2006 – ST. LOUIS, MO

Jim Closson had volunteered to be the chairman for the 2006 conference in St. Louis.

2007 – MILWAUKEE, WI

Dave Rollay is looking for someone that will volunteer to be the local Chairman for a Milwaukee, WI conference in 2007. He does have commitment from people to serve on the committee.

OLD BUSINESS

Dave Rollay reported that arrangements have been made for the interim meeting in Atlanta, GA. It will be October 26 (Saturday) and 27 (Sunday) at the Westin Atlanta Airport. Meeting will be funded by the Charleston Conference. Dave suggested that everyone register at the hotel early. A discussion ensued over concern about Saturday and Sunday travel. Many wondered if there was a Midwest location alternative that would be more central to all of the members. There was also a suggestion that people could possibly join by teleconference. Discussed the cost and logistic problems associated with teleconferencing. A suggestion was made that the subcommittees could take a poll as to who would attend the meeting in Atlanta. A follow-up could then be done if the attendance appeared to be low. It was decided that the executive committee would look at suggestions for future interim meetings.

Blake Lloyd reported that he had intended to establish a PPIC web/FTP site but his company (IRIS Engineering) was unable to host. If another company were willing to host he could easily set it up. He indicated IEEE is willing to host but maintenance is difficult. Blake said he would investigate web-hosting companies and the costs associated with them. He would present the proposals at the interim meeting and discuss funding from the conference.

NEW BUSINESS

The names placed in nomination for the Executive Committee were as follows:

| | |
|----------------|---|
| Chairperson: | Ron Simpson GE Industrial Control Systems Duluth, Georgia |
| Program Chair: | Rory Johnson Weyerhaeuser Company Federal Way, Washington |
| Secretary: | Blake Lloyd Iris Power Engineering, Inc. Etobicoke, Ontario, Canada |
| Treasurer: | Dave Durocher EATON Cutler-Hammer Lake Oswego, Oregon |

These nominees are all well qualified for office by virtue of their professional ability and experience and service to the PPIC. The Nominating Committee was pleased to recommend these candidates for office. The slate of candidates was unanimously elected.

The Executive Committee selected John Kay as the new Mailing List Coordinator.

Jim Rooks suggested that the committee should adopt an open door policy for Student attendance at the Conference. Someone asked how the committee contacts local universities and college. Suggested that the committee adopt a more formal process. IAS apparently has a conference luncheon for students and charges them for conference attendance on a variable basis (as little as possible). John Kay indicated that he had contacted all universities in southern Ontario. One reason for the poor response could be that the conference is in June after most universities have ended their

sessions for the summer break. One good place for interfacing to student groups may be through the local IAS chapter. Also suggested that it needs faculty support to succeed.

Charlie Canty Chairman of the adhoc committee on improving conference attendance indicated they have not formally met yet. Comments on conference attendance.

- ◆ Tutorials bring in users. It should be a focus area for the committee. If don't will be missing the boat. Should strategically target this area. PDH's (Professional Development Hours) may be an attraction. IAS can help the committee organize to get CEU's.
- ◆ Look at the possibility of including tangential business as a potential growth area. Example would be the converting business or the wood products sector. Do we just have to focus on Pulp & Paper.
- ◆ Develop flyer to send out to mill personnel extolling the virtues of attending the conference.

A suggestion was made that the committee considers a special type of celebration for the Vancouver conference in 2004, as it is the conferences 50th Anniversary.

THE MEETING WAS ADJOURNED AT 3:05 PM.

Appendix A:FULL COMMITTEE AGENDA**IEEE PULP & PAPER INDUSTRY COMMITTEE****ANNUAL MEETING****SHERATON CENTRE HOTEL - TORONTO, ON****MONDAY, JUNE 17, 2002****1:00 PM**

- | | |
|--|---------------|
| 1 - Welcome & Introductions | Roger Jones |
| 2 - Review/Approval of 10/15/01 Minutes | Rory Johnson |
| 3 - Executive Committee Report | Rory Johnson |
| 4 - Portland Conference Wrap-up | George Matto |
| 5 - Treasurer's Report/Conference Audits: | Blake Lloyd |
| a - Atlanta | |
| b - Portland | |
| 6 - Standing Subcommittee Reports: | |
| a - Membership | Alan Lowe |
| b - Mailing List | Roger Jones |
| c - Publicity | Ron Mehofer |
| d - Paper Awards | Laurie Cihlar |
| e - PPIC Awards | Russ Thrift |
| f - Fellows Nominations | Clayton Reid |
| 7 - Liaison Reports: | |
| a - PAPTEC (CPPA) | Clayton Reid |
| b - IEEE-IAS | Clayton Reid |
| c - TAPPI | Burt Judson |
| d - IEEE - Standards Coordinating | Jim Daly |
| e - IEEE-IAS Safety Committee | Larry Thomas |
| 8 - Operating Subcommittee Reports: | |
| a - EMMC | Rhonda Banks |
| b - PDS | Bruce Graves |
| c - TSSC | Jim Williams |
| d - DCS | Bob Olsson |
| e - CBS | John Thompson |
| 8 - 2002 Toronto Conference Report | John Kay |
| 9 - 2002 Toronto Technical Program | Ron Simpson |
| 10 - Future Conference Sites | Charlie Canty |
| 2003 - Charleston, SC | Rhonda Banks |
| 2004 - Vancouver, BC | Mark Weaver |
| 2005 - Jacksonville, FL | Rich Butler |
| 2006 - St. Louis, MO | Jim Closson |
| 2007 - | |
| 11 - Interim Meeting Arrangements | |
| a - October 26, 27, 2002 | Dave Rollay |
| 12 - Old Business | |
| a - Permanent PPIC Web/FTP Site | Blake Lloyd |
| 13 - New Business | |
| a - Nominating Committee - Officers 2003-4 | Larry Thomas |
| b - Mailing List Coordinator - need | Roger Jones |

Adjourn Full Committee Meeting approximately 3:00 PM!

APPENDIX B: EMMC SUBCOMMITTEE

EMMC SUBCOMMITTEE MEETING MINUTES

June 17, 2002 – Toronto, Canada

Meeting Date: June 17, 2002

Meeting Start: 8:30 AM

Meeting Adjourned: 12:00 PM

Recorded By: Rhonda Banks

Total Members: 21

Members Present: 10
Rhonda Banks
Dave Durocher
Tim Hoy
Rory Johnson
Burt Judson
Larry Menche
Robert Montgomery
Russ Thrift
Rick Watkins
Allen Watson

Member Visiting CBS Subcommittee:

Laurie Cihlar

Visitor: 1

George Matto (from PDS Subcommittee)

Members Excused: 6

Peter Baen
Pete Dalpe
Del Decker
Frank Newman
Roland Roberge
Wayne Vinson

Members Not Excused: 4

Ken Bruni
Bruce Campbell
Rich Carle

Zafer Mohuiddin

Paper Reviewer: Larry Menche (Alternate: Dave Durocher)

Introduction

A list of the EMMC members was circulated for updating and attendance.

Announcements

Our subcommittee is sponsoring the Friday morning panel at this conference.

All eligible members who are not senior members were encouraged to apply. Interested applicants should contact Jim Rooks.

General Business

Highlights of the Executive Committee Meeting were reported.

- John Kay has volunteered to be in charge of the mailing list.
- Since the interim, there are no new members, 2 retired/resigned.
- Future conference sites were discussed.

Allen Watson was recognized as the EMMC committee paper reviewer for this conference.

Larry Menche volunteered to be the paper grader for the 2003 conference, with Dave Durocher as his back up.

Laurie Cihlar has added certificates to be presented to the paper award winners this year.

Rick Watkins and George Matto will operate the lighting at the Wednesday morning session of this conference.

The list of proposed papers was reviewed and updated with changes. New paper topics were discussed.

Meritorious Award Nominees

Meritorious Service: Frank Newman

Future Papers

Reference the below list for future papers.

FUTURE PAPERS

| Title | Author1 | Sponsor1 | Reviewer1 | Reviewer2 | Reviewer3 | Reviewer4 | Status | Comments |
|---|------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|--------|--|
| CASE STUDY OF FIELD BUS INSTALLATION | SCOTT JOHNSON | RORY JOHNSON | BURT JUDSON | TIM HOY | ALLEN WATSON | | C | |
| ELECTRICAL SAFETY TRAINING: NEW CODES AND STANDARDS DRIVE THE NEED FOR INDUSTRIAL PROCESS FACILITIES TO UPGRADE MAINTENANCE TRAINING PROGRAMS | MICHAEL SPRAGUE | DAVE DUROCHER | ROBERT MONTGOMERY | WAYNE VINSON | RHONDA BANKS | | B | |
| ENERGY SAVING REBATE OPPORTUNITIES FOR MILL PROJECTS | JOHN GREENE | RICK WATKINS | DEL DECKER | RHONDA BANKS | BURT JUDSON | ALLEN WATSON | A | Paper presented at TAPPI/Will get at interim |
| EVALUATION OF MOTOR IMPEDENCE TESTING | JOE ARMSTRONG | RICK WATKINS | RHONDA BANKS | BURT JUDSON | | | D | Can't contact author |
| FUTURE CONTROL TECHNOLOGIES AND MOTOR DIAGNOSTICS AND SYSTEM WELLNESS | GERRY FELDMEIER | DAVE DUROCHER | RICK WATSON | RHONDA BANKS | GEORGE MATTO | | B | |
| INDUCTION MOTOR BEARING SELECTION | MARK HODOWANEC | RORY JOHNSON | RHONDA BANKS | BURT JUDSON | DAVE DUROCHER | | A | |
| INTEGRATING GLOBAL ELECTRICAL DESIGN PRACTICES IN HAZARDOUS LOCATIONS-A PHILOSOPHY CHANGE | MARTY COLE | PETER BAEN | TIM HOY | ROBERT MONTGOMERY | DAVE DUROCHER | | A | Rory will contact Peter about presenter |
| IEC ENFORCEMENT OF FOREIGN MADE EQUIPMENT | | LARRY MENCHE | RORY JOHNSON | DAVE DUROCHER | ALLEN WATSON | | E | Larry to pursue author/has articles |
| OPTIMIZING MAINTENANCE BY INTEGRATING TECHNOLOGIES AND PROCESS CHANGE | AUGIE DIGIOVANNI | TOM GRUDKOWSKI | DAVE DUROCHER | WAYNE VINSON | ROBERT MONTGOMERY | | B | Rhonda to find Tom and contact |
| PAPER MILL INSTALLATIONS OF LARGE FEEDERS | | GEORGE MATTO | RICK WATKINS | RUSS THRIFT | BURT JUDSON | ROBERT MONTGOMERY | E | George to find author |
| PROCESS CONTROL PERFORMANCE MEASUREMENT SOLUTION YIELDS IMPROVED BUSINESS PERFORMANCE | LEONCIO ESTEVEZ-REYES | RORY JOHNSON | ALLEN WATSON | BURT JUDSON | RHONDA BANKS | | B | |
| RELIABILITY ASPECTS OF BRUSHLESS SWITCH RELUCTANCE TECHNOLOGY | TIM ALBERS | TOM GRUDKOWSKI | ROLAND ROBERGE | BURT JUDSON | ROBERT MONTGOMERY | | C | Rhonda to find Tom and contact |
| ROOM CONSTRUCTION AND SEALING DESIGN STANDARDS FOR CORROSION PROTECTION | TED LENDIS | ROBERT MONTGOMERY | RORY JOHNSON | RHONDA BANKS | BURT JUDSON | | A | Will be presented in Charleston |
| SILICONE TRANSFORMER MAINTENANCE | LARRY CHRISTODOULOU | LARRY MENCHE | RICK WATKINS | DEL DECKER | ROBERT MONTGOMERY | | D | Larry to ask for abstract |
| TROCHOIDAL COIL SOLUTIONS FOR AC INVERTER FED MOTOR BEARING CURRENTS | | RORY JOHNSON | | | | | E | RORY/LARRY SEARCHING FOR AUTHOR |
| WHAT IS THE BEST CONTRACT FOR OWNER AND CONTRACTOR? | | DEL DECKER | RICK WATKINS | RORY JOHNSON | TIM HOY | ALLEN WATSON | D | Del has found author/Rhonda to contact Del |
| WHOLESALE POWER SALES OPPORTUNITIES OR PULP & PAPER (FERC 888) | RUSS THRIFT(to pursue) | RICK WATKINS | | | | | E | RUSS TO PURSUE PAPER OR PANEL |

**APPENDIX C PDS SUBCOMMITTEE
Power Distribution Systems
SUBCOMMITTEE
MEETING MINUTES**

June 17, 2001 - Toronto, Ontario

Meeting Date: June 17, 2002

Meeting Start: 8:00 AM **Meeting Adjourn:** 11:45 AM

Recorded by: Bruce Graves & Cliff Normand

Total Members: 35 **New Member** 1

Members Present: 19

| | |
|---------------|----------------|
| David Burrow | Jim Closson |
| Jay Das | Don Deyo |
| Bruce Graves | Gus Henson |
| Shoaib Khan | Jamie Lyles |
| Doug Moody | Vernon Newbill |
| Cliff Normand | Ted Sexton |
| Rich Schaffer | Ron Simpson |
| Bill Vilcheck | Alex Wu |
| Todd Robbins | Bob Moore |
| Terry Branch | |

Members Excused: 7

| | |
|----------------|--------------|
| Robert Adams | Steve Dyrnes |
| Bucky Hammonds | John Levine |
| Elton Parker | Glenn Smith |
| Joe Morlino | |

Members Not Excused: 8

| | |
|---------------|--------------|
| Robert Beltz | C H Hudson |
| Bud Palmer | Larry Pryor |
| Ed Reid | Ray Smith |
| Charlie Toole | Charles Wood |

Guests: 1

Ajit Badat

Members Transferred: 2

| | |
|---------------|--------------|
| Charlie Canty | George Matto |
|---------------|--------------|

Resignations: S.P Reddy

Paper Reviewer: Jim Closson and Rich Schaffer

Meritorious Award Nominees: None received

Conference Volunteers: Dave Burrow and Doug Moody will assist with lights during the conference.

Introduction

Bruce Graves welcomed all present to the Toronto Conference PDS Subcommittee Meeting. Each member and guest was asked to introduce themselves.

A list of the PDS members was circulated for updating and attendance. Updates have been forwarded to Alan Lowe.

Mr. Jim Rooks introduced Todd Robins as our newest committee member and subcommittee member.

Ajit Badat visited our subcommittee and expressed interest in joining and also authoring a paper for the 2003 conference.

Bob Moore has returned to our committee membership.

General Business

Solicitations and recommendations for Meritorious Service Award and Meritorious Engineering Awards were requested.

Executive Committee Meeting Minutes were reviewed. All were reminded that the Interim Meeting will be in Atlanta on October 26 and 27.

Ron Simpson was asked to review the duties of a sponsor.

The subcommittee discussed sponsoring students from local universities for attendance at the conference so that they will become aware of our activities and have a knowledge of who we are. Our conference for 2003 will be in Charleston, SC. If you have suggestions for this topics, bring them to the Interim Meeting in Atlanta in October.

Tutorials were discussed. It has been pointed out by IEEE/IAS that tutorials will assist in increasing the conference attendance. Quality tutorials are a good training tool and can be used for corporate training purposes.

Bill Vilcheck agreed to continue as the sponsor for the Power Quality Tutorial proposed for the 2002 conference.

Doug Moody advised that Chuck Mozina is interested in providing a tutorial on Generator Protection and/or Generator Protection Upgrade.

The list of proposed papers was reviewed and updated with changes and new paper topics were discussed and added.

Cliff Normand advised that the IAS will be presenting four papers about Generator Grounding and suggested that we may want to present some or all of these papers at our conference.

Future Papers

The list of future papers and tutorials is attached.

FUTURE PAPERS

| NO. | Sub-com. | Title | Author | Spon. | Rev 1 | Rev 2 | Rev 3 | Status | Year | Comments |
|---------|----------|--|-------------------|---------------|---------------|----------------|----------------|--------|---------|---|
| 2002-01 | PDS | Transformer Specification: Costly Common Misconceptions | Roger A. Bengston | Ed Reid | Terry Branch | Dave Burrow | Robert Adams | C | 2003 | New Subject 2001, Need update from Roger Bengston |
| 2002-05 | PDS | Case Study of Electrical System Reliability and Upgrade Justification | Alex Wu | Robert Adams | Glenn Smith | Doug Moody | Steve Dyrnes | A | 2003 | Need Release from Client |
| 2002-06 | PDS | Disturbance Monitoring Tutorial | | Bill Vilcheck | | | | A | 2003 | Outline In Hand & Instructors Identified |
| 2002-08 | PDS | Over Current Protection for Energy Efficient Motors | Steven Dyrnes | Alex Wu | Doug Moody | Bruce Graves | Jay Das | C | 2003 | Need Feedback from Author |
| 2003-01 | PDS | Industrial Generator Grounding Recommendations | Dave Shipp | Bill Vilcheck | Don Deyo | Terry Branch | Alex Wu | C | 2003 | Doug Moody would also co-author |
| 2003-02 | PDS | Medium Voltage Passive Filters - Potentialities and Pitfalls | Jay Das | Robert Adams | Cliff Normand | Vernon Newbill | Alex Wu | A | 2003 | Copies of paper given to reviewers. |
| 2003-03 | PDS | Generator Grounding Options | Alex Wu | Cliff Normand | Jay Das | Bob Moore | Vernon Newbill | C | 2003 | |
| 2003-04 | PDS | Arc Resistant Switchgear Application and Installation | | Jim Closson | | | | D | 2003 | Cliff Normand to advise on possible author. |
| 2003-05 | PDS | Case Study in Generator Brush Changing Procedures | | Doug Moody | Bill Vilcheck | Jamie Lyles | Gus Henson | D | 2004 | Moved to 2004. |
| 2003-06 | PDS | Mitigating Capacitor Switching Over-voltages | Jay Das | Rich Schaefer | Jamie Lyles | Bill Vilcheck | Gus Henson | C | 2003 | |
| 2003-07 | PDS | Follow-Up Digital Relay Testing | | Jim Closson | | | | D | 2003 | Jim Closson to find author. Could be a panel. |
| 2003-08 | PDS | Even Harmonic Resonance - An Unusual Problem | Paul Buddingh | Alex Wu | Shoaib Kahn | Jay Das | Ed Sexton | A | 2003 | Will be presented @ PCIC. Verify OK for PPIC |
| 2003-09 | PDS | Effects of Utility Deregulation - What Does This Mean to Industry? | Mark Weaver | Alex Wu | | | | B | 2003 | Suggestion for Friday Morning Panel |
| 2003-10 | PDS | Hybrid Grounding System for Low and Medium Voltage Power Systems | Ajit Badat | Jim Closson | Cliff Normand | Jamie Lyles | Dave Burrow | C | 2003 | |
| 2003-11 | PDS | Flash Hazard Fault Calculations | Shoaib Kahn | Ed Sexton | Jim Closson | Alex Wu | Cliff Normand | C | 2003 | |
| 2003-12 | PDS | Transient Stability Study - Case Study – Small Generator Connected to Weak Electrical System | Jay Das | Rich Schaefer | Alex Wu | Terry Branch | Doug Moody | C | 2003 | |
| 2003-13 | PDS | NERC (National Electrical Reliability Council) Requirement for Independent Power Producers | Rich Schaefer | Bill Closson | Jay Das | Vernon Newbill | Alex Wu | C | 2003 | |
| 2003-14 | PDS | Generator Protection Upgrades Tutorial | Chuck Mozina | | | | | | 2003 | |
| 2003-15 | PDS | Plant-Wide Energy Efficiency Assessment | | Bruce Graves | | | | E | 2003 | Will review with author. |
| 2004-00 | PDS | Generator Field Ground Fault Detection | | | | | | E | 2004 ?? | Subject Introduced for Discussion |

APPENDIX D

TSSC SUBCOMMITTEE

APPENDIX D TSSC SUBCOMMITTEE
TRAINING, SAFETY, STANDARD AND CODES
SUBCOMMITTEE
IEEE, IAS PULP & PAPER COMMITTEE
CONFERENCE MEETING
MINUTES of MEETING

Meeting Date: June 17, 2002

Recorded by: Jim Williams

NO REPORT

FUTURE PAPERS

NO REPORT

APPENDIX E DCS SUBCOMMITTEE**DRIVES AND CONTROLS SUBCOMMITTEE
2002 ANNUAL MEETING MINUTES**

Meeting Date: June 17, 2002
Meeting Started: 8:38 AM
Meeting Adjourned: 11:45 AM
Chairman: Bob Olsson
Secretary: Duncan Rhodes
Total Members: 40
Members Present: 30
Members Excused: 0
Members Not Excused: 12
Guests: 4
Paper Reviewer: To be determined at Interim Meeting
Meritorious Award Nominees: None
Conference Volunteers: To be determined at Interim Meeting
 Audio/Video: Duncan Rhodes

Introduction

All members and guests introduced themselves.

Announcements

None.

General Business

- The Interim Meeting is scheduled for Atlanta, GA, at the Westin Airport Hotel (888-627-7211), on 10/26/02 (Saturday evening – E-Board) & 10/27/02 (Sunday – Subcommittee meetings – adjourn about 3:00 pm). IEEE group room rate is \$119.00, reservations by 9/27/02. Shuttle from airport.
- TAPPI PCE&I Division will have their interim meeting there following the IEEE PPIC meeting on 10/27/02 (Sunday evening - E-Board) & 10/28/02 (Monday - Subcommittee meetings – adjourn about 3:00 pm).
- Future Conferences are scheduled as follow:

| | | | |
|------|--------------------------|-----------------------|--------------|
| 2003 | Charleston, SC | Rhonda Banks | |
| | www.pulpandpaper2003.com | | |
| | June xx-xx | Westin Francis Marion | 843-722-0600 |

APPENDIX E

DCS SUBCOMMITTEE

| | | | |
|------|--------------------------------|----------------------------|--------------|
| 2004 | Vancouver, BC | Mark Weaver | |
| 2005 | Jacksonville, FL June 20-24 | Rich Butler Adam's Mark | 904-633-9095 |
| 2006 | St. Louis, MO | Jim Closson | |
| 2007 | Milwaukee, WI | | |

- Blake Lloyd will find a website to permanently host the PPIC Conference information. His existing company website has too slow an internet connection, and the IEEE website is inflexible on content control (everything must be submitted to the IEEE webmasters for entry on website). Website hosting services should be relatively cheap, under \$50.00 per month. (Above relayed from the Executive Committee meeting.)
- The necessity of more mill participation was discussed in the subcommittee meeting, as well as in the full committee meeting later.

Future Papers

| | | | | |
|------|---|---|----------------|---|
| 2003 | A | 7 | 2003 Tutorials | 1 |
| | B | 1 | | |
| | C | 2 | | |
| | D | 3 | | |
| | E | 2 | | |
| 2004 | C | 1 | | |
| | D | 2 | | |
| | E | 5 | | |

See the attached paper summary spreadsheet.

Member and Attendance List

See the attached attendance spreadsheet.

Bob Olsson adjourned the meeting at 11:45 am.

APPENDIX E

DCS SUBCOMMITTEE

FUTURE PAPERS

| Paper Number | Paper Title | Author1 | Sponsor1 | Reviewer 1 | Reviewer 2 | Reviewer3 | Reviewer4 | Status | Comments |
|--------------|---|----------------------|-----------------------------|--------------------------|-------------------|-------------------|-------------------|--------|---|
| 1996-15 | Electric Welder Practice in Paper Mills | | Warren Hopper | D. Ray Crane | Duncan Rhodes | Walt Jones | Patrick Link | D | Warren Hopper to recruit author from Weyerhaeuser Springfield mill |
| 1999-02 | Synchronous Motor Field Protection and Control Applications | | Russ Ford | Mark Weaver | Hank Wachter | John Kay | | E | Still no author. Jim Rooks to help. Will call GE Issaquah, Dennis Bough |
| 2000-03 | The Effects of Soft Covered Rolls Being Nipped and the Resulting Effects on Roll Regulation | Walt Jones | Alan Lowe | Philip Fransen | Duncan Rhodes | Bob Morse | Pete Werner | A | 2nd draft by Interim Meeting |
| 2000-12 | Case History - Design Considerations of Drive System Installations | Warren Hopper | John Holmquist | Pat Link | Walt Jones | Dan Mintzlauff | Mark Weaver | C | Rough draft by Interim Meeting |
| 2001-04 | Drive Application for Bridge Cranes | Kent Campbell | Mark Weaver | Pete Werner | Tim Albers | Alan Lowe | Mark Zawadzki | C | John Malinowski to find an author |
| 2002-01 | Proper Drive Installation for Adjustable Speed Drives | Pat Link | John Bentley | Erwin von der Ehe | Warren Hopper | Duncan Rhodes | John Kay | C | Pat Link will do testing. Customer will need to help. |
| 2002-06 | Understanding the New EASA Mechanical Repair Guideline | Cynthia Nyberg | Tim Albers | Allen Lowe/John Thompson | Duncan Rhodes | Erwin von der Ehe | John Holmquist | B | Ready to go. Need to see whether presenter has conflict with EASA show. |
| 2002-09 | The Impact of Voltage Utilization on AC Drives | Pete Werner | Duncan Rhodes | Mark Weaver | Erwin von der Ehe | Ken Butler | Warren Hopper | D | Abstract by Interim meeting. |
| 2003-01 | Coordinated Drive Systems | | Dave Mintzlauff | | | | | C | Tutorial outline received. 8 hour seminar. |
| 2003-02 | Energy Efficiency on Variable Speed Drive Systems | | John Malinowski / Jim Rooks | | | | | E | Funds needed for testing costs. |
| 2003-03 | Case History of a Paper Machine Upgrade in Latin America | Diego Alvarez | Ron Meihofner | | | | | D | Startup estimated late Summer, 2002 |
| 2003-04 | DC Motor Flashover Case History | Mark Zawadzki | Tim Albers | | | | | E | no progress yet |
| 2003-05 | Bus Capacitor Life in AC Drives | Mark Zawadzki | Duncan Rhodes | | | | | E | Support promised from ABB & GE to make into a more generic paper. |
| 2003-06 | Replacement of Mechanical PIV's by AC Drives | Mike Bilkey | Duncan Rhodes | | | | | E | Couldn't find mill. Paperchine can present. |
| 2003-07 | Mill Requirements for Drive System Trending | Mark Zawadzki | Duncan Rhodes | | | | | D | |
| 2003-08 | Robust Sensorless Tension Control for the Dry End of Paper Machine Drives | M. Anibal Valenzuela | Erwin von der Ehe | Mark Weaver | Alan Lowe | Walt Jones | Pete Werner | A | Abstract & first draft handed out. |
| 2003-09 | Implementation Issues in Electronic Lineshafting Control | M. Anibal Valenzuela | Erwin von der Ehe | Mark Weaver | Alan Lowe | Walt Jones | Pete Werner | A | Abstract & first draft handed out. |
| 2003-10 | Thermal Evaluation of TEFC Induction Motors Operating on Frequency Controlled Variable Speed Drives | M. Anibal Valenzuela | John Malinowski | Tim Albers | Cameron Carr | Walt Jones | Erwin von der Ehe | A | Abstract & first draft handed out. |
| 2003-11 | Industrial CAT5 & Fiberoptics Cabling and Terminations for Drives & Controls | Cameron K. Carr | | Alan Lowe | Duncan Rhodes | Warren Hopper | Pat Link | A | Abstract handed out. |
| 2003-12 | Impulse Testing and Turn Insulation Deterioration in Electric Motors | Ernesto Wiedenbrug | Jim Rooks | Tim Albers | Russell Ford | John Holmquist | Ken Butler | A | Abstract handed out. |
| 2003-13 | Practical Approach for Determining Motor Efficiency in the Field Using Calculated and Measured Values | John Holmquist | Jim Rooks | Charlie Canty | Tim Albers | Mark Weaver | Preston Jackson | A | Abstract handed out. |
| 2003-14 | Next Generation Super Premium Motors | | John Malinowski | | | | | E | |
| 2004-01 | Life Cycle Costing - AC vs DC Coordinated Drive Systems | Duncan Rhodes | | | | | | E | |

APPENDIX F CBS SUBCOMMITTEE
COMPUTER BASED SYSTEMS
SUBCOMMITTEE
JUNE 17, 2002 MEETING MINUTES

Meeting Date: June 17, 2002

Meeting Start: 8:00 AM

Meeting Adjourn: 11:30 AM

Recorded by: John C. Thompson / Laurie Cihlar

Total Members: 8

Members Present: 5

Kirk Armintor

Steve Trussell

John C. Thompson

Blake Lloyd

Larry Thomas

Members Excused: 3

Janet Flores

Stan Merritt

Mike Jhaveri

Members Not Excused: 0

Guests: 1

Laurie Cihlar

2003 Paper Reviewer:

John Thompson and Steve Trussell as alternate

2003 Meritorious Award Nominees:

Service – Frank Newman, Engineering – Patrick Link

Conference Volunteers:

Lights for Friday Session – Kirk Armintor

Introduction

John Thompson welcomed everyone to the Toronto Conference and asked everyone to introduce him or herself.

Minutes of the last meeting were accepted.

The current Subcommittee Membership Directory was circulated and updated. The updates and attendance was forwarded to Alan Lowe.

Announcements

The 2002 Interim Meeting will be held at the Westin Airport Hotel on October 26th and 27th.

Next year's Electrical Safety Workshop will be held at the Westin Galleria Hotel in Houston, TX, February 5-7, 2003

The 2003 Annual IEEE/IAS/PPIC Conference will be held at the Westin Francis Marion, Charleston, SC, June 16-20, 2003.

General Business

The paper/panel/tutorial summary was reviewed and recorded in an Access database developed by Ron Simpson. Laurie Cihlar volunteered to be our scribe. This database will be converted into an Excel spreadsheet by Ron and submitted to Rory for publication in the Full Committee Meeting Minutes. New topics were discussed, assigned to sponsors and added to the list. We currently have identified our paper status to be 1A, 2B, 3C and 5E with no proposed panels or tutorials.

Solicitation for nominations for the Meritorious Service and Engineering Awards were extended and the names were forwarded to Russ Thrift.

FUTURE PAPERS

NO REPORT

APPENDIX G MEMBERSHIP REPORT

**MEMBERSHIP REPORT
IEEE PULP & PAPER INDUSTRY COMMITTEE
INTERIM MEETING
JUNE 17, 2002**

Our current committee membership is 115. Since the interim meeting in October we have had the following changes in membership:

No new members.

Two (2) members retired/resigned.

- Doug Frushour
- Bill Polley

Six (6) members dropped due to non-participation.

- Terry Branch
- Darrell Broussard
- Robert Burns
- Tom Campbell
- John Fagen
- Pat McNulty

Two (2) applications are pending.

- Tim Hoy, Universal Dynamics LTD
- Gary Wetzel, S&C Electric Company

At the interim meeting in October we had 49 members present, 43 members requested excused absences and 32 had unexcused absences.

Report submitted by Alan Lowe, Membership Chairman.

APPENDIX G

MEMBERSHIP REPORT

| | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 | 00 | 01 | 02 |
|-------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | 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 | A/I |
| Robert Adams | | | | | | | | | | | | | | | | | | X/X | X/O | X/X | E/ |
| Tom Albers | | | | | | | | | | | | | | | | | | | X/X | X/X | X/ |
| Debra Armstrong | | | | | | | | | | | | O/E | O/E | X/X | X/E | X/X | X/X | E/O | X/O | E/O | O/ |
| Robert Baen | | | | | | | | | | | | | | | | X | O/X | X/X | X/E | O/E | E/ |
| Wanda Banks | | | | | | | | | | | | | | X/E | O/X | X/X | X/X | O/X | E/X | X/X | X/ |
| Robert Beltz | | | | | | | | | | | | | | | | | | | E/E | O/X | O/ |
| John Bentley | | | X/E | X/X | X/E | X/X | X/E | X/X | X/X | X/X | X/X | X/X | X/E | X/X | X/X | X/X | X/X | X/E | X/E | E/E | X/ |
| Justin Bonnett | | | | | | | | | X/X | X/X | X/X | X/X | X/X | X/X | X/X | X/X | X/X | X/X | X/E | E/E | E |
| Harry Branch | | | | | | | /E | X/X | X/O | X/E | X/X | X/O | X/O | O/E | E/E | O/E | O/O | O/X | O/O | O/O | X/ |
| Harrell Broussard | | | | | | | | | | | | | | | | | | | O/O | O/O | D |
| Tom Bruni | | | | | | | | | | | | | | | | | | | /O | O/ | |
| Robert Burns | | | | | | | | | | | | | | | | | | | O/O | O/O | D |
| David Burrow | | | | | | | | | | | | | | | | X/X | O/E | O/O | O/O | X/E | X/ |
| Tom Butler | | | | | | | | | | | | | | | | X/O | O/O | O/O | X/O | X/O | X/ |
| John Butler | | | | | | | | | | | | | | | | | | X/X | X/X | X/O | X/ |
| Debra Campbell | | | | | | | | /X | X/E | X/O | X/X | X/X | X/O | X/X | X/X | X/X | X/X | X/X | X/X | X/X | O/ |
| Tom Campbell | | | | | | | | | | | | | | | | | X/O | X/E | O/O | O/O | D |
| Barrie 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 | X/X | X/E | X/X | X/X | X/X | X/ |
| Richard Carle | | | | | | | | | | | | | | E/E | O/O | O/E | O/E | X/O | X/O | X/O | O/ |
| Marie Cihlar | | | | | | | | | | | | /X | X/X | X/X | O/X | O/X | E/E | E/X | X/E | E/X | X/ |
| Tom Closson | | | | | | | | | | | | | | | | | | | -X | X/X | X/ |
| Ray Crane | 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 | X/E | X/E | X/X | X/E | X/X | X/ |
| Tom Crnko | | | | | | | | | | | | | | | | | | X/X | X/X | X/E | X/ |
| Steve Dalpe | | | | | | | | | | | | | | | | | | O/O | X/O | O/O | E/ |
| Tom Daly | 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 | X/E | X/O | | X/X | X/O | X/ |
| Ray Das | | | | | | | | | | | | | | | | | | | -X | X/X | ? |
| Al Decker | | | | | | | | | | | | X/O | X/E | O/O | O/O | X/E | E/E | E/E | X/E | X/E | E/ |
| Tom Deyo | | | | | | | | /E | X/X | X/X | X/X | X/O | E/X | X/X | E/E | X/E | X/O | X/E | X/E | X/E | X/ |
| David Durocher | | | | | | | | | | | | | | | | X/X | X/X | X/X | X/O | X/X | X/ |
| Richard Dykstra | | | | | | | | | | | | | | | | | | | | X/E | O/ |
| Stephen Dyrnes | | | /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 | X/E | X/E | X/E | E/O | X/E | E/ |
| John Fagen | | | | | | | | | | | | | | | | | | X/X | O/O | O/O | D |
| Steve Famighetti | | | | | | | X/O | X/O | X/E | X/X | X/E | X/E | E/E | E/E | E/E | O/O | X/E | O/O | E/E | E/E | O/ |
| Bob Finke | | | | | | | | | X/E | X/X | X/X | X/E | E/X | X/O | X/O | X/X | O/O | O/X | X/X | X/X | E/ |
| Robert Flores | | | | | | | | | | | | | | X/X | X/X | E/X | X/O | E/X | O/E | X/E | E/ |
| John Ford | | | | | | | | | | | | | | | | | | | X/O | X/X | X/ |
| Neil Fransen | X/ | X/E | X/E | X/E | X/X | X/X | X/E | E/E | X/E | E/O | X/X | O/O | X/E | X/E | X/X | X/X | X/X | E/X | X/E | E/E | E/ |
| Bob Fritz | 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 | E/O | O/E | O/O | E/O | E/O | O/ |
| Douglas Frushour | | | | | | | | | | | | | | | | X/X | E/O | O/X | X/O | O/R | |
| Harry Gallagher | | | | | | | | | | | | | | | | X/X | X/X | X/E | X/O | X/E | X/ |
| Bob Giese | | | | | /E | X/O | E/E | O/O | X/E | E/E | X/O | E/O | E/E | X/E | X/O | E/O | E/O | X/E | O/E | X/O | O/ |
| Mike Glenn | 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 | E/X | E/E | X/E | E/E | O/E | E/ |
| Debra 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 | X/X | E/E | O/X | X/X | X/X | X/ |
| Jacky Hammonds | | | | | | | | | | | | | | O/X | X/E | X/O | X/O | O/X | X/O | O/X | E/ |
| James Harris | | | | | | | | | | | | | | | | | -X | O/X | O/X | X/E | X/ |
| Barren Henson | | | | | | | | | | | | | | | | | | O/X | X/E | O/X | X/ |

APPENDIX G

MEMBERSHIP REPORT

| | | | | | | | | | | | | | | | | | | | | | | |
|-------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|
| John Holmquist | | | | | /E | X/E | X/X | X/X | X/E | X/X | X/E | X/X | X/X | X/X | X/X | X/E | X/X | X/X | X/X | X/X | X/ | |
| Warren Hopper | | | | | | | | | | | | | | | | | | | X/E | O/O | X/ | |
| | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 | 00 | 01 | 02 | |
| | 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 | A/I | |
| John Hoy | | | | | | | | | | | | | | | | | | | | X/O | O/ | |
| Audrey Hudson | 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 | E/E | O/O | O/O | E/O | O/O | O/ | |
| Eston 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 | X/E | X/O | X/X | X/X | X/X | X/ | |
| Ike Jhaveri | | | | | | | | | | /O | X/X | O/X | O/E | X/E | X/X | O/X | X/O | X/O | X/O | X/E | E/ | |
| Bry 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 | X/X | X/X | X/X | E/X | X/X | X/ | |
| Roger Jones | | | | | | 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 | X/X | X/ | |
| Walt Jones | 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 | X/X | X/X | X/X | X/X | E/E | X/ | |
| Robert Jordan | | | | | | | | | | | | | | | | E/E | X/X | X/E | X/X | X/X | X/ | |
| Art Judson | 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 | X/X | X/X | X/E | X/X | X/X | X/ | |
| Jack Kane | | | | | | | | /X | X/E | X/E | O/O | O/X | X/E | X/E | X/E | E/E | X/E | O/E | X/O | E/O | O/ | |
| John A. Kay | | | | | | | | | | | | | | | | X/X | X/X | X/X | X/X | X/X | X/ | |
| Moab Khan | | | | | | | | | /E | X/O | X/O | X/O | X/O | X/O | X/E | X/X | X/E | X/E | X/O | X/E | X/ | |
| John Levine | | | | | | | | | | | /X | E/X | X/X | E/X | X/E | O/X | X/X | O/X | X/E | O/X | E/ | |
| Pat Link | | | | | | | | | | | | /X | X/E | E/E | X/X | O/X | X/X | X/E | X/E | X/X | X/ | |
| Walter Lloyd | | | | | | | | | | | | | | | X/E | X/X | X/X | X/X | X/E | X/E | X/ | |
| Bob Lorenz | | | | | | | | | | | | | | | | | | | X/O | O/O | X/ | |
| Alan Lowe | | | | | | O/E | X/E | X/X | X/X | X/X | X/X | X/X | X/E | X/X | X/X | X/X | X/X | X/X | X/E | X/X | X/ | |
| James Lyles | | | | | | | | | | | | | | | | X/O | O/O | O/O | X/E | O/X | X/ | |
| John Malinowski | | | | | | | | | | | | | | | | | | | | X/X | X/ | |
| John Mantooth | | | | | | | | | | | | | | | | | | X/X | X/X | O/O | O/ | |
| George Matto | 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 | X/E | O/O | X/E | X/E | X/E | X/ | |
| Patrick McNulty | | | | | | | | | | | | | | | | X/X | X/X | O/X | X/O | O/O | D | |
| John Mehofer | 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 | E/X | X/X | X/X | X/X | X/X | X/ | |
| Harry Menche | | | | | | | | | | | | | X/E | X/X | X/O | X/E | E/E | X/X | X/O | E/X | X/ | |
| Alan Merritt | 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 | E/E | E/O | O/E | E/ | |
| David Mintzloff | | | | | | | | | | | | | | | O/X | O/E | O/E | O/E | X/O | X/E | X/ | |
| Robert Mohuiddin | | | | | | | | | | | | | | | | | | | -/O | O/E | O/ | |
| Robert Montgomery | | | | | | | | | | | | | | | | | -/X | X/X | X/X | E/X | X/ | |
| Doug Moody | | | | | | | | | | | | | | | | | | | -/O | X/X | X/ | |
| Bob Morse | 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 | X/X | X/X | X/E | X/X | X/E | R | |
| Ermon Newbill | | | | | | | | | | | | | | | | | X/O | X/X | E/X | O/E | X/ | |
| Frank Newman | 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 | X/E | E/E | O/X | X/E | E/E | E/ | |
| Wifford Normand | | | | | | | | | | | | | | | | X/X | X/X | X/X | X/X | X/E | X/ | |
| Bob Olsson | | | | | | | | | | | | | | | | X/X | X/X | X/X | X/X | X/X | X/ | |
| Ed Palmer | | | | | | | X/X | O/X | X/X | X/X | X/X | X/X | X/O | E/X | E/X | X/X | O/O | E/X | X/O | X/E | O/ | |
| Anton 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 | E/E | E/ |
| Stephen Pittman | | | | | | | | | | | | | | X/X | E/X | X/X | X/X | X/X | X/E | X/E | O/ | |
| Bill Polley | 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/E | X/X | X/E | E/O | X/E | R | | |
| Ike Poynter | | | | | | | | | | | | X/E | X/O | X/E | E/E | X/O | X/O | X/O | X/E | O/O | X/ | |
| Harry Pryor | | | | | | | | | | | | | | | | X/E | X/E | X/E | E/E | O/ | | |
| Paul 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 | X/E | X/O | X/O | X/E | E/E | R | |
| Walt 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/ | |
| Bill Reid | | | | | | | | /X | X/X | X/X | X/X | X/X | X/E | E/X | E/X | X/X | X/O | O/O | E/O | X/E | O/ | |
| Wuncan Rhodes | | | | | | | | | | | | | | | | X/E | X/X | X/E | X/X | X/X | X/ | |
| Wally Roberge | | | | | | | | | | | | | | | | | | -/X | X/X | X/E | E/ | |

APPENDIX G

MEMBERSHIP REPORT

| | | | | | | | | | | | | | | | | | | | | | | |
|-----------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| ave 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 | X/X | E/X | X/X | X/X | X/E | X/ |
| mes Rooks | | | | | | | | | | | | | | | | | X/O | X/X | X/O | X/X | X/X | X/ |
| aul Roullier | | | | | | | | | /X | X/X | X/E | X/X | X/X | X/X | X/X | X/X | X/E | X/X | X/E | X/X | X/X | X/ |
| | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 | 00 | 01 | 02 | |
| | 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 | A/I | A/I |
| chard Schaefer | | | | | | | | | | | | | | | | | | -/E | X/E | X/E | X/ | |
| al Seaver | | | | | | | | | | | | | | /O | X/X | X/O | X/E | X/X | X/X | X/X | X/X | X/ |
| rd Sexton | | | | | | | | | /E | X/E | X/X | X/O | O/O | O/E | X/O | O/O | X/E | X/O | X/O | E/E | X/ | |
| alph Shead | | | | | | | | | | | | | /O | X/X | X/X | X/X | X/X | X/X | X/X | O/O | E | |
| on 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 | X/E | X/X | X/X | X/X | X/X | X/X | X/ |
| enn Smith | | | | | | | | | | | | | | | | | | | X/O | X/E | E/ | |
| ay Smith | | | | | | /X | X/X | X/X | E/E | X/X | X/X | E/X | X/X | X/X | X/X | O/O | X/O | O/O | X/O | O/X | O/ | |
| alcolm Steeves | | | | | | | E/O | O/X | X/E | O/E | X/E | E/O | X/O | X/E | O/E | X/E | X/E | X/O | X/E | O/E | O/ | |
| irry Thomas | | | | | | | E/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/ |
| hn C. Thompson | | | | | | | | | | | | | | | | | X/X | X/X | X/X | X/X | X/X | X/ |
| hn R. Thompson | 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 | X/X | X/X | X/E | X/O | X/O | X/ | |
| ss Thrift | | | | | | | 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 | X/X | X/ |
| eno Tonsi | | | | | | | /X | X/E | X/E | X/X | X/X | X/E | X/E | X/X | X/X | X/X | X/O | X/E | E/O | O/E | O/ | |
| arlie Toole | | | | | | | | | | | | | | | | | | X/O | X/E | O/O | O/ | |
| even Trussell | | | | | | | | | | | | | | | | | | | X/O | X/E | X/ | |
| ibal Valenzuela | | | | | | | | | | | | | | | | | | | | X/E | X/O | X/ |
| l Vilcheck | | | | | | | | | | | | | | | | /X | X/X | O/X | X/X | X/E | X/ | |
| ayne Vinson | | | | | | | | | | | | | | | | O/X | X/X | X/X | X/X | X/E | E/E | E/ |
| win von der Ehe | | | | | | | | | | | | | | | | | | X/E | X/E | X/O | X/O | X/ |
| ank Wachter | | | | | | | | | | X/O | X/E | X/X | X/X | X/E | X/E | X/X | X/X | X/X | E/E | O/X | O/ | |
| ck Watkins | | | | | | | | /X | X/X | X/X | X/O | X/X | E/X | X/X | X/E | O/X | X/X | O/O | O/O | X/X | X/ | |
| len Watson | | | | | | | | | | | | | | | | | | | | | X/O | X/ |
| ark 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 | X/X | X/E | X/X | X/X | X/X | X/X | X/ |
| ste Werner | | | | | | | | | | | | | X/O | X/X | X/O | E/E | X/X | X/E | X/X | X/E | X/ | |
| ary Wetzell | | | | | | | | | | | | | | | | | | | | | X/O | O/ |
| n Williams | E/E | O/O | X/X | X/E | X/X | X/X | X/X | E/O | X/E | E/E | X/E | E/O | E/O | X/O | E/E | E/O | O/O | X/O | O/X | X/X | X/ | |
| arles Wood | | | | | | | E/X | E/X | E/X | E/O | O/X | E/X | E/X | O/O | X/X | E/X | O/O | O/O | X/X | O/O | O/ | |
| ex 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 | X/X | X/X | X/O | X/X | X/X | X/X | X/X | X/ |
| ark Zawadzki | | | | | | | | | | | | | | | | /X | E/X | X/O | X/X | E/X | O/ | |

APPENDIX H PAPER AWARDS AND PUBLICATIONS

NO REPORT