



INDUSTRY APPLICATIONS SOCIETY

Pulp & Paper Industry Committee

**IEEE/IAS PULP & PAPER INDUSTRY
COMMITTEE**

MINUTES
of the

FULL COMMITTEE

MEETING

1999 ANNUAL COMMITTEE MEETING
SEATTLE, WA
JUNE 20-25, 1999

IEEE/IAS PULP & PAPER INDUSTRY COMMITTEE
FULL COMMITTEE MEETING
JUNE 21, 1999

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**IEEE/IAS PULP & PAPER INDUSTRY COMMITTEE
ANNUAL MEETING
MINUTES OF THE FULL COMMITTEE
WESTIN HOTEL
ATLANTA, GEORGIA**

JUNE 21, 1999

WELCOME AND INTRODUCTIONS

Larry Thomas called the meeting to order at 1:00 PM. He welcomed everyone and then asked everyone to introduce himself or herself.

SECRETARY'S REPORT

Ron Simpson announced that 16 were in attendance at the Executive Committee meeting. The minutes to the last Committee meeting were sent out. A motion was made and passed to accept the minutes. Ron announced that 95 of total 130 members were contacted by email and the remaining members were contacted by postal service. All minutes are now distributed in electronic form.

SPECIAL REPORT ON INTERIM MEETING

Larry Thomas requests a presentation on the location of interim meeting. Roger Jones presented an overhead with breakdown of membership by state. This year the interim meeting will be held at the Renaissance Waverly Hotel that is also the site for next years' conference. Larry stated that the committee needs to make a decision on the interim meeting site at least 1 year in advance. Atlanta has become more costly and it is increasingly difficult to find hotels near the airport. This location is not as convenient as it was when Atlanta was originally chosen as the in terim meeting site. Larry presented a breakdown of membership by geographic area.

Area	%
SE	39
Midwest	29
NE	11
West	12
Canada	8

Roger Jones passed out an interim meeting polling form for input from the committee members to be filled out before leaving today.

SEATTLE CONFERENCE REPORT

Tom Shearer reported that the Seattle Conference has:

243	registered
155	advance
52	non members
4	at conference registration
2	at conference nonmember
81	guest
221	social

Tutorial

Registrants

Protection/Coordination of Industrial Power Systems	36
Understanding and Applying NEMA MG-1 AC Motor Standards	20
Trends In Field Bus Technologies	18
General Safety & Lockout Procedures	8

There will be no conference welcome reception on Tuesday this year. The hospitality suites will open earlier than previous years. The dinner reception will be Thursday night. The social event was changed to Wednesday night in order to book the air museum for our exclusive use. There will be several food bars spread out over the facility.

The Thursday night vendors' reception will be in the Spanish Ballroom foyer. The conference luncheon will be in the Crown Ballroom across the street. Yellow tickets will be issued for the vendors' reception. Red tickets will be issued for drinks at the social event.

The following nametag color code is being used for this conference.

Nametag Color	Status
Blue	Executive and Subcommittee Members
White	Authors
Gold	Award Winners
Red	Local Committee
Green	First Time Attendees

ATLANTA TECHNICAL REPORT

Roger Jones reports that as of the interim meeting he had the following possible papers.

Number	Category
37	A
19	B
11	C
13	D
1	E
56	Total A & B

Roger Jones states that as of today he has the following papers for next years' conference.

Number	Category
9	DCS Subcommittee - 1 tutorial
3	CBS - 1 tutorial
3	TSSC - 1 tutorial
7	EMMC - 1 panel
8	PDS - 1 tutorial
30	Total - 4 tutorials 1 panel

Roger stated that there is a need for an author to present a paper on tie line control and frequency relay settings. He does not have verification that this author will attend the conference.

TREASURER'S REPORT/CONFERENCE AUDITS

Phil Fransen had an excused absence. Larry Thomas presents this report. The status of the conference audits is as follows. The Portland conference audit is complete.

Bruce Cambell reports that IEEE has approved the Cincinnati audit and the books have been closed.

PORTLAND CONFERENCE REPORT

Ron Simpson reported on the Portland Conference for Tom Osborne. The Portland committee has had a successful audit. The books were kept on the Quick Books software package. Seattle is also using this software. The Portland committee issued a check to \$14,394 to the IEEE local chapter and a check for \$28,979 to the IEEE/IAS. The conference expenses were lower than expected. This is believed to be due to a billing error on the part of the hotel. The luncheons were billed at half of the projections. Also, the cost of the social functions was lower than anticipated and the vendors' contributions were higher than anticipated.

The budget for the conference was \$152,895 and the actual income was \$151,332. There is a trend among attendees toward waiting until last minute to register for the conference.

Larry Thomas reminded the committee that a professional audit is required and that the auditor must have proper credentials. The person doing the audit can have no affiliation with the conference or the committee in order to assure that a truly independent audit is implemented. Shifting the interim meeting budget to the next conference allows a close out of conference books immediately after the conference. The impact on the conference budget is \$5k-\$7K.

STANDING SUBCOMMITTEE REPORTS

MEMBERSHIP

Alan Lowe reported that membership is now 142 members. There are 24 applications for membership pending. Since the last interim meeting there have been the following changes: 3 members have resigned and there are 14 new members. One of the resignations is from Ken Adams who is the Chair of the PDS Subcommittee.

Alan solicited new members. Successful applicants must be IEEE/IAS members. New members who sign up during the conference who are not IAS members will have their IAS dues paid by the committee.

MAILING LIST

Bob Morse reported that the mailing list was updated with the 1998 corrections from the conference mailing list books, the 1998 conference registration disk, and the added names sent to the ML coordinator during the year. We used the revised procedure for the mailing labels in that the MLC sent the revised ML disk to the Seattle committee for their use in generating the mailing labels for the 1999 conference.

PUBLICITY

Ron Mehofer will send out publicity early this year. Ron needs pictures for the IAS magazine. Larry Thomas will loan his camera to Ron to take pictures during the banquet.

PAPER REVIEW

Rhonda Banks will take the function of prize paper awards for the future conferences. Paper graders were assigned for each committee except for Ken Adams' PDS committee. H P Reddy will be the grader for this committee. Rhonda asks the paper graders to meet with her at the committee luncheon on Thursday with review grades. She asks that the committees select the graders for the next conference at this conference instead of the interim meeting.

Last year we had 34 papers presented at the conference. Of this number, 12 papers were recommended to the IAS for publication in the Transactions magazine. Of the 12 papers recommended to the IAS, 8 were approved for publication in the IAS magazine. The following awards were given at last years conference on Friday morning.

Austin Bonnett won best paper award. Patrick Link won second best paper award. Kevin Leblonski won best mill paper award. Rhonda recognized the graders for this conference and requested volunteers for next years' conference from those who have not done it before.

AWARDS

Russ Thrift announced that there will be 2 awards this year, one for meritorious service and one for meritorious engineering. Russ did not mention the winners by name but pointed out that the names and biographies are printed in the conference record. Russ encourages individuals to congratulate the recipients.

FELLOWS NOMINATIONS

Clayt Reid reports that John Bently will receive the IEEE Fellow award at the Banquet Thursday evening. The President and Vice President of the IAS will be present at the banquet and the President will present the award. Baldy Bridger suggests that John Bently be nominated for the IAS Richard Harold Koffman award.

The CPPA conference will be held in January. The hotel cost for this conference is less than that for the Seattle conference. Information on the Rome conference is on the table.

YOUNG PROFESSIONALS

Larry Thomas reported on the breakout group for the young professionals at 11AM in the St. James Room. Larry expressed the need to bring engineers in to the committee earlier in their careers.

LIAISON REPORTS

Burt Judson reported on the PCEI mega conference in Atlanta in March. This is a vendor show 1 out of every 3 years. Next march the PCEI conference will be in Williamsburg, VA the week of March 27. The Anaheim Engineering conference of TAPPI will be in September. The VA group meeting is Sep 30-Oct 1.

Jim Daily reported on the IEEE Standards Coordinating Committee. The Standard for EMI (Electromagnetic Interference) for immediate effects is under development. OSHA wants a standard for industrial plants. Jim requests participation by our committee members.

Austin Bonnett reported on the PCIC 841 Motor Standard for hostile duty. This standards committee met in Houston in April of this year. The committee is now working on the sixth draft of the standard. There are two open issues under discussion. The revised efficiency levels will be in effect by mid year 2000. Two levels of efficiency are under review. Manufacturers say that the levels are too high for some motors in the optional table. Manufacturers exceed present table levels. The committee may increase the efficiency levels in the lower table rather than creating a second table.

OPERATING SUBCOMMITTEE REPORTS

EMMC

Rory Johnson reports that his committee had 18 persons present this morning, with 15 members, 3 guest, 7 excused absences, and 6 unexcused absences. He had 2 volunteers to operate the lights during the technical sessions.

Next years papers that have been identified are:

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

PDS

Cliff Norman reports 20 members in attendance this morning with 6 guest and 4 excused absences. Next years' papers that have been identified are:

Number	Type
1	A
7	B
8	C

2	D
1	E
1	Tutorial

TSSC

Steve Pittman reports 15 present, 13 members, and 2 visitors with no excused absences. Next years' papers that have been identified are:

Number	Type
1	B
3	C
2	D
4	E

DCS

John Thompson reports 25 present with 3 excused absences, 3 unexcused absences, and 16 guest. Next years' papers that have been identified are:

Number	Type
6	A
2	B
10	C

CBS

Blake Lloyd reports 6 present with 3 excused absences and 3 unexcused absences. Next years' papers that have been identified are:

10 papers

Blake also reports that a web site will be developed for this committee before the interim meeting.

2000 ATLANTA TECHNICAL PROGRAM

Roger Jones reports that all paper presentations must now be on power point. There will be no slide projector for this conference. The same will be true for the Atlanta conference. Roger also reports that Blake Lloyd needs a back up to handle the computer work for presentations. The total papers reported for the Atlanta conference are:

Number	Type
12	A
15	B
25	C
10	D
11	E
27	Total A+B
2	Tutorials

Larry Thomas reports that while we don't need a projector monitor, we do need light monitors. Time slots for the light monitors will be assigned per order of the committee listing in the minutes.

2000 ATLANTA CONFERENCE REPORT

Charlie Canty reports that the Waverly Renaissance will be used for both the interim meeting and the conference in Atlanta.

2001 PORTLAND OREGAN REPORT

George Matto reports that a contract has been in place for 6 months to return to the Marriott, which was the same hotel that was used in the previous conference in Portland. The conference is scheduled for June 16-22, 2001.

2002 Toronto Report

John Kay reports that 2 hotels are under consideration. The conference is scheduled for the week of June 15, 2002. The hotel rates will be half of the Seattle Four Seasons Hotel.

FUTURE CONFERENCES

Larry Thomas reported on future conferences and asked for suggestions. The 2003 conference will be in Charleston, SC. Rhonda Banks will be the Chair of the conference committee.

The 2004 conference will be in the Empress Hotel in Victoria, BC or the Bay Shore Hotel in Vancouver, BC. The conference has been held in the Bay Shore on 3 previous occasions.

OLD BUSINESS

Larry Thomas reports that the interim meeting will be on Oct 13, 1999 in Atlanta at the Renaissance Waverly Hotel. Charlotte, Orlando, Charleston, Reno, and Las Vegas have been suggested as alternative sites to Atlanta for the interim meeting in future years.

Mark Weaver reported on the Y2K IAS meeting in Rome scheduled for October 9, 2000. The IAS wants to make the conference more application and less academic. Mark has commitments for 1 paper with 3 possible papers. Papers can be presented at P&PIC and then at the Rome IAS meeting.

NEW BUSINESS

Larry Thomas reports that the following nominees have agreed to accept the responsibility of PPIC Sub Committee Chairpersons from August 1, 1999 to July 30, 2001.

CBS

John Thompson
Cutler Hammer Co.
205 995 4590

PDS

Clifford Normand
International Paper Co.
513 248 6531

EMMC

Bruce Campbell
Seimens Energy & Automation
513 841 3179

TSSC

Bob Jordan
Willamette Industries, Inc
803 802 8120

DCS

Del Seaver
General Electric Co.
920 749 3635

The meeting was adjourned at 7:00 PM.

Appendix A:**FULL COMMITTEE AGENDA**

PRELIMINARY FULL COMMITTEE AGENDA
 IEEE PULP & PAPER INDUSTRY COMMITTEE
 ANNUAL MEETING
 OLYMPIC FOUR SEASONS HOTEL – SEATTLE, WA
 MONDAY, JUNE 22, 1999
 1:30 PM

- | | |
|---|------------------------------|
| 1 – Welcome & Introductions | Larry Thomas |
| 2 – Review/Approval of Minutes of 10/22/98 Meeting | Ron Simpson |
| 3 – Executive Committee Report | Ron Simpson |
| 4 – Portland, MA Conference Report | Gordon Dover for Tom Osborne |
| 5 – Treasurers Report/Conference Audits | Phil Fransen |
| a – Cincinnati, OH Audit Report | |
| b – Portland, MA Conference Report | |
| 6 – Standing Subcommittee Reports: | |
| a – Membership | Alan Lowe |
| b – Mailing List | Bob Morse |
| c – Publicity | Ron Meihofner |
| d – Awards | Russ Thrift |
| e – Paper Review | Rhonda Banks |
| f – Fellows Nominations | Clayton Reid |
| g – Young Professionals | Laurie Cihlar |
| 7 – Liaison Reports: | |
| a – TAPPI | Burt Judson |
| b – CPPA | Clayton Reid |
| c – IEEE-IAS | Clayton Reid |
| d – IEEE – Standards Coordinating | Jim Daly |
| 8 – Operating Subcommittee Reports: | |
| a – EMMC | Rory Johnson |
| b – PDS | Ken Adams |
| c – TSSC | Steve Pittman |
| d – DCS | John Thompson |
| e – CBS | Blake Lloyd |
| f – Motor Spec./Recommended Practices/AD-HOC | Austin Bonnett |
| 9 – 1999 Seattle Conference Report (June 21–25, 1999) | Tom Shearer |
| 10 – 1999 Seattle Technical Program | Roger Jones |
| 11 – 2000 Atlanta Conference Report | Charlie Canty |
| 12 – Future Conferences: | Phil Fransen |
| 1999 – Seattle, WA | Future Conference Sites |
| 2000 – Atlanta, GA | Four Seasons/Olympia |
| 2001 – Portland, OR | Renaissance/Waverly Hotel |
| 2002 – Toronto | |
| | Tom Shearer |
| | Charlie Canty |
| | George Matto |
| | John Kay |
| 13 – Old Business | |

APPENDIX A

Interim Meeting Arraignments
IEEE Y2K IAS Meeting Rome

14 – New Business

1999 Sub Committee Chair Appointments

Adjourn Full Committee Meeting approximately 3:30 PM!

99flmtg

EXECUTIVE COMMITTEE AGENDA

Dave Rollay
Mark Weaver

Larry Thomas

Appendix B: SIGN-IN SHEET

IEEE PULP & PAPER INDUSTRY COMMITTEE

FULL COMMITTEE MEETING

MONDAY JUNE 21, 1999

PDH

NAME	COMPANY	CITY	e-mail ADDRESS
Mike Glenn			
✓ [unclear] Johnson			
✓ Larry Thomas			
✓ Roger Jones			
✓ Alan Lowe	Simons	Atlanta	alowe@hasimons.com
JOHN C. THOMPSON	CUTLER-HAMMER	BIRMINGHAM	thompjc@ch.eta.com
✓ Erwin von der Ehe	ABB Automation	New Berlin, WI	erwin.vonderhehe@us.abb.com
JOHN M. BENTLEY	RETIRED	CEDARBURG, WI	jmbentley@prodigy.net
✓ PATRICK LINK	ABB Automation	Atlanta	Patrick.Link@us.abb.com
✓ CLIFFORD NORMAND	International Paper	CLEVELAND OH	CLIFF.NORMAND@IPAPER.COM
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Bill Caps	Weyerhaeuser	Valliant, OK	bill.caps@weyerhaeuser.com

IEEE PULP & PAPER INDUSTRY COMMITTEE

FULL COMMITTEE MEETING

MONDAY JUNE 21, 1999

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IEEE PULP & PAPER INDUSTRY COMMITTEE

FULL COMMITTEE MEETING

MONDAY JUNE 21, 1999

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IEEE PULP & PAPER INDUSTRY COMMITTEE

FULL COMMITTEE MEETING

MONDAY JUNE 21, 1999

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APPENDIX C EMMC SUBCOMMITTEE

**ENGINEERING MANAGEMENT, MAINTENANCE & CONSTRUCTION
SUBCOMMITTEE
IEEE, IAS PULP & PAPER COMMITTEE
INTERIM MEETING
MINUTES of MEETING**

Meeting Date: June 21,1999

Recorded by: Rory Johnson

Members Present:	Peter Baen	Rory Johnson
	Rhonda Banks	Larry Menche
	Lloyd Cain	Robert Montgomery
	Bruce Campbell	Roland Roberge
	Tom Campbell	Russ Thrift
	Rich Carle	Wayne Vinson
	Dave Durocher	Rick Watkins
	Burt Judson	

Total: 15

Guests Present: John Fagen
Tom Gower
Allan Watson

Total Present: 3

Excused Absence:	Laurie Cihlar	Frank Newman
	Del Decker	Phil Poole
	Gary Lozowski	Bill Sexton
	Larry Layman	

Total: 7

Unexcused Absence:	Ken Bruni	Pete Dalpe
	Hayes Carter	Tom Osborne
	Gary Clodfelter	Bill Polley

Total: 6

Total Members: 28

Distribution: Subcommittee Members, Guests.

Introduction

All attendees introduced themselves.

An attendance roster was circulated for everyone to sign.

A roster was circulated for anyone to fill in who had knowledge of who the past subcommittee Chairman were.

Announcements & General Business

- ◆ The EMMC subcommittee sponsored 7 papers and 1 panel for the 1999 Technical Conference.
- ◆ The Young Professionals Committee meeting at 11am was announced. Two people from the subcommittee attended. Rhonda Banks and Tom Campbell.
- ◆ Volunteers to assist with the slide projector and lights for the 1999 technical conference first session were Lloyd Cain and Burt Judson.
- ◆ The fall interim meeting will be held October 13 at the Renaissance Hotel in Waverly, Georgia, a suburb of Atlanta. The hotel does not offer a shuttle service from the airport.
- ◆ Discussed the proposal from the Executive Committee to change the location of the interim meeting. Talked about east coast versus west coast versus midwest. Having it in the same city as the upcoming conference and other possibilities. There was no consensus as to the location but there was a consensus that where ever it was cost and convenience were very important considerations.
- ◆ Mark Weaver briefly joined our meeting to review the PPIC sponsorship of a session at the Year 2000 IAS conference to be held in Rome, Italy, October 19, 2000. They are soliciting papers to be written for the conference or in the absence of new papers to use papers that had been presented at past conferences. Papers written for the PPIC Year 2000 Conference would also be considered.
- ◆ Reviewed the importance of getting the Authors data and Copyright form filled out and submitted early in the paper schedule. It is important that the forms be legible and the copyright has to be signed as it is a legal document.
- ◆ My term as Chairman ends after this conference. I have enjoyed working with everyone on the subcommittee for the past two years and want to thank all of you for your cooperation. Bruce Campbell has agreed to be the new Chairman. I hope you will give him your full cooperation in that position.

Future Papers

See attached paper summary list.

IEEE- IAS PULP & PAPER COMMITTEE
ENGINEERING MANAGEMENT, MAINTENANCE and CONSTRUCTION
SUBCOMMITTEE

TECHNICAL PAPER SUMMMARY

June 21,1999

FUTURE PAPERS

96.7 Safety Equipment

Sponsor: Russ Thrift

Author: Ray Crowe

Reviewers: Larry Layman, Larry Menche, Tom Osborne

Classification: D - 2000

Comments: Larry Layman has discussed with Ray Crowe of Duke Engineering the possibility of authoring a paper. Ray is interested in doing a paper. Russ will contact Larry. Russ is also going to pursue the paper that was in the EC&M magazine on protective clothing if Ray's paper was dealing with a different subject. Russ is still pursuing and will have more information at the interim meeting.

96.10 Advances in Lighting Technology

Sponsor: Russ Thrift

Author: Del Decker

Reviewers: Rick Watkins, Rhonda Banks, Wayne Vinson

Classification: C - 2000

Comments: Talked to Del Decker at the conference and he committed to writing the paper for presentation at the 2000 conference.

97.04 Construction Contract Alternatives

Sponsor: Peter Baen

Author: Panel

Reviewers: Larry Menche, Rhonda Banks, Laurie Cihlar

Classification: E - 2000

Comments: The main issue is what should the panel topic be focused on. EPC vs. central management? Turnkey? Subcommittee members Rich Carle and Rhonda Banks had experience with EPC contracts and agreed to help Peter. Peter is also going to talk to Preston Jackson of BE&K. Still seemed to be good interest in the subcommittee on this topic.

97.05 Current Practices in the Installation of Control Systems

Sponsor: Rick Watkins

Author: Del Decker/Abey Emmanuel

Reviewers: Burt Judson, Laurie Cihlar, Frank Newman

Classification: C - 2000

Comments: Del indicated that this paper will investigate the direction that DCS systems are heading. I.e. field bus, smaller more powerful processors. This includes Fisher-Rosemount Delta - V, Allen Bradley's Process Logix and Moore's multi-loop control and

distribution. Currently Del is considering these systems for customers, and can give a paper that is generic. He felt that the industry and other industrial facilities are moving away from the conventional DCS.

98.04 Silicone Transformer Maintenance

Sponsor: Larry Menche

Author: Larry Christalow

Reviewers: Rick Watkins, Bill Pooley, Phil Poole

Classification: E-2000

Comments: Larry Christalow has left Southwest Electric Co. Larry will pursue someone else as an author.

98.05 Case History of Emergency Turbine Replacement on a Paper Machine Line Shaft Drive

Sponsor: Rory Johnson

Author: Tim Jensen

Reviewers: Rory Johnson, Larry Layman, Burt Judson, Robert Montgomery

Classification: A-2000

Comments: Final paper submitted for 1999 Conference but did not make cutoff date.

98.11 Reliability Improvement with Voting Schemes

Sponsor: Russ Thrift

Author: Robert Wood

Reviewers: Rory Johnson, Rick Watkins, Wayne Vinson

Classification: D-2000

Comments: Russ contacted Robert Wood with Huntsman Chemical who wrote a paper on this subject for Intech magazine. He is apparently interested but Russ is still trying to determine if Roberts company will support him presenting the paper. Russ also wanted to get someone to help put a pulp & paper slant on the original paper. We discussed the fact that this might not be necessary. Wayne Vinson volunteered to help.

98.12 Maintenance of Low-Voltage Power Circuit Breakers

Sponsor: Bruce Campbell

Author: ?

Reviewers: Bill Pooley, Russ Thrift, Wayne Vinson

Classification: E-2000

Comments: Still was a great deal of interest in this paper. Bruce said he would try again to find an alternate author. Dave Durocher knew of a paper someone in C-H had written. Dave will send information to Bruce.

98.15 Hazardous Classifications in the New Electric Code

Sponsor: Peter Baen

Author: Peter Bennett

Reviewers: Robert Montgomery, Rory Johnson, Rhonda Banks

Classification: A-2000

Comments: Peter Bennett with ABTech wrote and submitted a rough draft that was not adequately reviewed. Final draft was submitted but not in time for 1999 Conference.

Paper needs to be sent to reviewers again for review. Determine if it is applicable to P&P. This should be a go for 2000. Peter Bennett attended the Seattle conference and indicated he was still interested in presenting the paper in Atlanta.

99.03 Reengineering Maintenance for the Organization of the Future

Sponsor: Rob Boteler

Author: Rich Gable

Reviewers: Dave Durocher, Wayne Vinson, Bruce Campbell

Classification: A-2000

Comments: Rough draft available at interim meeting. Author unable to complete final draft for the 1999 conference. Rob will update at the interim meeting.

99.06 Evaluation of Motor Impedance Testing

Sponsor: Rick Watkins

Author: Joe Armstrong

Reviewers: Rob Boteler, Burt Judson, Rhonda Banks

Classification: D-2000

Comments: Joe has not done any work on the paper but is still interested.

99.07 Reliability Program for Mill Maintenance

Sponsor: Wayne Vinson

Author: Rodney Bartell

Reviewers: Robert Montgomery, Dave Durocher, Burt Judson

Classification: B-2000

Comments: Wayne provided an abstract. He felt it had an excellent chance of being ready for the Atlanta Conference.

99.10 Trends in GUI Design

Sponsor: Bill Pooley

Author: Keith Cockerham/Sue Hall

Reviewers: Dave Durocher, Peter Baen, Burt Judson, Laurie Cihlar

Classification: C-2000

Comments: Burt has solicited two new authors to write a new paper on the same subject. Keith and Sue have made a presentation on this subject. Felt they could put into paper form.

99.11 Proportional Ambient Sensing Control Reduces Electric Heat Tracing Costs

Sponsor: Larry Menche

Author: Peter Baen

Reviewers: Dave Durocher, Rhonda Banks, Robert Montgomery

Classification: B-2000

Comments: Rough draft available. Peter is looking for a co-author from the mill.

00.01 Predictive Maintenance Applications of Static Excitation Control in a Paper Mill

Sponsor: Dave Durocher

Author: Don Kimmel

Reviewers: Robert Montgomery, Wayne Vinson, Rhonda Banks, Roland Roberge

Classification: B-2000

Comments: Dave presented an abstract.

00.02 Upgrading Power Distribution Equipment – How Much Does it Cost and What Do I Get

Sponsor: Rory Johnson

Author: Dave Durocher/ Larry Yonce/ Dee Amin

Reviewers: Robert Montgomery, Rich Carle, Larry Menche, Peter Baen

Classification: B-2000

Comments: Dave presented an abstract.

00.03 Diagnosing Motor Vibration Problems

Sponsor: Rory Johnson

Author: Mark Hodowanec/ Bill Finley

Reviewers:

Classification: B-2000

Comments: Bruce Campbell sent an abstract after the meeting.

00.04 Why a Lump Sum Contract is the Highest Cost Approach

Sponsor: Del Decker

Author: H. Charles Anderson

Reviewers:

Classification: C-2000

Comments: Del indicated this was a new paper he is sponsoring.

00.05 NEC Enforcement on Foreign Made Equipment

Sponsor: Rich Carle

Author: ?

Reviewers:

Classification: E-2000

Comments: Many of the Pulp and Paper companies have had problems getting foreign vendor supplied equipment approved by the local electrical inspector. Rich will investigate possibilities for paper.

00.06 Wholesale Power Sale Opportunities for Pulp & Paper Mills

Sponsor: Russ Thrift

Author: ?

Reviewers:

Classification:

Comments: Russ felt that there were opportunities for mills that have generation to now sell into the wholesale market. He was not certain the level of knowledge. Felt that Paper might be appropriate. Power broker?

00.07 Changes in the NEC for Pulp & Paper Applications

Sponsor: Larry Menche

Author: ?

Reviewers:

Classification:

Comments: General discussion revolved around PPI C providing a forum for focusing on changes to NEC that specifically affect P&P. Could be tutorial?

00.08 Electrical Reliability

Sponsor: Peter Baen

Author: ?

Reviewers:

Classification:

Comments: Peter was familiar with papers that had been written on evaluating risks associated with electrical equipment failures. Will update at interim meeting.

APPENDIX D PDS SUBCOMMITTEE

**IEEE Pulp and Paper Conference
Power Distribution Systems Subcommittee
June 21, 1999
Meeting Minutes**

Members Present:	Charles Canty	Don Deyo
	Pat Dooley	Stephen Dyrnes
	Warren Henson	Shoaib Kahn
	George Matto	Robert Moore
	Vernon Newbill	Clifford Normand
	Elton Parker	Larry Pryor
	SP Reddy	Richard Schaefer
	Ted Sexton	Ron Simpson
	Jamie Lyles	Paul Tsou
	Del Ventruella	Bill Vilcheck
	Alex Wu	

Total: 21

Excused Members:	Bucky Hammonds	Claude Hudson
	Joe Morlino	Bud Palmer
	Ed Reid	

Total: 5

Guests	Michel Cannady	Pete Crawford
	Russell Ford	Bill Caps
	Tim Crnko	Charlie Todle

Total: 6

Unexcused Absences:	Jay Bannerjee	Melvin Bernard
	Terry Branch	Darrell Broussard
	Robert Burns	David Burrow
	TC Chao	Richard Kramer
	Bal Kulkarni	John Levine
	Indra Madan	Zafer Mohiuddin
	Bill Nolley	Jim Poole
	Jim Simpson	Ray Smith
		Prem Tagra

APPENDIX D

PDS SUBCOMMITTEE

Charlie Toole
Charles Wood

Total: 19

Ken Adams and Suresh Sharma resigned from the committee.

Wade Eckler made contact with the subcommittee indicating interest in joining the group. He was unable to attend the conference.

Welcome:

All attendees introduced themselves.

List of members was circulated for updating and attendance.

Reminded committee that presenters of papers are required to be registered for the conference. A discussion was held suggesting that authors be allowed free registration for the day of the conference. This would allow individuals not supported by their company to be more willing to present papers.

Reviewed papers to be presented at conference.

Roger Jones discussed paper review process and the responsibility of the sponsors. He also emphasized the need to complete the author's release form in a readable manner.

Mark Weaver discussed the need for papers for the IAS meeting in Rome, October 19, 2000. He emphasized that IAS was trying to have more practical papers for the users rather than the academic type of paper normally presented at IAS meetings.

Solicited recommendations for nominations for Meritorious Service Award and Meritorious Engineering Award.

Volunteers to operate lights Wednesday afternoon were Charlie Canty and Alex Wu.

Future papers were discussed.

Short-circuit Studies and Coordination Studies (What, Why, and When are They Needed.

Sponsor: Jim Rooks

Author: Bruce L. Graves

Reviewers: Vernon Newbill, Ron Simpson, Elton Parker, and Steven Dyrnes

Class: B-4-98

Comments: Paper reviewed, needs some rework, should be ready for 2000 (6/99).

Overview of Power System in Pulp and Paper Industry and Some Thoughts for Improvement.

Sponsor: Charlie Canty

Author: Shoaib Khan

Reviewers: Vernon Newbill, Pete Crawford, Bob Moore

Class: B-5-98

Comments:

Primary Power Distribution Upgrade at a Major Paper Mill

APPENDIX D

PDS SUBCOMMITTEE

Sponsor: Bucky Hammonds
Author: Robert Adams, Co-author: Lee Tyree, Mark Weikle
Reviewers:
Class: C-6-98
Comments:

Insulation Failures in Underground Cable Installation

Sponsor: Stephen L. Dyrnes
Author: David Montgomery
Reviewers:
Class: B-7-98
Comments: Stephen Dyrnes has abstract and will forward (6/99).

Witness Testing of Distribution and Power Transformers

Sponsor: John Levine
Author: Patrick K. Dooley
Reviewers:
Class: C-9-98
Comments:

Applications for Medium voltage Soft Start Solid State in Pulp and Paper Industry.

Sponsor: John Levine
Author: Jeff Ratcliff
Reviewers: Larry Pryor, Bucky Hammonds
Class: B-11-98
Comments:

Study of Harmonic Conditions in a Paper Mill Environment

Sponsor: Stephen Dyrnes
Author: David Pain
Reviewers:
Class: C-12-98
Comments:

Evaluating Medium Voltage Cable Splices and Termination's

Sponsor: Joe Morlino, 513-868-5654
Author: Bill Taylor, Glenn Morrison, Doug Welch
Reviewers:
Class: C-16-98
Comments: Paper given at other conferences, copy has been located (7/99).

Incorporation of Large Generators into Existing Power Systems

Sponsor: Alex Wu and John Levine
Author: Dave Burrow
Reviewers:
Class: D-17-98
Comments: Alex Wu will make contact with Dave Burrow (6/99)

APPENDIX D

PDS SUBCOMMITTEE

Power Outage at Lake Superior Paper Industries on June 25, 98

Sponsor: Bill Vilcheck

Author: Bill Bundschuh

Reviewers:

Class: B-19-98

Comments: Paper reviewed, needs rewrite (6/99)

Power System Data Base Management.

Sponsor: John Levine

Author: Ron Simpson

Reviewers: Alex Wu, Bill Vilcheck, Ted Sexton

Class: A-22-98

Comments: Ron Simpson to check status with John Levine (6/99), Draft has been located (7/99).

Feeder and Motor Protection in the '90's and beyond

Sponsor: Ron Simpson

Author: John Levine

Reviewers:

Class: C-23-98

Comments: Ron Simpson will check status with John Levine (6/99).

Tutorial: Application of Generator and Excitation System Changes for Industrial Plants (8-hr.)

Sponsor: Charles Canty

Author: Shoaib Khan

Reviewers:

Class: C-99

Comments: Shoaib Khan will send electronic copy of alternate titles (6/99)

Benefits of Digital vs. Analog Excitation Systems

Sponsor: Vernon Newbill

Author: Richard Schaefer

Reviewers: Alex Wu, Elton Parker, Ron Simpson.

Class: C-99

Comments:

Case Studies of MV Cables Operating at 105°C and Above

Sponsor: George Matto

Author: John Cancelosi

Reviewers: Pete Crawford, Bob Moore, Don Deyo

Class: C-99

Comments:

Standards and Ratings for the Application of Molded Case, Insulated Case, and Power Circuit Breakers

Sponsor: Elton Parker

Author: Dave Roybal

APPENDIX D

PDS SUBCOMMITTEE

Reviewers: Larry Pryor, Ron Simpson, Tim Crnko
Class: B-99
Comments:

Application Considerations for High Resistance Ground Retrofits in a Pulp & Paper Mill

Sponsor: Bill Vilcheck
Author: Dave Shipp or Bob Beltz
Reviewers: Jim Rooks, Bob Moore, Larry Pryor, Pat Dooley
Class: B-99
Comments: Expect draft by October (6/99)

Reducing the Damaging Effects of Lightning Caused Voltage Fluctuations and Power Outages

Sponsor: Jim Rooks
Author: John Holmquist and Roger Jones
Reviewers: Alex Wu, Vernon Newbill, David Hollingsworth, Bob Moore
Class: B-99
Comments:

Installation of An Integrated Turbine-Generator Control System for a Pulp Mill **(DCS Subcommittee Paper, requesting PDS reviewers)**

Sponsor: Dave Rollay
Author: Mark Weaver, Dave Brown
Reviewers: DCS: Dob Giese, John Holmquist, Bob Morse, Jim Rooks
PDS: Vernon Newbill, Shoaib Kahn
Class: B-99
Comments: **For presentation at Rome IAS meeting, October 2000**

High Voltage Cable Applications, 115 kV and Above

Sponsor: George Matto
Author: Joe Zimnoch
Reviewers: Stephen Dyrnes, Shoaib Kahn, John Holmquist, and Ted Sexton
Class: C-99
Comments:

Acceptance and Maintenance Testing of Medium Voltage Cable, An Update

Sponsor: George Matto
Author:
Reviewers:
Class: E
Comments: potential 2001 paper (6/99)

Short Circuit Thermal Rating of MV and LV MCC's

Sponsor: Stephen Dyrnes
Author:
Reviewers: Tim Crnko, Alex Wu, Shoaib Kahn, Ron Simpson, Elton Parker
Class: E-99
Comments:

APPENDIX D

PDS SUBCOMMITTEE

Tutorial: 1999 NEC Code Changes for Industrial Applications (4-hours)

Sponsor: Stephen Dyrnes

Author:

Reviewers:

Class: E-99

Comments:

Adjourn

APPEDIX E TSSC SUBCOMMITTEE

**TRAINING SAFETY STANDARDS & CODES
SUBCOMMITTEE
IEEE, IAS PULP & PAPER COMMITTEE
CONFERENCE MEETING**

MINUTES OF MEETING

6/24/1999

Mr. Ron Simpson
E-Mail: ron.simpson@geics.ge.com

Topic: Jun. 1999 PPIC/TSSC annual meeting minutes

Recorded by Steve Pittman:

At the annual meeting, we had 13 members and 2 guests in attendance:

Jim Daly	Roger Jones	Steve Pittman
Ralph Shead	Clayton Reid	Paul Rouillier
Malcolm Steeves	Jim Williams	Mike Poynter
Jim Harris	Bob Jordan	Robert Cotton
Mike Glenn		

2 guests:

John Cancelosi	Kent Kerns
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0-excused absences:

2-unexcused absence:

Bob Finke	Neville Laing
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1-retired

Sid Ticker

IAS Electrical Safety Workshop

Landis Floyd from the IAS sent some handouts and a complete binder advertising an Electrical Safety Workshop which the IAS PCIS group had given. The next workshop will be in San Antonio, Texas from Feb. 16-18 with the cost around \$250. I called Landis about the possibility of shortening the program, but he said that the program is designed for this length of time and really cannot be shortened.

Interm Mtg:

The interm meeting for the pulp and paper group will be held in Atlanta at the Waverly Hotel

Past Chairmen of the TSSC subcommittee

Jim Williams is developing a list of the past chairmen of the TSSC subcommittee. When the list is complete he will send it to Ron Simpson

Accident discussion:

We discussed Ed Carter's fatal accident. He opened a 1000hp dc drive door to do a visual inspection. When the door opened a blown fuse indicator fell out and went across the bus causing a flash. Ed received 3rd degree burns on most of his upper body and died later do to the severity of the burns.

Important to Note:

Ed was wearing a polo type cotton/synthetic blend shirt with cotton blue jeans. The shirt caught on fire burning his upper body and in fact his hands were severely burned trying to put the fire out. The cotton jeans did not catch on fire so he did not receive burns in that area.

Ken Kerns from GP stated that they now require cotton clothing for any electrical work.

Electromagnetic exposure notes:

Jim Daly said that the IEEE is coming out with personal exposure limit standards for electromagnetic fields in the 0-3000hz range. He noted that OSHA is on this committee and could ultimately adopt and enforce these standards in all industries.

Lights

Paul Roullier and Mike Poynter volunteered to run the lights during the Thursday morning session.

Rome Conference

Mark Weaver came in and gave a short description of our part of the Rome 2000 conference and the need of Y2K papers for that conference.

NEC Going Metric in 2002

Jim reminded us that the NEC would be using metric measurements starting in 2002. He said that on critical measurements that they would be going "soft metric" that is having the english equivalent measurement in parenthesis. The non-critical measurements would be in "hard metric" i.e. no english equivalent.

Young Professionals

It was announced that there was a young professionals meeting at 11 am however I don't think anyone from our group attended it.

Proposed Papers for the June 2000 Wa. Conference: Atlanta Ga.

#1 Title: Communications Cabling standards for local area networks

APPENDIX E

TSSC SUBCOMMITTEE

- Sponsor: Robert Cotton
Author: Bill Slater
Reviewers: Jim Harris, Mike Poynter, Paul Rouillier
Class B paper
Robert brought an abstract of this paper to the meeting.
- #2 Title: How to increase safety without a formal program
Sponsor: Steve Pittman
Author: Malcolm Steeves
Reviewers: Jim Williams, Bob Jordan, Steve Pittman
Class C paper
- #3 Title: NEMA vs. IEC cable insulation standards
Sponsor: Jim Daly
Author: Jim Brooks
Reviewers: Mike Glenn, Ralph Shead, Malcolm Steeves
Class C paper
- #4 Title: Common cable applications questions
Sponsor: Steve Pittman
Author: John Cancelosi
Reviewers: Jim Daly, Roger Jones, Robert Cotton
Class C paper
- #5 Title: Locating electrical standards on the internet made easy
Sponsor: Paul Rouillier
Class D paper
- #6 Title: Computer aided training for 2001
Sponsor: Mike Poynter
Class D paper
- #7 Title: Comparing different maintenance arrangements and their effectiveness
Sponsor: Kent Kerns
Class E paper
- #8 Title: The road to maintenance excellence
Sponsor: Steve Pittman
Class E paper
- #9 Title: IEEE 28 and how it will affect industry
(acute effects of electromagnetic radiation on people)
Sponsor: Jim Daly
Class E paper
- #10 Title: The New NEC and how it will change in it's organization
Sponsor: Jim Daly
Class E

Totals 1-B paper, 3-C papers, 2-D papers, 4-E papers

Submitted,
7/19/1999

APPENDIX E

Steve Pittman
Chairman-TSSC

TSSC SUBCOMMITTEE

APPENDIX F DCS SUBCOMMITTEE

**IEEE Pulp and Paper Committee
Drives and Controls Subcommittee - 1999 Conference Meeting
Monday, June 21, 1999
Seattle, Washington**

Present

Ron Mehofer
Duncan Rhodes
Bob Olsson
Philip Fransen
Bob Morse
Walt Jones
Jim Rooks
J.M. Bentley
Patrick Link
Terry Gallagher
David Rollay
John A. Kay
Austin Bonnett
Ray Crane
Mark Zawadzki
Tom Shearer
John Holmquist
Erwin von der Ehe
Pete Werner
Alan Lowe
Hank Watcher
John R. Thompson
Robert Giese
Preston Jackson
Del Sever
Mark Weaver

Excused

Gene Davis
Fred Stack
Pete Famighetti
Bruce Graves
Patrick McNulty

Martin Merrill

Guests

Dan Turney
Tim Albers
Ron Sinclair
Rich Buttler
John Smith
Richard Dykstra
Warren Hopper
Travis Fulton
Glenn Hawley
Stephen Trussell
Jim Mantooth
Mark Hrovatic
Dennis Anderson
Tim Babeuch
N.Anibal Valenauela
Mike Richter
Dave Zimmer

Absent

Robert Bengston
Steven Cheek
Erich Sisa
Ralph Prescott
Dick Kane
Doug Frushour
Brian Akekey
Joe Miller
Michel Rivervin
Gary Reed
Bob Fritz
Bill Reshel
Chuck Grucella
David Mintzloff
Dwayne Robbins
Kenneth Butler
Michael Dinardo

DCS Subcommittee Meeting

June 21, 1999

Page 2

1. Welcome and Introductions.
2. Pass around attendance list.
3. Pass around current membership list and request updated telephone numbers, addresses and Email addresses (Allen Lowe).
4. Paper Reviewer - Duncan Rhodes
5. There were 26 members present, 5 excused, 18 unexcused, and 17 guests.
6. 41 members will attend lunch.
7. Reviewed each paper on current list. Del Seaver recorded the additions and deletions.
8. Reviewed the schedule for papers.
9. Called for a break at 9:30 AM.
10. Called for new papers. Again, committee members responded with new papers, new ideas and must be complimented for their commitment and willingness to volunteer as sponsors and paper reviewers.
11. Discussed Meritorious Service Awards and encouraged members to consider nominating deserving engineers for this honor. See Russ Thrift if you have and questions.
12. Adjourn meeting at 11:25 AM.
13. John R. Thompson and Del Seaver completed the draft of the Paper Tally list for 2000 prior to attending the luncheon.
14. Congratulations to Ron Mehofer as the 1999 Meritorious Service Award Winner.

John R. Thompson gave the DCS Subcommittee report at the Full Committee Meeting.

Follow-up items:

1. Type meeting minutes and send to Roger Jones; Email.
 2. Distribute meeting minutes to meeting attendees.
 3. Send membership list to Allen Lowe.
 4. IAS Conference October 8 - 12, 2000 in Rome, Italy. (www.IEEE-IAS.org)
 5. Interim meeting October 13, 1999.
- .

IEEE Industrial Applications Society - Pulp & Paper Industry Technical Committee

Drives and Controls Subcommittee - 1998 Interim Meeting
Seattle, Washington – June 21, 1999

Page 3

Paper No:	96-10	Conference:	2000-A
Title	Paper Machine E-Stop Case History		
Sponsor:	J. Alan Lowe	Reviewers:	John Thompson Richard Kane
Authors:	Walter Jones		B. Graves Mark Weaver Philip Fransen
Status:	Not finished – A paper for 2000		

Paper No:	96-15	Conference:	2001-D
Title	Electric Welder Practice in Paper Mills		
Sponsor:	Mark Zawadzki (?)	Reviewers:	D. Ray Crane Duncan Rhodes
Authors:	Robert Bengston John Holmquist Mark Zawadzki		Walt Jones Patrick Link John Worsham
Status:	Change title to “Practices or Guidelines” ?		

Paper No:	97-02	Conference:	2000-C
Title	AC Motor Optimization for Unwind Applications		
Sponsor:	Duncan Rhodes	Reviewers:	Peter Werner Robert Bengston
Authors:	Steve Evon		Walt Jones J. Alan Lowe Mark Zawadzki Bob Morse
Status:	Paper not started.		

Paper No:	Rome -97-07	Conference:	2000-C
Title	Sectional and System Tuning concepts for a paper machine Drive		
Sponsor:	Henry Wachter	Reviewers:	J. Alan Lowe Patrick Link
Authors:	Peter Werner Philip Fransen Walter Jones		Delbert Seaver Duncan Rhodes Robert Bengston

APPENDIX F

Status: Looks good for Rome.

DCS SUBCOMMITTEE

IEEE Industrial Applications Society - Pulp & Paper Industry Technical Committee

Dives and Controls Subcommittee

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Paper No: 98-13 **Conference:** 2000-A
Title Case History of TMP Refiner Synchronous Motors Insulation Failures
Sponsor: Auston Bonnett **Reviewers:** Mark Weaver
Gene Davis
Authors: Phil Fransen Bruce Graves
Larry Logan Duncan Rhodes
Status:

Paper No: 99-02 **Conference:** 2000-C
Title Synchronous Motor Field Protection and Control Applications
Sponsor: Brian Akelay **Reviewers:** Bruce Graves
Mark Weaver
Authors: Doug Frushour Hank Wachter
John Kay
Status: Need to check status with Sponsor.

Paper No: 99-03 **Conference:** 2000-C
Title Application of IEC Low Voltage Motor Protection and Control Equipment
Sponsor: Dave Rollay **Reviewers:** John Holmquist
John Kay
Authors: Terry Gallagher
Rich Carle
Status: Found Authors.

Paper No: 99-10 **Conference:** 2000-C
Title Design Criteria for Excitation System for Power Transformers
Sponsor: John Holmquist **Reviewers:** Walt Jones
John Kay
Authors: Rich Schaefer Jim Rooks
Status: Abstract at Interim

Paper No: 99-13 **Conference:** 1999-B
Title Lighting Phenomena
Sponsor: Jim Rooks **Reviewers:** John Thompson
Bob Morse
Authors: John Holmquist Mark Zawadzki
Duncan Rhodes

IEEE Industrial Applications Society - Pulp & Paper Industry Technical Committee

Drives and Controls Subcommittee

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Paper No:	99-14	Conference:	1999-A
Title	Reel Quality and Lineal Footage Tracking System		
Sponsor:	Duncan Rhodes	Reviewers:	Pat McNulty Walt Jones
Author:	John R. Thompson		Philip Fransen Bob Morse
Status:	System start-up September, 99		Pete Werner

Paper No:	2000-01 (Rome)	Conference:	2000-B
Title	Application of an Integrated Turbine Generator Control System		
Sponsor:	Dave Rollay	Reviewers:	Bob Morse Bob Giese
Authors:	Mark Weaver		John Holmquist
Status:	Abstract given at meeting		

Paper No:	2000-02	Conference:	2000-C
Title	Ratings of Semiconductors for AC Drives		
Sponsor:	Pete Werner	Reviewers:	Bob Morse Fred Stack
Authors:	Thomas Gilmore Raymond Sslatkey		Mark Weaver Del Seaver
Status:	Much material written, just has to be put together – no abstract		

Paper No:	2000-03	Conference:	2000-C
Title	The Effects of Soft Covered Rolls being Nipped and the Resulting Effects on Roll Regulation		
Sponsor:	Alan Lowe	Reviewers:	Philip Fransen Duncan Rhodes
Authors:	Walt Jones		Bob Morse Pete Werner
Status:	Abstract given at meeting		John R. Thompson

Paper No:	2000-04	Conference:	2000
Title	Index of Electrical Engineering Papers from IEEE, TAPPI & CPPA		
Sponsor:	Philip Fransen	Reviewers:	

APPENDIX F**DCS SUBCOMMITTEE****Authors:****Status:** Complied listing for cross referencing**IEEE Industrial Applications Society - Pulp & Paper Industry Technical Committee****Drives and Controls Subcommittee**

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Paper No:	2000-05	Conference:	2000-B
Title	Electronic Lineshaft Control for Paper Machines		
Sponsor:	John Bently	Reviewers:	Mark Weaver Bob Morse
Authors:	N. Anibal Valenauela		Walt Jones Anan Lowe
Status:	Submitted to IAS for October		Ron Meihofers Del Seaver

Paper No:	2000-06	Conference:	2000-C
Title	Effects of Power Transmission Components ofn AC Motor Bearing Currents		
Sponsor:	Duncan Rhodes	Reviewers:	Austin Bonnett Mark Zawadzki
Authors:	Russ Kerkmer Gary Skibinski Mike Loth John Smith		Pat Link John Bentley
Status:	First draft by October meeting		

Paper No:	2000-07	Conference:	2000-A
Title	AC Motor Bearing Systems		
Sponsor:	John Holmquist	Reviewers:	Bob Morse Walt Jones
Authors:			Travis Fulton Dan Turney Ron Meihofers
Status:	Rough draft completed.		

Paper No:	2000-8	Conference:	2000-B
Title	Squirrel Cage Rotor Construction Options for AC Induction Motors		
Sponsor:	John Holmquist	Reviewers:	Erwin Von der Ehe Travis Fulton
Authors:	Austin Bonnett Tim Albers		Dan Turney Walt Jones Bob Morse (?)
Status:	Paper is in rough draft form.		

APPENDIX G CBS SUBCOMMITTEE

COMPUTER BASED SYSTEMS SUBCOMMITTEE

MINUTES OF MEETING

Meeting Date: June 21, 1999

Recorded by: Blake Lloyd

Members Present: Mike Jhaveri Cerestar USA Inc
Blake Lloyd Iris Power
Larry Thomas Weyerhaeuser Company
John Thompson Cutler-Hammer
Reno Tonsi Rockwell Automation
John Worsham Smurfit-Stone

Members from another subcommittee None

Visitors to CBS None

Excused Absence: Joe Armstrong Boise Cascade Corporation
Janet Flores Allen-Bradley
John Kay Process Automation

Distribution: Subcommittee Members, Guests

General

Minutes of last meeting were accepted with a correction to Mike Jhaveri's company name to Cerestar.

Reno Tonsi has rejoined the Pulp and Paper committee and the CBS subcommittee – welcome back Reno.

Despite the small numbers, we continue to have good discussion and generated a number of new paper ideas. Thanks for all your help

2000 Conference Papers

APPENDIX G

CBS SUBCOMMITTEE

The 2000 Conference will be held in Atlanta. It was reported that the Atlanta local committee made a presentation to the Executive. The conference hotel will be located in a suburb area of Atlanta, the same hotel will be used for the October meeting.

The Subcommittee believes that it has 10 potential papers for the conference. See attached spreadsheet for Sponsor and Reviewer assignments.

The Subcommittee currently has no papers for the conference in Rome Italy to be held in the year 2000.

As she was not present, the working group volunteered Janet Flores as primary Paper Grader, and Blake Lloyd will act as the backup.

Other Business

The conference Web page has been in limbo awaiting input from the executive on the conference. Blake Lloyd has agreed to generate a simple Committee web page before the interm meeting. Notification will be sent to all members before the interm meeting so that they can come armed with suggestions for improvement. Digital pictures from this conference will be available on the web page for downloading.

John Thompson will be taking over as Subcommittee chairman immediately following this meeting. Congratulations to John, and thank you for your support over the last 2 years.

Respectfully submitted,

Blake Lloyd
CBS Subcommittee Chairman

attachments: members.xls
papers.xls

APPENDIX G

CBS SUBCOMMITTEE

MEMBER	DATE JOINED	COMPANY	CBS Meeting Attendance														
			Jun-92	Oct-92	Jun-93	Oct-93	Jun-94	Oct-94	Jun-95	Oct-95	Jun-96	Oct-96	Jun-97	Oct-97	Jun-98	Oct-98	Jun-99
Joe Armstrong	May-92	Boise Cascade AL	P	Ex	Ux	Ex	Ex	Ex	P	P	P	Ex	P	P	P	P	Ex
Janet Flores		Allen-Bradley TX						Ex	P	P	P	P	Ex	P	P	Ex	Ex
Mike Jhaveri	Sep-91	CERESTAR USA, INC	P	P	Ex	P	Ex	Ex	P	Ex	P	P	P	P	P	P	Ex
John Kay	Sep-91	Process Automation BC	P	P	P	P	P	P	P	P	P	Ex	Ex	Ex	P	Ex	Ex
Blake Lloyd	Feb-94	Iris Power ON			P	P	P	Ex	P	P	P	P	P	P	P	P	P
Stan Merritt	Jun-78	Merritt & Assoc., VA	P	P	P	P	P	P	P	P	P	P	P	P	P	P	Ux
Mike Tiller	Jun-97	GE Fanuc Automation											P	Ux	Ex	Ex	Ux
Larry Thomas	Nov-87	Weyco OR	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
John Thompson	Jun-97	Cutler-Hammer											P	P	P	P	P
John Worsham	Jun-97	Smurfit - Stone, FL											P	P	P	Ex	P
Reno Tonsi	Sep-88	Allen-Bradley OH	P	P	P	Ex	P	Ex	P	P	P	P	P	P	P	Ex	P

PEOPLE WHO SIGNED UP/ ATTENDED

Bruce Parkman	96 GE										P	P					
Duane Perry	96 AICE										P						
Bruce Parkman																	
Duane L. Perry																	
Scott Salter																	P
Karl Meihofner																	P

RESIGNED

Kirk Armintor	Jun-91	Reliance TX	Ex	P	Ux	Ux	P	P	P	Ex	P	P	P	Ux	Ux		
Elizabeth Zeigler		ITT Rayonier FL	P	P	Ex	P	Ex	Ex	Resign								
Frank Klein		Eaton WI			P	Ex	P	Ex	Resign								
Rob Beane		National Automation BC	P	Ex	P	Ex	Ex	Ex	Resign								
Grady Hart	May-85	Electric System NC		P	P	P	P	Ux	Ux	Remove							
Jerry Archer	Sep-90	Union Camp GA	Ex	Ux	Ux	Ex	Ex	Ex	Ex	Ex	Ux	Resign					
Brian Kochan	Mar-96	Stone Container CT			Ux	Ux	Ex	Ex	Ex	Ux	Ux	Resign					
Dick Morrison		Boise Cascade AL	P	P	P	P	Ex	P	P	P	P		Retired				
Barclay Wallace	Mar-96				P	Ux	P	Ex	P	Ex	Ux	Ux	Dropped Out				

TRANSFERRED TO OTHER SUBCOMMITTEE'S

Philip Poole	Sep-83	Tenneco Packaging	Ux	Ex	Ex	Ex	P	Ex	Ex	P	Ex	Transfer to EMMC					
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GUESTS

Phung Le		Champion										P-Guest					
Duane Perry		AICS										P-Guest					
Stephen Hilder	Jun-97	Northwood Pulp & Timber											P-Guest				
Tom Herman		U S Motors															P-Guest
Doug Toth		U S Motors															P-Guest

Computer Based Systems Subcommittee						
Paper Status Report						
No.	Paper	Author	Company	Sponsor	Reviewers	Grading
*	Means possible Tutorial					Grading
**	Means possible as a panel					A, B,C,D,E
99-10	Digester Variability Reduction	David Pors	Champion	J. Kay	B. Lloyd Mike Jhaveri Stan Merritt	D
99-12	OPC: Simple software integration for Legacy Syst	Mark Jenki		B. Lloyd	J. Thompson J. Flores B. Lloyd	A
99-20	Changing from Proprietary DCS based CD Controls	Steve Pittman		J. Armstrong	B. Lloyd Stan Merritt Reno Tonsi	A
00-1	The Year 2000 (after)	Robin Wallace	Universal Dynamics	J. Kay	B. Lloyd J. Worsham Mike Jhaveri	C
00-2	On-line Monitoring and Integrated Maintenance Calibration			J. Armstrong		D
00-3	Review of Instrument Networks	TBD		J. Kay		E
00-5	Embedded Web Devices			Karl Mehofer		E
99-8	PC based environmental Monitoring	John Worsham	Jefferson-Sm	Mike Jhaveri	R. Tonsi J. Flores J. Thompson	B
99-16	Grounding/Shielding on Electronic Equipment	TBD		J. Thompson	S. Merritt Mike Jhaveri John Worsham	E
99-11	Effect of Re-caust process improvements on quality	Mark Weaver		J. Kay	Stan Merritt J. Thompson Mike Jhaveri	C
01-1	Automated Tie Line Control			John Thompson		E
01-2	Self Calibrating Instruments			Mike Jhaveri		E
01-3	Utilization of a hybrid DCS PLC System for a typical mill application	Joe Zaccaria Ed Grant		Janet Flores		C

APPENDIX H MEMBERSHIP REPORT

**IEEE PULP & PAPER INDUSTRY COMMITTEE
MEMBERSHIP REPORT
1998 ANNUAL MEETING
JUNE 21, 1999**

Present committee membership is 142. We have had three members resign and fourteen new members join since the 1998 Interim Meeting. There are twenty-four applications pending. Changes in membership are as follows:

Resigned (3):

Ken Adams
John Dwyer
Suresh Sharma

New members (14):

R. V. Burns
D. A. Burrow
Thomas Campbell
H. H. Carter
L. P. Dalpe
J. H. Harris
W. A. Henson
Robert Montgomery
W. T. Nolley
Robert Olsson
W. J. Sexton
Fred Stack
C. B. Toole
E. J. Von der ehe

Submitted by J. Alan Lowe, Membership Chairman.

APPENDIX H

MEMBERSHIP REPORT

	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99
	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/
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	X/X	X/X	R/
Brian Akeley																		O/
Kirk Armintor										X/O	EX	O/O	X/X	X/E	X/X	X/O	O/O	O/
Joe Armstrong												O/E	O/E	X/X	X/E	X/X	X/X	E/
Peter Baen																/X	O/X	X/
Ronda Banks														X/E	O/X	X/X	X/X	O/
Jay Bannerjee							X/X	X/X	X/X	X/X	XX	EE	E/E	X/O	E/O	E/E	O/R	O/
Robert Bengston														X/X	X/X	E/O	O/O	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/
Austin Bonnett									X/X	XX	XX	XX	XX	XX	XX	XX	XX	X/
Rob Boteler																	X/X	O/
Jim Bowen																X/O	O/O	O/
Terry Branch							/E	X/X	X/O	X/E	XX	X/O	X/O	O/E	E/E	O/E	O/O	O/
Kenneth Brink																X/O	O/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	E/E	E/O	O/
Ken Butler																X/O	O/O	O/
David Burrow																X/X	O/E	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/O	X/E	X/X	X/
Bruce Campbell								/X	X/E	X/O	XX	XX	X/O	X/X	X/X	X/X	X/X	X/
Tom Campbell																	X/O	X/
Charlie Canty				X/X	E/E	E/X	E/O	X/X	E/E	XX	O/X	X/O	E/O	E/X	E/X	X/X	X/E	X/
Richard Carle														E/E	O/O	O/E	O/E	X/
Hayes Carter																	-X	O/
TC Chao							X/X	X/X	X/X	XX	O/O	XX	X/O	X/E	E/X	E/O	O/O	E/
Stephen Cheek													X/O	X/O	O/O	X/E	O/O	O/
Laurie Cihlar											/X	X/X	X/X	O/X	O/X	O/X	E/E	E/
Gary Clodfelter																	E/E	E/
Robert Cotton												XX	XX	XX	XX	XX	X/O	X/
Ray Crane	E/O	X/E	X/E	X/E	X/X	X/X	X/X	X/E	X/E	XX	X/E	X/E	X/E	X/O	X/O	X/E	X/E	X/
Tim Crnko																		X/
Pete Dalpe																		O/
Jim Daly	X/E	E/E	X/E	X/X	X/E	X/O	X/E	E/X	X/X	XX	X/E	X/E	X/O	E/X	E/E	X/E	X/O	X/
Gene Davis, Jr.														/E	X/X	X/X	X/E	E/
Del Decker												X/O	X/E	O/O	O/O	X/E	E/E	E/
Don Deyo							/E	X/X	XX	XX	X/O	E/X	X/X	E/E	X/E	X/O	X/	
Steve Dolman																X/O	O/O	O/
Pat Dooley													X/X	X/X	X/X	X/X	X/X	X/
Gordon Dover																X/X	X/X	O/
David Durocher																X/X	X/X	X/
Jack Dwyer														/X	X/X	O/O	O/O	R/
Stephen Dynnes			/E	X/E	X/E	E/X	E/O	E/E	X/E	O/E	XX	X/E	X/O	O/E	E/E	X/E	X/E	X/

APPENDIX H

MEMBERSHIP REPORT

John Fagen																			X/
Pete Famighetti								X/O	X/O	X/E	XX	X/E	X/E	E/E	E/E	E/E	O/O	X/E	O/
Robert Fazio																	XX	O/O	O/
Bob Finke									X/E	XX	XX	X/E	E/X	X/O	X/O	XX	O/O	O/	
Janet Flores															XX	XX	EX	X/O	E/
Phil Fransen	X/	X/E	X/E	X/E	X/X	X/X	X/E	E/E	X/E	E/O	XX	O/O	X/E	X/E	XX	XX	XX	XX	E/
Bob Fritz	X/X	X/X	X/X	X/X	X/X	X/X	X/X	X/X	X/X	XX	EX	X/O	E/E	X/O	O/E	E/O	O/E	O/	
Douglas Frushour																	XX	E/O	O/
Terry Gallagher																	XX	XX	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/	
Mike Glenn	X/X	X/X	X/X	X/X	X/X	X/E	X/E	X/X	X/X	XX	XX	EX	X/O	EX	XX	XX	EX	E/E	X/
Bruce Graves			X/X	E/X	X/X	X/X	X/X	X/X	E/E	XX	EX	E/O	E/E	X/O	O/X	XX	E/E	O/	
Chuck Grucella								/E	X/E	E/X	X/E	X/E	X/E	X/E	E/E	E/O	E/O	O/	
Tom Grudkowski																	X/O	O/	
Bucky Hammonds														O/X	X/E	X/O	X/O	O/	
James Harris																	-/X	O/	
Warren Henson																		O/	
Tom Herman																	X/O	O/	
John Holmquist					/E	X/E	X/X	X/X	X/E	XX	X/E	XX	X/X	X/X	X/X	X/E	XX	X/	
Claude Hudson	X/X	X/E	X/X	X/E	X/E	X/O	E/O	X/O	X/O	X/O	XX	X/O	X/E	X/O	X/O	E/E	O/O	O/	
Preston Jackson				O/X	E/X	X/E	X/E	X/E	X/X	X/E	XX	X/E	X/E	X/X	X/X	X/E	X/O	X/	
Barbara Jensen															XX	O/O	O/O	O/O	O/
Mike Jhaveri										/O	XX	O/X	O/E	X/E	XX	O/X	X/O	X/	
Rory Johnson		/O	X/X	X/X	X/E	E/O	E/E	X/X	X/O	X/O	XX	X/O	X/E	XX	X/O	XX	XX	X/	
Roger Jones						X/X	X/X	X/X	X/X	XX	XX	XX	XX	XX	XX	XX	XX	X/	
Walt Jones	X/X	X/X	X/X	X/E	E/E	X/X	X/X	X/X	X/X	XX	XX	XX	XX	XX	O/X	XX	XX	XX	X/
Robert Jordan																E/E	XX	X/E	X/
Burt Judson	X/E	X/X	X/E	X/X	X/X	X/X	X/X	X/X	X/X	XX	XX	XX	XX	XX	XX	XX	XX	XX	X/
Dick Kane								/X	X/E	X/E	O/O	O/X	X/E	X/E	X/E	E/E	X/E	O/	
John A. Kay															XX	XX	XX	X/	
John T. Kay										/O	XX	XX	X/X	X/X	X/E	XX	O/E	E/	
Farida Khan									X/X	X/E	XX	XX	X/O	O/O	O/X	O/O	O/O	O/	
Shoaib Khan								/E	X/O	X/O	X/O	X/O	X/O	X/O	X/E	XX	X/E	X/	
Dinah King																XX	O/O	O/	
Brian Kochan																O/R	O/O	O/O	O/
Richard Kramer										/O	X/E	X/E	X/O	X/E	E/E	O/E	X/E	O/	
Neville Laing									/E	E/E	X/E	E/E	X/O	O/E	X/E	E/E	O/E	E/	
Larry Layman	X/E	X/E	X/X	X/E	X/E	E/E	X/E	X/X	X/E	E/X	X/E	XX	X/E	XX	X/O	O/E	X/E	E/	
Phung Le																O/X	O/O	O/O	O/
John Levine										/X	EX	XX	E/X	X/E	O/X	XX	O/		
Pat Link											/X	X/E	E/E	XX	O/X	XX	X/		
Blake Lloyd													X/E	XX	XX	XX	XX	X/	
Alan Lowe						O/E	X/E	X/X	X/X	XX	XX	XX	X/E	XX	XX	XX	XX	X/	
James Lyles																X/O	O/O	O/	

APPENDIX H

MEMBERSHIP REPORT

Indra Madan									X/X	X/E	E/O	O/O	E/O	E/O	E/E	O/E	E/O	O/O	O/		
Jim Mantooth																			X/		
Henry Martin																	X/O	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/			
Patrick McNulty																	X/X	X/X	O/		
Ron Meihofer	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/			
Larry Menche													X/E	X/X	X/O	X/E	E/E	X/			
Stan 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	X/X	E/		
Joe Miller	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	E/O	E/O	E/			
David Mintzloff															O/X	O/E	O/E	O/			
Zafer Mohiuddin								X/O	E/O	E/E	O/O	O/O	E/O	O/O	O/O	O/O	O/O	O/			
Robert Montgomery																		-/X	X/		
Jim Moore								O/X	O/O	X/X	X/X	O/O	O/E	E/O	O/O	O/O	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/X	X/O	E/X	O/O	O/			
Robert Moore																		X/O	X/		
Sam Moore																	X/O	O/O	O/		
Joe Morlino	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	X/E	X/E	E/			
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	O/O	O/O	O/			
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/			
Vernon Newbill																		X/O	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/			
Bill Nolley																			O/		
Clifford Normand																	X/X	X/X	X/		
John O'Kroneg							X/E	X/E	X/E	X/E	X/E	E/O	O/O	E/O	O/O	O/O	O/O	O/			
Don Oliver									O/E	E/E	E/E	E/E	O/O	E/O	O/O	O/O	O/O	O/			
Bob Olsson																	X/X	X/X	X/		
Tom Osborne													O/E	X/E	X/X	X/X	X/E	O/			
Bud Palmer							X/X	O/X	X/X	X/X	X/X	X/X	X/O	E/X	E/X	X/X	O/O	E/			
Richard Palmer														X/X	X/X	E/O	O/O	O/			
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/		
James Parker														O/O	O/O	O/O	O/O	O/			
Randy Paulson									/E	X/E	X/O	E/O	E/O						O/		
Stephen Pittman														X/X	E/X	X/X	X/X	X/			
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/			
Jim Poole							X/E	X/X	E/E	X/X	X/O	E/E	X/X	X/E	E/E	O/O	O/O	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	E/E	E/E	E/			
Mike Poynter													X/E	X/O	X/E	E/E	X/O	X/O	X/		
Bobby Prater	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	O/O	O/O	O/			
Ralph Prescott																		X/O	E/		
Larry Pryor																		X/E	X/		
Bill Reshel																/X	E/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	X/E	X/O	X/			
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/		
Ed Reid								/X	X/X	X/X	X/X	X/X	X/E	E/X	E/X	X/X	X/O	O/			

APPENDIX H

MEMBERSHIP REPORT

Duncan Rhodes																	X/E	X/X	X/
Mike Riverin							E/X	X/X	X/X	XX	XX	XX	XX	X/E	XX	E/O	E/O	O/	
Dave Rollay	X/X	X/X	X/X	X/X	X/X	X/X	X/X	X/X	X/X	XX	XX	XX	XX	XX	XX	XX	X/X	E/X	X/
James Rooks																	X/O	X/X	X/
Paul Roullier								/X	XX	X/E	XX	X/X	X/X	X/X	X/X	X/E	X/X	X/	
Rene Santiago														/E	O/O	O/O	O/O	O/	
John Schaffer													X/O	X/O	O/O	O/O	X/O	O/	
Duane Schnitzler	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	O/O	O/O	O/	
Bob Schoolcraft												E/O	O/X	X/E	O/O	O/O	O/O	O/	
Del Seaver													/O	X/X	X/O	X/E	X/		
Ted Sexton								/E	X/E	XX	X/O	O/O	O/E	X/O	O/O	X/E	X/		
Suresh Sharma																	X/X	R/	
Ralph Shead													/O	X/X	X/X	X/X	X/X	X/	
Tom Shearer																X/X	X/X	O/	
Jim Simpson															X/X	E/X	X/X	O/	
Ron Simpson				E/X	X/X	X/X	X/X	X/X	X/X	XX	X/O	XX	X/X	X/X	X/X	X/E	X/X	X/	
Ron Sinclair				/X	X/X	X/X	E/E	X/X	XX	X/E	XX	E/O	X/O	O/O	O/O	O/O	X/		
Ray Smith					/X	X/X	X/X	E/E	XX	XX	EX	X/X	X/X	X/X	O/O	X/O	O/		
Fred Stack																	X/X	O/	
Joseph Stees																X/O	O/O	O/	
Malcolm Steeves							E/O	O/X	X/E	O/E	X/E	E/O	X/O	X/E	O/E	X/E	X/E	X/	
David Swindler																X/O	O/O	O/	
Prem Tagra															/X	X/O	E/X	O/	
Chand Tailor													X/E	X/E	X/X	O/O	O/O	O/	
Larry Thomas							E/E	X/X	X/X	XX	XX	XX	X/X	X/X	X/X	X/X	X/X	X/	
John R. Thompson	E/E	E/O	X/O	X/X	E/X	X/E	X/O	X/E	X/E	XX	X/E	X/E	X/E	X/X	X/E	X/X	X/X	X/	
John C. Thompson																X/X	X/X	X/	
Russ Thrift							X/X	X/X	X/X	XX	XX	XX	XX	XX	XX	X/X	X/X	X/	
Sid Ticker											X/E	XX	O/X	X/X	X/E	X/X	X/O	O/	
Mike Tiller																X/O	O/E	O/	
Charlie Toole																		X/	
Reno Tonsi							/X	X/E	X/E	XX	XX	X/E	X/E	X/X	X/X	X/X	X/O	X/	
Don Tremaglio													X/O	X/O	E/O	O/O	O/O	O/	
Tim Trumbo				/X	X/O	X/X	E/X	X/X	X/O	X/O	X/E	X/O	X/O	O/O	O/O	O/O	O/O	O/	
Paul Tsou							/X	X/X	XX	X/E	X/O	X/O	X/X	E/E	O/O	X/O	O/		
Greg Vaughn																X/O	O/O	O/	
Del Ventruella													X/E	X/E	O/X	X/X	X/X	O/	
Bill Vilcheck																/X	X/X	O/	
Wayne Vinson															O/X	X/X	X/X	X/	
Erwin von der Ehe																	X/E	X/	
Hank Wachter									X/O	X/E	XX	X/X	X/E	X/E	X/X	X/X	X/		
Barclay Wallace																O/O	O/O	O/	
Rhett Ward	X/X	X/X	X/X	X/X	X/X	X/X	X/X	X/X	E/X	E/O	EE	E/O	E/E	E/O	O/O	O/O	O/O	O/	
Rick Watkins								/X	X/X	XX	X/O	XX	E/X	X/X	X/E	O/X	X/X	O/	

APPENDIX H

MEMBERSHIP REPORT

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	X/X	X/E	X/	
George Weihrauch															X/O	O/O	O/	
Pete Werner													X/O	X/X	X/O	E/E	X/X	X/
Jim 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/
Charles Wood							E/X	E/X	E/X	E/O	O/X	EX	EX	O/O	X/X	EX	O/O	O/
John Worsham																X/X	X/E	X/
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	X/X	X/X	X/O	X/
Mark Zawadzki															X	E/X	X/	

APPENDIX H

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APPENDIX H**MEMBERSHIP REPORT****IEEE/IAS Pulp and Paper Industry Committee Members and Applicants**

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APPENDIX H

MEMBERSHIP REPORT

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APPENDIX H

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APPENDIX H**MEMBERSHIP REPORT****IEEE/IAS Pulp and Paper Industry Committee Members and Applicants**

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APPENDIX H**MEMBERSHIP REPORT****IEEE/IAS Pulp and Paper Industry Committee Members and Applicants**

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APPENDIX H

MEMBERSHIP REPORT

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APPENDIX H

MEMBERSHIP REPORT

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APPENDIX H

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